WindenergieProject kluizendok Armasteel

Slagschaduwstudie

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1 Inleiding

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

Voorliggende slagschaduwstudie omvat een beschrijving van de te verwachten slagschaduweffecten voor verschillende situaties. Gezien nog niet geweten is of dat vergunde windturbine KLZ-WT19 zal worden gerealiseerd en bijhorend KLZ-WT11 zal worden afgebroken is er sprake van twee referentiesituaties A en B. Daarnaast zijn er nog twee windturbines (KLZ-WT22 en KLZ-WT23) in de omgeving in ontwikkeling die mogelijks zouden worden vergund en gerealiseerd worden, deze vormen het onderwerp van geplande situatie 2. De verschillende situaties zijn als volgt:

- Het **project**: de geplande windturbine KLZ-WT21;
- **Referentiesituatie A**: de situatie met de relevante[1], bestaande en vergunde windturbines. In deze situatie wordt KLZ-WT19 als gebouwd en KLZ-WT11 als afgebroken beschouwd;
- **Referentiesituatie B**: de situatie met de relevante, bestaande en vergunde windturbines. In deze situatie wordt KLZ-WT19 als niet gebouwd en KLZ-WT11 als te behouden beschouwd;
- De **geplande situatie 1A:** cumulatief effect van de referentiesituatie A met het project;
- De **geplande situatie 2B:** cumulatief effect van de referentiesituatie B met het project.
- De **geplande situatie 2A:** cumulatief effect van de referentiesituatie A met het project en de relevante windturbines in ontwikkeling;
- De **geplande situatie 2B:** cumulatief effect van de referentiesituatie B met het project en de relevante windturbines in ontwikkeling;

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

De gedetailleerde slagschaduwmodelleringen zijn weergegeven in ‘Bijlage 2’ bij deze slagschaduwstudie.

Tabel 1-1: Relevante windturbines in de omgeving, met aanduiding van de situaties waarin ze opgenomen zijn

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

Naam	Lambert 72		Project	Referentiesituatie A	Referentiesituatie B	Geplande situatie 1A	Geplande situatie 1B	Geplande situatie 2A	Geplande situatie 2B
	X (m)	Y (m)							
Project									
KLZ_WT21	108099	205347	X			X	X	X	X
Bestaande/vergunde windturbines									
KLZ_WT01	109653	206929		X	X	X	X	X	X
KLZ_WT02	109337	206834		X	X	X	X	X	X
KLZ_WT04	108595	206585		X	X	X	X	X	X
KLZ_WT05	108233	206502		X	X	X	X	X	X
KLZ_WT06	107898	206322		X	X	X	X	X	X
KLZ_WT08	107596	204270		X	X	X	X	X	X
KLZ_WT10	108320	204485		X	X	X	X	X	X
KLZ-WT11	108672	204558			X		X		X
KLZ_WT12	107283	206313		X	X	X	X	X	X
KLZ_WT13	106963	205983		X	X	X	X	X	X
KLZ_WT15	106447	204659		X	X	X	X	X	X
KLZ_WT16	106409	204106		X	X	X	X	X	X
KLZ_WT17	108845	206555		X	X	X	X	X	X
KLZ_WT19	108589	204627		X		X		X	
KLZ_WT20	107601	206186		X	X	X	X	X	X
MXS_WT01	108810	203720		X	X	X	X	X	X
ALB_WT01	108129	203056		X	X	X	X	X	X
CBR_WT01	109199	204660		X	X	X	X	X	X
ATS_WT01	107438	201986		X	X	X	X	X	X
NES_WT01	106019	202761		X	X	X	X	X	X
SAM_WT01	112131	207449		X	X	X	X	X	X
SAM_WT03	111438	207038		X	X	X	X	X	X
SAM_WT02	111799	206878		X	X	X	X	X	X
SAM_WT04	110414	205130		X	X	X	X	X	X
SAM_WT05	109878	204734		X	X	X	X	X	X
SAM_WT06	109720	205956		X	X	X	X	X	X
SAM_WT07	109509	205446		X	X	X	X	X	X
SAM_WT08	111215	206006		X	X	X	X	X	X
SAM_WT09	112321	207938		X	X	X	X	X	X
SAM_WT10	110490	207672		X	X	X	X	X	X
SAM_WT11	110164	205375		X	X	X	X	X	X
MVZ_WT01	109715	202591		X	X	X	X	X	X
MVZ_WT02	110052	202627		X	X	X	X	X	X
RHR_WT01	109022	203110		X	X	X	X	X	X
RHR_WT03	108481	202945		X	X	X	X	X	X
RHR_WT02	109082	202694		X	X	X	X	X	X
MVN_WT01	110103	203099		X	X	X	X	X	X
EVE_WT01	106632	206417		X	X	X	X	X	X
EVE_WT02	106491	205925		X	X	X	X	X	X
SWB_WT01_RP	112521	206699		X	X	X	X	X	X
SWB_WT02_RP	112740	207253		X	X	X	X	X	X
TEN_WT01	109463	207750		X	X	X	X	X	X
Windturbines in ontwikkeling									
KLZ-WT22	107120	204429						X	X
KLZ-WT23	108781	205627						X	X

2 Wat is slagschaduw?

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

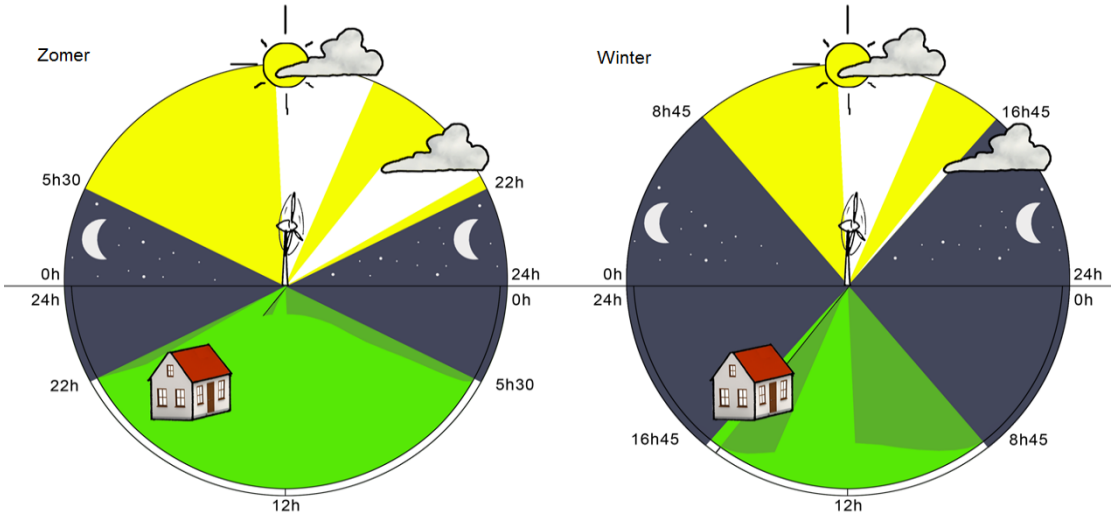
Een wiek van een windturbine zal bij helder en zonnig weer een schaduw werpen op de achterliggende grond. Op bepaalde plaatsen en onder bepaalde omstandigheden kan de slagschaduw op een raam van een gebouw vallen en in die binnenruimte een hinderlijke wisseling van lichtsterktes veroorzaken.

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

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

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

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



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

3 Juridisch kader

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

- **Verwachte slagschaduw**: Het aantal uren slagschaduw dat aan de hand van de correcties met klimatologische maandnormalen verwacht mag worden.
- **Effectieve slagschaduw**: Het aantal uur slagschaduw dat effectief ter hoogte van een relevant slagschaduwgevoelig object opgetreden is, bepaald op basis van metingen of bepaald uit het logboek van de turbines.
- **Slagschaduwgevoelig object**: Een slagschaduwgevoelig object wordt door de milieuregelgeving gedefinieerd als een binnenruimte waar slagschaduw van windturbines hinder kan veroorzaken. Het betreft concreet een woning, een kantoorgebouw of elk ander gebouw waarin mensen wonen en/of werken.

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

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

1. Indien er zich een slagschaduwgevoelig object bevindt binnen de contour van vier uur verwachte slagschaduw per jaar van de windturbine, wordt de windturbine uitgerust met een automatische stilstand module;
2. De exploitant houdt een logboek bij per windturbine. Dat logboek vermeldt de nodige gegevens om de effectieve slagschaduw voor elk relevant slagschaduwgevoelig object binnen de contour van vier uur verwachte slagschaduw per jaar te bepalen. In het logboek worden de volgende gegevens bijgehouden:
   - een slagschaduwkalender voor elk relevant slagschaduwgevoelig object in tabelvorm de lijst van alle relevante slagschaduwgevoelige objecten binnen de contour van vier uur verwachte slagschaduw per jaar met hun respectievelijke Lambertcoördinaten;
   - waarin de astronomisch maximaal mogelijke slagschaduwduur voor elke windturbine wordt weergegeven.
3. De exploitant stelt minstens de eerste twee exploitatiejaren een controlerapport op, op basis van de gegevens vermeld in lid 1 en 2. Dat rapport vermeldt ten minste hoeveel effectieve slagschaduw elk relevant slagschaduwgevoelig object binnen de contour van vier uur verwachte slagschaduw per kalenderjaar heeft getroffen en welke remediërende maatregelen eventueel zijn genomen;
4. Tenzij anders vermeld in de omgevingsvergunning, geldt voor elk relevant slagschaduwgevoelig object (volgens de VLAREM-trein en zomertrein 2015, gepubliceerd in het Belgisch Staatsblad op 26 augustus 2016):

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

Voor de geplande turbine wordt een automatische stilstandsmodule of ‘slagschaduwmodule’ geïnstalleerd om steeds te kunnen voldoen aan de VLAREM-normen.

4 Methodologie

Om het effect van de windturbine op vlak van slagschaduw te bepalen, wordt een slagschaduwmodellering uitgevoerd conform de voorwaarden opgenomen in het addendum R20.1.6 van het omgevingsvergunningsbesluit. Naast de locatie van de windturbine, zijn ook de afmetingen van de windturbine van belang voor de berekeningen. De exacte afmetingen van de geplande windturbine zijn echter nog niet gekend. Daarom wordt in voorliggend lokalisatienota een worst-case windturbine gemodelleerd, met een maximale tiphoogte en rotordiameter. De maximale tiphoogte voor de geplande windturbine bedraagt 250. De maximale rotordiameter bedraagt 175 meter.

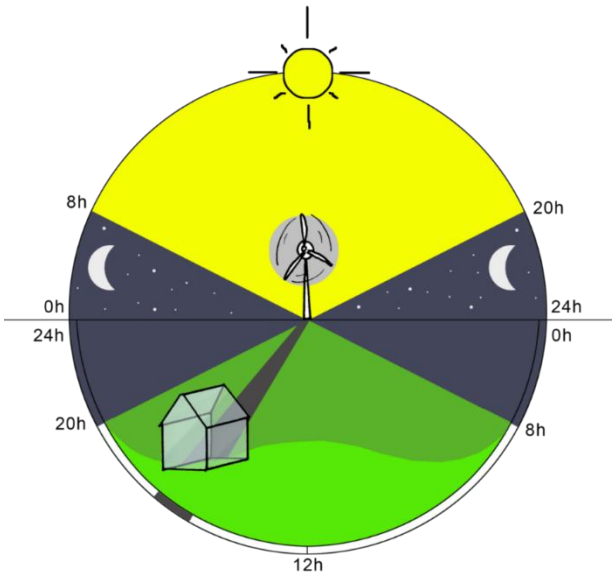
4.1 Slagschaduwbepaling

4.1.1 Astronomisch maximum

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

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

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



Figuur 4-1: Illustratie van het astronomisch maximum.

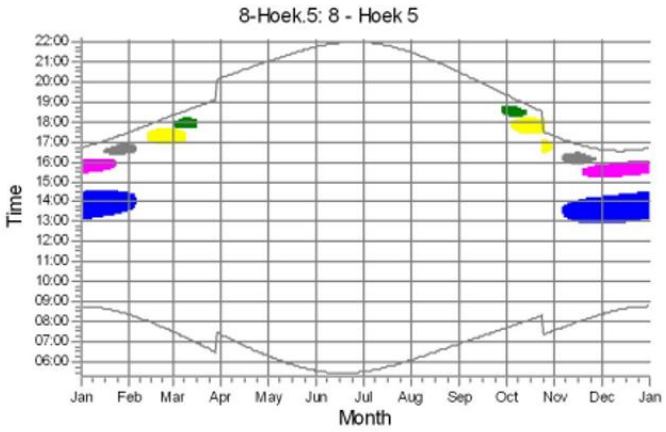
Deze aannames schetsen een **hypothetische worst-case situatie** zowel op meteorologisch vlak als op vlak van het object zelf. Het komt immers niet voor dat in elk huis of kantoorgebouw op elk moment van de dag een raam gericht is naar de windturbine.

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

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

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

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



Figuur 4-2: Voorbeeld van een slagschaduwkalender.

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

4.1.2 Verwachte slagschaduwduur voor representatieve greenhouse objecten

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

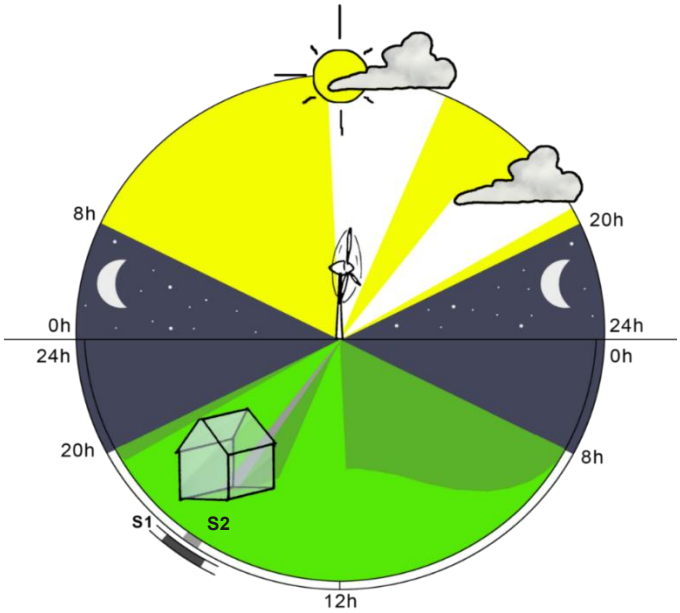
- **Zonneschijn**: De zon wordt af en toe belemmerd door wolken en schijnt dus niet elke dag van zonsopgang tot zonsondergang. We gebruiken data zoals opgenomen in WindPRO, op basis van de ‘'Klimaatstatistieken van de Belgische gemeente: Evergem (KNMI-KNW), over de periode 1999-2018.
- **Windsnelheid:** De windturbine draait vaak, maar niet bij windstille periodes.
- **Windrichting**: De windrichting is variabel en de rotor staat steeds loodrecht op de windrichting. Hierdoor staat de rotor niet steeds loodrecht op de zon.
- **Locatie ramen van het object**: Het object wordt nog steeds beschouwd als een serre (“greenhouse”) met in elke gevel een raam op 1 m boven het maaiveld van 2 m hoog en 5 m breed.
- **Oriëntatie ramen van het object**: Elke glaspartij is nog steeds gericht naar de zon (object ontvangt licht uit alle richtingen.
- **Obstakels**: Er zijn nog steeds geen obstakels (noch natuurelementen noch andere gebouwen) die zorgen voor permanente schaduw en op die manier slagschaduw verhinderen.

De normale gemiddelde meteorologische omstandigheden (bewolking, variabele windsnelheid en -richting) worden dus in rekening gebracht, maar het object is nog steeds theoretisch (elk huis wordt immers als een serre beschouwd waarbij de glaspartij altijd gericht is naar de (bewegende) zon), net als de omgeving (die als volledig vrij van obstakels, zoals gebouwen of vegetatie, wordt beschouwd).

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

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

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



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

4.2 Slagschaduwmodelleringen

Het is gangbaar om slagschaduw slechts te beschouwen tot zonnehoeken groter dan 3° ten opzichte van de horizon[2]. Bij een lagere stand van de zon is het zonlicht immers te zwak en wordt er veel zonlicht afgeschermd door vegetatie en gebouwen. Rekening houdende met een maximale tiphoogte van 250 meter voor de geplande turbine, kan het studiegebied bijgevolg bepaald worden door circa 4,8 km rond het projectgebied te beschouwen. Bovendien worden sowieso alle voor slagschaduw relevante, bestaande/vergunde/geplande windturbines meegenomen in de berekeningen en simulaties[3].

[2] Standaard instelling in WindPro.

[3] Als “relevante” turbines werden de turbines beschouwd die volgens de “handleiding windturbines” kunnen interfereren voor slagschaduw. De “handleiding windturbines” (https://www.lne.be/sites/default/files/atoms/files/Handleiding_windturbines_def_0.pdf, zoals opgesteld door Team Omgevingseffecten dd. augustus 2017, en laatst aangepast in oktober 2020) stelt dat voor de bepaling van het aantal windturbines in een windpark als objectieve criteria rekening gehouden dient te worden met de gemodelleerde contouren voor verwachte slagschaduw en geluid. Indien een individuele vergunde windturbine op basis van de contouren interfereert met het project (4 uur verwachte slagschaduw contour van het project met de 0 uur slagschaduw contour van een individuele vergunde turbine in de omgeving), moet deze windturbine meegeteld worden voor de toetsing aan de aantalgrens. De verder gelegen turbines die niet interfereren zullen in voorliggende referentiesituatie ook niet

Naast de slagschaduwkaarten (met isocontouren van 4, 8, 16, … uur verwachte slagschaduw per jaar) zijn ook gedetailleerde slagschaduwkalenders opgemaakt ter hoogte van representatieve relevante schaduwgevoelige objecten (of receptoren).

In voorliggende lokalisatienota wordt een selectie van 18 relevante receptoren beschouwd, voor dewelke hogervermelde vier situaties zullen worden doorgerekend en aldus slagschaduwkalenders zullen worden bepaald. Deze receptoren werden geïdentificeerd op basis van luchtfoto's en berekende slagschaduwcontouren (isocontouren van 0 en 4 uren verwachte slagschaduw van de geplande turbine en isocontour van 4 uren verwachte slagschaduw in 'geplande situatie 1 (A en B)'). Deze selectie receptoren geeft reeds een goed beeld van de slagschaduwimpact van de geplande windturbine en van de geplande situaties 1 (A en B) en 2 (A en B). Toch blijft dit slechts een selectie van receptoren aangezien niet alle receptoren binnen de contour van 4 uur verwachte slagschaduw (in de geplande situaties 1 en 2 (A en B) zijn opgenomen. De representatieve receptoren worden weergegeven in Tabel 4-1 Tevens wordt per receptor aangeduid of het gaat over een woning, of over een ander type van gebouw (vb. kantoor, bedrijfsgebouw, magazijn, …). Een kaart met de beschouwde representatieve receptoren is te vinden in Figuur 5-1.

Er is bewust voor geopteerd om het aantal receptoren ten zuiden van de geplande windturbine te beperken. Gezien de zon nooit in het noorden staat, kan een windturbine immers nooit slagschaduw veroorzaken op receptoren met een voldoende zuidelijke oriëntatie ten opzichte van de turbine.

Verder onderzoek moet aanwijzen welke milderende maatregelen er, zo nodig, kunnen genomen worden om te voldoen aan de VLAREM-normen. Voorbeelden van milderende maatregelen zijn:

- Toepassen van een slagschaduwdetectiesysteem met automatische stilstandsmodus;
- Stilstand bij bepaalde omstandigheden;
- Tijdelijke afscherming door zonnewering of dergelijke;
- Permanente afscherming door beplanting, groenscherm,…

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

Receptor ID	Lambert 72 coördinaten		Omschijving	Functie
	X (m)	Y (m)		
1	106439	205375	Hoogstraat 54, 9940 Evergem	Woning
2	106832	205016	Pachtgoederen 2, 9940 Evergem	Bedrijf
3	107261	205250	Pachtgoederen 2, 9940 Evergem	Bedrijf
4	107778	205604	James Cookstraat 10, 9042 Gent	Bedrijf
5	107756	206679	Pelikaanstraat 60, 9940 Evergem	Woning
6	108546	206175	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf
7	108814	206524	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf
8	108899	206258	Christoffel Columbuslaan 17, 9042 Gent	Bedrijf
9	108436	205375	Willem van Rubroeckstraat 2, 9042 Gent	Bedrijf
10	108776	205017	Willem van Rubroeckstraat 26, 9042 Gent	Bedrijf
11	109306	204824	Arbedkaai 3, 9042 Gent	Bedrijf
12	108680	204307	Terdonkkaai 8, 9042 Gent	Bedrijf
13	107941	203993	Doornzele Dries 107, 9940 Evergem	Woning
14	107467	204038	Abdijdreef 2, 9940 Evergem	Woning
15	105526	203893	Hageland 14, 9940 Evergem	Woning
16	105831	204531	Molendreef 5, 9940 Evergem	Woning
17	106436	204558	Amerigo Vespuccistraat 2A, 9940 Evergem	Bedrijf
18	106749	204616	Pachtgoederen 1, 9940 Evergem	Bedrijf

meegenomen worden gezien ze geen (of in elk geval een niet relevante) slagschaduwbijdrage zullen veroorzaken. Voor het bepalen van de relevantie werd immers gebruik gemaakt van de volledige, onbegrensde isocontouren, die dus mogelijks ook tot buiten het studiegebied reiken.

4.3 Beschrijving van de referentiesituatie

Er worden twee referentiesituaties beschouwd: Referentiesituatie A en Referentiesituatie B. In referentiesituatie A wordt KLZ-WT19 als gebouwd en KLZ-WT11 als afgebroken beschouwd. In referentiesituatie B wordt KLZ-WT19 als niet gebouwd en KLZ-WT11 als te behouden beschouwd. Hieronder wordt referentiesituatie A volledig uitgewerkt. Bij referentiesituatie B worden alleen de verschillen ten opzichte van referentiesituatie A vermeld.

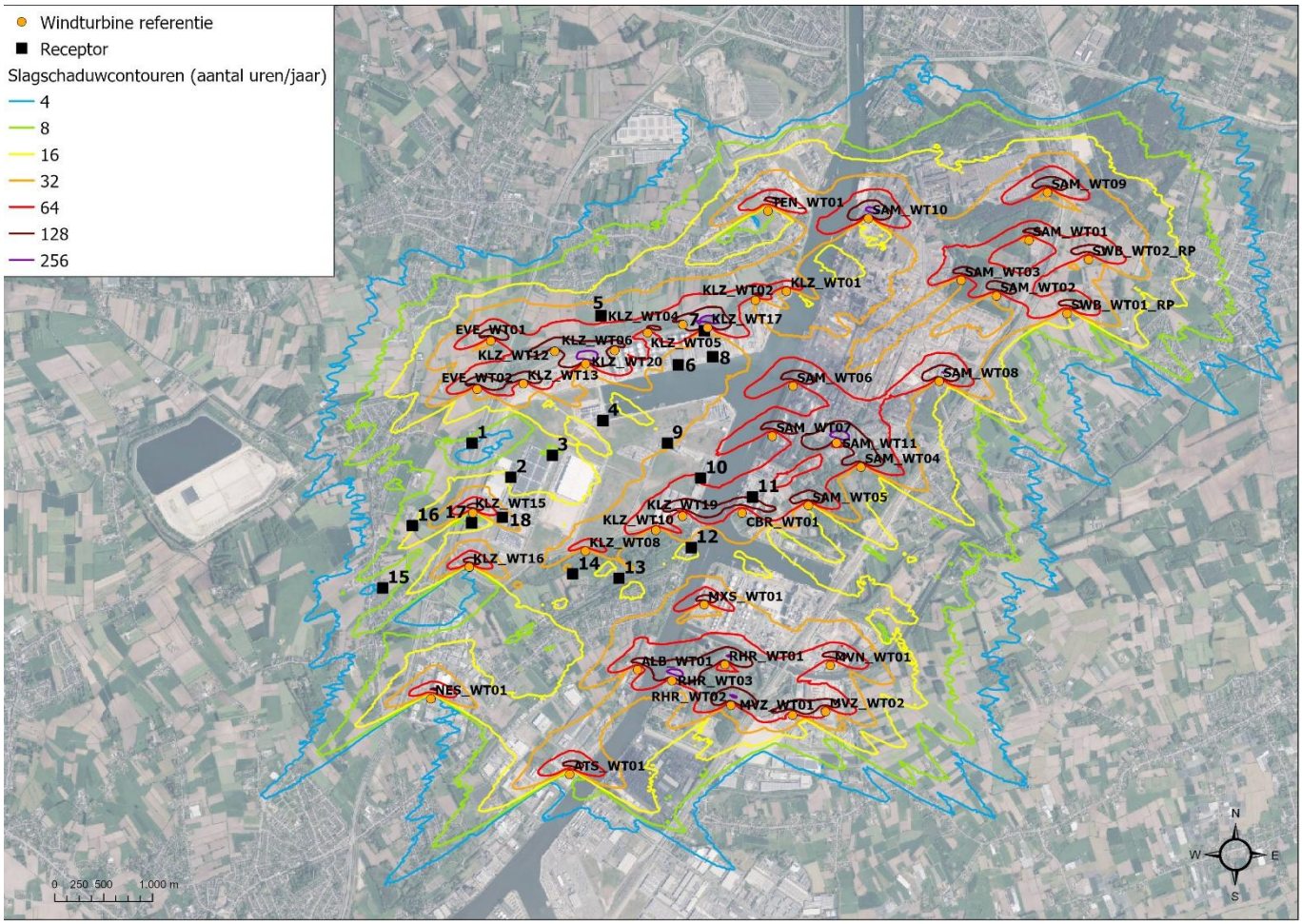
4.3.1 Referentiesituatie A

In het kader van voorliggende lokalisatienota wordt de beschrijving van de **referentiesituatie A** uitgevoerd op basis van een slagschaduwmodellering van de relevante operationele en vergunde windturbines in het studiegebied. De gegevens van deze bestaande en vergunde windturbines in de nabije omgeving werden ons aangeleverd door de opdrachtgever. Enkel de windturbines waarvan de individuele isocontour van 0 uur verwachte slagschaduw overlapt met de isocontour van 4 uur verwachte slagschaduw voor het project (de geplande windturbine) worden beschouwd als relevant en worden derhalve meegenomen in de berekening. Het betreffen 41 bestaande windturbines. De gegevens van deze 41 windturbines zijn weergegeven in Tabel 1-1.

Figuur 4-4 geeft de isocontouren weer voor de verwachte slagschaduw in de referentiesituatie A (dus afkomstig van de 41 bestaande en vergunde windturbines). Deze isocontouren van de verwachte maximale slagschaduw per jaar van de bestaande en vergunde windturbines werden berekend met behulp van het rekenmodel WINDPRO.

De isocontourenkaart voor de verwachte slagschaduw wordt opgemaakt via een berekening op een raster. In WindPRO is gekozen voor de resolutie ‘Normal’[4]. Het model berekent de verwachte slagschaduw naar de onmiddellijke omgeving, waarbij met diverse invloeden rekening wordt gehouden (zie §4.1.2):

[4] Er zijn 3 instellingen mogelijk in WindPRO: ‘coarse’ (grof), ‘normal’ en ‘fine’ (gedetailleerd). Bij de opmaak van het model werd er gerekend met de standaardinstelling ‘’normal”.



Figuur 4-4: Isocontouren voor de verwachte slagschaduw (uren per jaar) in de referentiesituatie A (41 bestaande en vergunde windturbines)

Ter hoogte van de receptoren wordt de verwachte slagschaduw beperkt door de meteorologische maandnormalen voor zonneschijn, windsnelheid en windrichting in rekening te brengen (zie §4.1.2).

Toetsing aan de VLAREM-normen

Ter hoogte van enkele relevante slagschaduwgevoelige objecten (woningen, andere gebouwen) wordt de verwachte maximale slagschaduw per jaar (uur) en de verwachte maximale slagschaduw per dag (minuten) berekend.

De resultaten van de slagschaduw-berekeningen in WindPRO zijn opgenomen in Tabel 4-2, en wordt tevens getoetst aan de vigerende VLAREM-normen.

Wanneer de referentiesituatie A (dus enkel de 41 relevante bestaande of vergunde windturbines) wordt beschouwd, dan kan geconcludeerd worden dat een deel van de receptoren zich **buiten de isocontour van 8u** (voor woningen) **of 30u** (voor gebouwen in industriegebied, uitgezonderd woningen) verwachte slagschaduw bevinden. De jaarlimiet van 8u (woningen) of 30u (industriegebied) wordt hier dus naar verwachting gerespecteerd. Het betreft volgende receptoren:

- Receptor 1, een woning in de Hoogstraat, gelegen ten westen van de R4-West;
- Receptoren 2, 3, 4, 9 en 17, bedrijfsgebouwen op het industrieterrein rond het Kluizendok, ten zuidwesten van het dok;
- Receptoren 6 en 8, beide bedrijfsgebouwen op het industrieterrein rond het Kluizendok, ten noorden van het dok;
- Receptor 15, een woning in Hageland, gelegen ten westen van de R4-West;
- Receptor 12, een bedrijfsgebouw op het industrieterrein rond het Kluizendok, ten zuiden van het dok en langs het kanaal Gent-Terneuzen.

Ter hoogte van de receptoren 2, 3, 4, 6, 8, 9, 12, 15 en 17 (allen bedrijfsgebouwen), wordt de daglimiet van 30 minuten effectieve slagschaduwhinder niet gerespecteerd. Ter hoogte van receptoren 1 en 15 wordt er wel voldaan aan de daglimiet.

Daarnaast zijn er ook een deel van de receptoren die zich binnen **binnen de isocontour van 8u** (woningen) **of 30u** (gebouwen in industriegebied, uitz. woningen) verwachte slagschaduwhinder bevinden. Ter hoogte van deze receptoren kan de jaarlimiet (van 8u of 30u effectieve slagschaduw) overschreden worden. Het betreft volgende receptoren:

- Receptor 7, een bedrijfsgebouw op het industrieterrein rond het Kluizendok, ten noorden van het Kluizendok;
- Receptoren 10 en 11, bedrijfsgebouwen langs het kanaal Gent-Terneuzen;
- Receptor 18, een bedrijfsgebouw op het industrieterrein rond het Kluizendok, ten zuidwesten van het Kluizendok;
- Receptor 16, een woning ten westen gelegen van de R4-West, ten oosten van de woonkern Kluizen;
- Receptoren 13 en 14, beide woningen gelegen ten zuiden van het Kluizendok, in het noorden van de woonkern Doornzele;
- Receptor 5, een woning gelegen ten noorden van het Kluizendok en in het zuiden van de woonkern Rieme.

Ter hoogte van alle hierboven opgesomde receptoren (met overschrijding van de jaarlimiet) wordt bovendien verwacht dat ook de daglimiet van 30 minuten effectieve slagschaduwhinder per dag zal worden overschreden.

Slagschaduw ten gevolge van de bestaande en vergunde turbines komt uiteraard voornamelijk voor ter hoogte van de receptoren die het dichtst bij deze bestaande of vergunde turbines zijn gelegen.

Door toepassing van een slagschaduwdetectiesysteem met automatische stilstandmodule kan de toepasselijke VLAREM II-norm ter hoogte van alle receptoren toch gerespecteerd worden. Gezien ook de bestaande en vergunde windturbines dienen te voldoen aan de VLAREM-regelgeving, zullen deze turbines immers met een dergelijk systeem uitgerust zijn. Hierdoor zal de hinder ter hoogte van de beschouwde receptoren in de referentiesituatie beperkt blijven tot een aanvaardbaar niveau.

Tabel 4-2: Berekende slagschaduwduur (dagelijks maximum en verwacht jaartotaal) voor de referentiesituatie A (41 bestaande/vergunde turbines), met het WindPRO model. Verwachte jaarlijkse slagschaduw is uitgedrukt in uren als decimaal getal (dus vb: 6u30' wordt weergegeven als 6,5u)

ID	Lambert 72 coördinaten		Omschijving	Functie	Maximum slagschaduw (uren per dag)		Verwachte slagschaduw (uren per jaar)	
	X (m)	Y (m)			Referentie A	Effect na maatregelen	Referentie A	Effect na maatregelen
1	106439	205375	Hoogstraat 54, 9940 Evergem	Woning	0:18	0:18	4,85	4,85
2	106832	205016	Pachtgoederen 2, 9940 Evergem	Bedrijf	0:54	0:30	15,77	15,77
3	107261	205250	Pachtgoederen 2, 9940 Evergem	Bedrijf	0:40	0:30	8,93	8,93
4	107778	205604	James Cookstraat 10, 9042 Gent	Bedrijf	0:34	0:30	21,07	21,07
5	107756	206679	Pelikaanstraat 60, 9940 Evergem	Woning	2:30	0:30	54,73	8,00
6	108546	206175	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	0:57	0:30	23,18	23,18
7	108814	206524	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	1:37	0:30	41,85	30,00
8	108899	206258	Christoffel Columbuslaan 17, 9042 Gent	Bedrijf	0:52	0:30	23,67	23,67
9	108436	205375	Willem van Rubroeckstraat 2, 9042 Gent	Bedrijf	0:51	0:30	29,08	29,08
10	108776	205017	Willem van Rubroeckstraat 26, 9042 Gent	Bedrijf	2:25	0:30	68,87	30,00
11	109306	204824	Arbedkaai 3, 9042 Gent	Bedrijf	3:57	0:30	123,72	30,00
12	108680	204307	Terdonkkaai 8, 9042 Gent	Bedrijf	0:43	0:30	17,10	17,10
13	107941	203993	Doornzele Dries 107, 9940 Evergem	Woning	0:42	0:30	21,70	8,00
14	107467	204038	Abdijdreef 2, 9940 Evergem	Woning	1:04	0:30	30,73	8,00
15	105526	203893	Hageland 14, 9940 Evergem	Woning	0:28	0:28	5,67	5,67
16	105831	204531	Molendreef 5, 9940 Evergem	Woning	0:42	0:30	15,27	8,00
17	106436	204558	Amerigo Vespuccistraat 2A, 9940 Evergem	Bedrijf	0:50	0:30	9,18	9,18
18	106749	204616	Pachtgoederen 1, 9940 Evergem	Bedrijf	1:28	0:30	55,80	30,00

4.3.2 Referentiesituatie B

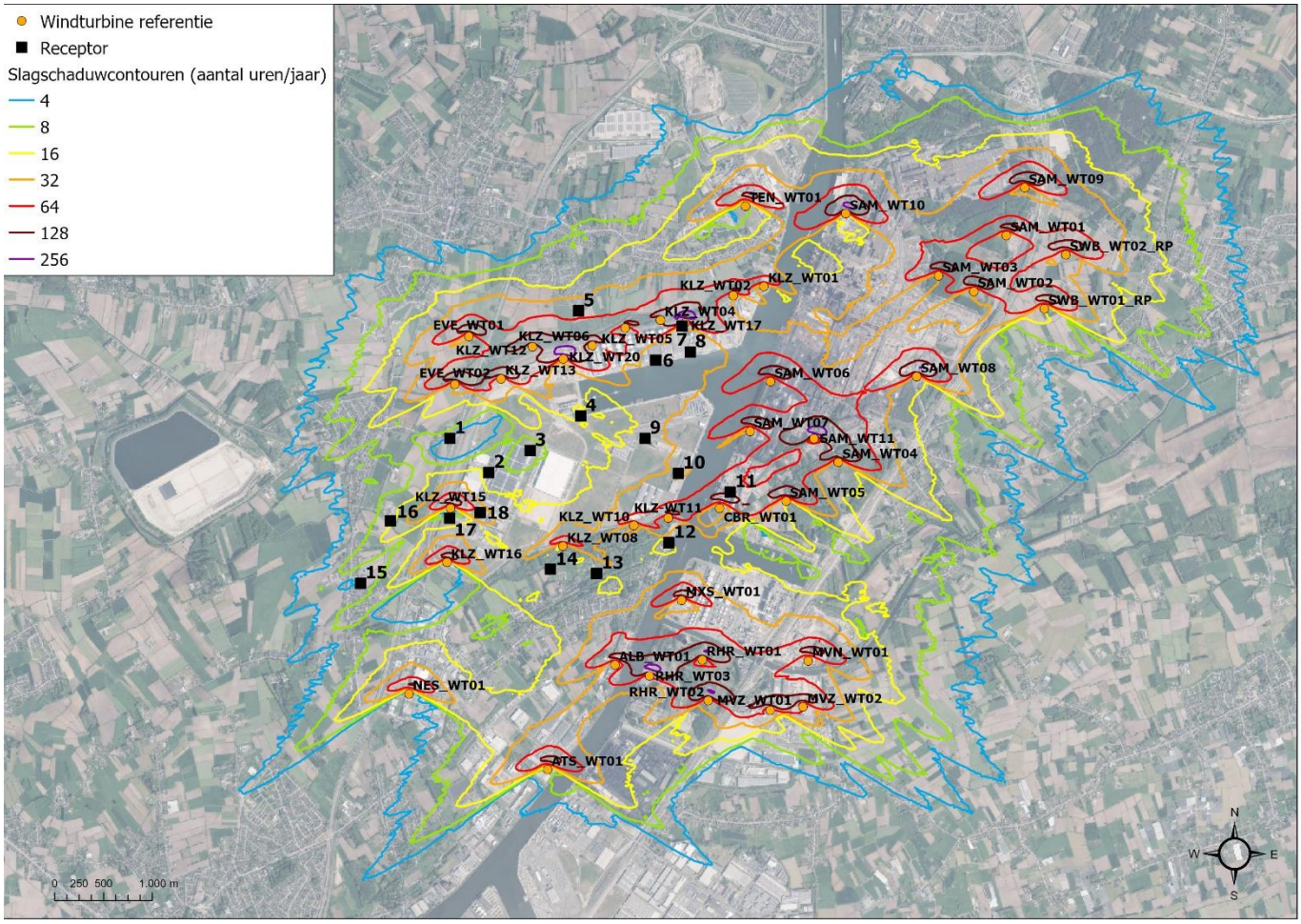
Referentiesituatie B is de situatie waarbij KLZ-WT11 wordt behouden en KLZ-WT19 niet wordt gebouwd. In de 'referentiesituatie B' bevinden zich dezelfde receptoren als in de 'referentiesituatie A' binnen de isocontour van 8u (woningen) of 30u (gebouwen in industriegebied, uitz. woningen) verwachte slagschaduwhinder per jaar.

Ten op zichte van referentiesituatie A kunnen de volgende verschillen opgemerkt worden:

- Voor de receptoren 1, 2, 3, 4, 9, 10, 11, 14, 16, 17 en 18 wordt verwacht dat zij minder slagschaduw per jaar zullen ondervinden. Dit betekent dat de hinder voor deze locaties afneemt ten opzichte van referentiesituatie A. Het gaat om bedrijfsgebouwen langs het kanaal Gent-Terneuzen en bedrijfsgebouwen ten zuidwesten van het Kluizendok. Alsook woningen ten westen van de R4 gelegen.
- Daarentegen zullen receptoren 5, 6, 7, 8 en 13 meer slagschaduw per jaar ervaren, wat impliceert dat de hinder op deze plekken toeneemt. Het gaat om bedrijfsgebouwen ten noorden van het Kluizendok en woningen ten noorden van de N474.
- Voor de receptoren 12 en 15 verandert er niets ten opzichte van referentiesituatie A. De slagschaduwhinder blijft hier dus onveranderd. Het gaat om woningen en bedrijfsgebouwen die wat verder gelegen zijn dan de andere receptoren.

De daglimiet blijft voor veel receptoren dezelfde. Enkel voor receptoren 9 -10 – 11 – 14 zijn de maximale uren slagschaduw per dag gedaald. Dit komt omdat KLZ-WT19 (referentiesituatie A) een grotere tiphoogte en rotordiameter heeft dan KLZ-WT11 (referentiesituatie B).

Figuur 4-5 geeft de isocontouren weer voor de verwachte slagschaduw in de referentiesituatie B (dus afkomstig van de 41 bestaande en vergunde windturbines).



Figuur 4-5: Isocontouren voor de verwachte slagschaduw (uren per jaar) in de referentiesituatie B (41 bestaande en vergunde windturbines)

Tabel 4-3: Berekende slagschaduwduur (dagelijks maximum en verwacht jaartotaal) voor de referentiesituatie B (41 bestaande/vergunde turbines), met het WindPRO model. Verwachte jaarlijkse slagschaduw is uitgedrukt in uren als decimaal getal (dus vb: 6u30' wordt weergegeven als 6,5u)

ID	Lambert 72 coördinaten		Omschijving	Functie	Maximum slagschaduw (uren per dag)		Verwachte slagschaduw (uren per jaar)	
	X (m)	Y (m)			Referentie B	Effect na maatregelen	Referentie B	Effect na maatregelen
1	106439	205375	Hoogstraat 54, 9940 Evergem	Woning	0:15	0:15	4,07	4,07
2	106832	205016	Pachtgoederen 2, 9940 Evergem	Bedrijf	0:54	0:30	14,33	14,33
3	107261	205250	Pachtgoederen 2, 9940 Evergem	Bedrijf	0:40	0:30	6,82	6,82
4	107778	205604	James Cookstraat 10, 9042 Gent	Bedrijf	0:34	0:30	16,52	16,52
5	107756	206679	Pelikaanstraat 60, 9940 Evergem	Woning	2:30	0:30	54,77	8,00
6	108546	206175	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	0:57	0:30	23,20	23,20
7	108814	206524	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	1:37	0:30	41,87	30,00
8	108899	206258	Christoffel Columbuslaan 17, 9042 Gent	Bedrijf	0:52	0:30	23,68	23,68
9	108436	205375	Willem van Rubroeckstraat 2, 9042 Gent	Bedrijf	0:39	0:30	23,28	23,28
10	108776	205017	Willem van Rubroeckstraat 26, 9042 Gent	Bedrijf	1:15	0:30	35,45	30,00
11	109306	204824	Arbedkaai 3, 9042 Gent	Bedrijf	3:15	0:30	114,92	30,00
12	108680	204307	Terdonkkaai 8, 9042 Gent	Bedrijf	0:43	0:30	17,10	17,10
13	107941	203993	Doornzele Dries 107, 9940 Evergem	Woning	0:42	0:30	21,72	8,00
14	107467	204038	Abdijdreef 2, 9940 Evergem	Woning	0:46	0:30	26,65	8,00
15	105526	203893	Hageland 14, 9940 Evergem	Woning	0:28	0:28	5,67	5,67
16	105831	204531	Molendreef 5, 9940 Evergem	Woning	0:42	0:30	14,87	8,00
17	106436	204558	Amerigo Vespuccistraat 2A, 9940 Evergem	Bedrijf	0:50	0:30	8,38	8,38
18	106749	204616	Pachtgoederen 1, 9940 Evergem	Bedrijf	1:28	0:30	54,72	30,00

5 Resultaten

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

- De wisselfrequentie (ook wel de flikkerfrequentie genoemd). Uit onderzoek is gebleken dat de hinder het grootst is bij flikkeringen met een frequentie van 2,5 tot 14 keer per seconde (bron: www.gezondheid.be). Er kunnen verschijnselen als zeeziekte optreden en bij mensen die hiervoor gevoelig zijn, kan een epileptische aanval optreden. Deze frequentie wordt bij moderne windturbines niet gehaald, waardoor deze component niet van belang is bij het mogelijke hindereffect en waardoor ook voornoemde negatieve gezondheidseffecten niet worden verwacht. Het volle vermogen van een windturbine zoals voorzien in het project, dus met een rotordiameter van circa 175 meter, wordt gehaald bij een snelheid van ongeveer 10 omwentelingen per minuut. Dit betekent voor een windturbine met drie bladen een flikkerfrequentie van 30 per minuut of 0,5 keer per seconde. Dit is een worst-case benadering.
- De duur van de slagschaduw;
- De afstand van de windturbines tot de gevoelige objecten, bij grotere afstanden is er minder hinder, doordat de wiek dan niet de hele zonneschijf kan verbergen;
- De optredende hinder is ook afhankelijk van het tijdstip en de stand van de zon. Zo treedt bij woningen de hinder voornamelijk ‘s morgens en ’s avonds op. De zon staat dan laag aan de hemel.

De verwachte slagschaduwduur ten gevolge van de windturbine wordt in deze lokalisatienota bepaald met behulp van het slagschaduwmodel WindPRO. Dit gebeurt op analoge manier als in de referentiesituaties A en B. Ook de modelaannames zijn bijgevolg identiek aan wat reeds werd beschreven in §4.

Naast de locatie van de windturbine is ook het type windturbine (en meer bepaald de afmetingen ervan) van belang voor de berekeningen. Het precieze type dat door de initiatiefnemer zal worden gekozen voor de windturbine van het project is nog niet gekend. Daarom wordt als een worst-case benadering gerekend met de maximale dimensies van de mogelijke windturbines: de hoogst mogelijke tiphoogte (250 m) en de grootst mogelijke rotordiameter (175 m). De masthoogte wordt berekend uit de maximale tiphoogte en de maximale rotordiameter, teneinde steeds het worst-case scenario voor slagschaduw te behouden. Aldus wordt een masthoogte van 162,5 m bekomen. In realiteit kan de masthoogte van de geplande windturbine bijgevolg afwijken (hoger of lager) van de hier gehanteerde waarde, zonder dat hierbij echter de effecten op vlak van slagschaduw groter zijn dan deze die met de opgegeven waarden worden berekend.

De locatie alsook de in functie van de slagschaduwberekeningen gebruikte technische kenmerken van de geplande windturbine (om tot een worst-case benadering op vlak van slagschaduw te komen) en de bestaande/vergunde windturbines worden weergegeven in Tabel 2-3 van de lokalisatienota.

In het slagschaduwmodel worden volgende vijf situaties berekend:

- Het project: 1 windturbine: KLZ-WT21;
- Geplande situatie 1A: Cumulatief effect van het project en de referentiesituatie A (in totaal 42 windturbines);
- Geplande situatie 2B: Cumulatief effect van het project en de referentiesituatie B (in totaal 42 windturbines).
- Geplande situatie 2A: Cumulatief effect van het project, de referentiesituatie A en de windturbines in ontwikkeling (in totaal 44 windturbines);
- Geplande situatie 2B: Cumulatief effect van het project, de referentiesituatie B en de windturbines in ontwikkeling (in totaal 44 windturbines);

Hierbij geldt voor de referentiesituatie hetgeen eerder (zie paragraaf 4.3) werd beschreven, namelijk:

- De referentiesituatie A: 41 relevante bestaande en vergunde windturbines. In deze situatie wordt KLZ-WT19 als gebouwd en KLZ-WT11 als afgebroken beschouwd
- De referentiesituatie B: 41 relevante bestaande en vergunde windturbines. In deze situatie wordt KLZ-WT19 als niet gebouwd en KLZ-WT11 als te behouden beschouwd.

In Tabel 5-1 t.e.m Tabel 5-4 worden voor de representatieve receptoren de maximale slagschaduwduur per dag en de verwachte slagschaduw per jaar weergegeven voor de beschouwde situaties (project, ‘geplande situatie 1 (A en B)’ en ‘geplande situatie 2 (A en B’). Ter informatie wordt ook de maximale slagschaduwduur per dag en de verwachte slagschaduw per jaar getoond voor de referentiesituaties A en B (zie ook §4.3).

Zoals hierboven vermeld, is de slagschaduwnorm voor woningen (zowel binnen als buiten industriezone) maximum acht uur effectieve slagschaduw per jaar, met een maximum van dertig minuten effectieve slagschaduw per dag. Voor slagschaduwgevoelige objecten (met uitzondering van woningen) in industriezone geldt als slagschaduwnorm maximaal dertig uur per jaar en maximaal dertig minuten effectieve slagschaduw per dag.

Een toetsing aan bovenstaande normen werd uitgevoerd, met aanduiding van kleurencodes. Een rode kleur betekent dat de norm wordt overschreden en dus milderende maatregelen vereist zijn (hier: toepassing van een stiltandmodule); groen betekent dat de norm wordt gerespecteerd en dus geen milderende maatregelen nodig zijn.

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

ID	Lambert 72 coördinaten		Omschijving	Functie	Maximum slagschaduw (uren per dag)				
	X (m)	Y (m)			Project	Referentie A	Geplande situatie 1A	Geplande situatie 2A	Cumultatief effect na maatregelen
1	106439	205375	Hoogstraat 54, 9940 Evergem	Woning	0:25	0:18	0:30	0:50	0:30
2	106832	205016	Pachtgoederen 2, 9940 Evergem	Bedrijf	0:33	0:54	0:54	1:56	0:30
3	107261	205250	Pachtgoederen 2, 9940 Evergem	Bedrijf	0:49	0:40	1:01	1:19	0:30
4	107778	205604	James Cookstraat 10, 9042 Gent	Bedrijf	1:33	0:34	1:41	1:41	0:30
5	107756	206679	Pelikaanstraat 60, 9940 Evergem	Woning	0:00	2:30	2:30	2:56	0:30
6	108546	206175	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	0:47	0:57	1:05	2:07	0:30
7	108814	206524	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	0:21	1:37	1:37	1:37	0:30
8	108899	206258	Christoffel Columbuslaan 17, 9042 Gent	Bedrijf	0:37	0:52	1:14	2:26	0:30
9	108436	205375	Willem van Rubroeckstraat 2, 9042 Gent	Bedrijf	1:51	0:51	2:21	2:21	0:30
10	108776	205017	Willem van Rubroeckstraat 26, 9042 Gent	Bedrijf	0:56	2:25	2:25	2:31	0:30
11	109306	204824	Arbedkaai 3, 9042 Gent	Bedrijf	0:33	3:57	3:57	3:57	0:30
12	108680	204307	Terdonkkaai 8, 9042 Gent	Bedrijf	0:00	0:43	0:43	0:43	0:30
13	107941	203993	Doornzele Dries 107, 9940 Evergem	Woning	0:00	0:42	0:42	1:16	0:30
14	107467	204038	Abdijdreef 2, 9940 Evergem	Woning	0:00	1:04	1:04	1:04	0:30
15	105526	203893	Hageland 14, 9940 Evergem	Woning	0:13	0:28	0:28	0:37	0:30
16	105831	204531	Molendreef 5, 9940 Evergem	Woning	0:18	0:42	0:57	0:57	0:30
17	106436	204558	Amerigo Vespuccistraat 2A, 9940 Evergem	Bedrijf	0:24	0:50	0:50	1:15	0:30
18	106749	204616	Pachtgoederen 1, 9940 Evergem	Bedrijf	0:29	1:28	1:44	1:55	0:30

Tabel 5-2: Berekende slagschaduwduur (verwacht jaartotaal in uren) voor het project, referentiesituatie A en geplande situatie 1A en 2A met het WindPRO model. Verwachte jaarlijkse slagschaduw is uitgedrukt in uren als decimaal getal (dus bvb: 6u30' wordt weergegeven als 6.50).

ID	Lambert 72 coördinaten		Omschijving	Functie	Verwachte slagschaduw (uren per jaar)				
	X (m)	Y (m)			Project	Referentie A	Geplande situatie 1A	Geplande situatie 2A	Cumultatief effect na maatregelen
1	106439	205375	Hoogstraat 54, 9940 Evergem	Woning	2,60	4,85	7,30	14,68	8,00
2	106832	205016	Pachtgoederen 2, 9940 Evergem	Bedrijf	6,55	15,77	22,23	39,07	30,00
3	107261	205250	Pachtgoederen 2, 9940 Evergem	Bedrijf	13,78	8,93	22,43	33,23	30,00
4	107778	205604	James Cookstraat 10, 9042 Gent	Bedrijf	28,40	21,07	49,07	59,70	30,00
5	107756	206679	Pelikaanstraat 60, 9940 Evergem	Woning	0,00	54,73	54,75	58,22	8,00
6	108546	206175	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	7,62	23,18	30,72	50,47	30,00
7	108814	206524	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	1,37	41,85	43,22	47,72	30,00
8	108899	206258	Christoffel Columbuslaan 17, 9042 Gent	Bedrijf	7,55	23,67	31,08	49,40	30,00
9	108436	205375	Willem van Rubroeckstraat 2, 9042 Gent	Bedrijf	76,62	29,08	104,63	107,57	30,00
10	108776	205017	Willem van Rubroeckstraat 26, 9042 Gent	Bedrijf	14,10	68,87	82,77	85,00	30,00
11	109306	204824	Arbedkaai 3, 9042 Gent	Bedrijf	9,60	123,72	133,47	134,92	30,00
12	108680	204307	Terdonkkaai 8, 9042 Gent	Bedrijf	0,00	17,10	17,10	20,42	20,42
13	107941	203993	Doornzele Dries 107, 9940 Evergem	Woning	0,00	21,70	21,72	28,78	8,00
14	107467	204038	Abdijdreef 2, 9940 Evergem	Woning	0,00	30,73	30,73	30,77	8,00
15	105526	203893	Hageland 14, 9940 Evergem	Woning	1,52	5,67	7,17	11,43	8,00
16	105831	204531	Molendreef 5, 9940 Evergem	Woning	1,63	15,27	16,87	21,17	8,00
17	106436	204558	Amerigo Vespuccistraat 2A, 9940 Evergem	Bedrijf	5,10	9,18	14,15	27,82	27,82
18	106749	204616	Pachtgoederen 1, 9940 Evergem	Bedrijf	9,38	55,80	65,08	96,23	30,00

Tabel 5-3: Berekende slagschaduwduur (dagelijks maximum in uren) voor het project, de referentiesituatie B, de geplande situatie 1B en 2B met WindPRO model

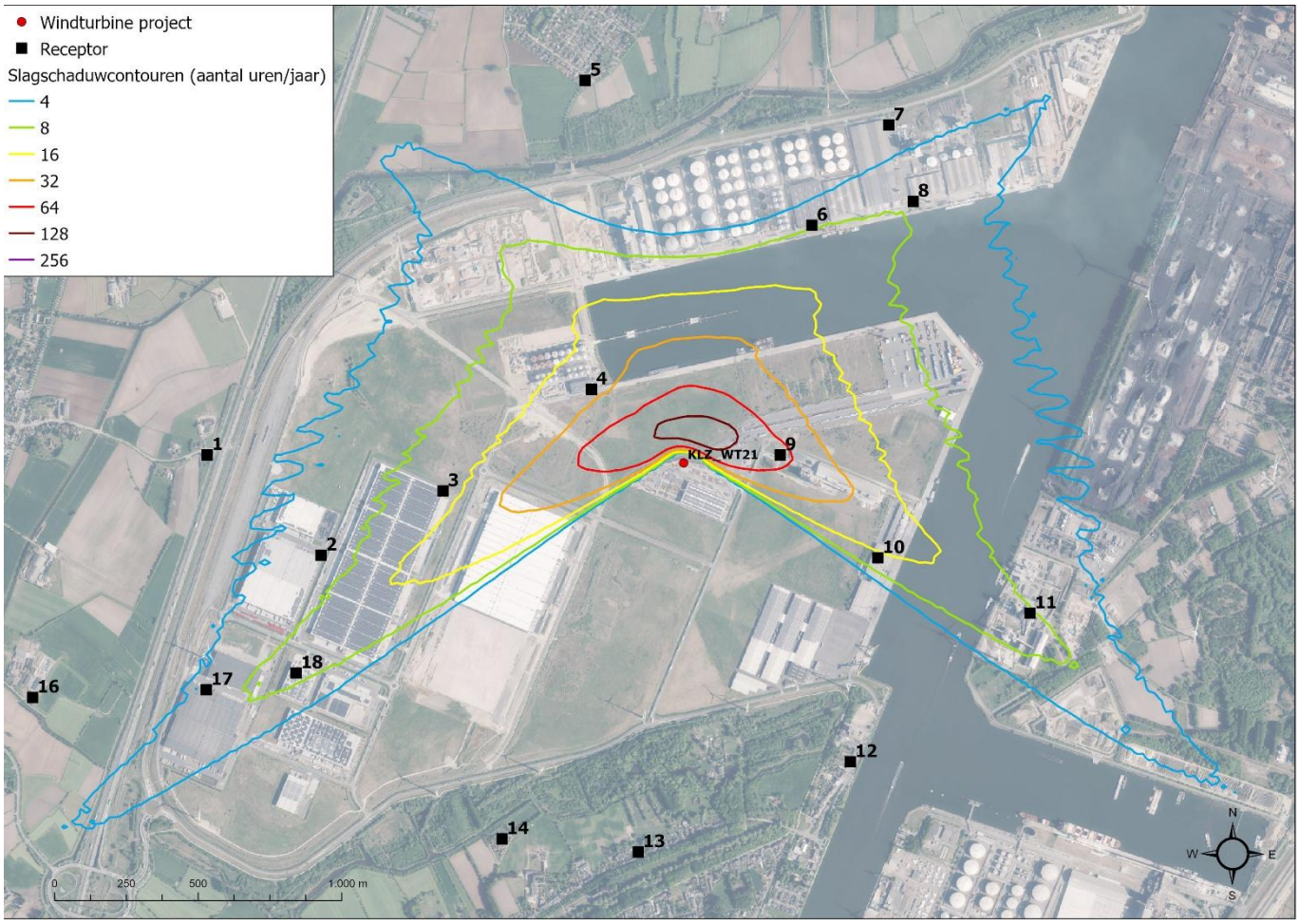
ID	Lambert 72 coördinaten		Omschijving	Functie	Maximum slagschaduw (uren per dag)				
	X (m)	Y (m)			Project	Referentie B	Geplande situatie 1B	Geplande situatie 2B	Cumultatief effect na maatregelen
1	106439	205375	Hoogstraat 54, 9940 Evergem	Woning	0:25	0:15	0:30	0:50	0:30
2	106832	205016	Pachtgoederen 2, 9940 Evergem	Bedrijf	0:33	0:54	0:54	1:56	0:30
3	107261	205250	Pachtgoederen 2, 9940 Evergem	Bedrijf	0:49	0:40	1:01	1:19	0:30
4	107778	205604	James Cookstraat 10, 9042 Gent	Bedrijf	1:33	0:34	1:41	1:41	0:30
5	107756	206679	Pelikaanstraat 60, 9940 Evergem	Woning	0:00	2:30	2:30	2:56	0:30
6	108546	206175	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	0:47	0:57	1:05	2:07	0:30
7	108814	206524	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	0:21	1:37	1:37	1:37	0:30
8	108899	206258	Christoffel Columbuslaan 17, 9042 Gent	Bedrijf	0:37	0:52	1:14	2:26	0:30
9	108436	205375	Willem van Rubroeckstraat 2, 9042 Gent	Bedrijf	1:51	0:39	2:21	2:21	0:30
10	108776	205017	Willem van Rubroeckstraat 26, 9042 Gent	Bedrijf	0:56	1:15	1:31	1:35	0:30
11	109306	204824	Arbedkaai 3, 9042 Gent	Bedrijf	0:33	3:15	3:15	3:15	0:30
12	108680	204307	Terdonkkaai 8, 9042 Gent	Bedrijf	0:00	0:43	0:43	0:43	0:30
13	107941	203993	Doornzele Dries 107, 9940 Evergem	Woning	0:00	0:42	0:42	1:16	0:30
14	107467	204038	Abdijdreef 2, 9940 Evergem	Woning	0:00	0:46	0:46	0:46	0:30
15	105526	203893	Hageland 14, 9940 Evergem	Woning	0:13	0:28	0:28	0:37	0:30
16	105831	204531	Molendreef 5, 9940 Evergem	Woning	0:18	0:42	0:57	0:57	0:30
17	106436	204558	Amerigo Vespuccistraat 2A, 9940 Evergem	Bedrijf	0:24	0:50	0:50	1:08	0:30
18	106749	204616	Pachtgoederen 1, 9940 Evergem	Bedrijf	0:29	1:28	1:44	1:55	0:30

Tabel 5-4: Berekende slagschaduwduur (verwacht jaartotaal in uren) voor het project, de referentiesituatie B, de geplande situatie 1B en 2B met WindPRO model. De verwachte jaarlijkse slagschaduw is uitgedrukt in uren als decimaal getal (dus bvb: 6u30' wordt weergegeven als 6,5u)

ID	Lambert 72 coördinaten		Omschijving	Functie	Verwachte slagschaduw (uren per jaar)				
	X (m)	Y (m)			Project	Referentie B	Geplande situatie 1B	Geplande situatie 2B	Cumultatief effect na maatregelen
1	106439	205375	Hoogstraat 54, 9940 Evergem	Woning	2,60	4,07	6,52	13,90	8,00
2	106832	205016	Pachtgoederen 2, 9940 Evergem	Bedrijf	6,55	14,33	20,80	37,63	30,00
3	107261	205250	Pachtgoederen 2, 9940 Evergem	Bedrijf	13,78	6,82	20,32	31,13	30,00
4	107778	205604	James Cookstraat 10, 9042 Gent	Bedrijf	28,40	16,52	44,52	55,15	30,00
5	107756	206679	Pelikaanstraat 60, 9940 Evergem	Woning	0,00	54,77	54,78	58,23	8,00
6	108546	206175	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	7,62	23,20	30,73	50,50	30,00
7	108814	206524	Christoffel Columbuslaan 23, 9042 Gent	Bedrijf	1,37	41,87	43,25	47,73	30,00
8	108899	206258	Christoffel Columbuslaan 17, 9042 Gent	Bedrijf	7,55	23,68	31,10	49,43	30,00
9	108436	205375	Willem van Rubroeckstraat 2, 9042 Gent	Bedrijf	76,62	23,28	98,87	101,80	30,00
10	108776	205017	Willem van Rubroeckstraat 26, 9042 Gent	Bedrijf	14,10	35,45	49,35	51,57	30,00
11	109306	204824	Arbedkaai 3, 9042 Gent	Bedrijf	9,60	114,92	124,67	126,10	30,00
12	108680	204307	Terdonkkaai 8, 9042 Gent	Bedrijf	0,00	17,10	17,12	20,42	20,42
13	107941	203993	Doornzele Dries 107, 9940 Evergem	Woning	0,00	21,72	21,72	28,80	8,00
14	107467	204038	Abdijdreef 2, 9940 Evergem	Woning	0,00	26,65	26,65	26,67	8,00
15	105526	203893	Hageland 14, 9940 Evergem	Woning	1,52	5,67	7,17	11,43	8,00
16	105831	204531	Molendreef 5, 9940 Evergem	Woning	1,63	14,87	16,47	20,77	8,00
17	106436	204558	Amerigo Vespuccistraat 2A, 9940 Evergem	Bedrijf	5,10	8,38	13,35	27,00	27,00
18	106749	204616	Pachtgoederen 1, 9940 Evergem	Bedrijf	9,38	54,72	64,00	95,12	30,00

5.1 Het project

Figuur 5-1 geeft de isocontouren weer voor de verwachte slagschaduw afkomstig van enkel het project (de geplande turbine). De geselecteerde receptoren bevinden zich rondom de geplande turbine. Ze bevinden zich deels binnen en deels buiten de isocontour van 4 uur verwachte slagschaduw per jaar.



Figuur 5-1: Isocontouren voor de verwachte slagschaduw (uren per jaar) enkel afkomstig van het project (1 geplande turbine)

Volgende receptoren bevinden zich **<u>buiten de isocontour van 4u</u>** verwachte slagschaduw per jaar:

- Receptor 1, een woning in de Hoogstraat, gelegen ten westen van de R4-West;
- Receptor 7, een bedrijfsgebouw op het industrieterrein rond het Kluizendok, ten noorden van het dok;
- Receptor 16, een woning ten westen gelegen van de R4-West, ten oosten van de woonkern Kluizen;
- Receptor 15, een woning in Hageland, gelegen ten westen van de R4-West;
- Receptoren 13 en 14, beide woningen gelegen ten zuiden van het Kluizendok, in het noorden van de woonkern Doornzele;
- Receptor 5, een woning gelegen ten noorden van het Kluizendok en in (het meer zuidelijke deel van) de woonkern Rieme.
- Receptor 12, een bedrijfsgebouw op het industrieterrein rond het Kluizendok, ten zuiden van het dok en langs het kanaal Gent-Terneuzen.

Deze receptoren voldoen hierdoor aan de jaarlimiet. Ze voldoen bovendien ook aan de daglimiet van maximaal 30 minuten slagschaduw per dag.

De volgende receptoren liggen allemaal **<u>binnen de isocontour van 4u en buiten de isocontour van 8u</u>** (voor woningen) **<u>of 30u</u>** slagschaduw per jaar (voor gebouwen in industriegebied, uitgezonderd woningen):

- Receptoren 10 en 11, bedrijfsgebouwen langs het kanaal Gent-Terneuzen;

- Receptoren 2, 3, 17 en 18, bedrijfsgebouwen op het industrieterrein rond het Kluizendok, ten zuidwesten van het dok;
- Receptoren 6 en 8, bedrijfsgebouwen op het industrieterrein rond het Kluizendok, ten noorden van het dok;
- Receptor 4, bedrijfsgebouw ten westen van het Kluizendok.

Ter hoogte van deze receptoren (buiten receptoren 17 en 18) wordt echter niet voldaan aan de daglimiet van maximaal 30 minuten slagschaduw per dag. Hier kan dus effectief slagschaduw optreden gedurende meer dan 30 minuten per dag.

Receptor 9 ligt **binnen de isocontour van 30u** (voor gebouwen in industriegebied, uitgezonderd woningen). Voor deze receptor (een bedrijfsgebouw) kan de jaarlimiet van 30u (gebouwen in industriegebied, uitz. woningen) effectieve slagschaduw per jaar worden overschreden.

Deze receptor situeert zich in de onmiddellijke omgeving van de geplande windturbine, op het industrieterrein rond het Kluizendok, ten oosten van de site.

Door toepassing van een slagschaduwdetectiesysteem met automatische stilstandmodule (als milderende maatregel) kan de toepasselijke VLAREM II norm echter overal gerespecteerd worden. Hierdoor zal de hinder tijdens de exploitatie ter hoogte van de vermelde receptoren voldoende beperkt worden.

Nemen we de windturbine als uitgangspunt (in plaats van de receptoren), dan laat Tabel 5-5 zien dat gedurende ongeveer 0,33% van de operationele uren slagschaduw te verwachten is, althans op basis van een beperkte selectie van slechts 18 receptoren, weliswaar volgens de eerder conservatieve rekenmethode als voorgeschreven in de vergunningsfase (met greenhouse objecten).

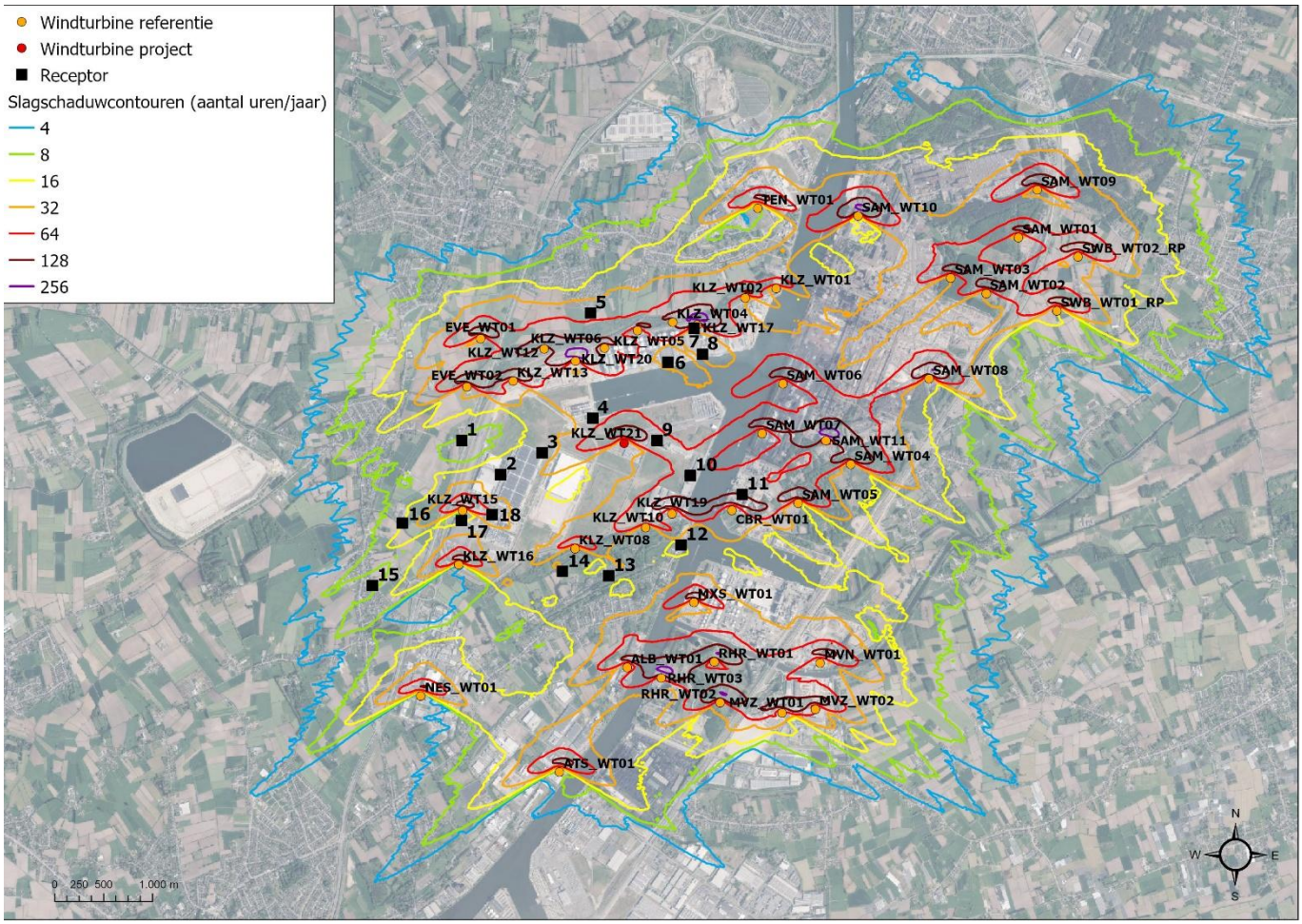
Tabel 5-5: Totaal verwachte slagschaduwduur van de geplande turbine ten opzichte van de operationele tijd

Windturbine	Maximale slagschaduwduur (h/jaar)	Verwachte slagschaduwduur (h/jaar)	Operationele tijd (h)	Maximale slagschaduwduur (%)	Verwachte slagschaduwduur (%)
KLZ-WT21	28,81	7,23	8662	0,33%	0,08%

5.2 Geplande situatie 1A

Het geplande project staat natuurlijk niet op zichzelf. Er zijn bestaande en vergunde turbines in de omgeving die ook invoed hebben op de slagschaduwduur. Samen met het project geven deze bestaande en vergunde turbines aanleiding tot de ‘geplande situatie 1A’. Onderstaande Figuur 5-2 laat zien dat in deze ‘geplande situatie 1A’ vrijwel alle receptoren invloed ondervinden van slagschaduw van de windturbines. Ze liggen immers binnen, of net buiten de isocontour van 4 uur verwachte slagschaduw.

Zoals blijkt uit vergelijking met Figuur 4-4 en Figuur 4-5, is voor de beschouwde receptoren de slagschaduw niet enkel afkomstig van het project. Dit wordt ook bevestigd door de in Tabel 5-1 getoonde resultaten van de berekeningen voor referentiesituatie A.



Figuur 5-2: Isocontouren voor de verwachte slagschaduw (uren per jaar) in de 'geplande situatie 1A' (project + referentiesituatie A, samen 42 windturbines)

Inderdaad, wanneer de cumulatieve effecten worden beschouwd van het project (1 geplande windturbine) samen met de 41 relevante, bestaande en/of vergunde windturbines die compatibel zijn met het project (= referentiesituatie A), dan blijken nog slechts enkele receptoren buiten de isocontour van 8u (voor woningen) en 30u (voor gebouwen in industriegebied, uitgezonderd woningen) verwachte slagschaduw gelegen te zijn. De jaarlimiet (van 8u of 30u effectieve slagschaduwhinder) wordt ter hoogte van deze receptoren dus naar verwachting gerespecteerd. Het betreffen:

- Receptor 1, een woning in de Hoogstraat, gelegen ten westen van de R4-West;
- Receptoren 2, 3 en 17, beide bedrijfsgebouwen op het industrieterrein rond het Kluizendok, ten zuidwesten van het dok;
- Receptor 12, een bedrijfsgebouw op het industrieterrein rond het Kluizendok, ten zuiden van het dok en langs het kanaal Gent-Terneuzen;
- Receptor 15, een woning in Hageland, gelegen ten westen van de R4-West.

Echter ter hoogte van alle voornoemde receptoren (buiten receptoren 1 en 15) wordt verwacht dat de daglimiet van 30 minuten effectieve slagschaduw overschreden zal worden. Ter hoogte van deze receptoren kan dus effectief slagschaduw optreden gedurende meer dan 30 minuten per dag.

Het aantal receptoren dat in de 'geplande situatie 1A' buiten de isocontour van 8 uur verwachte slagschaduw valt, ligt dus lager dan wanneer de referentiesituatie afzonderlijk beschouwd wordt (zie §4.3).

Dit is zichtbaar inTabel 5-1, waar de kolom met de verwachte slagschaduw (uren/jaar) voor 'geplande situatie 1A' (project + referentiesituatie A) minder groene velden bevat dan de kolom met de verwachte slagschaduw (uren/jaar) voor enkel de referentiesituatie A.

In de ‘geplande situatie 1A’ (project + referentiesituatie A) vinden we dan uiteraard een groter aantal receptoren **binnen de isocontour van 8u** (woningen) **of 30u** (gebouwen in industriegebied, uitz. woningen) verwachte slagschaduwhinder per jaar. Ter hoogte van deze receptoren kan de jaarlimiet (van 8u of 30u effectieve slagschaduw) overschreden worden. Het betreft receptoren 4 tot en met 11, 13, 14, 16 en 18. Voor de deze receptoren wordt bovendien verwacht dat ook de daglimiet van 30 minuten effectieve slagschaduwhinder zal worden overschreden.

Milderende maatregelen zijn dus zeker nodig in de ‘geplande situatie 1A’. Door toepassing van een slagschaduwdetectiesysteem met automatische stilstandmodule (op de geplande windturbine) kan de toepasselijke VLAREM II norm echter steeds gerespecteerd worden. Hierdoor kan de hinder ter hoogte van de beschouwde receptoren tijdens de exploitatie immers ook in de geplande situatie 1A beperkt blijven tot een aanvaardbaar niveau.

Naast de slagschaduwkaarten en -berekeningen werden ook slagschaduwkalenders opgemaakt voor de representatieve schaduwgevoelige objecten in de ‘geplande situatie 1A’. Deze slagschaduwkalenders zijn grafische voorstellingen die alle momenten weergeven waarop mogelijks slagschaduwhinder kan optreden ter hoogte van de betrokken receptor, waarbij de verschillende kleuren staan voor de bijdragen van de verschillende windturbines. In dit opzicht zijn deze kalenders een worst-case weergave, omdat onder meer door meteorologische omstandigheden (bewolking, geen of weinig wind,…) slechts gedurende een deel van de weergegeven tijd effectief slagschaduw zal optreden (typisch gedurende slechts 10 tot 25% van de weergegeven tijd). De berekeningsresultaten voor geplande situatie 1A en geplande situatie 1B en voor alle 18 representatieve receptoren, alsook de grafische voorstellingen ervan, zijn terug te vinden in Bijlage 1.

Enkele geselecteerde receptoren worden hierna meer in detail besproken, voor wat betreft de ‘geplande situatie 1A‘ (project + referentiesituatie A).

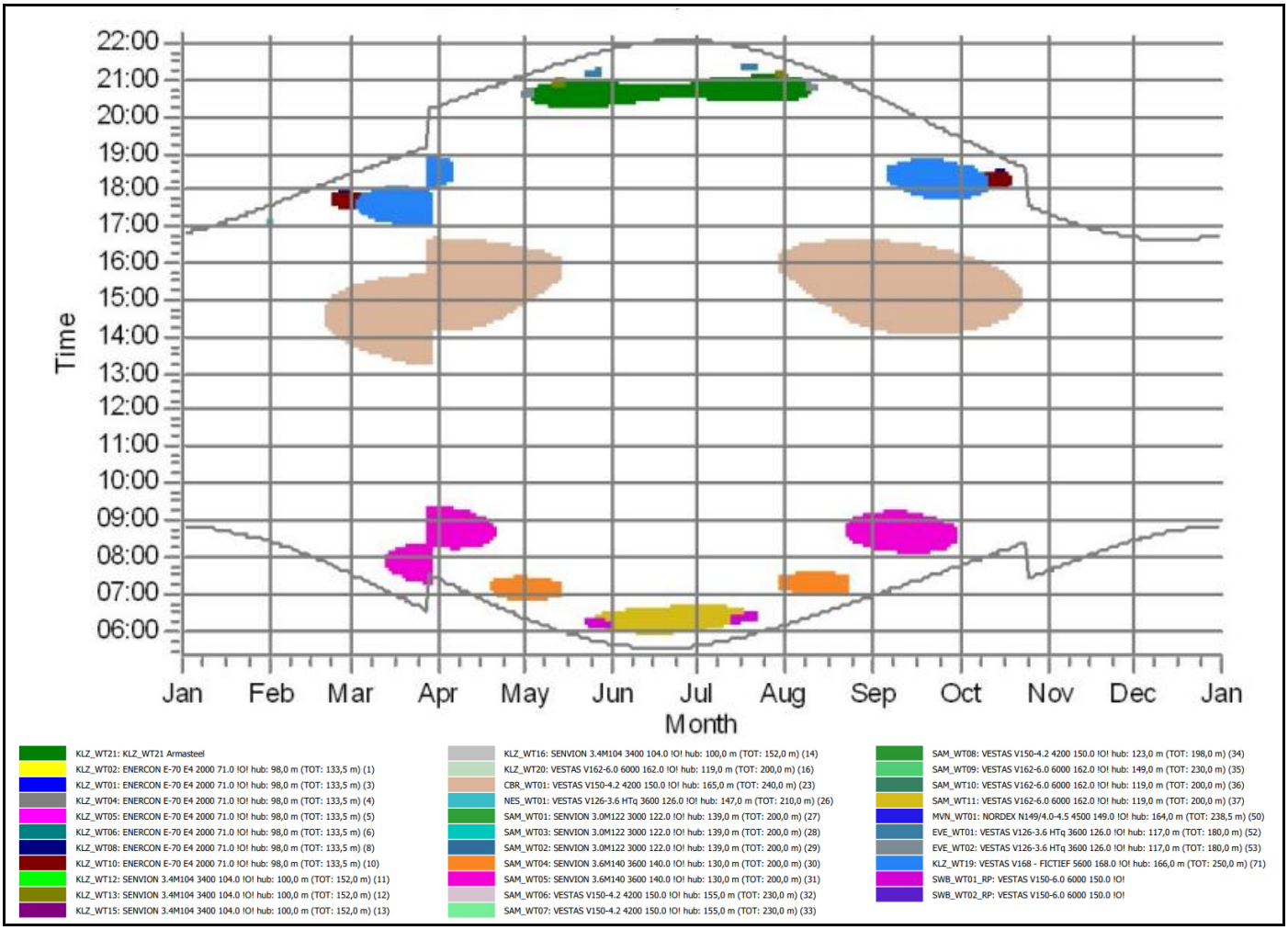
Receptor 11 (een bedrijfsgebouw gelegen ter hoogte van de Arbedkaai 3 (Gent))

Receptor 11, een bedrijfsgebouw in de Arbedkaai aan de rand van de woonkern Sint-Kruis-Winkel, is gelegen ten oosten van het kanaal Gent-Terneuzen en ten westen van de geplande windturbine KLZ-WT21. Uit de slagschaduwkalender (astronomisch maximum) van Figuur 5-5 blijkt dat slagschaduw ter hoogte van deze receptor vooral zal optreden tijdens de avondperiode (vlak voor zonsondergang), tijdens de ochtendperiode (vlak na zonsopgang) en tijdens de namiddag (tussen 13u en 17u).

Slagschaduw zal enkel optreden in de periode tussen februari en eind oktober, verspreid doorheen het jaar. Van eind april tot de 1e helft van augustus zal (althans ter hoogte van de beschouwde receptor 11) het grootste deel van de slagschaduw afkomstig zijn van de geplande windturbine KLZ-WT21 (donkergroen vlak in de figuur). Voor de overige periodes van slagschaduw, treedt slagschaduw op ten gevolge van bestaande en/of vergunde turbines als CBR_WT01 (grijs vlak in de figuur).

Uit Tabel 5-2 bleek reeds dat ter hoogte van de beschouwde receptor 11 de limiet van 30 uur slagschaduw per jaar naar verwachting niet overschreden zal worden door toedoen van het project (de geplande turbine KLZ-WT21). De daglimiet van 30 minuten effectieve slagschaduw zal door de geplande windturbine ter hoogte van deze receptor niet gerespecteerd worden (maximaal 33 minuten effectieve slagschaduw per dag ten gevolge van het project).

Er valt bijkomend een overschrijding van de limiet van 30 uur effectieve slagschaduw per jaar te verwachten door toedoen van de bestaande turbines. Bij cumulatie van de nieuwe turbine (KLZ-WT21) met de bestaande turbines wordt de norm van 30 uur slagschaduw per jaar hierdoor naar verwachting uiteraard eveneens overschreden. Milderende maatregelen zullen hier dus nodig zijn, zowel om de jaarlimiet te respecteren als om de daglimiet te respecteren.

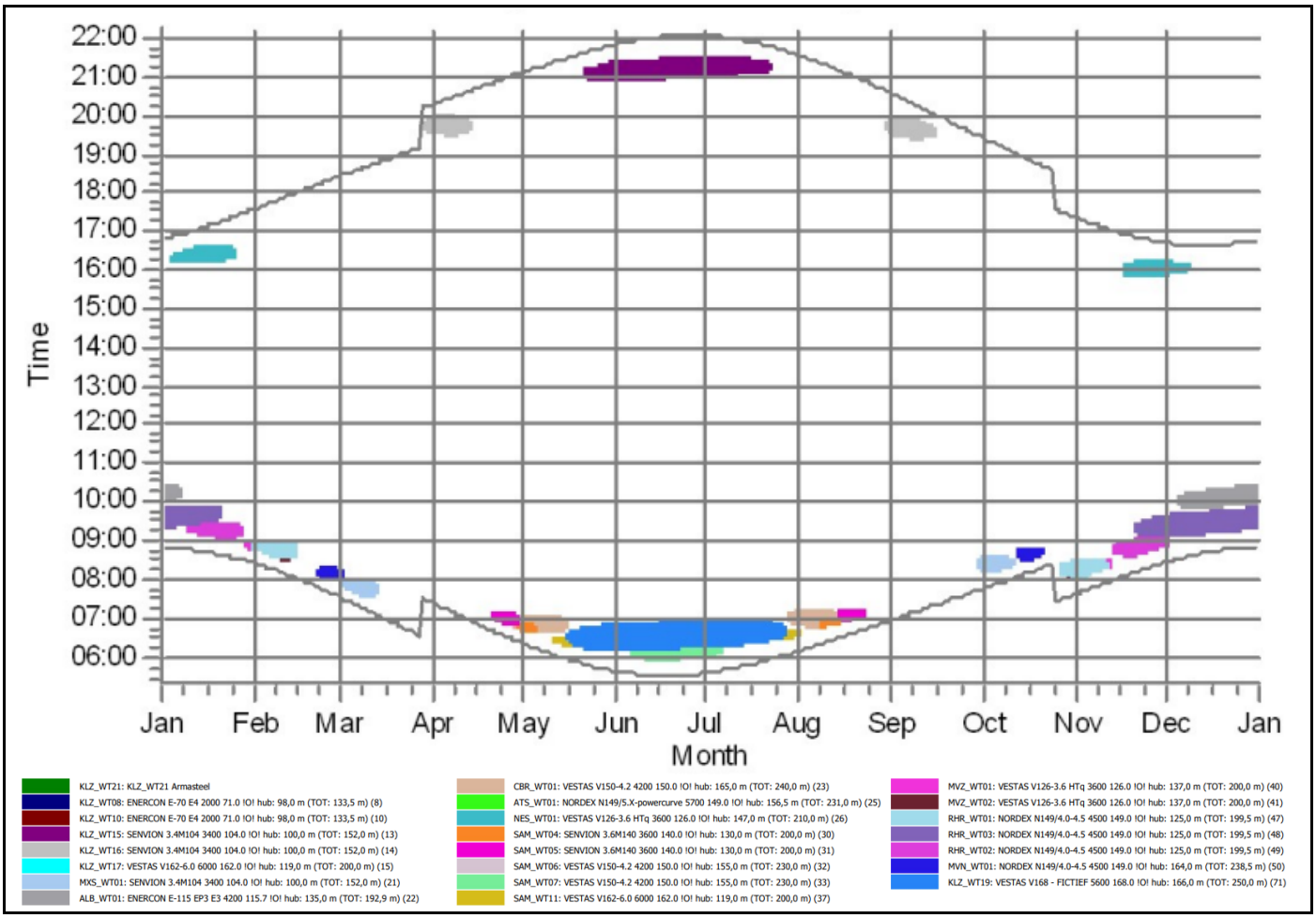


Figuur 5-3: Grafische voorstelling van de slagschaduwkalender voor receptor 11, een bedrijfsgebouw ter hoogte van Arbedkaai 3 te Sint-Kruis-Winkel, gelegen ten zuidoosten van de geplande windturbine

De in Figuur 5-3 getoonde slagschaduwkalender is representatief voor een aantal andere receptoren ten oosten/zuidoosten van de geplande windturbine KLZ-WT21. Dit geldt onder meer voor de in deze studie beschouwde receptoren 9 en 10, die allen vooral slagschaduw zullen ondervinden kort voor zonsondergang. Beide receptoren ondervinden ook kort na zonsopgang slagschaduw doorheen het jaar afgewisseld met periodes zonder slagschaduw.

Receptor 14 (een woning ter hoogte van de Abdijdreef 2 in Doornzele (Evergem))

Receptor 14 ligt in de woonkern Doornzele, een woning in de Abdijdreef, en is gelegen ten zuiden van de geplande windturbine KLZ-WT21. Op basis van de slagschaduwkalender van Figuur 5-4 zal slagschaduw ter hoogte van deze receptor enkel optreden in de ochtend (kort na zonsopgang), alsook in de late namiddag of avond (kort voor zonsondergang), en dit verspreid over het jaar en afgewisseld met periodes zonder slagschaduw.



Figuur 5-4: Grafische voorstelling van de slagschaduwkalender voor receptor 15, een woning in de Abdijdreef 2 in Doornzele, gelegen ten zuiden van de geplande windturbine

Slagschaduw in de ochtend komt verspreid doorheen het jaar voor, afgewisseld met periodes zonder slagschaduw. Tussen half maart en begin mei en tussen midden augustus en begin oktober is er een langere periode zonder slagschaduw. De slagschaduw in de ochtend is te wijten aan diverse bestaande windturbines.

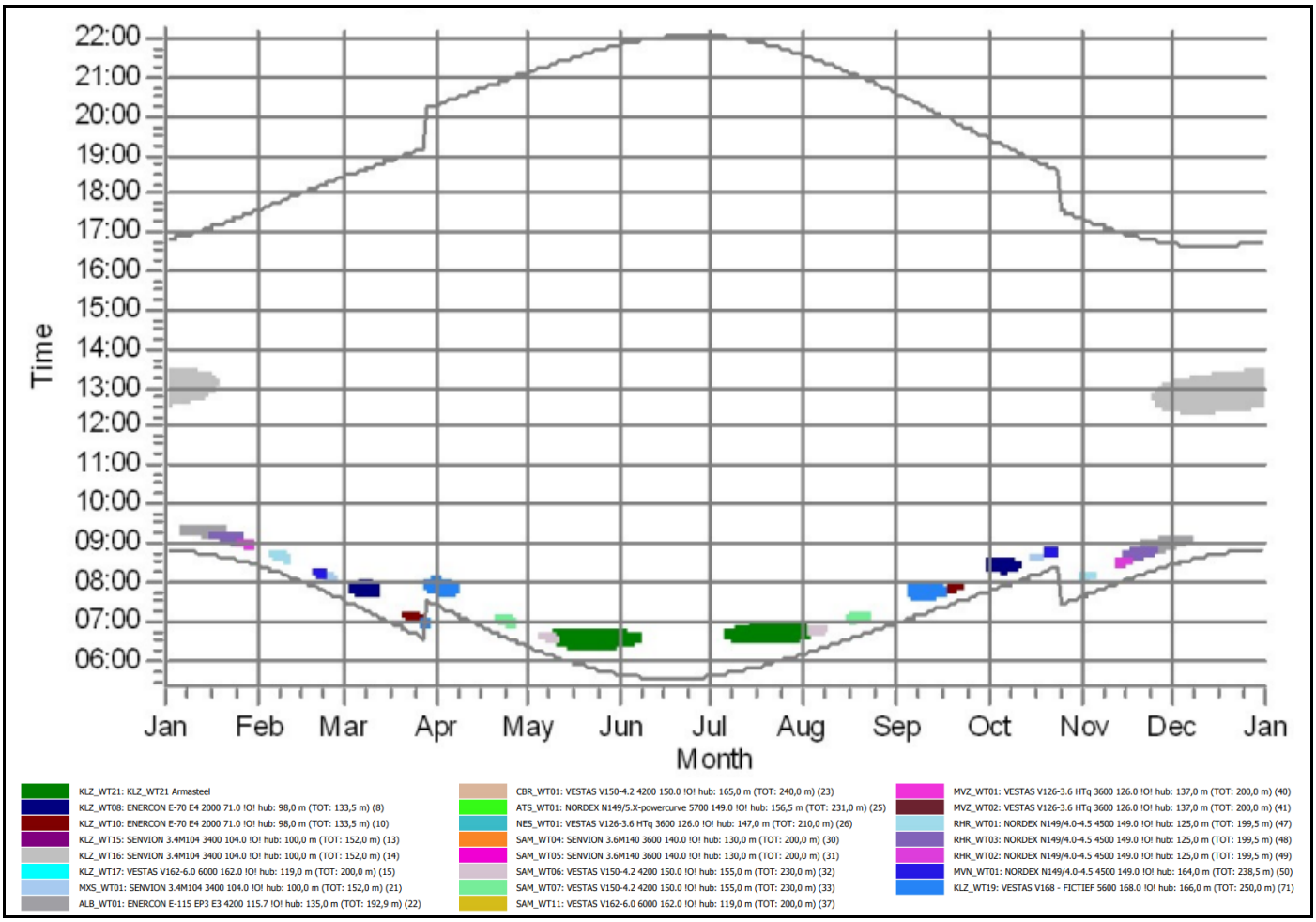
Slagschaduw in de (voor-)avond treedt enkel op in twee korte periodes in de winter (tussen eind november en begin december en in januari), telkens afkomstig van de vergunde windturbine van Luminus op het industrieterrein Evergem-Nest (NES_WT01). Slagschaduw treedt ook op voor een langere periode in de zomer, afkomstig van KLZ_WT16 (in april en september) en KlZ_WT15 van windpark Kluizendok II van Luminus (tussen eind mei en eind juli).

De geplande windturbine veroorzaakt ter hoogte van receptor 14 geen slagschaduw. De receptor is immers voldoende zuidelijk georiënteerd ten opzichte van de windturbine, en kan dus geen slagschaduw ondervinden (gezien de zon nooit in het noorden staat). Andere receptoren in Doornzele (zoals de in deze slagschaduwstudie beschouwde receptoren 12 en 13) kunnen ook geen slagschaduw ondervinden van de geplande turbine. Slagschaduw wordt ter hoogte van deze receptoren bepaald door de bestaande/vergunde windturbines in de omgeving.

Uit Tabel 5-1 bleek inderdaad reeds dat ter hoogte van de beschouwde receptor 14 geen slagschaduw te verwachten is van de geplande windturbine. De jaarlimiet van 8 uur effectieve slagschaduw zal daarentegen naar verwachting wel (ruimschoots) overschreden worden door toedoen van de bestaande/vergunde windturbines.

Bij cumulatie van het project met de bestaande turbines (‘geplande situatie 1A’) wordt hierdoor uiteraard ook meer dan 8 uur slagschaduw per jaar verwacht. Ook de daglimiet van 30 minuten effectieve slagschaduwhinder kan overschreden worden door de bestaande/vergunde windturbines (maximaal 1 uur en 4 minuten slagschaduw mogelijk per dag). Milderende maatregelen door de andere windturbines zijn hier dus nodig zowel om de jaarlimiet te respecteren als om de daglimiet te respecteren.

Receptor 17 (bedrijfsgebouw ter hoogte van Amerigo Vespuccistraat 2A (Evergem))



Figuur 5-5: Grafische voorstelling van de slagschaduwkalender voor receptor 17, een bedrijfsgebouw ter hoogte van de Amerigo Vespuccistraat 2A in Evergem, gelegen ten zuidwesten van de geplande windturbine

Receptor 17 is een bedrijfsgebouw, gelegen ten oosten van de R4-West en het dorp Kluizen (Evergem), en ten zuidwesten van de geplande windturbine. Uit de slagschaduwkalender van Figuur 5-5 blijkt dat slagschaduw ter hoogte van deze receptor enkel kan optreden in de ochtend (kort na zonsopgang) en net na de middag in de wintermaanden. De slagschaduw komt verspreid over het jaar voor, afgewisseld met periodes zonder slagschaduw, en gedurende maximaal 50 minuten per dag.

Enkele bestaande windturbines rond het Kluizendok zorgen voor slagschaduw ter hoogte van receptor 17: de zuidelijke rij (met name KLZ_WT07-08-09-10-19) in de herst- en winterperiode. Andere bestaande turbines leveren een in verhouding kleinere bijdrage: RHR_WT02-03 en ALB_WT01 doen dat in de winterperiode (eind november – december – januari); CBR_WT01 in het voorjaar (begin maart) en najaar (begin oktober); en SAM_WT06 en SAM_WT07 in de periodes eind april-begin mei en augustus. In totaal zorgen de bestaande/vergunde turbines (referentiesituatie A) voor maximaal 50 minuten slagschaduw per dag.

De geplande turbine levert ook een bijdrage. Ter hoogte van receptor 17 zorgt de geplande windturbine KLZ-WT21 voor slagschaduw in de zomermaanden, van begin mei tot begin juni en van begin juli tot begin augustus, en telkens tussen 6 en 7 uur, en gedurende maximaal 24 minuten per dag.

Uit Tabel 5-1 bleek reeds dat ter hoogte van de beschouwde receptor 17 de limiet van 30 uur slagschaduw per jaar naar verwachting zal worden gerespecteerd door het project (KLZ-WT21), alsook door de bestaande windturbines. Cumulatief wordt de limiet van 30 uur effectieve slagschaduw per jaar naar verwachting ook niet overschreden. De daglimiet van 30 minuten effectieve slagschaduwhinder zal ter hoogte van deze receptor niet overschreden worden door de geplande windturbine (maximaal 24 minuten slagschaduw mogelijk per dag). Echter wordt de limiet van 30 minuten effectieve slagschaduw per dag wel overschreden door de bestaande/vergunde windturbines (maximaal 50

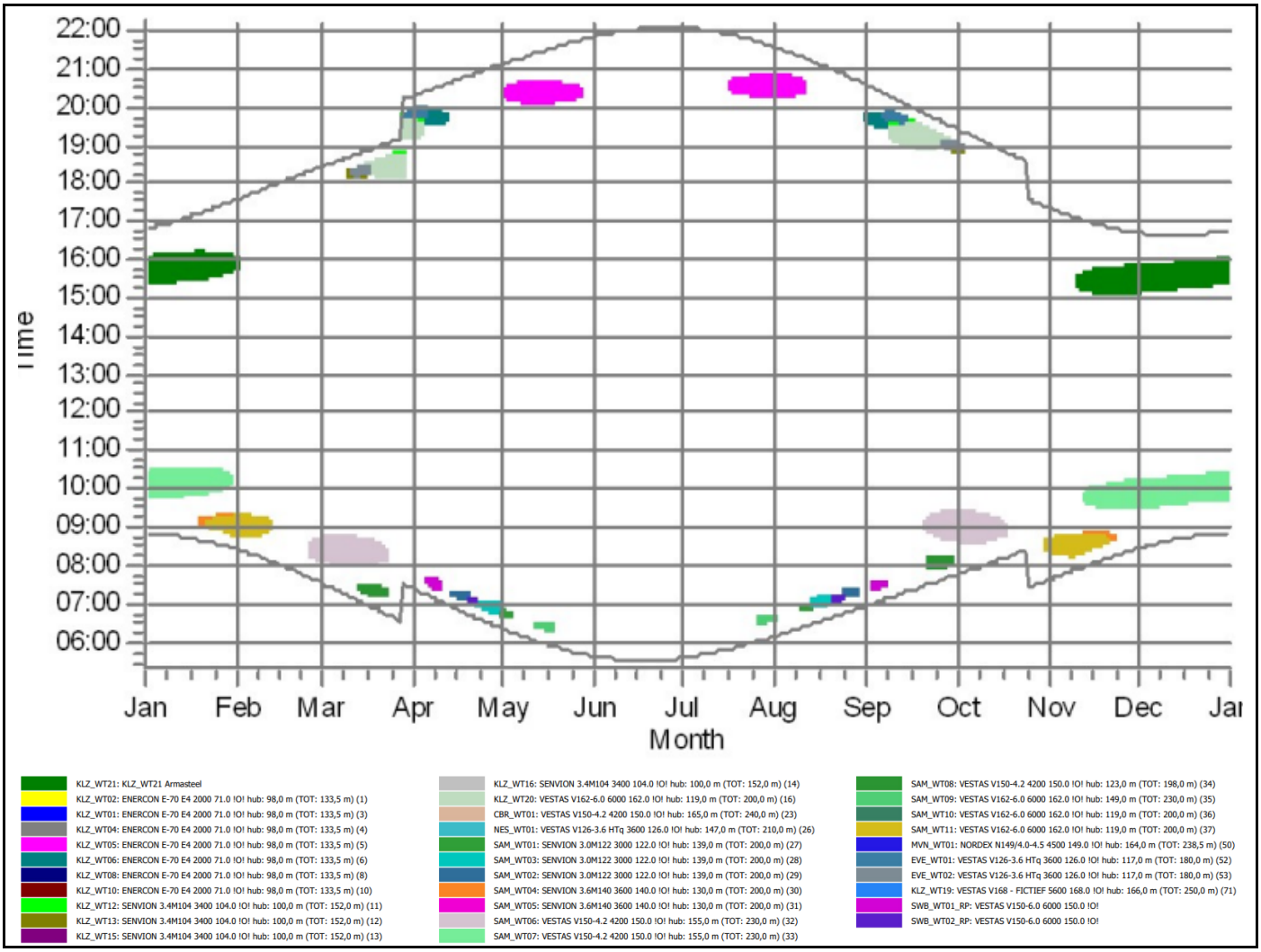
minuten mogelijke slagschaduw per dag). Milderende maatregelen blijven dus (althans voor deze receptor) nodig om steeds de daglimiet te kunnen respecteren.

De in Figuur 5-5 getoonde slagschaduwkalender is representatief voor een groot deel van de woningen en bedrijfsgebouwen in het westen/zuidwesten van het projectgebied, en met name in en naast de woonkern Kluizen (receptor 1). Door de westelijke ligging ten opzichte van de geplande (en vaak ook de bestaande/vergunde) windturbines, ondervinden deze gebouwen enkel slagschaduw in de ochtend of vroege voormiddag (kort na zonsopgang).

Dit geldt min of meer ook voor de in deze slagschaduwstudie beschouwde receptoren 2, 3 en 18. Deze receptoren ondervinden slagschaduw van de bestaande/vergunde windturbines vooral s 'ochtends, dit verspreid doorheen het jaar afgewisseld met periodes zonder slagschaduw. Slagschaduw van de geplande winturbine (KLZ-WT21) treedt bij deze receptoren vooral op in de zomermaanden. Receptoren 2, 3 en 18 ondervinden ook slagschaduw in de wintermaanden, in de late namiddag, afkomstig van KLZ_WT15 van Luminus ten zuidwesten van het Kluizendok. Bij receptor 18 treedt de slagschaduw afkomstig van KLZ_WT15 s'avonds in de zomermaanden op. Receptor 18 ondervindt bijkomend in de late namiddag tijdens de wintermaanden slagschaduw van KLZ_16 (Kluizendok II van Luminus).

<u>Receptor 8 (bedrijfsgebouw in het industrieterrein rond het Kluizendok)</u>

Receptor 8 is een bedrijfsgebouw in het industrieterrein rond het Kluizendok (met adres Christoffel Columbuslaan 17), gelegen ten noorden van het Kluizendok en de geplande windturbine (KLZ-WT21). Uit de slagschaduwkalender van Figuur 5-6 blijkt dat slagschaduw ter hoogte van deze receptor zowel tijdens de voormiddag als tijdens de (voor)avond zal optreden, en dit verspreid over het jaar en afgewisseld met periodes zonder slagschaduw.



Figuur 5-6: Grafische voorstelling van de slagschaduwkalender voor receptor 8, een bedrijfsgebouw langs de Christoffel Columbuslaan, gelegen ten noorden van het Kluizendok en ten noorden van de geplande windturbine

Slagschaduw in de (voor)avond komt verspreid voor gedurende zowat het volledige jaar, afgewisseld met korte periodes zonder slagschaduw, tussen 15u30 en 16u30 (in de wintermaanden) en tussen 18u en 20u30 (overige periode). De potentiële slagschaduw wordt zowel veroorzaakt door de geplande windturbine (KLZ-WT21) als de reeds bestaande windturbines rondom het Kluizendok (KLZ_WT05-06-12-13-20).

Slagschaduw in de voormiddag (tussen 6u en 11u30) komt ook verspreid voor gedurende zowat het volledige jaar, afgewisseld met korte periodes zonder slagschaduw. De potentiële slagschaduw wordt veroorzaakt door de reeds bestaande windturbines op de site van Arcelor-Mittal (SAM_WT01-02-03-04-06-07-08-09-11).

Uit Tabel 5-1 bleek reeds dat ter hoogte van de beschouwde receptor 8 de limiet van 30 uur slagschaduw per jaar naar verwachting niet zal overschreden worden door het project (KLZ-WT21). De verwachte jaarlijkse slagschaduwduur ten gevolge van enkel het project bedraagt immers 7 uur en 33 minuten. De daglimiet van 30 minuten effectieve slagschaduwhinder wordt ter hoogte van deze receptor wel overschreden door het project (maximaal 37 minuten slagschaduw mogelijk per dag). Milderende maatregelen zullen om deze reden nodig zijn. Cumulatief met de bestaande/vergunde windturbines (en dan vooral de overige turbines ten noorden van het Kluizendok en de turbines bij Arcelor-Mittal) worden de slagschaduwnormen per dag eveneens overschreden: de verwachte slagschaduwduur per dag bedraagt immers 1 uur en 14 minuten. De jaarlimiet wordt ook overschreden en kan max. 31 uur en 5 minuten bedragen.

De slagschaduwkalender in Figuur 5-6 is representatief voor een aantal andere receptoren in het noorden van het project. Dit geldt onder meer voor de receptoren 6 en 7.

De receptoren kunnen vooral slagschaduw ondervinden in de ochtend en de avond, verspreid over het jaar, afgewisseld met periodes zonder slagschaduw. Echter wordt er, voor deze receptoren, wel niet voldaan aan de jaarlimiet en daglimiet van effectieve slagschaduw van maximaal resp. 8 uur in een gemiddeld jaar en 30 minuten op een bepaalde dag in een gemiddeld jaar (voor ‘de geplande situatie 1A’).

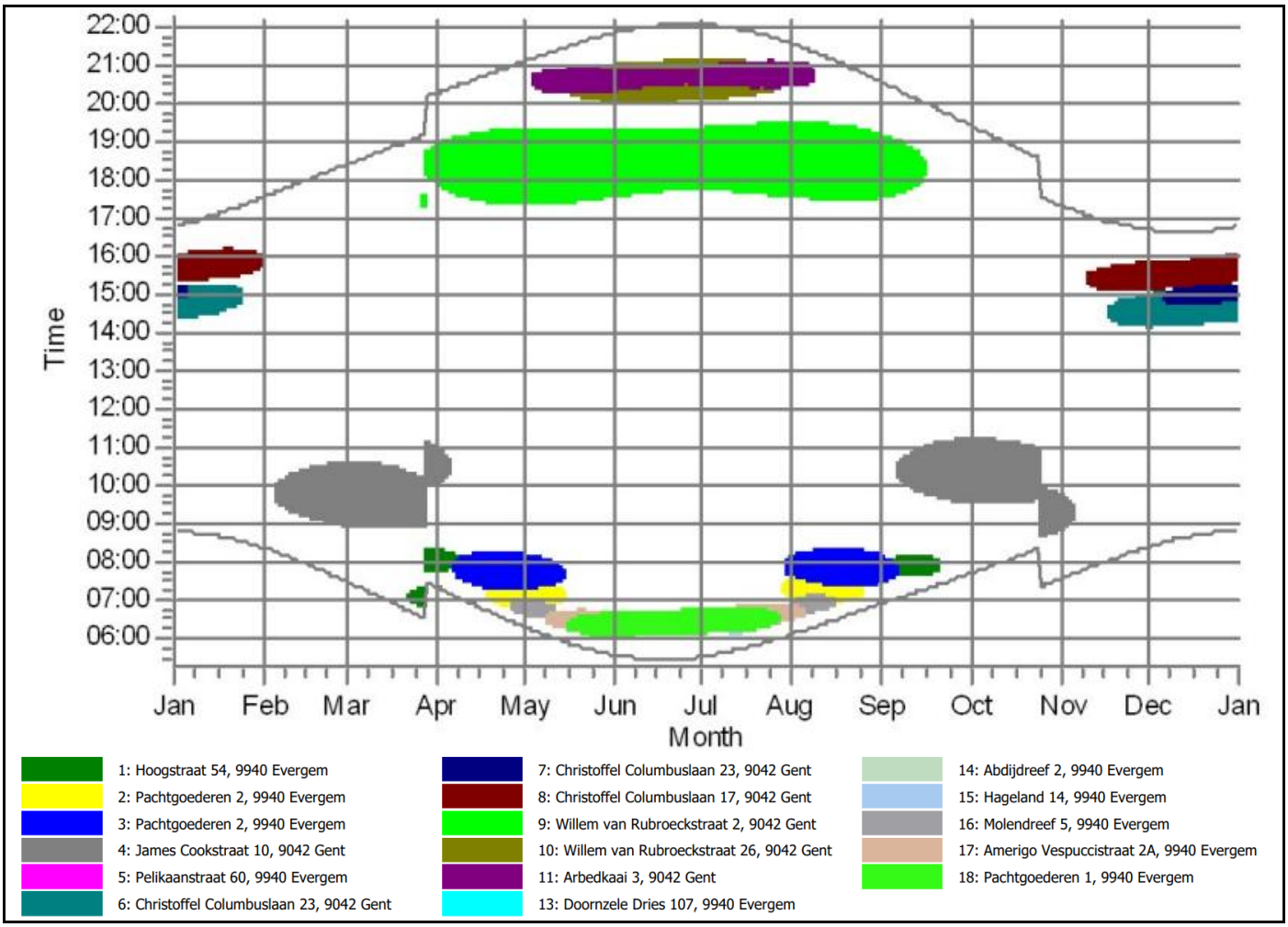
Bespreking van slagschaduweffecten van de geplande turbine

De mogelijke slagschaduw die door een individuele turbine kan veroorzaakt worden ter hoogte van verschillende receptoren, kan eveneens grafisch voorgesteld worden aan de hand van een slagschaduwkalender. Dergelijke slagschaduwkalenders geven een eerste beeld of de rendabele productie van groene energie mogelijk blijft indien milderende maatregelen moeten getroffen worden.

In Figuur 5-7 wordt een dergelijke slagschaduwkalender getoond voor de geplande turbine (KLZ-WT21), waarbij de verschillende kleurvlakken de momenten voostellen dat slagschaduwhinder kan optreden ter hoogte van de verschillende receptoren. Hogervermelde selectie van 18 representatieve receptoren is gebruikt voor het opstellen van de figuur.

In Bijlage 1 zijn de slagschaduwkalenders opgenomen van alle bestaande/vergunde windturbines (alsook van de turbines in ontwikkeling.

Er dient benadrukt te worden dat deze figuur voor elke receptor het theoretisch maximaal aantal uren slagschaduw per jaar toont. Het verwacht aantal uren slagschaduw per jaar (rekening houdend met meteorologische omstandigheden als bewolking, gebrek aan wind,…) bedraagt, zoals eerder vermeld, slechts een fractie van de maximaal mogelijke slagschaduwduur per jaar. Toch kan deze figuur reeds een idee geven van de grootte van de impact inzake slagschaduw van de geplande windturbine. Een gedetailleerde analyse zal echter pas gebeuren tijdens de constructiefase, waarbij alle receptoren zullen worden bepaald en ook de werkelijke grootte en oriëntatie van de ramen zal worden meegenomen.



Figuur 5-7: Grafische voorstelling van de slagschaduwkalender voor de geplande windturbine KLZ_WT21

5.3 Geplande situatie 1B

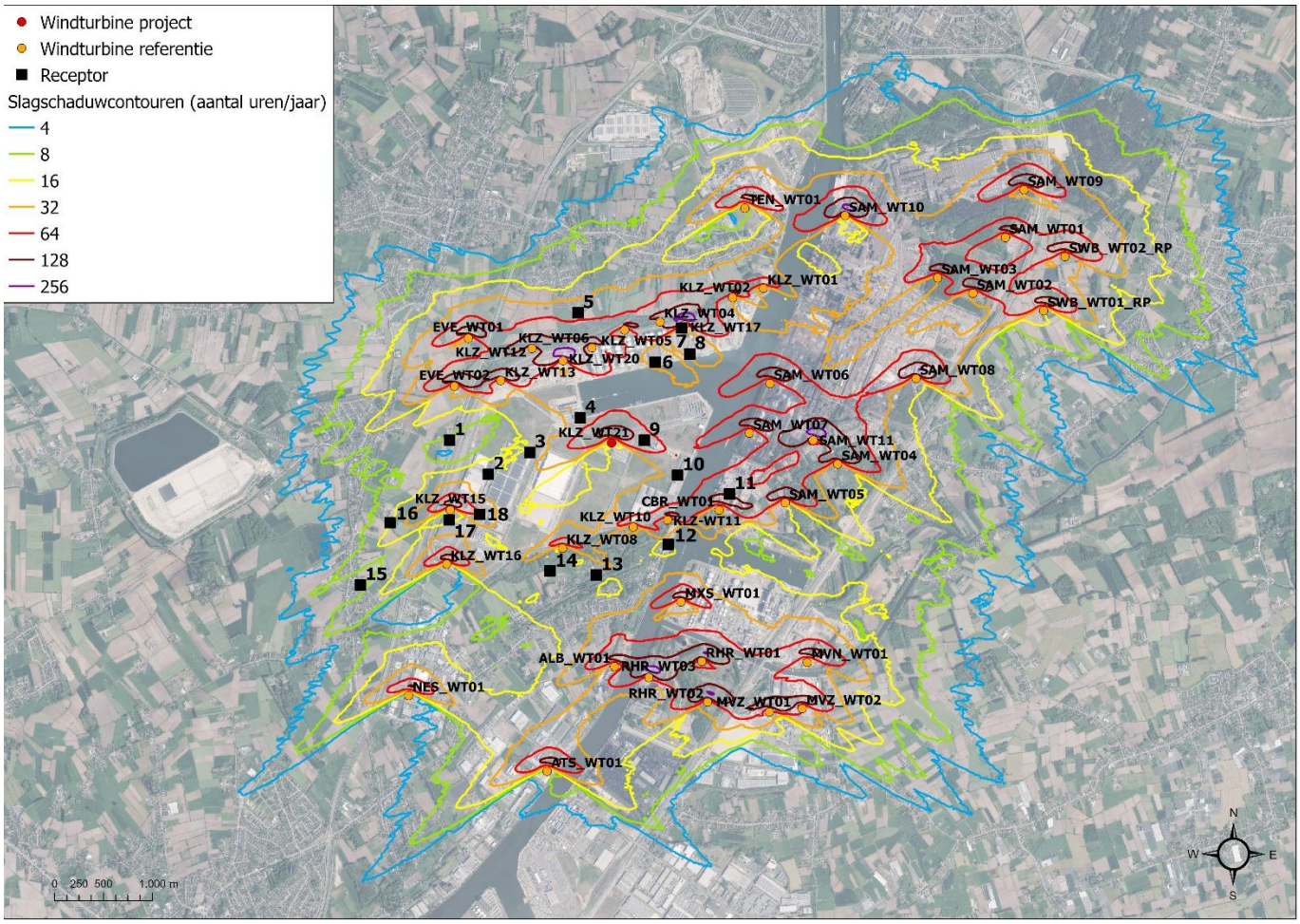
Geplande situatie 1B (referentiesituatie B + project) is de situatie waarbij KLZ-WT11 wordt behouden en KLZ-WT19 niet wordt gebouwd. In de 'geplande situatie 1B' bevinden zich dezelfde receptoren als in de 'geplande situatie 1A' binnen de isocontour van 8u (woningen) of 30u (gebouwen in industriegebied, uitz. woningen) verwachte slagschaduwhinder per jaar.

Ten opzichte van geplande situatie 1A kunnen de volgende verschillen opgemerkt worden:

- Voor de receptoren 1, 2, 3, 4, 9, 10, 11, 14, 17 en 18 wordt verwacht dat zij minder slagschaduw per jaar zullen ondervinden. Dit betekent dat de hinder voor deze locaties afneemt ten opzichte van geplande situatie 1B. Het gaat om bedrijfsgebouwen langs het kanaal Gent-Terneuzen en bedrijfsgebouwen ten zuidwesten van het Kluizendok. Alsook woningen ten westen van de R4 gelegen.
- Daarentegen zullen receptoren 5, 6, 7, 8, 12 en 16 meer slagschaduw per jaar ervaren, wat impliceert dat de hinder op deze plekken toeneemt. Het gaat om bedrijfsgebouwen ten noorden van het Kluizendok en woningen ten noorden van de N474.
- Voor de receptoren 13 en 15 verandert er niets ten opzichte van geplande situatie 1A. De slagschaduwhinder blijft hier dus onveranderd. Het gaat om woningen en bedrijfsgebouwen die wat verder gelegen zijn dan de andere receptoren.

De daglimiet blijft voor veel receptoren dezelfde. Enkel voor receptoren 10 – 11 – 14 zijn de maximale uren slagschaduw per dag gedaald. Dit komt omdat KLZ-WT19 (geplande situatie 1A) een grotere tiphoogte en rotordiameter heeft dan KLZ-WT11 (geplande situatie 1B).

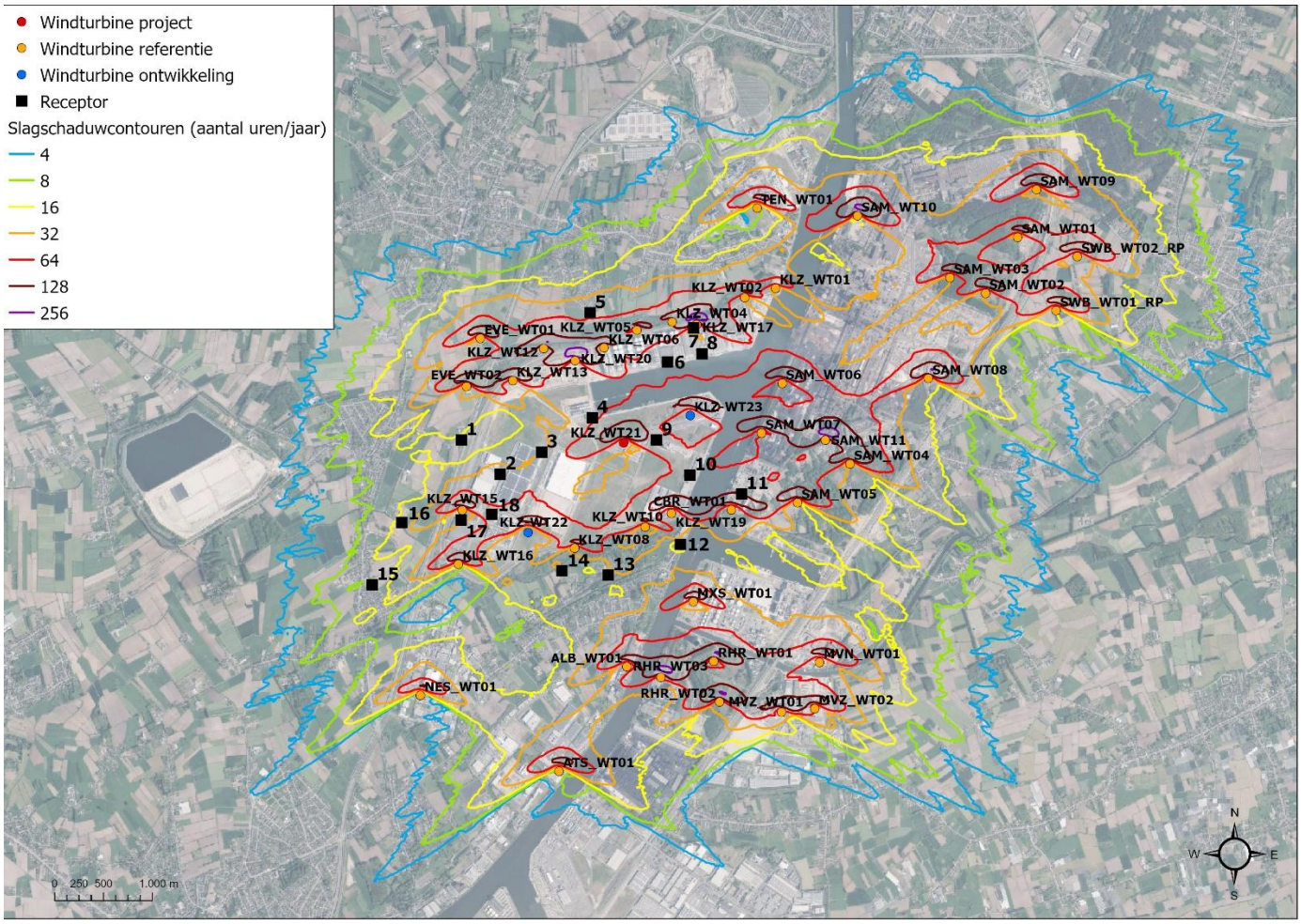
Figuur 5-8 geeft de isocontouren weer voor de verwachte slagschaduw in de geplande situatie 1B (dus afkomstig van het project en de 41 bestaande en vergunde windturbines).



Figuur 5-8: Isocontouren voor de verwachte slagschaduw (uren per jaar) in de geplande situatie 1B (project + 41 bestaande en vergunde windturbines)

5.4 Geplande situatie 2A

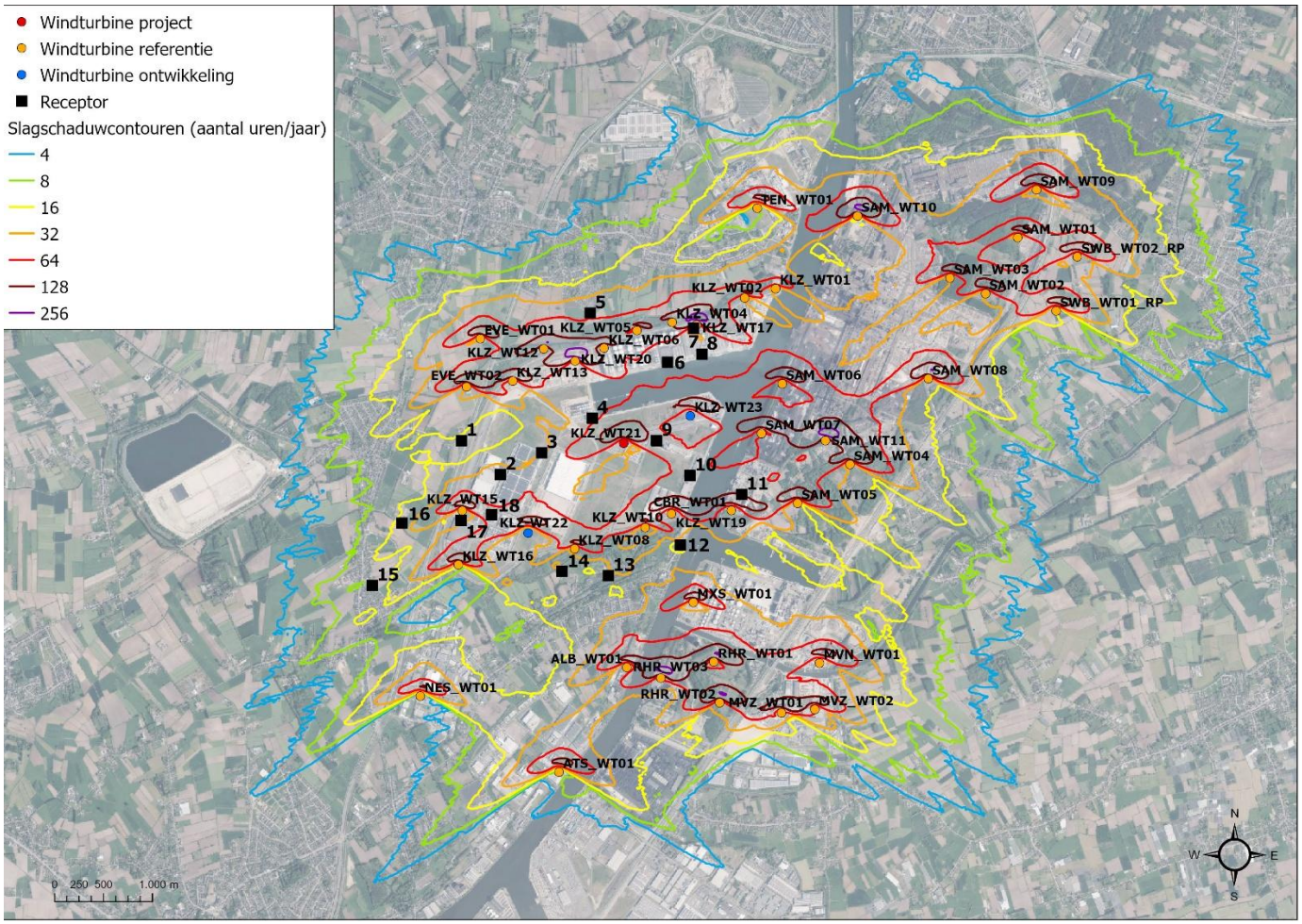
Geplande situatie 2A (referentiesituatie A + project + windturbines in ontwikkeling (KLZ-WT22 en KLZ-WT23)) is de situatie waarbij KLZ-WT11 wordt behouden en KLZ-WT19 niet wordt gebouwd. Figuur 5-9 geeft de isocontouren weer voor de verwachte slagschaduw in de geplande situatie 2A. Ter hoogte van de meeste receptoren wordt de jaarlijkse norm overschreden, behalve voor receptor 12 (woning ten zuiden van Kluizendok) en 17 (bedrijfsgebouw ten zuidwesten van het dok). De daglimiet wordt ter hoogte van alle receptoren overschreden (zie Tabel 5-1 en Tabel 5-2).



Figuur 5-9: Isocontouren voor de verwachte slagschaduw (uren per jaar) in de geplande situatie 2A (project + 41 bestaande en vergunde windturbines + 2 windturbines in ontwikkeling)

5.5 Geplande situatie 2B

Geplande situatie 2B (referentiesituatie B + project + windturbines in ontwikkeling (KLZ-WT22 en KLZ-WT23)) is de situatie waarbij KLZ-WT11 wordt afgebroken en KLZ-WT19 wordt gebouwd. Figuur 5-10 geeft de isocontouren weer voor de verwachte slagschaduw in de geplande situatie 2B. Ter hoogte van de meeste receptoren wordt de jaarlijkse norm overschreden, behalve voor receptor 12 (woning ten zuiden van Kluizendok) en 17 (bedrijfsgebouw ten zuidwesten van het dok). De daglimiet wordt ter hoogte van alle receptoren overschreden (zie Tabel 5-3 en Tabel 5-4).



Figuur 5-10: Isocontouren voor de verwachte slagschaduw (uren per jaar) in de geplande situatie 2B (project + 41 bestaande en vergunde windturbines + 2 windturbines in ontwikkeling)

6 Milderende maatregelen

Gezien er receptoren zijn waarbij de maximale jaarlijkse en/of dagelijkse toegelaten hoeveelheid slagschaduw de VLAREM normen overschrijdt, is er een aanzienlijk negatief effect mogelijk en dienen milderende maatregelen genomen te worden.

Tijdens de ontwikkelingsfase van een windturbine wordt de verwachte slagschaduw voor enkele representatieve slagschaduwgevoelige objecten berekend. Deze berekening conform de milieuregelgeving laat toe de slagschaduwimpact in te schatten en de vereiste maatregelen te begroten. De beoordeling van slagschaduw in deze studie is echter conservatief en stelt een eerder worst-case scenario voor (er wordt geen rekening gehouden met afschermende obstakels, de objecten worden beschouwd als 'serre-objecten'[5]). Op basis van voorliggende slagschaduwstudie zijn milderende maatregelen noodzakelijk. Door het toepassen van een automatische stilstandmodule zullen de VLAREM slagschaduwnormen ten alle tijden gerespecteerd worden. De hinder zal tijdens de exploitatie voor deze receptoren voldoende beperkt worden.

Na het verkrijgen van de vergunning en ter voorbereiding van de operationele fase kunnen de noodzakelijke maatregelen[6] verfijnd worden. Hiertoe wordt de verwachte slagschaduw voor alle relevante slagschaduwgevoelige objecten bepaald, waarbij ook rekening wordt gehouden met cumulatieve effecten. De beoordeling van slagschaduw in deze studie is echter conservatief en stelt een worst-case scenario voor (er wordt geen rekening gehouden met afschermende obstakels, de objecten worden beschouwd als 'serre-objecten').

De windturbine wordt trouwens steeds voorzien van een automatische stilstandsmodule (ook wel 'slagschaduwmodule' genoemd. Deze slagschaduwmodule is in staat om de aanwezigheid van slagschaduw en zijn locatie (de projectie van de slagschaduw op slagschaduwgevoelige objecten) vast te stellen.

Bovendien bevat de slagschaduwmodule ook de nodige gegevens om te bepalen wanneer de slagschaduwnorm dreigt overschreden te worden voor een bepaald slagschaduwgevoelig object.

Hiertoe worden de locaties van alle relevante slagschaduwgevoelige objecten geprogrammeerd in de slagschaduwmodule. De slagschaduwmodule 'kent' op deze manier alle relevante slagschaduwgevoelige objecten. Wanneer de slagschaduwnorm dreigt overschreden te worden voor één van deze objecten, wordt de windturbine automatisch tot stilstand gebracht. De slagschaduwmodule registreert automatisch de slagschaduwduur en de duur van de stilstand voor elk relevant object. Zie ook Bijlage 1 voor meer informatie over deze module.

[5] Greenhouse mode: elk object wordt als een serre beschouwd waarbij de glaspartij altijd gericht is naar de (bewegende) zon. De berekening van de verwachte slagschaduw in greenhouse mode is niet geschikt om de effectieve slagschaduw ter hoogte van een specifiek object te beoordelen. De slagschaduw ter hoogte van een object hangt immers af van zeer specifieke, lokale omstandigheden en de maatregelen die getroffen worden tijdens de uitbating van de windturbine. Deze omstandigheden en maatregelen zijn niet beschreven in de greenhouse mode, dewelke door de "lege" omgeving en de "greenhouses" als objecten als een worst case benadering kan beschouwd worden..

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

7 Grensoverschrijdende effecten

Gezien de geplande windturbine van het project zich op circa 6,5 kilometer afstand van de grens met Nederland bevindt, is slagschaduw ten gevolge van de geplande turbine uitgesloten ter hoogte van receptoren die zich op Nederlands grondgebied bevinden.

Slagschaduw is (theoretisch) immers slechts tot circa 5,4 km afstand van de geplande windturbine mogelijk. In praktijk worden schaduwen al op kortere afstand diffuus en derhalve niet meer waarneembaar. Bovendien is het grondgebied van Nederland ten noorden van de geplande windturbine gelegen. Gezien de zon steeds vrij hoog aan de hemel staat als ze uit zuidelijke richtingen schijnt, treedt hogervermelde maximale schaduwafstand niet op ten noorden van de windturbine (maar eerder tussen NO en ZO of tussen ZW en NW). Receptoren die zich minstens 3,6 km noordelijker dan de geplande windturbine bevinden, ondervinden sowieso geen slagschaduw meer van de geplande turbine.

Indien we de cumulatieve effecten bekijken van alle in deze lokalisatienota bestudeerde relevante windturbines (bestaande en vergunde windturbines), dan kan eveneens gesteld worden dat slagschaduw van deze turbines uitgesloten is ter hoogte van receptoren die zich op Nederlands grondgebied bevinden.

Bovenstaande stemt ook overeen met de verwachting op basis van de isocontour van vier uur verwachte slagschaduw, zoals getoond in Figuur 5-2 en Figuur 5-8 (cumulatief – geplande situatie 1A en 1B), dewelke ruim binnen de grenzen van België blijft.

Er kan dan ook geconcludeerd worden dat in Nederland geen effect wordt verwacht, en er dus voor wat betreft slagschaduw geen grensoverschrijdende effecten richting Nederland zijn.

8 Conclusie

Om het effect van de windturbine op vlak van slagschaduw te bepalen, werd een slagschaduwmodellering uitgevoerd voor een aantal representatieve slagschaduwgevoelige objecten, conform de voorwaarden opgenomen in het addendum R20.1.6 van het omgevingsvergunningsbesluit. Voor zowel het project (KLZ-WT21), de geplande situatie 1 (A en B) en de geplande situatie 2 (A en B) kan besloten worden dat, zonder de toepassing van milderende maatregelen, de toepasselijke VLAREM II normen ter hoogte van sommige van de beschouwde receptoren niet gerespecteerd worden. De geplande windturbine veroorzaakt geen overschrijdingen van de dag- en jaarlimiet bij omliggende woningen. Voor enkele bedrijven, met name die rondom het Kluizendok; wordt de daglimiet wel overschreden door het project cumulatief met de bestaande windturbines. Voor de andere slagschaduwgevoelige objecten werden de dag- en jaarlimieten reeds overschreden door de omliggende bestaande windturbines. Het project veroorzaakt daar dus geen nieuwe overschrijdingen Milderende maatregelen op het project zijn noodzakelijk. De toepasselijke VLAREM II-normen kunnen ter hoogte van alle receptoren te allen tijde gerespecteerd worden door toepassing van een slagschaduwmodule. Hierdoor blijft eventuele hinder door slagschaduw beperkt tot een aanvaardbaar niveau. Luminus verbindt er zich derhalve toe de geplande windturbine uit te rusten met een slagschaduwmodule, zoals ook wordt vereist overeenkomstig de bepalingen van VLAREM II. Hierdoor kunnen de toepasselijke jaar- en daglimieten uit VLAREM II ter hoogte van alle receptoren te allen tijde gerespecteerd worden.

Bijlagen

Bijlage 1: Automatische stilstandsmodule

Doelstelling

Via een automatisch controlesysteem dat aanwezig is op de geplande windturbines, kan gegarandeerd worden dat de VLAREM-norm van 8 u/jaar (of 30 u/jaar) en 30 min/dag wordt gerespecteerd. De initiatiefnemer verbindt zich ertoe om voor de relevante gebouwen, gelegen binnen de 4h-contour van de geplande windturbines, de nodige mitigerende maatregelen te nemen opdat het aantal uren effectieve slagschaduw de VLAREM-norm niet zal overschrijden. De situatie wordt steeds cumulatief bekeken waardoor voor elke woning in de omgeving voldaan kan worden aan de van toepassing zijnde VLAREM-normen. De omgeving zal bijgevolg geen extra hinder ondervinden dan de van toepassing zijnde norm. Beschrijving automatisch managementsysteem voor slagschaduw (NorthTec systeem)

Input

Zowel de eventueel bestaande als de geplande windturbines worden opgeladen in het systeem op basis van GPSposities. Conform de VLAREM-regelgeving worden alle relevante slagschaduwgevoelige objecten gelegen binnen de 4u-slagschaduwcontour gedefinieerd en geprogrammeerd in het systeem. Elk slagschaduwgevoelig object wordt in detail gedefinieerd op basis van de oriëntatie en afmetingen van de ramen. De reden waarom in de VLAREM-normering wordt vertrokken van de 4u-slagschaduwcontour voor het bepalen van de slagschaduwgevoelige objecten (en niet de 8u-slagschaduwcontour) en de bepaling of er al dan niet een stilstandsmodule dient aanwezig te zijn op de windturbines, is op aangeven van de weerstatistieken.

Werking

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

- Aan de hand van vier verticaal opgestelde lichtsensoren, die telkens op een andere zijde van een kubus geplaatst worden, wordt continu het verschil in lichtintensiteit berekend voor die sensoren. Indien er direct zonlicht is, zal er ook schaduw zijn op minstens één van de sensoren. Op basis van het verschil in lichtintensiteit tussen de sensoren wordt bepaald of er al dan niet direct zonlicht, en dus kans op slagschaduw is.
- Het automatisch controlesysteem bepaalt op basis van de werkelijke stand van de zon welke gedefinieerde slagschaduwgevoelige objecten door de rotor van de windturbine(s) slagschaduw kunnen ontvangen. Indien er reeds bestaande windturbines aanwezig zijn in de omgeving, zullen deze in het systeem geprogrammeerd worden als steeds draaiende op momenten dat er slagschaduw kan optreden zoals hiervoor beschreven. De hoeveelheid slagschaduw die door deze bestaande windturbines op de gedefinieerde slagschaduwgevoelige objecten wordt geworpen, wordt door het systeem bepaald en dit voor alle gedefinieerde slagschaduwgevoelige objecten gelegen binnen de 4u-contour. Het controlesysteem van de geplande windturbines houdt hiermee rekening bij de bepaling van de hoeveelheid slagschaduw die deze geplande windturbines nog bijkomend op een slagschaduwgevoelig object mogen geven, zonder de norm te overschrijden. Vooraf wordt aan de hand van de slagschaduwkalenders van de bestaande en vergunde windturbines nagegaan tijdens welke periode van het jaar de slagschaduw van deze bestaande windturbines zal optreden waardoor er kan bepaald waar de geplande windturbines dienen rekening mee te houden. Het managementsysteem kan bij dergelijke situaties ingesteld worden met een ‘preload’ van aantal uren slagschaduw. Per slagschaduwgevoelig object wordt een niet te overschrijden norm ingesteld in het systeem. Deze voorafgaandelijke programmatie laat een optimale werking toe.

Een voorbeeld van een slagschaduwmanagementsysteem is het NorthTec systeem. Dit is een geavanceerd en betrouwbaar slagschaduwmanagementsysteem dat reeds in vele windenergieprojecten in België wordt toegepast. Dit systeem biedt garantie voor het respecteren van de VLAREM-slagschaduwnormen en maakt bovendien rapportering mogelijk. Het opleggen van een voorwaarde in de vergunning voor het implementeren van een slagschaduwmanagementsysteem waarbij rekening gehouden wordt met de nabijgelegen bestaande windturbines, zorgt voor de nodige garantie ten aanzien van het naleven van de normen.

Conclusie

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

Rapportering

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

Bijlage 2: Slagschaduwmodelleringen

Project:
WP Kluizendok v1

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+31 (0)88 4261 261

Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw - Windpark Armasteel - Project

Assumptions for shadow calculations

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

Sunshine probability S (Average daily sunshine hours) []

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

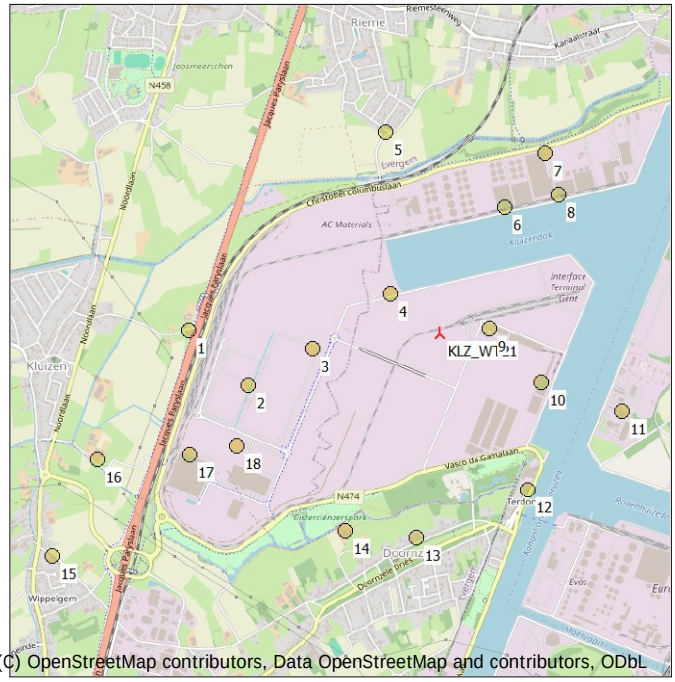
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

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



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL

Scale 1:50.000

New WTG Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
KLZ_WT21	108.099	205.347	10,0	KLZ_WT21 Armasteel	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	162,5	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	James Cookstraat 10, 9042 Gent	107.778	205.604	8,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Pelikaanstraat 60, 9940 Evergem	107.756	206.679	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 17, 9042 Gent	108.899	206.258	5,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Willem van Rubroeckstraat 26, 9042 Gent	108.776	205.017	5,7	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 14, 9940 Evergem	105.526	203.893	6,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw - Windpark Armasteel - Project

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case: Shadow hours per year [h/year]	Shadow, worst case: Shadow days per year [days/year]	Shadow, worst case: Max shadow hours per day [h/day]	Shadow, expected values: Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	10:00	32	0:25	2:36
2	Pachtgoederen 2, 9940 Evergem	22:05	53	0:33	6:33
3	Pachtgoederen 2, 9940 Evergem	47:20	76	0:49	13:47
4	James Cookstraat 10, 9042 Gent	142:35	119	1:33	28:24
5	Pelikaanstraat 60, 9940 Evergem	0:00	0	0:00	0:00
6	Christoffel Columbuslaan 23, 9042 Gent	44:31	68	0:47	7:37
7	Christoffel Columbuslaan 23, 9042 Gent	8:23	30	0:21	1:22
8	Christoffel Columbuslaan 17, 9042 Gent	43:29	82	0:37	7:33
9	Willem van Rubroeckstraat 2, 9042 Gent	269:28	172	1:51	76:37
10	Willem van Rubroeckstraat 26, 9042 Gent	57:14	75	0:56	14:06
11	Arbedkaai 3, 9042 Gent	38:40	96	0:33	9:36
12	Terdonkkaai 8, 9042 Gent	0:00	0	0:00	0:00
13	Doornzele Dries 107, 9940 Evergem	0:00	0	0:00	0:00
14	Abdijdreef 2, 9940 Evergem	0:00	0	0:00	0:00
15	Hageland 14, 9940 Evergem	4:52	36	0:13	1:31
16	Molendreef 5, 9940 Evergem	5:20	28	0:18	1:38
17	Amerigo Vespuccistraat 2A, 9940 Evergem	16:31	58	0:24	5:06
18	Pachtgoederen 1, 9940 Evergem	30:19	72	0:29	9:23

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

No.	Name	Worst case [h/year]	Expected [h/year]
KLZ_WT21	KLZ_WT21 Armasteel	691:31	173:34

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project
Assumptions for shadow calculations

Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February	March			April			May	June	July	August	September			October	November	December
1	08:50	08:24	07:32			07:23		07:53 (KLZ_WT21)	06:20	05:36	05:34	06:09	06:57			07:45	07:37	08:26
	16:48	17:35	18:25			20:17	24	08:17 (KLZ_WT21)	21:06	21:51	22:04	21:34	20:33			19:25	17:21	16:42
2	08:50	08:23	07:30			07:21		07:52 (KLZ_WT21)	06:18	05:36	05:35	06:11	06:59			07:46	07:38	08:27
	16:49	17:37	18:27			20:19	24	08:16 (KLZ_WT21)	21:08	21:52	22:04	21:32	20:31			19:23	17:19	16:42
3	08:49	08:21	07:28			07:19		07:52 (KLZ_WT21)	06:17	05:35	05:35	06:12	07:00			07:48	07:40	08:29
	16:50	17:38	18:28			20:20	23	08:15 (KLZ_WT21)	21:10	21:53	22:04	21:30	20:29			19:21	17:17	16:41
4	08:49	08:19	07:26			07:17		07:53 (KLZ_WT21)	06:15	05:34	05:36	06:14	07:02			07:49	07:42	08:30
	16:51	17:40	18:30			20:22	21	08:14 (KLZ_WT21)	21:11	21:54	22:03	21:29	20:27			19:19	17:16	16:40
5	08:49	08:18	07:24			07:14		07:54 (KLZ_WT21)	06:13	05:34	05:37	06:15	07:03		07:54 (KLZ_WT21)	07:51	07:44	08:31
	16:53	17:42	18:32			20:24	19	08:13 (KLZ_WT21)	21:13	21:55	22:03	21:27	20:24	10	08:04 (KLZ_WT21)	19:17	17:14	16:40
6	08:49	08:16	07:22			07:12		07:55 (KLZ_WT21)	06:11	05:33	05:38	06:17	07:05		07:51 (KLZ_WT21)	07:53	07:45	08:33
	16:54	17:44	18:33			20:25	15	08:10 (KLZ_WT21)	21:14	21:56	22:02	21:25	20:22	15	08:06 (KLZ_WT21)	19:14	17:12	16:40
7	08:48	08:15	07:19			07:10		07:57 (KLZ_WT21)	06:09	05:32	05:38	06:18	07:07		07:49 (KLZ_WT21)	07:54	07:47	08:34
	16:55	17:46	18:35			20:27	10	08:07 (KLZ_WT21)	21:16	21:57	22:02	21:24	20:20	19	08:08 (KLZ_WT21)	19:12	17:11	16:39
8	08:48	08:13	07:17			07:08			06:08	05:32	05:39	06:20	07:08		07:47 (KLZ_WT21)	07:56	07:49	08:35
	16:56	17:47	18:37			20:29			21:18	21:57	22:01	21:22	20:18	21	08:08 (KLZ_WT21)	19:10	17:09	16:39
9	08:48	08:11	07:15			07:06			06:06	05:31	05:40	06:21	07:10		07:47 (KLZ_WT21)	07:58	07:51	08:36
	16:58	17:49	18:39			20:30			21:19	21:58	22:00	21:20	20:16	22	08:09 (KLZ_WT21)	19:08	17:07	16:39
10	08:47	08:09	07:13			07:03			06:04	05:31	05:41	06:23	07:11		07:45 (KLZ_WT21)	07:59	07:52	08:37
	16:59	17:51	18:40			20:32			21:21	21:59	22:00	21:18	20:13	24	08:09 (KLZ_WT21)	19:05	17:06	16:38
11	08:47	08:08	07:11			07:01			06:03	05:31	05:42	06:24	07:13		07:45 (KLZ_WT21)	08:01	07:54	08:38
	17:00	17:53	18:42			20:34			21:22	22:00	21:59	21:16	20:11	24	08:09 (KLZ_WT21)	19:03	17:04	16:38
12	08:46	08:06	07:08			06:59			06:01	05:30	05:43	06:26	07:14		07:44 (KLZ_WT21)	08:02	07:56	08:39
	17:02	17:55	18:44			20:35			21:24	22:00	21:58	21:14	20:09	25	08:09 (KLZ_WT21)	19:01	17:03	16:38
13	08:45	08:04	07:06			06:57			06:00	05:30	05:44	06:27	07:16		07:44 (KLZ_WT21)	08:04	07:57	08:40
	17:03	17:56	18:45			20:37			21:25	22:01	21:57	21:13	20:06	25	08:09 (KLZ_WT21)	18:59	17:01	16:38
14	08:45	08:02	07:04			06:55			05:58	05:30	05:45	06:29	07:18		07:43 (KLZ_WT21)	08:06	07:59	08:41
	17:05	17:58	18:47			20:39			21:27	22:02	21:57	21:11	20:04	25	08:08 (KLZ_WT21)	18:57	17:00	16:38
15	08:44	08:00	07:02			06:53			05:56	05:30	05:47	06:30	07:19		07:44 (KLZ_WT21)	08:07	08:01	08:42
	17:06	18:00	18:49			20:40			21:28	22:02	21:56	21:09	20:02	23	08:07 (KLZ_WT21)	18:55	16:59	16:38
16	08:43	07:58	06:59			06:50			05:55	05:30	05:48	06:32	07:21		07:45 (KLZ_WT21)	08:09	08:03	08:43
	17:08	18:02	18:51			20:42			21:30	22:03	21:55	21:07	20:00	21	08:06 (KLZ_WT21)	18:53	16:57	16:38
17	08:42	07:57	06:57			06:48			05:54	05:30	05:49	06:34	07:22		07:47 (KLZ_WT21)	08:11	08:04	08:44
	17:09	18:04	18:52			20:43			21:31	22:03	21:54	21:05	19:57	18	08:05 (KLZ_WT21)	18:50	16:56	16:39
18	08:41	07:55	06:55			06:46			05:52	05:30	05:50	06:35	07:24		07:49 (KLZ_WT21)	08:13	08:06	08:45
	17:11	18:05	18:54			20:45			21:33	22:04	21:53	21:03	19:55	15	08:04 (KLZ_WT21)	18:48	16:55	16:39
19	08:40	07:53	06:53			06:44			05:51	05:30	05:51	06:37	07:25		07:50 (KLZ_WT21)	08:14	08:08	08:45
	17:12	18:07	18:56			20:47			21:34	22:04	21:51	21:01	19:53	11	08:01 (KLZ_WT21)	18:46	16:53	16:39
20	08:39	07:51	06:50			06:42			05:49	05:30	05:53	06:38	07:27		07:52 (KLZ_WT21)	08:16	08:09	08:46
	17:14	18:09	18:57			20:48			21:35	22:04	21:50	20:59	19:50	6	07:58 (KLZ_WT21)	18:44	16:52	16:39
21	08:38	07:49	06:48			06:40			05:48	05:30	05:54	06:40	07:29			08:18	08:11	08:47
	17:16	18:11	18:59			20:50			21:37	22:04	21:49	20:57	19:48			18:42	16:51	16:40
22	08:37	07:47	06:46			06:38			05:47	05:30	05:55	06:41	07:30			08:19	08:12	08:47
	17:17	18:12	19:01			20:52			21:38	22:05	21:48	20:55	19:46			18:40	16:50	16:40
23	08:36	07:45	06:44		07:06 (KLZ_WT21)	06:36			05:46	05:30	05:56	06:43	07:32			08:21	08:14	08:48
	17:19	18:14	19:02	4	07:10 (KLZ_WT21)	20:53			21:40	22:05	21:47	20:53	19:44			18:38	16:49	16:41
24	08:35	07:43	06:41		07:04 (KLZ_WT21)	06:34			05:44	05:31	05:58	06:45	07:33			08:23	08:16	08:48
	17:21	18:16	19:04	10	07:14 (KLZ_WT21)	20:55			21:41	22:05	21:45	20:51	19:41			18:36	16:48	16:41
25	08:34	07:41	06:39		07:01 (KLZ_WT21)	06:32			05:43	05:31	05:59	06:46	07:35			07:24	08:17	08:48
	17:22	18:18	19:06	14	07:15 (KLZ_WT21)	20:57			21:42	22:05	21:44	20:48	19:39			17:34	16:47	16:42
26	08:32	07:39	06:37		06:59 (KLZ_WT21)	06:30			05:42	05:31	06:01	06:48	07:37			07:26	08:19	08:49
	17:24	18:20	19:07	17	07:16 (KLZ_WT21)	20:58			21:43	22:05	21:43	20:46	19:37			17:32	16:46	16:43
27	08:31	07:36	06:35		06:57 (KLZ_WT21)	06:28			05:41	05:32	06:02	06:49	07:38			07:28	08:20	08:49
	17:26	18:21	19:09	20	07:17 (KLZ_WT21)	21:00			21:45	22:05	21:41	20:44	19:35			17:30	16:45	16:43
28	08:30	07:34	06:32		06:55 (KLZ_WT21)	06:26			05:40	05:32	06:03	06:51	07:40			07:30	08:22	08:49
	17:28	18:23	19:10	23	07:18 (KLZ_WT21)	21:01			21:46	22:05	21:40	20:42	19:32			17:28	16:44	16:44
29	08:28		07:30		07:53 (KLZ_WT21)	06:24			05:39	05:33	06:05	06:52	07:41			07:31	08:23	08:49
	17:29		20:12	24	08:17 (KLZ_WT21)	21:03			21:47	22:05	21:38	20:40	19:30			17:27	16:44	16:45
30	08:27		07:28		07:53 (KLZ_WT21)	06:22			05:38	05:33	06:06	06:54	07:43			07:33	08:25	08:50
	17:31		20:14	24	08:17 (KLZ_WT21)	21:05			21:48	22:05	21:37	20:38	19:28			17:25	16:43	16:46
31	08:26		07:26		07:53 (KLZ_WT21)				05:37		06:08	06:56				07:35		08:50
	17:33		20:15	24	08:17 (KLZ_WT21)				21:49		21:35	20:36				17:23		16:47
Potential sun hours	262	279	367			415			482	495	498	451	380			333	269	248
Total, worst case				160			136							304				
Sun reduction				0,38			0,46							0,43				
Oper. time red.				0,99			0,99							0,99				
Wind dir. red.				0,62			0,62							0,62				
Total reduction				0,23			0,28							0,27				
Total, real				37			39							81				

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

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February	March	April			May			June
1	08:50	08:24	07:32	07:23			06:20		06:55 (KLZ_WT21)	05:36
	16:48	17:35	18:25	20:17			21:06	33	07:28 (KLZ_WT21)	21:51
2	08:50	08:23	07:30	07:21			06:18		06:55 (KLZ_WT21)	05:36
	16:49	17:36	18:27	20:19			21:08	32	07:27 (KLZ_WT21)	21:52
3	08:49	08:21	07:28	07:19			06:17		06:56 (KLZ_WT21)	05:35
	16:50	17:38	18:28	20:20			21:10	32	07:28 (KLZ_WT21)	21:53
4	08:49	08:19	07:26	07:17			06:15		06:56 (KLZ_WT21)	05:34
	16:51	17:40	18:30	20:22			21:11	31	07:27 (KLZ_WT21)	21:54
5	08:49	08:18	07:24	07:14			06:13		06:56 (KLZ_WT21)	05:34
	16:53	17:42	18:32	20:24			21:13	30	07:26 (KLZ_WT21)	21:55
6	08:49	08:16	07:21	07:12			06:11		06:57 (KLZ_WT21)	05:33
	16:54	17:44	18:33	20:25			21:14	29	07:26 (KLZ_WT21)	21:56
7	08:48	08:15	07:19	07:10			06:09		06:57 (KLZ_WT21)	05:32
	16:55	17:45	18:35	20:27			21:16	28	07:25 (KLZ_WT21)	21:56
8	08:48	08:13	07:17	07:08			06:08		06:57 (KLZ_WT21)	05:32
	16:56	17:47	18:37	20:29			21:17	27	07:24 (KLZ_WT21)	21:57
9	08:48	08:11	07:15	07:06			06:06		06:58 (KLZ_WT21)	05:31
	16:58	17:49	18:39	20:30			21:19	25	07:23 (KLZ_WT21)	21:58
10	08:47	08:09	07:13	07:03			06:04		06:59 (KLZ_WT21)	05:31
	16:59	17:51	18:40	20:32			21:21	23	07:22 (KLZ_WT21)	21:59
11	08:46	08:08	07:11	07:01			06:03		07:00 (KLZ_WT21)	05:31
	17:00	17:53	18:42	20:34			21:22	21	07:21 (KLZ_WT21)	22:00
12	08:46	08:06	07:08	06:59			06:01		07:01 (KLZ_WT21)	05:30
	17:02	17:55	18:44	20:35			21:24	18	07:19 (KLZ_WT21)	22:00
13	08:45	08:04	07:06	06:57			06:00		07:03 (KLZ_WT21)	05:30
	17:03	17:56	18:45	20:37			21:25	14	07:17 (KLZ_WT21)	22:01
14	08:45	08:02	07:04	06:55			05:58		07:05 (KLZ_WT21)	05:30
	17:05	17:58	18:47	20:38			21:27	9	07:14 (KLZ_WT21)	22:02
15	08:44	08:00	07:02	06:53			05:56			05:30
	17:06	18:00	18:49	20:40			21:28			22:02
16	08:43	07:58	06:59	06:50			05:55			05:30
	17:08	18:02	18:50	20:42			21:30			22:03
17	08:42	07:57	06:57	06:48			05:54			05:30
	17:09	18:04	18:52	20:43			21:31			22:03
18	08:41	07:55	06:55	06:46			05:52			05:30
	17:11	18:05	18:54	20:45			21:33			22:03
19	08:40	07:53	06:53	06:44		07:10 (KLZ_WT21)	05:51			05:30
	17:12	18:07	18:56	20:47	9	07:19 (KLZ_WT21)	21:34			22:04
20	08:39	07:51	06:50	06:42		07:06 (KLZ_WT21)	05:49			05:30
	17:14	18:09	18:57	20:48	16	07:22 (KLZ_WT21)	21:35			22:04
21	08:38	07:49	06:48	06:40		07:04 (KLZ_WT21)	05:48			05:30
	17:16	18:11	18:59	20:50	20	07:24 (KLZ_WT21)	21:37			22:04
22	08:37	07:47	06:46	06:38		07:02 (KLZ_WT21)	05:47			05:30
	17:17	18:12	19:01	20:52	23	07:25 (KLZ_WT21)	21:38			22:05
23	08:36	07:45	06:44	06:36		07:01 (KLZ_WT21)	05:46			05:30
	17:19	18:14	19:02	20:53	25	07:26 (KLZ_WT21)	21:40			22:05
24	08:35	07:43	06:41	06:34		06:59 (KLZ_WT21)	05:44			05:31
	17:21	18:16	19:04	20:55	28	07:27 (KLZ_WT21)	21:41			22:05
25	08:34	07:41	06:39	06:32		06:58 (KLZ_WT21)	05:43			05:31
	17:22	18:18	19:05	20:57	29	07:27 (KLZ_WT21)	21:42			22:05
26	08:32	07:39	06:37	06:30		06:57 (KLZ_WT21)	05:42			05:31
	17:24	18:20	19:07	20:58	30	07:27 (KLZ_WT21)	21:43			22:05
27	08:31	07:36	06:35	06:28		06:56 (KLZ_WT21)	05:41			05:32
	17:26	18:21	19:09	21:00	31	07:27 (KLZ_WT21)	21:45			22:05
28	08:30	07:34	06:32	06:26		06:57 (KLZ_WT21)	05:40			05:32
	17:28	18:23	19:10	21:01	31	07:28 (KLZ_WT21)	21:46			22:05
29	08:28		07:30	06:24		06:56 (KLZ_WT21)	05:39			05:33
	17:29		20:12	21:03	32	07:28 (KLZ_WT21)	21:47			22:05
30	08:27		07:28	06:22		06:56 (KLZ_WT21)	05:38			05:33
	17:31		20:14	21:05	32	07:28 (KLZ_WT21)	21:48			22:04
31	08:26		07:26				05:37			
	17:33		20:15				21:49			
Potential sun hours	262	279	367	415			482			495
Total, worst case					306			352		
Sun reduction					0,46			0,46		
Oper. time red.					0,99			0,99		
Wind dir. red.					0,65			0,65		
Total reduction					0,30			0,29		
Total, real					91			103		

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

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	July			August			September	October	November	December
1	05:34			06:09		07:11 (KLZ_WT21)	06:57	07:44	07:37	08:26
	22:04			21:34	19	07:30 (KLZ_WT21)	20:33	19:25	17:21	16:42
2	05:35			06:11		07:10 (KLZ_WT21)	06:59	07:46	07:38	08:27
	22:04			21:32	22	07:32 (KLZ_WT21)	20:31	19:23	17:19	16:42
3	05:35			06:12		07:09 (KLZ_WT21)	07:00	07:48	07:40	08:29
	22:04			21:30	24	07:33 (KLZ_WT21)	20:29	19:21	17:17	16:41
4	05:36			06:14		07:08 (KLZ_WT21)	07:02	07:49	07:42	08:30
	22:03			21:29	25	07:33 (KLZ_WT21)	20:27	19:19	17:16	16:40
5	05:37			06:15		07:07 (KLZ_WT21)	07:03	07:51	07:44	08:31
	22:03			21:27	27	07:34 (KLZ_WT21)	20:24	19:16	17:14	16:40
6	05:38			06:17		07:06 (KLZ_WT21)	07:05	07:53	07:45	08:33
	22:02			21:25	29	07:35 (KLZ_WT21)	20:22	19:14	17:12	16:40
7	05:38			06:18		07:06 (KLZ_WT21)	07:07	07:54	07:47	08:34
	22:02			21:24	30	07:36 (KLZ_WT21)	20:20	19:12	17:11	16:39
8	05:39			06:20		07:05 (KLZ_WT21)	07:08	07:56	07:49	08:35
	22:01			21:22	31	07:36 (KLZ_WT21)	20:18	19:10	17:09	16:39
9	05:40			06:21		07:05 (KLZ_WT21)	07:10	07:58	07:50	08:36
	22:00			21:20	31	07:36 (KLZ_WT21)	20:15	19:08	17:07	16:39
10	05:41			06:23		07:04 (KLZ_WT21)	07:11	07:59	07:52	08:37
	22:00			21:18	32	07:36 (KLZ_WT21)	20:13	19:05	17:06	16:38
11	05:42			06:24		07:05 (KLZ_WT21)	07:13	08:01	07:54	08:38
	21:59			21:16	32	07:37 (KLZ_WT21)	20:11	19:03	17:04	16:38
12	05:43			06:26		07:04 (KLZ_WT21)	07:14	08:02	07:56	08:39
	21:58			21:14	32	07:36 (KLZ_WT21)	20:09	19:01	17:03	16:38
13	05:44			06:27		07:03 (KLZ_WT21)	07:16	08:04	07:57	08:40
	21:57			21:13	33	07:36 (KLZ_WT21)	20:06	18:59	17:01	16:38
14	05:45			06:29		07:04 (KLZ_WT21)	07:18	08:06	07:59	08:41
	21:56			21:11	32	07:36 (KLZ_WT21)	20:04	18:57	17:00	16:38
15	05:47			06:30		07:03 (KLZ_WT21)	07:19	08:07	08:01	08:42
	21:56			21:09	32	07:35 (KLZ_WT21)	20:02	18:55	16:59	16:38
16	05:48			06:32		07:04 (KLZ_WT21)	07:21	08:09	08:02	08:43
	21:55			21:07	31	07:35 (KLZ_WT21)	20:00	18:53	16:57	16:38
17	05:49			06:34		07:04 (KLZ_WT21)	07:22	08:11	08:04	08:44
	21:54			21:05	30	07:34 (KLZ_WT21)	19:57	18:50	16:56	16:39
18	05:50			06:35		07:05 (KLZ_WT21)	07:24	08:12	08:06	08:45
	21:52			21:03	29	07:34 (KLZ_WT21)	19:55	18:48	16:55	16:39
19	05:51			06:37		07:05 (KLZ_WT21)	07:25	08:14	08:08	08:45
	21:51			21:01	27	07:32 (KLZ_WT21)	19:53	18:46	16:53	16:39
20	05:53			06:38		07:06 (KLZ_WT21)	07:27	08:16	08:09	08:46
	21:50			20:59	25	07:31 (KLZ_WT21)	19:50	18:44	16:52	16:39
21	05:54			06:40		07:07 (KLZ_WT21)	07:29	08:18	08:11	08:47
	21:49			20:57	22	07:29 (KLZ_WT21)	19:48	18:42	16:51	16:40
22	05:55			06:41		07:09 (KLZ_WT21)	07:30	08:19	08:12	08:47
	21:48			20:55	19	07:28 (KLZ_WT21)	19:46	18:40	16:50	16:40
23	05:56			06:43		07:10 (KLZ_WT21)	07:32	08:21	08:14	08:48
	21:47			20:53	15	07:25 (KLZ_WT21)	19:44	18:38	16:49	16:41
24	05:58			06:45		07:14 (KLZ_WT21)	07:33	08:23	08:16	08:48
	21:45			20:50	8	07:22 (KLZ_WT21)	19:41	18:36	16:48	16:41
25	05:59			06:46			07:35	07:24	08:17	08:48
	21:44			20:48			19:39	17:34	16:47	16:42
26	06:01			06:48			07:36	07:26	08:19	08:49
	21:43			20:46			19:37	17:32	16:46	16:43
27	06:02			06:49			07:38	07:28	08:20	08:49
	21:41			20:44			19:35	17:30	16:45	16:43
28	06:03			06:51			07:40	07:30	08:22	08:49
	21:40			20:42			19:32	17:28	16:44	16:44
29	06:05		07:19 (KLZ_WT21)	06:52			07:41	07:31	08:23	08:49
	21:38	3	07:22 (KLZ_WT21)	20:40			19:30	17:27	16:44	16:45
30	06:06		07:15 (KLZ_WT21)	06:54			07:43	07:33	08:25	08:50
	21:37	11	07:26 (KLZ_WT21)	20:38			19:28	17:25	16:43	16:46
31	06:08		07:13 (KLZ_WT21)	06:56				07:35		08:50
	21:35	16	07:29 (KLZ_WT21)	20:35				17:23		16:47
Potential sun hours	498			451			380	333	269	248
Total, worst case		30			637					
Sun reduction		0,45			0,47					
Oper. time red.		0,99			0,99					
Wind dir. red.		0,65			0,65					
Total reduction		0,29			0,30					
Total, real		9			191					

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

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

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

Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January		February		March		April			May			June	
1	08:50		08:24		07:32		07:23			06:20		07:24 (KLZ_WT21)	05:36	
	16:48		17:35		18:25		20:17			21:06	45	08:09 (KLZ_WT21)	21:51	
2	08:50		08:23		07:30		07:21			06:18		07:24 (KLZ_WT21)	05:36	
	16:49		17:36		18:27		20:19			21:08	44	08:08 (KLZ_WT21)	21:52	
3	08:49		08:21		07:28		07:19			06:16		07:25 (KLZ_WT21)	05:35	
	16:50		17:38		18:28		20:20			21:10	43	08:08 (KLZ_WT21)	21:53	
4	08:49		08:19		07:26		07:17			06:15		07:25 (KLZ_WT21)	05:34	
	16:51		17:40		18:30		20:22			21:11	41	08:06 (KLZ_WT21)	21:54	
5	08:49		08:18		07:24		07:14			06:13		07:26 (KLZ_WT21)	05:34	
	16:53		17:42		18:32		20:24			21:13	39	08:05 (KLZ_WT21)	21:55	
6	08:49		08:16		07:21		07:12			06:11		07:27 (KLZ_WT21)	05:33	
	16:54		17:44		18:33		20:25			21:14	38	08:05 (KLZ_WT21)	21:56	
7	08:48		08:15		07:19		07:10		07:51 (KLZ_WT21)	06:09		07:28 (KLZ_WT21)	05:32	
	16:55		17:45		18:35		20:27	3	07:54 (KLZ_WT21)	21:16	35	08:03 (KLZ_WT21)	21:56	
8	08:48		08:13		07:17		07:08		07:44 (KLZ_WT21)	06:08		07:28 (KLZ_WT21)	05:32	
	16:56		17:47		18:37		20:29	17	08:01 (KLZ_WT21)	21:17	33	08:01 (KLZ_WT21)	21:57	
9	08:48		08:11		07:15		07:06		07:41 (KLZ_WT21)	06:06		07:30 (KLZ_WT21)	05:31	
	16:58		17:49		18:39		20:30	23	08:04 (KLZ_WT21)	21:19	30	08:00 (KLZ_WT21)	21:58	
10	08:47		08:09		07:13		07:03		07:38 (KLZ_WT21)	06:04		07:31 (KLZ_WT21)	05:31	
	16:59		17:51		18:40		20:32	28	08:06 (KLZ_WT21)	21:21	27	07:58 (KLZ_WT21)	21:59	
11	08:46		08:08		07:11		07:01		07:36 (KLZ_WT21)	06:03		07:33 (KLZ_WT21)	05:31	
	17:00		17:53		18:42		20:34	32	08:08 (KLZ_WT21)	21:22	24	07:57 (KLZ_WT21)	22:00	
12	08:46		08:06		07:08		06:59		07:33 (KLZ_WT21)	06:01		07:34 (KLZ_WT21)	05:30	
	17:02		17:55		18:44		20:35	35	08:08 (KLZ_WT21)	21:24	21	07:55 (KLZ_WT21)	22:00	
13	08:45		08:04		07:06		06:57		07:32 (KLZ_WT21)	05:59		07:37 (KLZ_WT21)	05:30	
	17:03		17:56		18:45		20:37	37	08:09 (KLZ_WT21)	21:25	16	07:53 (KLZ_WT21)	22:01	
14	08:44		08:02		07:04		06:55		07:30 (KLZ_WT21)	05:58		07:41 (KLZ_WT21)	05:30	
	17:05		17:58		18:47		20:38	40	08:10 (KLZ_WT21)	21:27	7	07:48 (KLZ_WT21)	22:02	
15	08:44		08:00		07:02		06:52		07:29 (KLZ_WT21)	05:56			05:30	
	17:06		18:00		18:49		20:40	42	08:11 (KLZ_WT21)	21:28			22:02	
16	08:43		07:58		06:59		06:50		07:28 (KLZ_WT21)	05:55			05:30	
	17:08		18:02		18:50		20:42	44	08:12 (KLZ_WT21)	21:30			22:03	
17	08:42		07:57		06:57		06:48		07:27 (KLZ_WT21)	05:54			05:30	
	17:09		18:04		18:52		20:43	45	08:12 (KLZ_WT21)	21:31			22:03	
18	08:41		07:55		06:55		06:46		07:26 (KLZ_WT21)	05:52			05:29	
	17:11		18:05		18:54		20:45	47	08:13 (KLZ_WT21)	21:33			22:03	
19	08:40		07:53		06:53		06:44		07:26 (KLZ_WT21)	05:51			05:30	
	17:12		18:07		18:55		20:47	47	08:13 (KLZ_WT21)	21:34			22:04	
20	08:39		07:51		06:50		06:42		07:25 (KLZ_WT21)	05:49			05:30	
	17:14		18:09		18:57		20:48	48	08:13 (KLZ_WT21)	21:35			22:04	
21	08:38		07:49		06:48		06:40		07:25 (KLZ_WT21)	05:48			05:30	
	17:16		18:11		18:59		20:50	48	08:13 (KLZ_WT21)	21:37			22:04	
22	08:37		07:47		06:46		06:38		07:24 (KLZ_WT21)	05:47			05:30	
	17:17		18:12		19:00		20:52	49	08:13 (KLZ_WT21)	21:38			22:05	
23	08:36		07:45		06:44		06:36		07:24 (KLZ_WT21)	05:46			05:30	
	17:19		18:14		19:02		20:53	49	08:13 (KLZ_WT21)	21:40			22:05	
24	08:35		07:43		06:41		06:34		07:23 (KLZ_WT21)	05:44			05:30	
	17:21		18:16		19:04		20:55	49	08:12 (KLZ_WT21)	21:41			22:05	
25	08:34		07:41		06:39		06:32		07:23 (KLZ_WT21)	05:43			05:31	
	17:22		18:18		19:05		20:57	49	08:12 (KLZ_WT21)	21:42			22:05	
26	08:32		07:38		06:37		06:30		07:23 (KLZ_WT21)	05:42			05:31	
	17:24		18:20		19:07		20:58	49	08:12 (KLZ_WT21)	21:43			22:05	
27	08:31		07:36		06:35		06:28		07:23 (KLZ_WT21)	05:41			05:32	
	17:26		18:21		19:09		21:00	48	08:11 (KLZ_WT21)	21:45			22:05	
28	08:30		07:34		06:32		06:26		07:23 (KLZ_WT21)	05:40			05:32	
	17:28		18:23		19:10		21:01	47	08:10 (KLZ_WT21)	21:46			22:05	
29	08:28				07:30		06:24		07:24 (KLZ_WT21)	05:39			05:33	
	17:29				20:12		21:03	47	08:11 (KLZ_WT21)	21:47			22:05	
30	08:27				07:28		06:22		07:24 (KLZ_WT21)	05:38			05:33	
	17:31				20:14		21:05	46	08:10 (KLZ_WT21)	21:48			22:04	
31	08:26				07:26					05:37				
	17:33				20:15					21:49				
Potential sun hours	262		279		367		415			482			495	
Total, worst case								969			443			
Sun reduction								0,46			0,46			
Oper. time red.								0,99			0,99			
Wind dir. red.								0,64			0,64			
Total reduction								0,29			0,29			
Total, real								283			127			

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

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

Licensed user:
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+31 (0)88 4261 261

Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	July			August			September			October	November	December
1	05:34			06:09		07:44 (KLZ_WT21)	06:57		07:35 (KLZ_WT21)	07:44	07:37	08:26
	22:04			21:34	22	08:06 (KLZ_WT21)	20:33	32	08:07 (KLZ_WT21)	19:25	17:21	16:42
2	05:34			06:11		07:43 (KLZ_WT21)	06:59		07:36 (KLZ_WT21)	07:46	07:38	08:27
	22:04			21:32	25	08:08 (KLZ_WT21)	20:31	28	08:04 (KLZ_WT21)	19:23	17:19	16:41
3	05:35			06:12		07:41 (KLZ_WT21)	07:00		07:39 (KLZ_WT21)	07:48	07:40	08:29
	22:04			21:30	29	08:10 (KLZ_WT21)	20:29	23	08:02 (KLZ_WT21)	19:21	17:17	16:41
4	05:36			06:14		07:39 (KLZ_WT21)	07:02		07:41 (KLZ_WT21)	07:49	07:42	08:30
	22:03			21:29	31	08:10 (KLZ_WT21)	20:27	17	07:58 (KLZ_WT21)	19:19	17:16	16:40
5	05:37			06:15		07:38 (KLZ_WT21)	07:03		07:48 (KLZ_WT21)	07:51	07:44	08:31
	22:03			21:27	34	08:12 (KLZ_WT21)	20:24	4	07:52 (KLZ_WT21)	19:16	17:14	16:40
6	05:38			06:17		07:37 (KLZ_WT21)	07:05			07:53	07:45	08:33
	22:02			21:25	36	08:13 (KLZ_WT21)	20:22			19:14	17:12	16:39
7	05:38			06:18		07:36 (KLZ_WT21)	07:07			07:54	07:47	08:34
	22:02			21:24	38	08:14 (KLZ_WT21)	20:20			19:12	17:11	16:39
8	05:39			06:20		07:35 (KLZ_WT21)	07:08			07:56	07:49	08:35
	22:01			21:22	40	08:15 (KLZ_WT21)	20:18			19:10	17:09	16:39
9	05:40			06:21		07:35 (KLZ_WT21)	07:10			07:57	07:50	08:36
	22:00			21:20	41	08:16 (KLZ_WT21)	20:15			19:08	17:07	16:39
10	05:41			06:23		07:34 (KLZ_WT21)	07:11			07:59	07:52	08:37
	22:00			21:18	42	08:16 (KLZ_WT21)	20:13			19:05	17:06	16:38
11	05:42			06:24		07:32 (KLZ_WT21)	07:13			08:01	07:54	08:38
	21:59			21:16	45	08:17 (KLZ_WT21)	20:11			19:03	17:04	16:38
12	05:43			06:26		07:32 (KLZ_WT21)	07:14			08:02	07:56	08:39
	21:58			21:14	46	08:18 (KLZ_WT21)	20:09			19:01	17:03	16:38
13	05:44			06:27		07:31 (KLZ_WT21)	07:16			08:04	07:57	08:40
	21:57			21:13	46	08:17 (KLZ_WT21)	20:06			18:59	17:01	16:38
14	05:45			06:29		07:31 (KLZ_WT21)	07:18			08:06	07:59	08:41
	21:56			21:11	47	08:18 (KLZ_WT21)	20:04			18:57	17:00	16:38
15	05:46			06:30		07:30 (KLZ_WT21)	07:19			08:07	08:01	08:42
	21:56			21:09	48	08:18 (KLZ_WT21)	20:02			18:55	16:59	16:38
16	05:48			06:32		07:30 (KLZ_WT21)	07:21			08:09	08:02	08:43
	21:55			21:07	49	08:19 (KLZ_WT21)	20:00			18:53	16:57	16:38
17	05:49			06:34		07:30 (KLZ_WT21)	07:22			08:11	08:04	08:44
	21:54			21:05	48	08:18 (KLZ_WT21)	19:57			18:50	16:56	16:38
18	05:50			06:35		07:30 (KLZ_WT21)	07:24			08:12	08:06	08:45
	21:52			21:03	49	08:19 (KLZ_WT21)	19:55			18:48	16:55	16:39
19	05:51			06:37		07:29 (KLZ_WT21)	07:25			08:14	08:07	08:45
	21:51			21:01	49	08:18 (KLZ_WT21)	19:53			18:46	16:53	16:39
20	05:53			06:38		07:29 (KLZ_WT21)	07:27			08:16	08:09	08:46
	21:50			20:59	49	08:18 (KLZ_WT21)	19:50			18:44	16:52	16:39
21	05:54			06:40		07:29 (KLZ_WT21)	07:29			08:18	08:11	08:47
	21:49			20:57	49	08:18 (KLZ_WT21)	19:48			18:42	16:51	16:40
22	05:55			06:41		07:29 (KLZ_WT21)	07:30			08:19	08:12	08:47
	21:48			20:55	49	08:18 (KLZ_WT21)	19:46			18:40	16:50	16:40
23	05:56			06:43		07:29 (KLZ_WT21)	07:32			08:21	08:14	08:48
	21:47			20:53	48	08:17 (KLZ_WT21)	19:44			18:38	16:49	16:41
24	05:58			06:45		07:30 (KLZ_WT21)	07:33			08:23	08:16	08:48
	21:45			20:50	47	08:17 (KLZ_WT21)	19:41			18:36	16:48	16:41
25	05:59			06:46		07:29 (KLZ_WT21)	07:35			07:24	08:17	08:48
	21:44			20:48	46	08:15 (KLZ_WT21)	19:39			17:34	16:47	16:42
26	06:00			06:48		07:30 (KLZ_WT21)	07:36			07:26	08:19	08:49
	21:43			20:46	45	08:15 (KLZ_WT21)	19:37			17:32	16:46	16:43
27	06:02			06:49		07:30 (KLZ_WT21)	07:38			07:28	08:20	08:49
	21:41			20:44	44	08:14 (KLZ_WT21)	19:34			17:30	16:45	16:43
28	06:03			06:51		07:31 (KLZ_WT21)	07:40			07:30	08:22	08:49
	21:40			20:42	42	08:13 (KLZ_WT21)	19:32			17:28	16:44	16:44
29	06:05			06:52		07:31 (KLZ_WT21)	07:41			07:31	08:23	08:49
	21:38			20:40	40	08:11 (KLZ_WT21)	19:30			17:27	16:44	16:45
30	06:06		07:49 (KLZ_WT21)	06:54		07:33 (KLZ_WT21)	07:43			07:33	08:25	08:50
	21:37	11	08:00 (KLZ_WT21)	20:38	37	08:10 (KLZ_WT21)	19:28			17:25	16:43	16:46
31	06:08		07:47 (KLZ_WT21)	06:56		07:33 (KLZ_WT21)				07:35		08:50
	21:35	17	08:04 (KLZ_WT21)	20:35	35	08:08 (KLZ_WT21)				17:23		16:47
Potential sun hours	498			451			380			333	269	248
Total, worst case		28			1296			104				
Sun reduction		0,45			0,47			0,43				
Oper. time red.		0,99			0,99			0,99				
Wind dir. red.		0,64			0,64			0,64				
Total reduction		0,28			0,29			0,27				
Total, real		8			381			28				

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

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

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

Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February			March			April			May	June
1	08:50	08:24			07:32		09:04 (KLZ_WT21)	07:23		10:09 (KLZ_WT21)	06:20	05:36
	16:48	17:35			18:25	90	10:34 (KLZ_WT21)	20:17	48	10:57 (KLZ_WT21)	21:06	21:51
2	08:50	08:23			07:30		09:03 (KLZ_WT21)	07:21		10:12 (KLZ_WT21)	06:18	05:36
	16:49	17:36			18:26	91	10:34 (KLZ_WT21)	20:19	42	10:54 (KLZ_WT21)	21:08	21:52
3	08:49	08:21			07:28		09:03 (KLZ_WT21)	07:19		10:14 (KLZ_WT21)	06:16	05:35
	16:50	17:38			18:28	91	10:34 (KLZ_WT21)	20:20	36	10:50 (KLZ_WT21)	21:09	21:53
4	08:49	08:19			07:26		09:03 (KLZ_WT21)	07:17		10:17 (KLZ_WT21)	06:15	05:34
	16:51	17:40			18:30	92	10:35 (KLZ_WT21)	20:22	29	10:46 (KLZ_WT21)	21:11	21:54
5	08:49	08:18			07:24		09:01 (KLZ_WT21)	07:14		10:23 (KLZ_WT21)	06:13	05:34
	16:53	17:42			18:32	93	10:34 (KLZ_WT21)	20:24	17	10:40 (KLZ_WT21)	21:13	21:55
6	08:49	08:16		09:40 (KLZ_WT21)	07:21		09:01 (KLZ_WT21)	07:12			06:11	05:33
	16:54	17:44	20	10:00 (KLZ_WT21)	18:33	93	10:34 (KLZ_WT21)	20:25			21:14	21:56
7	08:48	08:15		09:36 (KLZ_WT21)	07:19		09:01 (KLZ_WT21)	07:10			06:09	05:32
	16:55	17:45	29	10:05 (KLZ_WT21)	18:35	93	10:34 (KLZ_WT21)	20:27			21:16	21:56
8	08:48	08:13		09:33 (KLZ_WT21)	07:17		09:01 (KLZ_WT21)	07:08			06:08	05:32
	16:56	17:47	36	10:09 (KLZ_WT21)	18:37	93	10:34 (KLZ_WT21)	20:29			21:17	21:57
9	08:48	08:11		09:30 (KLZ_WT21)	07:15		09:01 (KLZ_WT21)	07:05			06:06	05:31
	16:58	17:49	42	10:12 (KLZ_WT21)	18:39	93	10:34 (KLZ_WT21)	20:30			21:19	21:58
10	08:47	08:09		09:28 (KLZ_WT21)	07:13		09:00 (KLZ_WT21)	07:03			06:04	05:31
	16:59	17:51	46	10:14 (KLZ_WT21)	18:40	92	10:32 (KLZ_WT21)	20:32			21:21	21:59
11	08:46	08:08		09:25 (KLZ_WT21)	07:10		09:00 (KLZ_WT21)	07:01			06:03	05:31
	17:00	17:53	51	10:16 (KLZ_WT21)	18:42	92	10:32 (KLZ_WT21)	20:34			21:22	22:00
12	08:46	08:06		09:23 (KLZ_WT21)	07:08		09:00 (KLZ_WT21)	06:59			06:01	05:30
	17:02	17:54	55	10:18 (KLZ_WT21)	18:44	92	10:32 (KLZ_WT21)	20:35			21:24	22:00
13	08:45	08:04		09:21 (KLZ_WT21)	07:06		09:00 (KLZ_WT21)	06:57			05:59	05:30
	17:03	17:56	59	10:20 (KLZ_WT21)	18:45	91	10:31 (KLZ_WT21)	20:37			21:25	22:01
14	08:44	08:02		09:19 (KLZ_WT21)	07:04		08:59 (KLZ_WT21)	06:55			05:58	05:30
	17:05	17:58	63	10:22 (KLZ_WT21)	18:47	91	10:30 (KLZ_WT21)	20:38			21:27	22:02
15	08:44	08:00		09:18 (KLZ_WT21)	07:02		08:59 (KLZ_WT21)	06:52			05:56	05:30
	17:06	18:00	65	10:23 (KLZ_WT21)	18:49	90	10:29 (KLZ_WT21)	20:40			21:28	22:02
16	08:43	07:58		09:16 (KLZ_WT21)	06:59		09:00 (KLZ_WT21)	06:50			05:55	05:30
	17:08	18:02	68	10:24 (KLZ_WT21)	18:50	89	10:29 (KLZ_WT21)	20:42			21:30	22:03
17	08:42	07:57		09:15 (KLZ_WT21)	06:57		08:59 (KLZ_WT21)	06:48			05:53	05:29
	17:09	18:03	71	10:26 (KLZ_WT21)	18:52	88	10:27 (KLZ_WT21)	20:43			21:31	22:03
18	08:41	07:55		09:14 (KLZ_WT21)	06:55		08:59 (KLZ_WT21)	06:46			05:52	05:29
	17:11	18:05	73	10:27 (KLZ_WT21)	18:54	87	10:26 (KLZ_WT21)	20:45			21:33	22:03
19	08:40	07:53		09:12 (KLZ_WT21)	06:53		09:00 (KLZ_WT21)	06:44			05:51	05:29
	17:12	18:07	76	10:28 (KLZ_WT21)	18:55	85	10:25 (KLZ_WT21)	20:47			21:34	22:04
20	08:39	07:51		09:11 (KLZ_WT21)	06:50		09:00 (KLZ_WT21)	06:42			05:49	05:30
	17:14	18:09	78	10:29 (KLZ_WT21)	18:57	84	10:24 (KLZ_WT21)	20:48			21:35	22:04
21	08:38	07:49		09:10 (KLZ_WT21)	06:48		09:00 (KLZ_WT21)	06:40			05:48	05:30
	17:16	18:11	80	10:30 (KLZ_WT21)	18:59	82	10:22 (KLZ_WT21)	20:50			21:37	22:04
22	08:37	07:47		09:09 (KLZ_WT21)	06:46		09:01 (KLZ_WT21)	06:38			05:47	05:30
	17:17	18:12	82	10:31 (KLZ_WT21)	19:00	79	10:20 (KLZ_WT21)	20:52			21:38	22:05
23	08:36	07:45		09:09 (KLZ_WT21)	06:44		09:01 (KLZ_WT21)	06:36			05:46	05:30
	17:19	18:14	82	10:31 (KLZ_WT21)	19:02	78	10:19 (KLZ_WT21)	20:53			21:40	22:05
24	08:35	07:43		09:08 (KLZ_WT21)	06:41		09:02 (KLZ_WT21)	06:34			05:44	05:30
	17:21	18:16	84	10:32 (KLZ_WT21)	19:04	76	10:18 (KLZ_WT21)	20:55			21:41	22:05
25	08:34	07:41		09:07 (KLZ_WT21)	06:39		09:02 (KLZ_WT21)	06:32			05:43	05:31
	17:22	18:18	86	10:33 (KLZ_WT21)	19:05	73	10:15 (KLZ_WT21)	20:56			21:42	22:05
26	08:32	07:38		09:06 (KLZ_WT21)	06:37		09:03 (KLZ_WT21)	06:30			05:42	05:31
	17:24	18:19	87	10:33 (KLZ_WT21)	19:07	70	10:13 (KLZ_WT21)	20:58			21:43	22:05
27	08:31	07:36		09:06 (KLZ_WT21)	06:35		09:04 (KLZ_WT21)	06:28			05:41	05:32
	17:26	18:21	88	10:34 (KLZ_WT21)	19:09	67	10:11 (KLZ_WT21)	21:00			21:45	22:05
28	08:30	07:34		09:04 (KLZ_WT21)	06:32		09:04 (KLZ_WT21)	06:26			05:40	05:32
	17:28	18:23	89	10:33 (KLZ_WT21)	19:10	64	10:08 (KLZ_WT21)	21:01			21:46	22:05
29	08:28				07:30		10:06 (KLZ_WT21)	06:24			05:39	05:33
	17:29				20:12	60	11:06 (KLZ_WT21)	21:03			21:47	22:05
30	08:27				07:28		10:07 (KLZ_WT21)	06:22			05:38	05:33
	17:31				20:14	56	11:03 (KLZ_WT21)	21:05			21:48	22:04
31	08:26				07:26		10:09 (KLZ_WT21)				05:37	
	17:33				20:15	52	11:01 (KLZ_WT21)				21:49	
Potential sun hours	262	279			367			415			482	495
Total, worst case			1510			2567			172			
Sun reduction			0,30			0,38			0,46			
Oper. time red.			0,99			0,99			0,99			
Wind dir. red.			0,54			0,54			0,54			
Total reduction			0,16			0,20			0,25			
Total, real			244			524			43			

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

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	July	August	September			October			November			December
1	05:34	06:09	06:57			07:44		09:39 (KLZ_WT21)	07:37		08:58 (KLZ_WT21)	08:26
	22:04	21:34	20:33			19:25	91	11:10 (KLZ_WT21)	17:21	46	09:44 (KLZ_WT21)	16:42
2	05:34	06:11	06:59			07:46		09:39 (KLZ_WT21)	07:38		09:00 (KLZ_WT21)	08:27
	22:04	21:32	20:31			19:23	92	11:11 (KLZ_WT21)	17:19	41	09:41 (KLZ_WT21)	16:41
3	05:35	06:12	07:00			07:48		09:38 (KLZ_WT21)	07:40		09:02 (KLZ_WT21)	08:29
	22:04	21:30	20:29			19:21	92	11:10 (KLZ_WT21)	17:17	35	09:37 (KLZ_WT21)	16:41
4	05:36	06:14	07:02			07:49		09:38 (KLZ_WT21)	07:42		09:06 (KLZ_WT21)	08:30
	22:03	21:29	20:27			19:19	93	11:11 (KLZ_WT21)	17:16	28	09:34 (KLZ_WT21)	16:40
5	05:37	06:15	07:03			07:51		09:38 (KLZ_WT21)	07:44		09:11 (KLZ_WT21)	08:31
	22:03	21:27	20:24			19:16	93	11:11 (KLZ_WT21)	17:14	18	09:29 (KLZ_WT21)	16:40
6	05:37	06:17	07:05			07:53		09:37 (KLZ_WT21)	07:45			08:33
	22:02	21:25	20:22			19:14	93	11:10 (KLZ_WT21)	17:12			16:39
7	05:38	06:18	07:07		10:18 (KLZ_WT21)	07:54		09:37 (KLZ_WT21)	07:47			08:34
	22:02	21:24	20:20	16	10:34 (KLZ_WT21)	19:12	93	11:10 (KLZ_WT21)	17:11			16:39
8	05:39	06:20	07:08		10:12 (KLZ_WT21)	07:56		09:37 (KLZ_WT21)	07:49			08:35
	22:01	21:22	20:18	28	10:40 (KLZ_WT21)	19:10	93	11:10 (KLZ_WT21)	17:09			16:39
9	05:40	06:21	07:10		10:09 (KLZ_WT21)	07:57		09:37 (KLZ_WT21)	07:50			08:36
	22:00	21:20	20:15	35	10:44 (KLZ_WT21)	19:08	92	11:09 (KLZ_WT21)	17:07			16:39
10	05:41	06:23	07:11		10:05 (KLZ_WT21)	07:59		09:37 (KLZ_WT21)	07:52			08:37
	22:00	21:18	20:13	42	10:47 (KLZ_WT21)	19:05	92	11:09 (KLZ_WT21)	17:06			16:38
11	05:42	06:24	07:13		10:03 (KLZ_WT21)	08:01		09:37 (KLZ_WT21)	07:54			08:38
	21:59	21:16	20:11	47	10:50 (KLZ_WT21)	19:03	91	11:08 (KLZ_WT21)	17:04			16:38
12	05:43	06:26	07:14		10:00 (KLZ_WT21)	08:02		09:38 (KLZ_WT21)	07:56			08:39
	21:58	21:14	20:09	52	10:52 (KLZ_WT21)	19:01	90	11:08 (KLZ_WT21)	17:03			16:38
13	05:44	06:27	07:16		09:58 (KLZ_WT21)	08:04		09:37 (KLZ_WT21)	07:57			08:40
	21:57	21:13	20:06	56	10:54 (KLZ_WT21)	18:59	90	11:07 (KLZ_WT21)	17:01			16:38
14	05:45	06:29	07:17		09:56 (KLZ_WT21)	08:06		09:38 (KLZ_WT21)	07:59			08:41
	21:56	21:11	20:04	60	10:56 (KLZ_WT21)	18:57	88	11:06 (KLZ_WT21)	17:00			16:38
15	05:46	06:30	07:19		09:55 (KLZ_WT21)	08:07		09:38 (KLZ_WT21)	08:01			08:42
	21:56	21:09	20:02	63	10:58 (KLZ_WT21)	18:55	88	11:06 (KLZ_WT21)	16:59			16:38
16	05:48	06:32	07:21		09:53 (KLZ_WT21)	08:09		09:38 (KLZ_WT21)	08:02			08:43
	21:55	21:07	20:00	66	10:59 (KLZ_WT21)	18:52	86	11:04 (KLZ_WT21)	16:57			16:38
17	05:49	06:34	07:22		09:52 (KLZ_WT21)	08:11		09:39 (KLZ_WT21)	08:04			08:44
	21:54	21:05	19:57	69	11:01 (KLZ_WT21)	18:50	85	11:04 (KLZ_WT21)	16:56			16:38
18	05:50	06:35	07:24		09:50 (KLZ_WT21)	08:12		09:39 (KLZ_WT21)	08:06			08:45
	21:52	21:03	19:55	72	11:02 (KLZ_WT21)	18:48	84	11:03 (KLZ_WT21)	16:55			16:39
19	05:51	06:37	07:25		09:49 (KLZ_WT21)	08:14		09:40 (KLZ_WT21)	08:07			08:45
	21:51	21:01	19:53	75	11:04 (KLZ_WT21)	18:46	82	11:02 (KLZ_WT21)	16:53			16:39
20	05:52	06:38	07:27		09:48 (KLZ_WT21)	08:16		09:41 (KLZ_WT21)	08:09			08:46
	21:50	20:59	19:50	77	11:05 (KLZ_WT21)	18:44	81	11:02 (KLZ_WT21)	16:52			16:39
21	05:54	06:40	07:28		09:46 (KLZ_WT21)	08:18		09:41 (KLZ_WT21)	08:11			08:47
	21:49	20:57	19:48	80	11:06 (KLZ_WT21)	18:42	79	11:00 (KLZ_WT21)	16:51			16:40
22	05:55	06:41	07:30		09:46 (KLZ_WT21)	08:19		09:42 (KLZ_WT21)	08:12			08:47
	21:48	20:55	19:46	81	11:07 (KLZ_WT21)	18:40	77	10:59 (KLZ_WT21)	16:50			16:40
23	05:56	06:43	07:32		09:44 (KLZ_WT21)	08:21		09:43 (KLZ_WT21)	08:14			08:48
	21:47	20:53	19:44	83	11:07 (KLZ_WT21)	18:38	75	10:58 (KLZ_WT21)	16:49			16:41
24	05:58	06:45	07:33		09:44 (KLZ_WT21)	08:23		09:44 (KLZ_WT21)	08:16			08:48
	21:45	20:50	19:41	84	11:08 (KLZ_WT21)	18:36	73	10:57 (KLZ_WT21)	16:48			16:41
25	05:59	06:46	07:35		09:42 (KLZ_WT21)	07:24		08:46 (KLZ_WT21)	08:17			08:48
	21:44	20:48	19:39	86	11:08 (KLZ_WT21)	17:34	70	09:56 (KLZ_WT21)	16:47			16:42
26	06:00	06:48	07:36		09:42 (KLZ_WT21)	07:26		08:47 (KLZ_WT21)	08:19			08:49
	21:43	20:46	19:37	87	11:09 (KLZ_WT21)	17:32	68	09:55 (KLZ_WT21)	16:46			16:43
27	06:02	06:49	07:38		09:42 (KLZ_WT21)	07:28		08:48 (KLZ_WT21)	08:20			08:49
	21:41	20:44	19:34	88	11:10 (KLZ_WT21)	17:30	64	09:52 (KLZ_WT21)	16:45			16:43
28	06:03	06:51	07:40		09:40 (KLZ_WT21)	07:30		08:49 (KLZ_WT21)	08:22			08:49
	21:40	20:42	19:32	90	11:10 (KLZ_WT21)	17:28	62	09:51 (KLZ_WT21)	16:44			16:44
29	06:05	06:52	07:41		09:40 (KLZ_WT21)	07:31		08:51 (KLZ_WT21)	08:23			08:49
	21:38	20:40	19:30	90	11:10 (KLZ_WT21)	17:26	58	09:49 (KLZ_WT21)	16:43			16:45
30	06:06	06:54	07:43		09:39 (KLZ_WT21)	07:33		08:53 (KLZ_WT21)	08:25			08:50
	21:37	20:38	19:28	91	11:10 (KLZ_WT21)	17:25	55	09:48 (KLZ_WT21)	16:43			16:46
31	06:08	06:56				07:35		08:56 (KLZ_WT21)				08:50
	21:35	20:35				17:23	50	09:46 (KLZ_WT21)				16:47
Potential sun hours	498	452	380			333			269			248
Total, worst case				1618			2520			168		
Sun reduction				0,43			0,36			0,27		
Oper. time red.				0,99			0,99			0,99		
Wind dir. red.				0,54			0,54			0,54		
Total reduction				0,23			0,20			0,14		
Total, real				377			492			24		

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project Assumptions for shadow calculations

Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

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

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

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

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project Assumptions for shadow calculations

Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January			February	March	April	May	June	July	August	September	October	November			December		
1	08:50		14:26 (KLZ_WT21)	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36			08:26		14:14 (KLZ_WT21)
	16:48	46	15:12 (KLZ_WT21)	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21			16:42	42	14:56 (KLZ_WT21)
2	08:50		14:27 (KLZ_WT21)	08:23	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46	07:38			08:27		14:15 (KLZ_WT21)
	16:49	45	15:12 (KLZ_WT21)	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19			16:41	42	14:57 (KLZ_WT21)
3	08:49		14:28 (KLZ_WT21)	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40			08:29		14:15 (KLZ_WT21)
	16:50	45	15:13 (KLZ_WT21)	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17			16:41	42	14:57 (KLZ_WT21)
4	08:49		14:28 (KLZ_WT21)	08:19	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42			08:30		14:15 (KLZ_WT21)
	16:51	45	15:13 (KLZ_WT21)	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16			16:40	43	14:58 (KLZ_WT21)
5	08:49		14:29 (KLZ_WT21)	08:18	07:24	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:43			08:31		14:15 (KLZ_WT21)
	16:52	44	15:13 (KLZ_WT21)	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14			16:40	44	14:59 (KLZ_WT21)
6	08:49		14:29 (KLZ_WT21)	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:53	07:45			08:33		14:15 (KLZ_WT21)
	16:54	44	15:13 (KLZ_WT21)	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12			16:39	44	14:59 (KLZ_WT21)
7	08:48		14:30 (KLZ_WT21)	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47			08:34		14:16 (KLZ_WT21)
	16:55	44	15:14 (KLZ_WT21)	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11			16:39	44	15:00 (KLZ_WT21)
8	08:48		14:30 (KLZ_WT21)	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49			08:35		14:16 (KLZ_WT21)
	16:56	43	15:13 (KLZ_WT21)	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09			16:39	45	15:01 (KLZ_WT21)
9	08:47		14:31 (KLZ_WT21)	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50			08:36		14:16 (KLZ_WT21)
	16:57	43	15:14 (KLZ_WT21)	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07			16:38	45	15:01 (KLZ_WT21)
10	08:47		14:32 (KLZ_WT21)	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52			08:37		14:16 (KLZ_WT21)
	16:59	42	15:14 (KLZ_WT21)	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06			16:38	45	15:01 (KLZ_WT21)
11	08:46		14:32 (KLZ_WT21)	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54			08:38		14:16 (KLZ_WT21)
	17:00	42	15:14 (KLZ_WT21)	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04			16:38	46	15:02 (KLZ_WT21)
12	08:46		14:34 (KLZ_WT21)	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56			08:39		14:16 (KLZ_WT21)
	17:02	40	15:14 (KLZ_WT21)	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03			16:38	46	15:02 (KLZ_WT21)
13	08:45		14:35 (KLZ_WT21)	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57			08:40		14:17 (KLZ_WT21)
	17:03	39	15:14 (KLZ_WT21)	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01			16:38	46	15:03 (KLZ_WT21)
14	08:44		14:35 (KLZ_WT21)	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59			08:41		14:17 (KLZ_WT21)
	17:05	39	15:14 (KLZ_WT21)	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00			16:38	46	15:03 (KLZ_WT21)
15	08:44		14:36 (KLZ_WT21)	08:00	07:02	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01			08:42		14:18 (KLZ_WT21)
	17:06	38	15:14 (KLZ_WT21)	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58			16:38	46	15:04 (KLZ_WT21)
16	08:43		14:37 (KLZ_WT21)	07:58	06:59	06:50	05:55	05:29	05:48	06:32	07:21	08:09	08:02			08:43		14:18 (KLZ_WT21)
	17:08	36	15:13 (KLZ_WT21)	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57			16:38	47	15:05 (KLZ_WT21)
17	08:42		14:39 (KLZ_WT21)	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04			08:44		14:19 (KLZ_WT21)
	17:09	34	15:13 (KLZ_WT21)	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56			16:38	46	15:05 (KLZ_WT21)
18	08:41		14:40 (KLZ_WT21)	07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06		14:27 (KLZ_WT21)	08:45		14:19 (KLZ_WT21)
	17:11	33	15:13 (KLZ_WT21)	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	10	14:37 (KLZ_WT21)	16:39	46	15:05 (KLZ_WT21)
19	08:40		14:42 (KLZ_WT21)	07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:07		14:24 (KLZ_WT21)	08:45		14:19 (KLZ_WT21)
	17:12	30	15:12 (KLZ_WT21)	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	17	14:41 (KLZ_WT21)	16:39	47	15:06 (KLZ_WT21)
20	08:39		14:43 (KLZ_WT21)	07:51	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09		14:22 (KLZ_WT21)	08:46		14:20 (KLZ_WT21)
	17:14	28	15:11 (KLZ_WT21)	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	21	14:43 (KLZ_WT21)	16:39	47	15:07 (KLZ_WT21)
21	08:38		14:44 (KLZ_WT21)	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11		14:20 (KLZ_WT21)	08:47		14:20 (KLZ_WT21)
	17:16	25	15:09 (KLZ_WT21)	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	25	14:45 (KLZ_WT21)	16:40	47	15:07 (KLZ_WT21)
22	08:37		14:47 (KLZ_WT21)	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12		14:19 (KLZ_WT21)	08:47		14:21 (KLZ_WT21)
	17:17	21	15:08 (KLZ_WT21)	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	28	14:47 (KLZ_WT21)	16:40	47	15:08 (KLZ_WT21)
23	08:36		14:50 (KLZ_WT21)	07:45	06:44	06:36	05:45	05:30	05:56	06:43	07:32	08:21	08:14		14:18 (KLZ_WT21)	08:48		14:21 (KLZ_WT21)
	17:19	17	15:07 (KLZ_WT21)	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:44	18:38	16:49	30	14:48 (KLZ_WT21)	16:41	47	15:08 (KLZ_WT21)
24	08:35		14:53 (KLZ_WT21)	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16		14:17 (KLZ_WT21)	08:48		14:21 (KLZ_WT21)
	17:21	10	15:03 (KLZ_WT21)	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	33	14:50 (KLZ_WT21)	16:41	47	15:08 (KLZ_WT21)
25	08:34			07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17		14:17 (KLZ_WT21)	08:48		14:23 (KLZ_WT21)
	17:22			18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	34	14:51 (KLZ_WT21)	16:42	46	15:09 (KLZ_WT21)
26	08:32			07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19		14:16 (KLZ_WT21)	08:49		14:23 (KLZ_WT21)
	17:24			18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	35	14:51 (KLZ_WT21)	16:43	46	15:09 (KLZ_WT21)
27	08:31			07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20		14:15 (KLZ_WT21)	08:49		14:23 (KLZ_WT21)
	17:26			18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	38	14:53 (KLZ_WT21)	16:43	47	15:10 (KLZ_WT21)
28	08:30			07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22		14:16 (KLZ_WT21)	08:49		14:24 (KLZ_WT21)
	17:28			18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	38	14:54 (KLZ_WT21)	16:44	46	15:10 (KLZ_WT21)
29	08:28				07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23		14:15 (KLZ_WT21)	08:49		14:24 (KLZ_WT21)
	17:29				20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	39	14:54 (KLZ_WT21)	16:45	46	15:10 (KLZ_WT21)
30	08:27				07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25		14:15 (KLZ_WT21)	08:50		14:25 (KLZ_WT21)
	17:31				20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	40	14:55 (KLZ_WT21)	16:46	46	15:11 (KLZ_WT21)
31	08:25				07:25		05:37		06:08	06:55		07:35				08:50		14:25 (KLZ_WT21)
	17:33				20:15		21:49		21:35	20:35		17:23				16:47	46	15:11 (KLZ_WT21)
Potential sun hours	262			279	367	415	482	495	498	452	380	333	269			248		
Total, worst case		873												388			1410	
Sun reduction		0,25												0,27			0,23	
Oper. time red.		0,99												0,99			0,99	
Wind dir. red.		0,73												0,73			0,73	
Total reduction		0,18												0,19			0,16	
Total, real		155												74			228	

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

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

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

Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project Assumptions for shadow calculations

Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January			February	March	April	May	June	July	August	September	October	November	December		
1	08:50		14:58 (KLZ_WT21)	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26		
	16:48	16	15:14 (KLZ_WT21)	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42		
2	08:50		15:00 (KLZ_WT21)	08:22	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46	07:38	08:27		
	16:49	14	15:14 (KLZ_WT21)	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41		
3	08:49		15:01 (KLZ_WT21)	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29		
	16:50	12	15:13 (KLZ_WT21)	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41		
4	08:49		15:03 (KLZ_WT21)	08:19	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30		
	16:51	9	15:12 (KLZ_WT21)	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40		
5	08:49		15:06 (KLZ_WT21)	08:18	07:24	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:43	08:31		
	16:52	5	15:11 (KLZ_WT21)	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40		
6	08:49			08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33		
	16:54			17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39		
7	08:48			08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34		14:53 (KLZ_WT21)
	16:55			17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11	16:39	4	14:57 (KLZ_WT21)
8	08:48			08:13	07:17	07:08	06:08	05:32	05:39	06:19	07:08	07:56	07:49	08:35		14:51 (KLZ_WT21)
	16:56			17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39	9	15:00 (KLZ_WT21)
9	08:47			08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36		14:50 (KLZ_WT21)
	16:57			17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:38	11	15:01 (KLZ_WT21)
10	08:47			08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37		14:49 (KLZ_WT21)
	16:59			17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38	14	15:03 (KLZ_WT21)
11	08:46			08:08	07:10	07:01	06:03	05:30	05:42	06:24	07:13	08:01	07:54	08:38		14:48 (KLZ_WT21)
	17:00			17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38	16	15:04 (KLZ_WT21)
12	08:46			08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39		14:48 (KLZ_WT21)
	17:02			17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38	17	15:05 (KLZ_WT21)
13	08:45			08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40		14:48 (KLZ_WT21)
	17:03			17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38	18	15:06 (KLZ_WT21)
14	08:44			08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41		14:48 (KLZ_WT21)
	17:05			17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38	19	15:07 (KLZ_WT21)
15	08:44			08:00	07:02	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01	08:42		14:48 (KLZ_WT21)
	17:06			18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58	16:38	19	15:07 (KLZ_WT21)
16	08:43			07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:21	08:09	08:02	08:43		14:48 (KLZ_WT21)
	17:08			18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38	20	15:08 (KLZ_WT21)
17	08:42			07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:44		14:49 (KLZ_WT21)
	17:09			18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38	20	15:09 (KLZ_WT21)
18	08:41			07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45		14:48 (KLZ_WT21)
	17:11			18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	16:39	21	15:09 (KLZ_WT21)
19	08:40			07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:07	08:45		14:49 (KLZ_WT21)
	17:12			18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39	21	15:10 (KLZ_WT21)
20	08:39			07:51	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46		14:50 (KLZ_WT21)
	17:14			18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39	21	15:11 (KLZ_WT21)
21	08:38			07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11	08:47		14:50 (KLZ_WT21)
	17:16			18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40	21	15:11 (KLZ_WT21)
22	08:37			07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47		14:51 (KLZ_WT21)
	17:17			18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40	21	15:12 (KLZ_WT21)
23	08:36			07:45	06:43	06:36	05:45	05:30	05:56	06:43	07:32	08:21	08:14	08:48		14:51 (KLZ_WT21)
	17:19			18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41	21	15:12 (KLZ_WT21)
24	08:35			07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16	08:48		14:51 (KLZ_WT21)
	17:21			18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41	21	15:12 (KLZ_WT21)
25	08:34			07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48		14:52 (KLZ_WT21)
	17:22			18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42	21	15:13 (KLZ_WT21)
26	08:32			07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19	08:49		14:53 (KLZ_WT21)
	17:24			18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43	20	15:13 (KLZ_WT21)
27	08:31			07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49		14:53 (KLZ_WT21)
	17:26			18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43	20	15:13 (KLZ_WT21)
28	08:30			07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49		14:54 (KLZ_WT21)
	17:27			18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44	19	15:13 (KLZ_WT21)
29	08:28				07:30	06:24	05:39	05:32	06:05	06:52	07:41	07:31	08:23	08:49		14:55 (KLZ_WT21)
	17:29				20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45	18	15:13 (KLZ_WT21)
30	08:27				07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:50		14:56 (KLZ_WT21)
	17:31				20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46	18	15:14 (KLZ_WT21)
31	08:25				07:25		05:37		06:07	06:55		07:35		08:50		14:57 (KLZ_WT21)
	17:33				20:15		21:49		21:35	20:35		17:23		16:47	17	15:14 (KLZ_WT21)
Potential sun hours	262			279	367	415	482	495	498	452	380	333	269	248		
Total, worst case		56													447	
Sun reduction		0,25													0,23	
Oper. time red.		0,99													0,99	
Wind dir. red.		0,73													0,73	
Total reduction		0,18													0,16	
Total, real		10													72	

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

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

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

Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January			February	March	April	May	June	July	August	September	October	November			December		
1	08:50		15:27 (KLZ_WT21)	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36			08:26		15:12 (KLZ_WT21)
	16:48	34	16:01 (KLZ_WT21)	17:35	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21			16:42	36	15:48 (KLZ_WT21)
2	08:50		15:27 (KLZ_WT21)	08:22	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46	07:38			08:27		15:13 (KLZ_WT21)
	16:49	34	16:01 (KLZ_WT21)	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19			16:41	36	15:49 (KLZ_WT21)
3	08:49		15:28 (KLZ_WT21)	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40			08:29		15:13 (KLZ_WT21)
	16:50	34	16:02 (KLZ_WT21)	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17			16:41	35	15:48 (KLZ_WT21)
4	08:49		15:28 (KLZ_WT21)	08:19	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42			08:30		15:14 (KLZ_WT21)
	16:51	34	16:02 (KLZ_WT21)	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16			16:40	35	15:49 (KLZ_WT21)
5	08:49		15:28 (KLZ_WT21)	08:18	07:24	07:14	06:13	05:33	05:37	06:15	07:03	07:51	07:43			08:31		15:14 (KLZ_WT21)
	16:52	35	16:03 (KLZ_WT21)	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14			16:40	35	15:49 (KLZ_WT21)
6	08:49		15:28 (KLZ_WT21)	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45			08:33		15:14 (KLZ_WT21)
	16:54	35	16:03 (KLZ_WT21)	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12			16:39	35	15:49 (KLZ_WT21)
7	08:48		15:29 (KLZ_WT21)	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47			08:34		15:15 (KLZ_WT21)
	16:55	35	16:04 (KLZ_WT21)	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:11			16:39	35	15:50 (KLZ_WT21)
8	08:48		15:29 (KLZ_WT21)	08:13	07:17	07:08	06:08	05:32	05:39	06:19	07:08	07:56	07:49			08:35		15:16 (KLZ_WT21)
	16:56	35	16:04 (KLZ_WT21)	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09			16:39	34	15:50 (KLZ_WT21)
9	08:47		15:30 (KLZ_WT21)	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50			08:36		15:16 (KLZ_WT21)
	16:57	35	16:05 (KLZ_WT21)	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07			16:38	34	15:50 (KLZ_WT21)
10	08:47		15:29 (KLZ_WT21)	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52			08:37		15:16 (KLZ_WT21)
	16:59	37	16:06 (KLZ_WT21)	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06			16:38	34	15:50 (KLZ_WT21)
11	08:46		15:30 (KLZ_WT21)	08:08	07:10	07:01	06:03	05:30	05:42	06:24	07:13	08:01	07:54		15:22 (KLZ_WT21)	08:38		15:17 (KLZ_WT21)
	17:00	36	16:06 (KLZ_WT21)	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	9	15:31 (KLZ_WT21)	16:38	34	15:51 (KLZ_WT21)
12	08:46		15:30 (KLZ_WT21)	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56		15:18 (KLZ_WT21)	08:39		15:17 (KLZ_WT21)
	17:02	36	16:06 (KLZ_WT21)	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	15	15:33 (KLZ_WT21)	16:38	34	15:51 (KLZ_WT21)
13	08:45		15:31 (KLZ_WT21)	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57		15:16 (KLZ_WT21)	08:40		15:18 (KLZ_WT21)
	17:03	36	16:07 (KLZ_WT21)	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	19	15:35 (KLZ_WT21)	16:38	33	15:51 (KLZ_WT21)
14	08:44		15:31 (KLZ_WT21)	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59		15:14 (KLZ_WT21)	08:41		15:19 (KLZ_WT21)
	17:05	36	16:07 (KLZ_WT21)	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	23	15:37 (KLZ_WT21)	16:38	33	15:52 (KLZ_WT21)
15	08:44		15:32 (KLZ_WT21)	08:00	07:02	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01		15:13 (KLZ_WT21)	08:42		15:19 (KLZ_WT21)
	17:06	36	16:08 (KLZ_WT21)	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:58	26	15:39 (KLZ_WT21)	16:38	33	15:52 (KLZ_WT21)
16	08:43		15:32 (KLZ_WT21)	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:21	08:09	08:02		15:13 (KLZ_WT21)	08:43		15:20 (KLZ_WT21)
	17:08	36	16:08 (KLZ_WT21)	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	27	15:40 (KLZ_WT21)	16:38	33	15:53 (KLZ_WT21)
17	08:42		15:32 (KLZ_WT21)	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04		15:12 (KLZ_WT21)	08:44		15:21 (KLZ_WT21)
	17:09	36	16:08 (KLZ_WT21)	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	29	15:41 (KLZ_WT21)	16:38	32	15:53 (KLZ_WT21)
18	08:41		15:33 (KLZ_WT21)	07:55	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06		15:11 (KLZ_WT21)	08:45		15:21 (KLZ_WT21)
	17:11	35	16:08 (KLZ_WT21)	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	30	15:41 (KLZ_WT21)	16:39	32	15:53 (KLZ_WT21)
19	08:40		15:34 (KLZ_WT21)	07:53	06:53	06:44	05:51	05:29	05:51	06:37	07:25	08:14	08:07		15:10 (KLZ_WT21)	08:45		15:21 (KLZ_WT21)
	17:12	35	16:09 (KLZ_WT21)	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	32	15:42 (KLZ_WT21)	16:39	33	15:54 (KLZ_WT21)
20	08:39		15:35 (KLZ_WT21)	07:51	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09		15:10 (KLZ_WT21)	08:46		15:22 (KLZ_WT21)
	17:14	34	16:09 (KLZ_WT21)	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	33	15:43 (KLZ_WT21)	16:39	32	15:54 (KLZ_WT21)
21	08:38		15:34 (KLZ_WT21)	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11		15:10 (KLZ_WT21)	08:47		15:22 (KLZ_WT21)
	17:16	34	16:08 (KLZ_WT21)	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	34	15:44 (KLZ_WT21)	16:40	32	15:54 (KLZ_WT21)
22	08:37		15:35 (KLZ_WT21)	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12		15:11 (KLZ_WT21)	08:47		15:23 (KLZ_WT21)
	17:17	33	16:08 (KLZ_WT21)	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	34	15:45 (KLZ_WT21)	16:40	32	15:55 (KLZ_WT21)
23	08:36		15:36 (KLZ_WT21)	07:45	06:43	06:36	05:45	05:30	05:56	06:43	07:32	08:21	08:14		15:10 (KLZ_WT21)	08:48		15:23 (KLZ_WT21)
	17:19	32	16:08 (KLZ_WT21)	18:14	19:02	20:53	21:39	22:05	21:47	20:52	19:43	18:38	16:49	35	15:45 (KLZ_WT21)	16:41	32	15:55 (KLZ_WT21)
24	08:35		15:37 (KLZ_WT21)	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:16		15:10 (KLZ_WT21)	08:48		15:23 (KLZ_WT21)
	17:21	30	16:07 (KLZ_WT21)	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	35	15:45 (KLZ_WT21)	16:41	32	15:55 (KLZ_WT21)
25	08:34		15:38 (KLZ_WT21)	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17		15:11 (KLZ_WT21)	08:48		15:25 (KLZ_WT21)
	17:22	29	16:07 (KLZ_WT21)	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	35	15:46 (KLZ_WT21)	16:42	32	15:57 (KLZ_WT21)
26	08:32		15:40 (KLZ_WT21)	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19		15:10 (KLZ_WT21)	08:49		15:25 (KLZ_WT21)
	17:24	27	16:07 (KLZ_WT21)	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	36	15:46 (KLZ_WT21)	16:43	32	15:57 (KLZ_WT21)
27	08:31		15:41 (KLZ_WT21)	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20		15:11 (KLZ_WT21)	08:49		15:25 (KLZ_WT21)
	17:26	25	16:06 (KLZ_WT21)	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	36	15:47 (KLZ_WT21)	16:43	32	15:57 (KLZ_WT21)
28	08:30		15:43 (KLZ_WT21)	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22		15:11 (KLZ_WT21)	08:49		15:25 (KLZ_WT21)
	17:27	22	16:05 (KLZ_WT21)	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	36	15:47 (KLZ_WT21)	16:44	33	15:58 (KLZ_WT21)
29	08:28		15:44 (KLZ_WT21)		07:30	06:24	05:39	05:32	06:05	06:52	07:41	07:31	08:23		15:11 (KLZ_WT21)	08:49		15:25 (KLZ_WT21)
	17:29	19	16:03 (KLZ_WT21)		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	36	15:47 (KLZ_WT21)	16:45	33	15:58 (KLZ_WT21)
30	08:27		15:47 (KLZ_WT21)		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25		15:12 (KLZ_WT21)	08:49		15:26 (KLZ_WT21)
	17:31	15	16:02 (KLZ_WT21)		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	36	15:48 (KLZ_WT21)	16:46	33	15:59 (KLZ_WT21)
31	08:25		15:50 (KLZ_WT21)		07:25		05:37		06:07	06:55		07:35				08:50		15:26 (KLZ_WT21)
	17:33	8	15:58 (KLZ_WT21)		20:15		21:49		21:35	20:35		17:23				16:47	34	16:00 (KLZ_WT21)
Potential sun hours	262			279	367	415	482	495	498	452	380	333	269			248		
Total, worst case		978												596			1035	
Sun reduction		0,25												0,27			0,23	
Oper. time red.		0,99												0,99			0,99	
Wind dir. red.		0,72												0,72			0,72	
Total reduction		0,18												0,19			0,16	
Total, real		173												114			166	

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

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January		February		March			April			May			June		
1	08:50		08:24		07:32			07:23		17:59 (KLZ_WT21)	06:20		17:25 (KLZ_WT21)	05:36		17:38 (KLZ_WT21)
	16:48		17:35		18:25			20:17	53	18:52 (KLZ_WT21)	21:06	111	19:16 (KLZ_WT21)	21:50	96	19:14 (KLZ_WT21)
2	08:49		08:22		07:30			07:21		17:56 (KLZ_WT21)	06:18		17:25 (KLZ_WT21)	05:36		17:40 (KLZ_WT21)
	16:49		17:36		18:26			20:19	58	18:54 (KLZ_WT21)	21:08	111	19:16 (KLZ_WT21)	21:52	94	19:14 (KLZ_WT21)
3	08:49		08:21		07:28			07:19		17:54 (KLZ_WT21)	06:16		17:25 (KLZ_WT21)	05:35		17:40 (KLZ_WT21)
	16:50		17:38		18:28			20:20	63	18:57 (KLZ_WT21)	21:09	111	19:16 (KLZ_WT21)	21:53	94	19:14 (KLZ_WT21)
4	08:49		08:19		07:26			07:17		17:51 (KLZ_WT21)	06:15		17:26 (KLZ_WT21)	05:34		17:40 (KLZ_WT21)
	16:51		17:40		18:30			20:22	68	18:59 (KLZ_WT21)	21:11	110	19:16 (KLZ_WT21)	21:54	93	19:13 (KLZ_WT21)
5	08:49		08:18		07:24			07:14		17:49 (KLZ_WT21)	06:13		17:25 (KLZ_WT21)	05:33		17:41 (KLZ_WT21)
	16:52		17:42		18:32			20:24	72	19:01 (KLZ_WT21)	21:13	111	19:16 (KLZ_WT21)	21:55	93	19:14 (KLZ_WT21)
6	08:49		08:16		07:21			07:12		17:46 (KLZ_WT21)	06:11		17:25 (KLZ_WT21)	05:33		17:41 (KLZ_WT21)
	16:54		17:44		18:33			20:25	75	19:01 (KLZ_WT21)	21:14	111	19:16 (KLZ_WT21)	21:56	92	19:13 (KLZ_WT21)
7	08:48		08:14		07:19			07:10		17:45 (KLZ_WT21)	06:09		17:26 (KLZ_WT21)	05:32		17:42 (KLZ_WT21)
	16:55		17:45		18:35			20:27	78	19:03 (KLZ_WT21)	21:16	110	19:16 (KLZ_WT21)	21:56	92	19:14 (KLZ_WT21)
8	08:48		08:13		07:17			07:08		17:43 (KLZ_WT21)	06:08		17:26 (KLZ_WT21)	05:32		17:42 (KLZ_WT21)
	16:56		17:47		18:37			20:29	82	19:05 (KLZ_WT21)	21:17	110	19:16 (KLZ_WT21)	21:57	91	19:13 (KLZ_WT21)
9	08:47		08:11		07:15			07:05		17:41 (KLZ_WT21)	06:06		17:27 (KLZ_WT21)	05:31		17:43 (KLZ_WT21)
	16:58		17:49		18:39			20:30	85	19:06 (KLZ_WT21)	21:19	109	19:16 (KLZ_WT21)	21:58	91	19:14 (KLZ_WT21)
10	08:47		08:09		07:13			07:03		17:40 (KLZ_WT21)	06:04		17:27 (KLZ_WT21)	05:31		17:44 (KLZ_WT21)
	16:59		17:51		18:40			20:32	87	19:07 (KLZ_WT21)	21:21	109	19:16 (KLZ_WT21)	21:59	90	19:14 (KLZ_WT21)
11	08:46		08:08		07:10			07:01		17:39 (KLZ_WT21)	06:03		17:28 (KLZ_WT21)	05:31		17:45 (KLZ_WT21)
	17:00		17:53		18:42			20:33	89	19:08 (KLZ_WT21)	21:22	108	19:16 (KLZ_WT21)	22:00	89	19:14 (KLZ_WT21)
12	08:46		08:06		07:08			06:59		17:37 (KLZ_WT21)	06:01		17:27 (KLZ_WT21)	05:30		17:44 (KLZ_WT21)
	17:02		17:54		18:44			20:35	91	19:08 (KLZ_WT21)	21:24	109	19:16 (KLZ_WT21)	22:00	90	19:14 (KLZ_WT21)
13	08:45		08:04		07:06			06:57		17:35 (KLZ_WT21)	05:59		17:28 (KLZ_WT21)	05:30		17:45 (KLZ_WT21)
	17:03		17:56		18:45			20:37	94	19:09 (KLZ_WT21)	21:25	108	19:16 (KLZ_WT21)	22:01	89	19:14 (KLZ_WT21)
14	08:44		08:02		07:04			06:55		17:34 (KLZ_WT21)	05:58		17:28 (KLZ_WT21)	05:30		17:45 (KLZ_WT21)
	17:05		17:58		18:47			20:38	96	19:10 (KLZ_WT21)	21:27	107	19:15 (KLZ_WT21)	22:01	89	19:14 (KLZ_WT21)
15	08:44		08:00		07:02			06:52		17:33 (KLZ_WT21)	05:56		17:29 (KLZ_WT21)	05:30		17:46 (KLZ_WT21)
	17:06		18:00		18:49			20:40	98	19:11 (KLZ_WT21)	21:28	107	19:16 (KLZ_WT21)	22:02	88	19:14 (KLZ_WT21)
16	08:43		07:58		06:59			06:50		17:32 (KLZ_WT21)	05:55		17:30 (KLZ_WT21)	05:29		17:46 (KLZ_WT21)
	17:08		18:02		18:50			20:42	100	19:12 (KLZ_WT21)	21:30	106	19:16 (KLZ_WT21)	22:03	88	19:14 (KLZ_WT21)
17	08:42		07:56		06:57			06:48		17:31 (KLZ_WT21)	05:53		17:29 (KLZ_WT21)	05:29		17:47 (KLZ_WT21)
	17:09		18:03		18:52			20:43	101	19:12 (KLZ_WT21)	21:31	106	19:15 (KLZ_WT21)	22:03	88	19:15 (KLZ_WT21)
18	08:41		07:55		06:55			06:46		17:31 (KLZ_WT21)	05:52		17:30 (KLZ_WT21)	05:29		17:47 (KLZ_WT21)
	17:11		18:05		18:54			20:45	102	19:13 (KLZ_WT21)	21:33	105	19:15 (KLZ_WT21)	22:03	88	19:15 (KLZ_WT21)
19	08:40		07:53		06:53			06:44		17:30 (KLZ_WT21)	05:51		17:31 (KLZ_WT21)	05:29		17:47 (KLZ_WT21)
	17:12		18:07		18:55			20:47	103	19:13 (KLZ_WT21)	21:34	104	19:15 (KLZ_WT21)	22:04	88	19:15 (KLZ_WT21)
20	08:39		07:51		06:50			06:42		17:29 (KLZ_WT21)	05:49		17:32 (KLZ_WT21)	05:30		17:47 (KLZ_WT21)
	17:14		18:09		18:57			20:48	105	19:14 (KLZ_WT21)	21:35	104	19:16 (KLZ_WT21)	22:04	88	19:15 (KLZ_WT21)
21	08:38		07:49		06:48			06:40		17:29 (KLZ_WT21)	05:48		17:31 (KLZ_WT21)	05:30		17:47 (KLZ_WT21)
	17:16		18:11		18:59			20:50	105	19:14 (KLZ_WT21)	21:37	104	19:15 (KLZ_WT21)	22:04	88	19:15 (KLZ_WT21)
22	08:37		07:47		06:46			06:38		17:28 (KLZ_WT21)	05:47		17:32 (KLZ_WT21)	05:30		17:48 (KLZ_WT21)
	17:17		18:12		19:00			20:52	107	19:15 (KLZ_WT21)	21:38	103	19:15 (KLZ_WT21)	22:05	88	19:16 (KLZ_WT21)
23	08:36		07:45		06:44			06:36		17:27 (KLZ_WT21)	05:46		17:33 (KLZ_WT21)	05:30		17:48 (KLZ_WT21)
	17:19		18:14		19:02			20:53	108	19:15 (KLZ_WT21)	21:39	102	19:15 (KLZ_WT21)	22:05	88	19:16 (KLZ_WT21)
24	08:35		07:43		06:41			06:34		17:27 (KLZ_WT21)	05:44		17:34 (KLZ_WT21)	05:30		17:48 (KLZ_WT21)
	17:21		18:16		19:04			20:55	108	19:15 (KLZ_WT21)	21:41	100	19:14 (KLZ_WT21)	22:05	88	19:16 (KLZ_WT21)
25	08:34		07:40		06:39			06:32		17:26 (KLZ_WT21)	05:43		17:34 (KLZ_WT21)	05:31		17:49 (KLZ_WT21)
	17:22		18:18		19:05			20:56	109	19:15 (KLZ_WT21)	21:42	100	19:14 (KLZ_WT21)	22:05	88	19:17 (KLZ_WT21)
26	08:32		07:38		06:37			06:30		17:26 (KLZ_WT21)	05:42		17:35 (KLZ_WT21)	05:31		17:48 (KLZ_WT21)
	17:24		18:19		19:07			20:58	109	19:15 (KLZ_WT21)	21:43	99	19:14 (KLZ_WT21)	22:05	89	19:17 (KLZ_WT21)
27	08:31		07:36		06:34			06:28		17:26 (KLZ_WT21)	05:41		17:35 (KLZ_WT21)	05:32		17:48 (KLZ_WT21)
	17:26		18:21		19:09			21:00	109	19:15 (KLZ_WT21)	21:45	99	19:14 (KLZ_WT21)	22:05	88	19:16 (KLZ_WT21)
28	08:30		07:34		06:32		17:22 (KLZ_WT21)	06:26		17:25 (KLZ_WT21)	05:40		17:36 (KLZ_WT21)	05:32		17:49 (KLZ_WT21)
	17:28		18:23		19:10	10	17:32 (KLZ_WT21)	21:01	110	19:15 (KLZ_WT21)	21:46	98	19:14 (KLZ_WT21)	22:05	88	19:17 (KLZ_WT21)
29	08:28				07:30		18:13 (KLZ_WT21)	06:24		17:26 (KLZ_WT21)	05:39		17:37 (KLZ_WT21)	05:33		17:48 (KLZ_WT21)
	17:29				20:12	28	18:41 (KLZ_WT21)	21:03	110	19:16 (KLZ_WT21)	21:47	98	19:15 (KLZ_WT21)	22:05	89	19:17 (KLZ_WT21)
30	08:27				07:28		18:07 (KLZ_WT21)	06:22		17:26 (KLZ_WT21)	05:38		17:38 (KLZ_WT21)	05:33		17:48 (KLZ_WT21)
	17:31				20:14	39	18:46 (KLZ_WT21)	21:05	110	19:16 (KLZ_WT21)	21:48	96	19:14 (KLZ_WT21)	22:04	90	19:18 (KLZ_WT21)
31	08:25				07:25		18:03 (KLZ_WT21)				05:37		17:38 (KLZ_WT21)			
	17:33				20:15	47	18:50 (KLZ_WT21)				21:49	96	19:14 (KLZ_WT21)			
Potential sun hours	262		279		367			415			482			495		
Total, worst case						124			2785			3262			2695	
Sun reduction						0,38			0,46			0,46			0,44	
Oper. time red.						0,99			0,99			0,99			0,99	
Wind dir. red.						0,63			0,63			0,63			0,63	
Total reduction						0,24			0,29			0,29			0,28	
Total, real						29			808			933			747	

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

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	July			August			September			October	November	December
1	05:34		17:49 (KLZ_WT21)	06:09		17:38 (KLZ_WT21)	06:57		17:38 (KLZ_WT21)	07:44	07:36	08:26
	22:04	89	19:18 (KLZ_WT21)	21:34	108	19:26 (KLZ_WT21)	20:33	89	19:07 (KLZ_WT21)	19:25	17:21	16:42
2	05:34		17:48 (KLZ_WT21)	06:10		17:38 (KLZ_WT21)	06:59		17:38 (KLZ_WT21)	07:46	07:38	08:27
	22:04	90	19:18 (KLZ_WT21)	21:32	109	19:27 (KLZ_WT21)	20:31	87	19:05 (KLZ_WT21)	19:23	17:19	16:41
3	05:35		17:48 (KLZ_WT21)	06:12		17:37 (KLZ_WT21)	07:00		17:39 (KLZ_WT21)	07:48	07:40	08:29
	22:04	91	19:19 (KLZ_WT21)	21:30	109	19:26 (KLZ_WT21)	20:29	85	19:04 (KLZ_WT21)	19:21	17:17	16:41
4	05:36		17:48 (KLZ_WT21)	06:13		17:36 (KLZ_WT21)	07:02		17:40 (KLZ_WT21)	07:49	07:42	08:30
	22:03	91	19:19 (KLZ_WT21)	21:29	110	19:26 (KLZ_WT21)	20:27	82	19:02 (KLZ_WT21)	19:19	17:16	16:40
5	05:37		17:48 (KLZ_WT21)	06:15		17:36 (KLZ_WT21)	07:03		17:42 (KLZ_WT21)	07:51	07:43	08:31
	22:03	91	19:19 (KLZ_WT21)	21:27	110	19:26 (KLZ_WT21)	20:24	78	19:00 (KLZ_WT21)	19:16	17:14	16:40
6	05:37		17:48 (KLZ_WT21)	06:17		17:36 (KLZ_WT21)	07:05		17:42 (KLZ_WT21)	07:53	07:45	08:33
	22:02	92	19:20 (KLZ_WT21)	21:25	110	19:26 (KLZ_WT21)	20:22	76	18:58 (KLZ_WT21)	19:14	17:12	16:39
7	05:38		17:48 (KLZ_WT21)	06:18		17:36 (KLZ_WT21)	07:06		17:44 (KLZ_WT21)	07:54	07:47	08:34
	22:02	92	19:20 (KLZ_WT21)	21:23	110	19:26 (KLZ_WT21)	20:20	72	18:56 (KLZ_WT21)	19:12	17:11	16:39
8	05:39		17:47 (KLZ_WT21)	06:20		17:35 (KLZ_WT21)	07:08		17:45 (KLZ_WT21)	07:56	07:49	08:35
	22:01	94	19:21 (KLZ_WT21)	21:22	111	19:26 (KLZ_WT21)	20:18	68	18:53 (KLZ_WT21)	19:10	17:09	16:39
9	05:40		17:47 (KLZ_WT21)	06:21		17:34 (KLZ_WT21)	07:10		17:48 (KLZ_WT21)	07:57	07:50	08:36
	22:00	94	19:21 (KLZ_WT21)	21:20	111	19:25 (KLZ_WT21)	20:15	63	18:51 (KLZ_WT21)	19:08	17:07	16:38
10	05:41		17:47 (KLZ_WT21)	06:23		17:34 (KLZ_WT21)	07:11		17:49 (KLZ_WT21)	07:59	07:52	08:37
	22:00	95	19:22 (KLZ_WT21)	21:18	111	19:25 (KLZ_WT21)	20:13	59	18:48 (KLZ_WT21)	19:05	17:06	16:38
11	05:42		17:47 (KLZ_WT21)	06:24		17:34 (KLZ_WT21)	07:13		17:52 (KLZ_WT21)	08:01	07:54	08:38
	21:59	95	19:22 (KLZ_WT21)	21:16	110	19:24 (KLZ_WT21)	20:11	53	18:45 (KLZ_WT21)	19:03	17:04	16:38
12	05:43		17:47 (KLZ_WT21)	06:26		17:34 (KLZ_WT21)	07:14		17:54 (KLZ_WT21)	08:02	07:56	08:39
	21:58	95	19:22 (KLZ_WT21)	21:14	111	19:25 (KLZ_WT21)	20:09	47	18:41 (KLZ_WT21)	19:01	17:03	16:38
13	05:44		17:46 (KLZ_WT21)	06:27		17:33 (KLZ_WT21)	07:16		17:58 (KLZ_WT21)	08:04	07:57	08:40
	21:57	97	19:23 (KLZ_WT21)	21:12	111	19:24 (KLZ_WT21)	20:06	40	18:38 (KLZ_WT21)	18:59	17:01	16:38
14	05:45		17:46 (KLZ_WT21)	06:29		17:34 (KLZ_WT21)	07:17		18:02 (KLZ_WT21)	08:06	07:59	08:41
	21:56	97	19:23 (KLZ_WT21)	21:11	110	19:24 (KLZ_WT21)	20:04	30	18:32 (KLZ_WT21)	18:57	17:00	16:38
15	05:46		17:45 (KLZ_WT21)	06:30		17:33 (KLZ_WT21)	07:19		18:10 (KLZ_WT21)	08:07	08:01	08:42
	21:55	98	19:23 (KLZ_WT21)	21:09	110	19:23 (KLZ_WT21)	20:02	15	18:25 (KLZ_WT21)	18:55	16:59	16:38
16	05:48		17:45 (KLZ_WT21)	06:32		17:33 (KLZ_WT21)	07:21			08:09	08:02	08:43
	21:54	98	19:23 (KLZ_WT21)	21:07	110	19:23 (KLZ_WT21)	19:59			18:52	16:57	16:38
17	05:49		17:44 (KLZ_WT21)	06:33		17:33 (KLZ_WT21)	07:22			08:11	08:04	08:44
	21:53	100	19:24 (KLZ_WT21)	21:05	109	19:22 (KLZ_WT21)	19:57			18:50	16:56	16:38
18	05:50		17:44 (KLZ_WT21)	06:35		17:33 (KLZ_WT21)	07:24			08:12	08:06	08:45
	21:52	100	19:24 (KLZ_WT21)	21:03	109	19:22 (KLZ_WT21)	19:55			18:48	16:55	16:39
19	05:51		17:43 (KLZ_WT21)	06:37		17:33 (KLZ_WT21)	07:25			08:14	08:07	08:45
	21:51	101	19:24 (KLZ_WT21)	21:01	108	19:21 (KLZ_WT21)	19:53			18:46	16:53	16:39
20	05:52		17:43 (KLZ_WT21)	06:38		17:33 (KLZ_WT21)	07:27			08:16	08:09	08:46
	21:50	101	19:24 (KLZ_WT21)	20:59	107	19:20 (KLZ_WT21)	19:50			18:44	16:52	16:39
21	05:54		17:43 (KLZ_WT21)	06:40		17:33 (KLZ_WT21)	07:28			08:17	08:11	08:47
	21:49	102	19:25 (KLZ_WT21)	20:57	106	19:19 (KLZ_WT21)	19:48			18:42	16:51	16:40
22	05:55		17:42 (KLZ_WT21)	06:41		17:33 (KLZ_WT21)	07:30			08:19	08:12	08:47
	21:48	103	19:25 (KLZ_WT21)	20:55	106	19:19 (KLZ_WT21)	19:46			18:40	16:50	16:40
23	05:56		17:42 (KLZ_WT21)	06:43		17:33 (KLZ_WT21)	07:32			08:21	08:14	08:48
	21:47	103	19:25 (KLZ_WT21)	20:52	105	19:18 (KLZ_WT21)	19:44			18:38	16:49	16:41
24	05:58		17:41 (KLZ_WT21)	06:44		17:34 (KLZ_WT21)	07:33			08:23	08:16	08:48
	21:45	104	19:25 (KLZ_WT21)	20:50	103	19:17 (KLZ_WT21)	19:41			18:36	16:48	16:41
25	05:59		17:41 (KLZ_WT21)	06:46		17:33 (KLZ_WT21)	07:35			07:24	08:17	08:48
	21:44	105	19:26 (KLZ_WT21)	20:48	103	19:16 (KLZ_WT21)	19:39			17:34	16:47	16:42
26	06:00		17:40 (KLZ_WT21)	06:48		17:34 (KLZ_WT21)	07:36			07:26	08:19	08:49
	21:43	106	19:26 (KLZ_WT21)	20:46	101	19:15 (KLZ_WT21)	19:37			17:32	16:46	16:43
27	06:02		17:40 (KLZ_WT21)	06:49		17:34 (KLZ_WT21)	07:38			07:28	08:20	08:49
	21:41	106	19:26 (KLZ_WT21)	20:44	100	19:14 (KLZ_WT21)	19:34			17:30	16:45	16:43
28	06:03		17:40 (KLZ_WT21)	06:51		17:35 (KLZ_WT21)	07:40			07:30	08:22	08:49
	21:40	106	19:26 (KLZ_WT21)	20:42	98	19:13 (KLZ_WT21)	19:32			17:28	16:44	16:44
29	06:05		17:39 (KLZ_WT21)	06:52		17:35 (KLZ_WT21)	07:41			07:31	08:23	08:49
	21:38	107	19:26 (KLZ_WT21)	20:40	96	19:11 (KLZ_WT21)	19:30			17:26	16:43	16:45
30	06:06		17:38 (KLZ_WT21)	06:54		17:36 (KLZ_WT21)	07:43			07:33	08:25	08:49
	21:37	108	19:26 (KLZ_WT21)	20:38	94	19:10 (KLZ_WT21)	19:28			17:25	16:43	16:46
31	06:08		17:38 (KLZ_WT21)	06:55		17:36 (KLZ_WT21)				07:35		08:50
	21:35	109	19:27 (KLZ_WT21)	20:35	92	19:08 (KLZ_WT21)				17:23		16:47
Potential sun hours	498			451			380			333	269	248
Total, worst case		3060			3298			944				
Sun reduction		0,45			0,47			0,43				
Oper. time red.		0,99			0,99			0,99				
Wind dir. red.		0,63			0,63			0,63				
Total reduction		0,28			0,29			0,27				
Total, real		859			964			256				

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

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project Assumptions for shadow calculations

Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	20:06 (KLZ_WT21)	05:34	20:10 (KLZ_WT21)	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	50 20:56 (KLZ_WT21)	22:04	55 21:05 (KLZ_WT21)	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:36	20:06 (KLZ_WT21)	05:34	20:10 (KLZ_WT21)	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	51 20:57 (KLZ_WT21)	22:04	54 21:04 (KLZ_WT21)	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	20:06 (KLZ_WT21)	05:35	20:11 (KLZ_WT21)	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	51 20:57 (KLZ_WT21)	22:03	54 21:05 (KLZ_WT21)	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:15	05:34	20:05 (KLZ_WT21)	05:36	20:11 (KLZ_WT21)	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	52 20:57 (KLZ_WT21)	22:03	54 21:05 (KLZ_WT21)	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33	20:06 (KLZ_WT21)	05:37	20:11 (KLZ_WT21)	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	52 20:58 (KLZ_WT21)	22:03	53 21:04 (KLZ_WT21)	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	20:05 (KLZ_WT21)	05:37	20:11 (KLZ_WT21)	06:16	07:05	07:52	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:55	53 20:58 (KLZ_WT21)	22:02	54 21:05 (KLZ_WT21)	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	20:06 (KLZ_WT21)	05:38	20:12 (KLZ_WT21)	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	53 20:59 (KLZ_WT21)	22:02	53 21:05 (KLZ_WT21)	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	20:05 (KLZ_WT21)	05:39	20:13 (KLZ_WT21)	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	54 20:59 (KLZ_WT21)	22:01	52 21:05 (KLZ_WT21)	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	20:06 (KLZ_WT21)	05:40	20:13 (KLZ_WT21)	06:21	07:10	07:57	07:50	08:36
	16:58	17:49	18:39	20:30	21:19	21:58	54 21:00 (KLZ_WT21)	22:00	52 21:05 (KLZ_WT21)	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31	20:06 (KLZ_WT21)	05:41	20:14 (KLZ_WT21)	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	54 21:00 (KLZ_WT21)	22:00	51 21:05 (KLZ_WT21)	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:03	05:31	20:06 (KLZ_WT21)	05:42	20:14 (KLZ_WT21)	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	55 21:01 (KLZ_WT21)	21:59	50 21:04 (KLZ_WT21)	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	20:06 (KLZ_WT21)	05:43	20:15 (KLZ_WT21)	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	54 21:00 (KLZ_WT21)	21:58	49 21:04 (KLZ_WT21)	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	20:06 (KLZ_WT21)	05:44	20:15 (KLZ_WT21)	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	55 21:01 (KLZ_WT21)	21:57	49 21:04 (KLZ_WT21)	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	20:06 (KLZ_WT21)	05:45	20:16 (KLZ_WT21)	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:01	55 21:01 (KLZ_WT21)	21:56	47 21:03 (KLZ_WT21)	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56	20:28 (KLZ_WT21)	05:30	20:06 (KLZ_WT21)	05:46	20:16 (KLZ_WT21)	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	3 20:31 (KLZ_WT21)	22:02	56 21:02 (KLZ_WT21)	21:55	47 21:03 (KLZ_WT21)	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	20:22 (KLZ_WT21)	05:29	20:06 (KLZ_WT21)	05:48	20:17 (KLZ_WT21)	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	16 20:38 (KLZ_WT21)	22:03	56 21:02 (KLZ_WT21)	21:54	45 21:02 (KLZ_WT21)	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	20:19 (KLZ_WT21)	05:29	20:07 (KLZ_WT21)	05:49	20:18 (KLZ_WT21)	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	21 20:40 (KLZ_WT21)	22:03	55 21:02 (KLZ_WT21)	21:53	44 21:02 (KLZ_WT21)	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	20:17 (KLZ_WT21)	05:29	20:07 (KLZ_WT21)	05:50	20:18 (KLZ_WT21)	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	25 20:42 (KLZ_WT21)	22:03	55 21:02 (KLZ_WT21)	21:52	43 21:01 (KLZ_WT21)	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	20:15 (KLZ_WT21)	05:29	20:07 (KLZ_WT21)	05:51	20:19 (KLZ_WT21)	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	29 20:44 (KLZ_WT21)	22:04	56 21:03 (KLZ_WT21)	21:51	41 21:00 (KLZ_WT21)	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	20:14 (KLZ_WT21)	05:30	20:07 (KLZ_WT21)	05:52	20:20 (KLZ_WT21)	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	32 20:46 (KLZ_WT21)	22:04	56 21:03 (KLZ_WT21)	21:50	39 20:59 (KLZ_WT21)	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	20:12 (KLZ_WT21)	05:30	20:07 (KLZ_WT21)	05:54	20:21 (KLZ_WT21)	06:40	07:28	08:17	08:11	08:46
	17:16	18:11	18:59	20:50	21:37	34 20:46 (KLZ_WT21)	22:04	56 21:03 (KLZ_WT21)	21:49	38 20:59 (KLZ_WT21)	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	20:11 (KLZ_WT21)	05:30	20:08 (KLZ_WT21)	05:55	20:22 (KLZ_WT21)	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	37 20:48 (KLZ_WT21)	22:05	56 21:04 (KLZ_WT21)	21:48	36 20:58 (KLZ_WT21)	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:46	20:10 (KLZ_WT21)	05:30	20:08 (KLZ_WT21)	05:56	20:23 (KLZ_WT21)	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	39 20:49 (KLZ_WT21)	22:05	56 21:04 (KLZ_WT21)	21:46	33 20:56 (KLZ_WT21)	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	20:10 (KLZ_WT21)	05:30	20:08 (KLZ_WT21)	05:58	20:24 (KLZ_WT21)	06:44	07:33	08:23	08:15	08:48
	17:21	18:16	19:04	20:55	21:41	40 20:50 (KLZ_WT21)	22:05	55 21:03 (KLZ_WT21)	21:45	31 20:55 (KLZ_WT21)	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43	20:09 (KLZ_WT21)	05:31	20:09 (KLZ_WT21)	05:59	20:27 (KLZ_WT21)	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	42 20:51 (KLZ_WT21)	22:05	55 21:04 (KLZ_WT21)	21:44	27 20:54 (KLZ_WT21)	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	20:08 (KLZ_WT21)	05:31	20:09 (KLZ_WT21)	06:00	20:28 (KLZ_WT21)	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	44 20:52 (KLZ_WT21)	22:05	55 21:04 (KLZ_WT21)	21:42	24 20:52 (KLZ_WT21)	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	20:08 (KLZ_WT21)	05:32	20:08 (KLZ_WT21)	06:02	20:30 (KLZ_WT21)	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	45 20:53 (KLZ_WT21)	22:05	56 21:04 (KLZ_WT21)	21:41	19 20:49 (KLZ_WT21)	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	20:07 (KLZ_WT21)	05:32	20:09 (KLZ_WT21)	06:03	20:34 (KLZ_WT21)	06:51	07:40	07:30	08:22	08:49
	17:28	18:23	19:10	21:01	21:46	46 20:53 (KLZ_WT21)	22:05	55 21:04 (KLZ_WT21)	21:40	12 20:46 (KLZ_WT21)	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	20:08 (KLZ_WT21)	05:33	20:09 (KLZ_WT21)	06:05		06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	47 20:55 (KLZ_WT21)	22:05	55 21:04 (KLZ_WT21)	21:38		20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	20:07 (KLZ_WT21)	05:33	20:10 (KLZ_WT21)	06:06		06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	48 20:55 (KLZ_WT21)	22:04	55 21:05 (KLZ_WT21)	21:37		20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37	20:07 (KLZ_WT21)			06:08		06:55		07:35		08:49
	17:33		20:15		21:49	49 20:56 (KLZ_WT21)			21:35		20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	451	380	333	269	248
Total, worst case					597	1631	1206					
Sun reduction					0,46	0,44	0,45					
Oper. time red.					0,99	0,99	0,99					
Wind dir. red.					0,56	0,56	0,56					
Total reduction					0,25	0,24	0,25					
Total, real					150	398	298					

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

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February	March	April	May			June		
1	08:49	08:24	07:32	07:23	06:20			05:36		20:23 (KLZ_WT21)
	16:48	17:35	18:25	20:17	21:06			21:50	27	20:50 (KLZ_WT21)
2	08:49	08:22	07:30	07:21	06:18			05:36		20:25 (KLZ_WT21)
	16:49	17:36	18:26	20:19	21:08			21:51	26	20:51 (KLZ_WT21)
3	08:49	08:21	07:28	07:19	06:16			05:35		20:25 (KLZ_WT21)
	16:50	17:38	18:28	20:20	21:09			21:53	25	20:50 (KLZ_WT21)
4	08:49	08:19	07:26	07:16	06:15			05:34		20:25 (KLZ_WT21)
	16:51	17:40	18:30	20:22	21:11			21:54	25	20:50 (KLZ_WT21)
5	08:49	08:18	07:24	07:14	06:13		20:30 (KLZ_WT21)	05:33		20:26 (KLZ_WT21)
	16:52	17:42	18:32	20:24	21:13	11	20:41 (KLZ_WT21)	21:55	24	20:50 (KLZ_WT21)
6	08:49	08:16	07:21	07:12	06:11		20:27 (KLZ_WT21)	05:33		20:26 (KLZ_WT21)
	16:54	17:44	18:33	20:25	21:14	16	20:43 (KLZ_WT21)	21:55	23	20:49 (KLZ_WT21)
7	08:48	08:14	07:19	07:10	06:09		20:26 (KLZ_WT21)	05:32		20:28 (KLZ_WT21)
	16:55	17:45	18:35	20:27	21:16	20	20:46 (KLZ_WT21)	21:56	21	20:49 (KLZ_WT21)
8	08:48	08:13	07:17	07:08	06:08		20:24 (KLZ_WT21)	05:32		20:28 (KLZ_WT21)
	16:56	17:47	18:37	20:28	21:17	23	20:47 (KLZ_WT21)	21:57	20	20:48 (KLZ_WT21)
9	08:47	08:11	07:15	07:05	06:06		20:23 (KLZ_WT21)	05:31		20:29 (KLZ_WT21)
	16:57	17:49	18:38	20:30	21:19	25	20:48 (KLZ_WT21)	21:58	19	20:48 (KLZ_WT21)
10	08:47	08:09	07:13	07:03	06:04		20:22 (KLZ_WT21)	05:31		20:30 (KLZ_WT21)
	16:59	17:51	18:40	20:32	21:20	27	20:49 (KLZ_WT21)	21:59	18	20:48 (KLZ_WT21)
11	08:46	08:08	07:10	07:01	06:03		20:22 (KLZ_WT21)	05:31		20:30 (KLZ_WT21)
	17:00	17:53	18:42	20:33	21:22	28	20:50 (KLZ_WT21)	21:59	17	20:47 (KLZ_WT21)
12	08:46	08:06	07:08	06:59	06:01		20:21 (KLZ_WT21)	05:30		20:31 (KLZ_WT21)
	17:02	17:54	18:44	20:35	21:24	29	20:50 (KLZ_WT21)	22:00	16	20:47 (KLZ_WT21)
13	08:45	08:04	07:06	06:57	05:59		20:21 (KLZ_WT21)	05:30		20:31 (KLZ_WT21)
	17:03	17:56	18:45	20:37	21:25	30	20:51 (KLZ_WT21)	22:01	16	20:47 (KLZ_WT21)
14	08:44	08:02	07:04	06:55	05:58		20:20 (KLZ_WT21)	05:30		20:32 (KLZ_WT21)
	17:05	17:58	18:47	20:38	21:27	31	20:51 (KLZ_WT21)	22:01	15	20:47 (KLZ_WT21)
15	08:44	08:00	07:01	06:52	05:56		20:20 (KLZ_WT21)	05:30		20:33 (KLZ_WT21)
	17:06	18:00	18:49	20:40	21:28	31	20:51 (KLZ_WT21)	22:02	14	20:47 (KLZ_WT21)
16	08:43	07:58	06:59	06:50	05:55		20:20 (KLZ_WT21)	05:29		20:33 (KLZ_WT21)
	17:08	18:02	18:50	20:42	21:30	32	20:52 (KLZ_WT21)	22:02	14	20:47 (KLZ_WT21)
17	08:42	07:56	06:57	06:48	05:53		20:19 (KLZ_WT21)	05:29		20:34 (KLZ_WT21)
	17:09	18:03	18:52	20:43	21:31	33	20:52 (KLZ_WT21)	22:03	13	20:47 (KLZ_WT21)
18	08:41	07:54	06:55	06:46	05:52		20:19 (KLZ_WT21)	05:29		20:34 (KLZ_WT21)
	17:11	18:05	18:54	20:45	21:32	33	20:52 (KLZ_WT21)	22:03	13	20:47 (KLZ_WT21)
19	08:40	07:53	06:52	06:44	05:51		20:19 (KLZ_WT21)	05:29		20:35 (KLZ_WT21)
	17:12	18:07	18:55	20:47	21:34	33	20:52 (KLZ_WT21)	22:04	12	20:47 (KLZ_WT21)
20	08:39	07:51	06:50	06:42	05:49		20:20 (KLZ_WT21)	05:30		20:35 (KLZ_WT21)
	17:14	18:09	18:57	20:48	21:35	33	20:53 (KLZ_WT21)	22:04	12	20:47 (KLZ_WT21)
21	08:38	07:49	06:48	06:40	05:48		20:19 (KLZ_WT21)	05:30		20:35 (KLZ_WT21)
	17:16	18:11	18:59	20:50	21:37	33	20:52 (KLZ_WT21)	22:04	12	20:47 (KLZ_WT21)
22	08:37	07:47	06:46	06:38	05:47		20:19 (KLZ_WT21)	05:30		20:36 (KLZ_WT21)
	17:17	18:12	19:00	20:51	21:38	33	20:52 (KLZ_WT21)	22:04	12	20:48 (KLZ_WT21)
23	08:36	07:45	06:43	06:36	05:46		20:19 (KLZ_WT21)	05:30		20:36 (KLZ_WT21)
	17:19	18:14	19:02	20:53	21:39	33	20:52 (KLZ_WT21)	22:05	12	20:48 (KLZ_WT21)
24	08:35	07:42	06:41	06:34	05:44		20:20 (KLZ_WT21)	05:30		20:35 (KLZ_WT21)
	17:21	18:16	19:04	20:55	21:41	32	20:52 (KLZ_WT21)	22:05	13	20:48 (KLZ_WT21)
25	08:33	07:40	06:39	06:32	05:43		20:20 (KLZ_WT21)	05:31		20:36 (KLZ_WT21)
	17:22	18:18	19:05	20:56	21:42	32	20:52 (KLZ_WT21)	22:05	13	20:49 (KLZ_WT21)
26	08:32	07:38	06:37	06:30	05:42		20:20 (KLZ_WT21)	05:31		20:36 (KLZ_WT21)
	17:24	18:19	19:07	20:58	21:43	32	20:52 (KLZ_WT21)	22:05	13	20:49 (KLZ_WT21)
27	08:31	07:36	06:34	06:28	05:41		20:21 (KLZ_WT21)	05:32		20:35 (KLZ_WT21)
	17:26	18:21	19:09	21:00	21:45	30	20:51 (KLZ_WT21)	22:05	14	20:49 (KLZ_WT21)
28	08:30	07:34	06:32	06:26	05:40		20:21 (KLZ_WT21)	05:32		20:35 (KLZ_WT21)
	17:28	18:23	19:10	21:01	21:46	30	20:51 (KLZ_WT21)	22:05	15	20:50 (KLZ_WT21)
29	08:28		07:30	06:24	05:39		20:21 (KLZ_WT21)	05:33		20:35 (KLZ_WT21)
	17:29		20:12	21:03	21:47	30	20:51 (KLZ_WT21)	22:05	15	20:50 (KLZ_WT21)
30	08:27		07:28	06:22	05:38		20:23 (KLZ_WT21)	05:33		20:35 (KLZ_WT21)
	17:31		20:14	21:05	21:48	28	20:51 (KLZ_WT21)	22:04	16	20:51 (KLZ_WT21)
31	08:25		07:25		05:37		20:23 (KLZ_WT21)			
	17:33		20:15		21:49	28	20:51 (KLZ_WT21)			
Potential sun hours	262	279	367	415	482			495		
Total, worst case						776			505	
Sun reduction						0,46			0,44	
Oper. time red.						0,99			0,99	
Wind dir. red.						0,56			0,56	
Total reduction						0,25			0,24	
Total, real						195			123	

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

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

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

Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	July		August		September	October	November	December
1	05:34		20:35 (KLZ_WT21)	06:09	20:31 (KLZ_WT21)	06:57	07:44	07:36	08:26
	22:04	17	20:52 (KLZ_WT21)	21:33	29	21:00 (KLZ_WT21)	20:33	19:25	17:21	16:42
2	05:34		20:34 (KLZ_WT21)	06:10	20:31 (KLZ_WT21)	06:59	07:46	07:38	08:27
	22:04	18	20:52 (KLZ_WT21)	21:32	28	20:59 (KLZ_WT21)	20:31	19:23	17:19	16:41
3	05:35		20:34 (KLZ_WT21)	06:12	20:33 (KLZ_WT21)	07:00	07:48	07:40	08:29
	22:03	19	20:53 (KLZ_WT21)	21:30	26	20:59 (KLZ_WT21)	20:29	19:21	17:17	16:41
4	05:36		20:34 (KLZ_WT21)	06:13	20:33 (KLZ_WT21)	07:02	07:49	07:42	08:30
	22:03	20	20:54 (KLZ_WT21)	21:29	24	20:57 (KLZ_WT21)	20:27	19:19	17:16	16:40
5	05:37		20:33 (KLZ_WT21)	06:15	20:35 (KLZ_WT21)	07:03	07:51	07:43	08:31
	22:03	21	20:54 (KLZ_WT21)	21:27	22	20:57 (KLZ_WT21)	20:24	19:16	17:14	16:40
6	05:37		20:33 (KLZ_WT21)	06:16	20:36 (KLZ_WT21)	07:05	07:52	07:45	08:33
	22:02	22	20:55 (KLZ_WT21)	21:25	19	20:55 (KLZ_WT21)	20:22	19:14	17:12	16:39
7	05:38		20:33 (KLZ_WT21)	06:18	20:38 (KLZ_WT21)	07:06	07:54	07:47	08:34
	22:02	23	20:56 (KLZ_WT21)	21:23	15	20:53 (KLZ_WT21)	20:20	19:12	17:11	16:39
8	05:39		20:33 (KLZ_WT21)	06:20	20:40 (KLZ_WT21)	07:08	07:56	07:49	08:35
	22:01	24	20:57 (KLZ_WT21)	21:22	10	20:50 (KLZ_WT21)	20:18	19:10	17:09	16:39
9	05:40		20:32 (KLZ_WT21)	06:21		07:10	07:57	07:50	08:36
	22:00	25	20:57 (KLZ_WT21)	21:20		20:15	19:08	17:07	16:38
10	05:41		20:32 (KLZ_WT21)	06:23		07:11	07:59	07:52	08:37
	22:00	26	20:58 (KLZ_WT21)	21:18		20:13	19:05	17:06	16:38
11	05:42		20:32 (KLZ_WT21)	06:24		07:13	08:01	07:54	08:38
	21:59	27	20:59 (KLZ_WT21)	21:16		20:11	19:03	17:04	16:38
12	05:43		20:32 (KLZ_WT21)	06:26		07:14	08:02	07:56	08:39
	21:58	27	20:59 (KLZ_WT21)	21:14		20:09	19:01	17:03	16:38
13	05:44		20:31 (KLZ_WT21)	06:27		07:16	08:04	07:57	08:40
	21:57	29	21:00 (KLZ_WT21)	21:12		20:06	18:59	17:01	16:38
14	05:45		20:31 (KLZ_WT21)	06:29		07:17	08:06	07:59	08:41
	21:56	29	21:00 (KLZ_WT21)	21:11		20:04	18:57	17:00	16:38
15	05:46		20:31 (KLZ_WT21)	06:30		07:19	08:07	08:01	08:42
	21:55	29	21:00 (KLZ_WT21)	21:09		20:02	18:55	16:58	16:38
16	05:48		20:30 (KLZ_WT21)	06:32		07:21	08:09	08:02	08:43
	21:54	31	21:01 (KLZ_WT21)	21:07		19:59	18:52	16:57	16:38
17	05:49		20:30 (KLZ_WT21)	06:33		07:22	08:11	08:04	08:44
	21:53	31	21:01 (KLZ_WT21)	21:05		19:57	18:50	16:56	16:38
18	05:50		20:30 (KLZ_WT21)	06:35		07:24	08:12	08:06	08:44
	21:52	31	21:01 (KLZ_WT21)	21:03		19:55	18:48	16:55	16:39
19	05:51		20:29 (KLZ_WT21)	06:37		07:25	08:14	08:07	08:45
	21:51	32	21:01 (KLZ_WT21)	21:01		19:53	18:46	16:53	16:39
20	05:52		20:29 (KLZ_WT21)	06:38		07:27	08:16	08:09	08:46
	21:50	32	21:01 (KLZ_WT21)	20:59		19:50	18:44	16:52	16:39
21	05:54		20:30 (KLZ_WT21)	06:40		07:28	08:17	08:11	08:46
	21:49	32	21:02 (KLZ_WT21)	20:57		19:48	18:42	16:51	16:40
22	05:55		20:30 (KLZ_WT21)	06:41		07:30	08:19	08:12	08:47
	21:48	32	21:02 (KLZ_WT21)	20:55		19:46	18:40	16:50	16:40
23	05:56		20:29 (KLZ_WT21)	06:43		07:32	08:21	08:14	08:47
	21:46	33	21:02 (KLZ_WT21)	20:52		19:43	18:38	16:49	16:41
24	05:58		20:29 (KLZ_WT21)	06:44		07:33	08:23	08:15	08:48
	21:45	33	21:02 (KLZ_WT21)	20:50		19:41	18:36	16:48	16:41
25	05:59		20:30 (KLZ_WT21)	06:46		07:35	07:24	08:17	08:48
	21:44	33	21:03 (KLZ_WT21)	20:48		19:39	17:34	16:47	16:42
26	06:00		20:30 (KLZ_WT21)	06:48		07:36	07:26	08:19	08:49
	21:42	32	21:02 (KLZ_WT21)	20:46		19:37	17:32	16:46	16:43
27	06:02		20:29 (KLZ_WT21)	06:49		07:38	07:28	08:20	08:49
	21:41	33	21:02 (KLZ_WT21)	20:44		19:34	17:30	16:45	16:43
28	06:03		20:30 (KLZ_WT21)	06:51		07:40	07:29	08:22	08:49
	21:40	32	21:02 (KLZ_WT21)	20:42		19:32	17:28	16:44	16:44
29	06:05		20:30 (KLZ_WT21)	06:52		07:41	07:31	08:23	08:49
	21:38	32	21:02 (KLZ_WT21)	20:40		19:30	17:26	16:43	16:45
30	06:06		20:30 (KLZ_WT21)	06:54		07:43	07:33	08:24	08:49
	21:37	31	21:01 (KLZ_WT21)	20:38		19:28	17:25	16:43	16:46
31	06:08		20:31 (KLZ_WT21)	06:55			07:35		08:49
	21:35	30	21:01 (KLZ_WT21)	20:35			17:23		16:47
Potential sun hours	498			451		380	333	269	248
Total, worst case		866			173				
Sun reduction		0,45			0,47				
Oper. time red.		0,99			0,99				
Wind dir. red.		0,56			0,56				
Total reduction		0,25			0,26				
Total, real		214			44				

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

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

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

Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:49	06:34	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09	08:46
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21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:15	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
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	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	451	380	333	269	248
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:07	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:54	21:07	20:00	18:53	16:57	16:38
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:31	05:58	06:45	07:33	08:23	08:15	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	495	498	451	380	333	269	248
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:23	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:27	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48	08:15	07:19	07:10	06:09	05:32	05:38	06:18	07:07	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:06	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41
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15	08:44	08:00	07:02	06:52	05:56	05:30	05:47	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:54	21:07	20:00	18:53	16:57	16:38
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:31	05:58	06:45	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49
	17:24	18:20	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:26		05:37		06:08	06:56		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	451	380	333	269	248
Total, worst case												
Sun reduction												
Oper. time red.												
Wind dir. red.												
Total reduction												
Total, real												

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

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project Assumptions for shadow calculations

Shadow receptor: 15 - Hageland 14, 9940 Evergem

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February	March	April	May			June			July			August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20			05:37		06:07 (KLZ_WT21)	05:34			06:09	06:57	07:45	07:37	08:26
	16:48	17:35	18:25	20:17	21:06			21:51	11	06:18 (KLZ_WT21)	22:04			21:34	20:33	19:26	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18			05:36		06:09 (KLZ_WT21)	05:35			06:11	06:59	07:46	07:38	08:27
	16:49	17:37	18:27	20:19	21:08			21:52	9	06:18 (KLZ_WT21)	22:04			21:32	20:31	19:23	17:19	16:42
3	08:49	08:21	07:28	07:19	06:17			05:35		06:09 (KLZ_WT21)	05:35			06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:10			21:53	8	06:17 (KLZ_WT21)	22:04			21:30	20:29	19:21	17:18	16:41
4	08:49	08:20	07:26	07:17	06:15			05:34		06:11 (KLZ_WT21)	05:36			06:14	07:02	07:49	07:42	08:30
	16:52	17:40	18:30	20:22	21:11			21:54	6	06:17 (KLZ_WT21)	22:03			21:29	20:27	19:19	17:16	16:41
5	08:49	08:18	07:24	07:14	06:13			05:34		06:12 (KLZ_WT21)	05:37			06:15	07:04	07:51	07:44	08:31
	16:53	17:42	18:32	20:24	21:13			21:55	3	06:15 (KLZ_WT21)	22:03			21:27	20:25	19:17	17:14	16:40
6	08:49	08:16	07:22	07:12	06:11			05:33			05:38			06:17	07:05	07:53	07:45	08:33
	16:54	17:44	18:34	20:25	21:14			21:56			22:02			21:25	20:22	19:14	17:12	16:40
7	08:48	08:15	07:19	07:10	06:09			05:33			05:39		06:19 (KLZ_WT21)	06:18	07:07	07:54	07:47	08:34
	16:55	17:46	18:35	20:27	21:16			21:57			22:02	1	06:20 (KLZ_WT21)	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08			05:32			05:39		06:18 (KLZ_WT21)	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:18			21:57			22:01	5	06:23 (KLZ_WT21)	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:06	06:06			05:32			05:40		06:17 (KLZ_WT21)	06:21	07:10	07:58	07:51	08:36
	16:58	17:49	18:39	20:30	21:19			21:58			22:00	7	06:24 (KLZ_WT21)	21:20	20:16	19:08	17:08	16:39
10	08:47	08:09	07:13	07:03	06:04			05:31			05:41		06:16 (KLZ_WT21)	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21			21:59			22:00	9	06:25 (KLZ_WT21)	21:18	20:13	19:06	17:06	16:39
11	08:47	08:08	07:11	07:01	06:03			05:31			05:42		06:16 (KLZ_WT21)	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:34	21:22			22:00			21:59	10	06:26 (KLZ_WT21)	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01			05:30			05:43		06:15 (KLZ_WT21)	06:26	07:14	08:03	07:56	08:39
	17:02	17:55	18:44	20:35	21:24			22:00			21:58	12	06:27 (KLZ_WT21)	21:15	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00			05:30			05:44		06:15 (KLZ_WT21)	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25			22:01			21:57	12	06:27 (KLZ_WT21)	21:13	20:06	18:59	17:02	16:38
14	08:45	08:02	07:04	06:55	05:58			05:30			05:46		06:15 (KLZ_WT21)	06:29	07:18	08:06	07:59	08:41
	17:05	17:58	18:47	20:39	21:27			22:02			21:57	13	06:28 (KLZ_WT21)	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53	05:57			05:30			05:47		06:16 (KLZ_WT21)	06:31	07:19	08:08	08:01	08:42
	17:06	18:00	18:49	20:40	21:28			22:02			21:56	12	06:28 (KLZ_WT21)	21:09	20:02	18:55	16:59	16:38
16	08:43	07:59	06:59	06:50	05:55			05:30			05:48		06:17 (KLZ_WT21)	06:32	07:21	08:09	08:03	08:43
	17:08	18:02	18:51	20:42	21:30			22:03			21:55	12	06:29 (KLZ_WT21)	21:07	20:00	18:53	16:57	16:38
17	08:42	07:57	06:57	06:48	05:54			05:30			05:49		06:18 (KLZ_WT21)	06:34	07:22	08:11	08:04	08:44
	17:09	18:04	18:52	20:43	21:31			22:03			21:54	11	06:29 (KLZ_WT21)	21:05	19:57	18:51	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52			05:30			05:50		06:19 (KLZ_WT21)	06:35	07:24	08:13	08:06	08:45
	17:11	18:05	18:54	20:45	21:33			22:03			21:53	10	06:29 (KLZ_WT21)	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51		06:17 (KLZ_WT21)	05:30			05:51		06:21 (KLZ_WT21)	06:37	07:25	08:14	08:08	08:45
	17:13	18:07	18:56	20:47	21:34	1	06:18 (KLZ_WT21)	22:04			21:51	9	06:30 (KLZ_WT21)	21:01	19:53	18:46	16:54	16:39
20	08:39	07:51	06:50	06:42	05:50		06:16 (KLZ_WT21)	05:30			05:53		06:22 (KLZ_WT21)	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	2	06:18 (KLZ_WT21)	22:04			21:50	8	06:30 (KLZ_WT21)	20:59	19:51	18:44	16:52	16:40
21	08:38	07:49	06:48	06:40	05:48		06:15 (KLZ_WT21)	05:30			05:54		06:23 (KLZ_WT21)	06:40	07:29	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	4	06:19 (KLZ_WT21)	22:04			21:49	6	06:29 (KLZ_WT21)	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47		06:14 (KLZ_WT21)	05:30			05:55		06:24 (KLZ_WT21)	06:42	07:30	08:19	08:12	08:47
	17:17	18:13	19:01	20:52	21:38	6	06:20 (KLZ_WT21)	22:05			21:48	5	06:29 (KLZ_WT21)	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46		06:12 (KLZ_WT21)	05:30			05:57		06:25 (KLZ_WT21)	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	7	06:19 (KLZ_WT21)	22:05			21:47	3	06:28 (KLZ_WT21)	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:45		06:11 (KLZ_WT21)	05:31			05:58		06:27 (KLZ_WT21)	06:45	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	8	06:19 (KLZ_WT21)	22:05			21:45	2	06:29 (KLZ_WT21)	20:51	19:41	18:36	16:48	16:42
25	08:34	07:41	06:39	06:32	05:43		06:10 (KLZ_WT21)	05:31			05:59			06:46	07:35	07:24	08:17	08:48
	17:23	18:18	19:06	20:57	21:42	9	06:19 (KLZ_WT21)	22:05			21:44			20:48	19:39	17:34	16:47	16:42
26	08:32	07:39	06:37	06:30	05:42		06:09 (KLZ_WT21)	05:31			06:01			06:48	07:37	07:26	08:19	08:49
	17:24	18:20	19:07	20:58	21:43	10	06:19 (KLZ_WT21)	22:05			21:43			20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28	05:41		06:08 (KLZ_WT21)	05:32			06:02			06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	11	06:19 (KLZ_WT21)	22:05			21:41			20:44	19:35	17:30	16:45	16:44
28	08:30	07:34	06:32	06:26	05:40		06:08 (KLZ_WT21)	05:32			06:03			06:51	07:40	07:30	08:22	08:49
	17:28	18:23	19:11	21:01	21:46	12	06:20 (KLZ_WT21)	22:05			21:40			20:42	19:32	17:29	16:44	16:44
29	08:28		07:30	06:24	05:39		06:07 (KLZ_WT21)	05:33			06:05			06:53	07:41	07:31	08:23	08:49
	17:30		20:12	21:03	21:47	13	06:20 (KLZ_WT21)	22:05			21:38			20:40	19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38		06:06 (KLZ_WT21)	05:33			06:06			06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	13	06:19 (KLZ_WT21)	22:04			21:37			20:38	19:28	17:25	16:43	16:46
31	08:26		07:26		05:37		06:07 (KLZ_WT21)				06:08			06:56		07:35		08:50
	17:33		20:15		21:49	12	06:19 (KLZ_WT21)				21:35			20:36		17:23		16:47
Potential sun hours	262	279	367	414	482			494			498			451	380	333	269	248
Total, worst case						108			37			147						
Sun reduction						0,46			0,44			0,45						
Oper. time red.						0,99			0,99			0,99						
Wind dir. red.						0,70			0,70			0,70						
Total reduction						0,32			0,31			0,31						
Total, real						34			11			46						

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project Assumptions for shadow calculations

Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February	March	April			May			June	July	August			September	October	November	December
1	08:50	08:24	07:32	07:23			06:20		06:44 (KLZ_WT21)	05:37	05:34	06:09			06:57	07:45	07:37	08:26
	16:48	17:35	18:25	20:17			21:06	12	06:56 (KLZ_WT21)	21:51	22:04	21:34			20:33	19:26	17:21	16:42
2	08:50	08:23	07:30	07:21			06:18		06:42 (KLZ_WT21)	05:36	05:35	06:11		06:55 (KLZ_WT21)	06:59	07:46	07:38	08:27
	16:49	17:37	18:27	20:19			21:08	13	06:55 (KLZ_WT21)	21:52	22:04	21:32	3	06:58 (KLZ_WT21)	20:31	19:23	17:19	16:42
3	08:49	08:21	07:28	07:19			06:17		06:41 (KLZ_WT21)	05:35	05:35	06:12		06:52 (KLZ_WT21)	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20			21:10	15	06:56 (KLZ_WT21)	21:53	22:04	21:30	9	07:01 (KLZ_WT21)	20:29	19:21	17:18	16:41
4	08:49	08:20	07:26	07:17			06:15		06:39 (KLZ_WT21)	05:34	05:36	06:14		06:51 (KLZ_WT21)	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22			21:11	17	06:56 (KLZ_WT21)	21:54	22:03	21:29	12	07:03 (KLZ_WT21)	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14			06:13		06:38 (KLZ_WT21)	05:34	05:37	06:15		06:49 (KLZ_WT21)	07:03	07:51	07:44	08:31
	16:53	17:42	18:32	20:24			21:13	17	06:55 (KLZ_WT21)	21:55	22:03	21:27	14	07:03 (KLZ_WT21)	20:24	19:17	17:14	16:40
6	08:49	08:16	07:22	07:12			06:11		06:39 (KLZ_WT21)	05:33	05:38	06:17		06:48 (KLZ_WT21)	07:05	07:53	07:45	08:33
	16:54	17:44	18:34	20:25			21:14	16	06:55 (KLZ_WT21)	21:56	22:02	21:25	16	07:04 (KLZ_WT21)	20:22	19:14	17:12	16:40
7	08:48	08:15	07:19	07:10			06:09		06:39 (KLZ_WT21)	05:32	05:38	06:18		06:48 (KLZ_WT21)	07:07	07:54	07:47	08:34
	16:55	17:46	18:35	20:27			21:16	15	06:54 (KLZ_WT21)	21:57	22:02	21:24	17	07:05 (KLZ_WT21)	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08			06:08		06:39 (KLZ_WT21)	05:32	05:39	06:20		06:47 (KLZ_WT21)	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29			21:18	14	06:53 (KLZ_WT21)	21:57	22:01	21:22	18	07:05 (KLZ_WT21)	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:06			06:06		06:41 (KLZ_WT21)	05:32	05:40	06:21		06:49 (KLZ_WT21)	07:10	07:58	07:51	08:36
	16:58	17:49	18:39	20:30			21:19	11	06:52 (KLZ_WT21)	21:58	22:00	21:20	16	07:05 (KLZ_WT21)	20:16	19:08	17:08	16:39
10	08:47	08:09	07:13	07:03			06:04		06:42 (KLZ_WT21)	05:31	05:41	06:23		06:50 (KLZ_WT21)	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32			21:21	7	06:49 (KLZ_WT21)	21:59	22:00	21:18	15	07:05 (KLZ_WT21)	20:13	19:06	17:06	16:38
11	08:47	08:08	07:11	07:01			06:03			05:31	05:42	06:24		06:52 (KLZ_WT21)	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:34			21:22			22:00	21:59	21:16	13	07:05 (KLZ_WT21)	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59			06:01			05:30	05:43	06:26		06:53 (KLZ_WT21)	07:14	08:03	07:56	08:39
	17:02	17:55	18:44	20:35			21:24			22:00	21:58	21:15	11	07:04 (KLZ_WT21)	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57			06:00			05:30	05:44	06:27		06:54 (KLZ_WT21)	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37			21:25			22:01	21:57	21:13	9	07:03 (KLZ_WT21)	20:06	18:59	17:02	16:38
14	08:45	08:02	07:04	06:55			05:58			05:30	05:45	06:29		06:56 (KLZ_WT21)	07:18	08:06	07:59	08:41
	17:05	17:58	18:47	20:39			21:27			22:02	21:57	21:11	6	07:02 (KLZ_WT21)	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53			05:57			05:30	05:47	06:31		06:57 (KLZ_WT21)	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40			21:28			22:02	21:56	21:09	3	07:00 (KLZ_WT21)	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50			05:55			05:30	05:48	06:32			07:21	08:09	08:03	08:43
	17:08	18:02	18:51	20:42			21:30			22:03	21:55	21:07			20:00	18:53	16:57	16:38
17	08:42	07:57	06:57	06:48			05:54			05:30	05:49	06:34			07:22	08:11	08:04	08:44
	17:09	18:04	18:52	20:43			21:31			22:03	21:54	21:05			19:57	18:51	16:56	16:39
18	08:41	07:55	06:55	06:46			05:52			05:30	05:50	06:35			07:24	08:13	08:06	08:45
	17:11	18:05	18:54	20:45			21:33			22:04	21:53	21:03			19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44			05:51			05:30	05:51	06:37			07:25	08:14	08:08	08:45
	17:13	18:07	18:56	20:47			21:34			22:04	21:51	21:01			19:53	18:46	16:54	16:39
20	08:39	07:51	06:50	06:42			05:50			05:30	05:53	06:38			07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48			21:35			22:04	21:50	20:59			19:51	18:44	16:52	16:40
21	08:38	07:49	06:48	06:40			05:48			05:30	05:54	06:40			07:29	08:18	08:11	08:47
	17:16	18:11	18:59	20:50			21:37			22:04	21:49	20:57			19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38			05:47			05:30	05:55	06:41			07:30	08:19	08:12	08:47
	17:17	18:13	19:01	20:52			21:38			22:05	21:48	20:55			19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36			05:46			05:30	05:57	06:43			07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53			21:40			22:05	21:47	20:53			19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34			05:45			05:31	05:58	06:45			07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55			21:41			22:05	21:45	20:51			19:41	18:36	16:48	16:42
25	08:34	07:41	06:39	06:32			05:43			05:31	05:59	06:46			07:35	07:24	08:17	08:48
	17:23	18:18	19:06	20:57			21:42			22:05	21:44	20:48			19:39	17:34	16:47	16:42
26	08:32	07:39	06:37	06:30			05:42			05:31	06:01	06:48			07:37	07:26	08:19	08:49
	17:24	18:20	19:07	20:58			21:43			22:05	21:43	20:46			19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28		06:51 (KLZ_WT21)	05:41			05:32	06:02	06:49			07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	1	06:52 (KLZ_WT21)	21:45			22:05	21:41	20:44			19:35	17:30	16:45	16:44
28	08:30	07:34	06:32	06:26		06:50 (KLZ_WT21)	05:40			05:32	06:03	06:51			07:40	07:30	08:22	08:49
	17:28	18:23	19:11	21:01	4	06:54 (KLZ_WT21)	21:46			22:05	21:40	20:42			19:32	17:28	16:44	16:44
29	08:28		07:30	06:24		06:48 (KLZ_WT21)	05:39			05:33	06:05	06:52			07:41	07:31	08:23	08:49
	17:29		20:12	21:03	7	06:55 (KLZ_WT21)	21:47			22:05	21:38	20:40			19:30	17:27	16:44	16:45
30	08:27		07:28	06:22		06:46 (KLZ_WT21)	05:38			05:33	06:06	06:54			07:43	07:33	08:25	08:50
	17:31		20:14	21:05	9	06:55 (KLZ_WT21)	21:48			22:05	21:37	20:38			19:28	17:25	16:43	16:46
31	08:26		07:26				05:37				06:08	06:56				07:35		08:50
	17:33		20:15				21:49				21:35	20:36				17:23		16:47
Potential sun hours	262	279	367	415			482			495	498	451			380	333	269	248
Total, worst case					21			137					162					
Sun reduction					0,46			0,46					0,47					
Oper. time red.					0,99			0,99					0,99					
Wind dir. red.					0,67			0,67					0,67					
Total reduction					0,31			0,30					0,31					
Total, real					6			42					50					

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

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

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NL-1082 MS Amsterdam
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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project

Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February	March	April	May			June		
1	08:50	08:24	07:32	07:23	06:20			05:37		06:24 (KLZ_WT21)
	16:48	17:35	18:25	20:17	21:06			21:51	15	06:39 (KLZ_WT21)
2	08:50	08:23	07:30	07:21	06:18			05:36		06:25 (KLZ_WT21)
	16:49	17:37	18:27	20:19	21:08			21:52	14	06:39 (KLZ_WT21)
3	08:49	08:21	07:28	07:19	06:17			05:35		06:26 (KLZ_WT21)
	16:50	17:38	18:28	20:20	21:10			21:53	12	06:38 (KLZ_WT21)
4	08:49	08:19	07:26	07:17	06:15			05:34		06:27 (KLZ_WT21)
	16:51	17:40	18:30	20:22	21:11			21:54	10	06:37 (KLZ_WT21)
5	08:49	08:18	07:24	07:14	06:13			05:34		06:28 (KLZ_WT21)
	16:53	17:42	18:32	20:24	21:13			21:55	8	06:36 (KLZ_WT21)
6	08:49	08:16	07:22	07:12	06:11			05:33		06:30 (KLZ_WT21)
	16:54	17:44	18:33	20:25	21:14			21:56	4	06:34 (KLZ_WT21)
7	08:48	08:15	07:19	07:10	06:09			05:32		
	16:55	17:46	18:35	20:27	21:16			21:56		
8	08:48	08:13	07:17	07:08	06:08			05:32		
	16:56	17:47	18:37	20:29	21:17			21:57		
9	08:48	08:11	07:15	07:06	06:06		06:31 (KLZ_WT21)	05:31		
	16:58	17:49	18:39	20:30	21:19	4	06:35 (KLZ_WT21)	21:58		
10	08:47	08:09	07:13	07:03	06:04		06:29 (KLZ_WT21)	05:31		
	16:59	17:51	18:40	20:32	21:21	8	06:37 (KLZ_WT21)	21:59		
11	08:46	08:08	07:11	07:01	06:03		06:28 (KLZ_WT21)	05:31		
	17:00	17:53	18:42	20:34	21:22	11	06:39 (KLZ_WT21)	22:00		
12	08:46	08:06	07:08	06:59	06:01		06:26 (KLZ_WT21)	05:30		
	17:02	17:55	18:44	20:35	21:24	13	06:39 (KLZ_WT21)	22:00		
13	08:45	08:04	07:06	06:57	06:00		06:25 (KLZ_WT21)	05:30		
	17:03	17:56	18:45	20:37	21:25	15	06:40 (KLZ_WT21)	22:01		
14	08:45	08:02	07:04	06:55	05:58		06:23 (KLZ_WT21)	05:30		
	17:05	17:58	18:47	20:39	21:27	17	06:40 (KLZ_WT21)	22:02		
15	08:44	08:00	07:02	06:53	05:57		06:22 (KLZ_WT21)	05:30		
	17:06	18:00	18:49	20:40	21:28	19	06:41 (KLZ_WT21)	22:02		
16	08:43	07:58	06:59	06:50	05:55		06:21 (KLZ_WT21)	05:30		
	17:08	18:02	18:51	20:42	21:30	21	06:42 (KLZ_WT21)	22:03		
17	08:42	07:57	06:57	06:48	05:54		06:19 (KLZ_WT21)	05:30		
	17:09	18:04	18:52	20:43	21:31	23	06:42 (KLZ_WT21)	22:03		
18	08:41	07:55	06:55	06:46	05:52		06:18 (KLZ_WT21)	05:30		
	17:11	18:05	18:54	20:45	21:33	24	06:42 (KLZ_WT21)	22:03		
19	08:40	07:53	06:53	06:44	05:51		06:19 (KLZ_WT21)	05:30		
	17:13	18:07	18:56	20:47	21:34	23	06:42 (KLZ_WT21)	22:04		
20	08:39	07:51	06:50	06:42	05:49		06:19 (KLZ_WT21)	05:30		
	17:14	18:09	18:57	20:48	21:35	24	06:43 (KLZ_WT21)	22:04		
21	08:38	07:49	06:48	06:40	05:48		06:19 (KLZ_WT21)	05:30		
	17:16	18:11	18:59	20:50	21:37	24	06:43 (KLZ_WT21)	22:04		
22	08:37	07:47	06:46	06:38	05:47		06:18 (KLZ_WT21)	05:30		
	17:17	18:12	19:01	20:52	21:38	24	06:42 (KLZ_WT21)	22:05		
23	08:36	07:45	06:44	06:36	05:46		06:19 (KLZ_WT21)	05:30		
	17:19	18:14	19:02	20:53	21:40	23	06:42 (KLZ_WT21)	22:05		
24	08:35	07:43	06:41	06:34	05:44		06:19 (KLZ_WT21)	05:31		
	17:21	18:16	19:04	20:55	21:41	23	06:42 (KLZ_WT21)	22:05		
25	08:34	07:41	06:39	06:32	05:43		06:19 (KLZ_WT21)	05:31		
	17:22	18:18	19:06	20:57	21:42	22	06:41 (KLZ_WT21)	22:05		
26	08:32	07:39	06:37	06:30	05:42		06:20 (KLZ_WT21)	05:31		
	17:24	18:20	19:07	20:58	21:43	21	06:41 (KLZ_WT21)	22:05		
27	08:31	07:36	06:35	06:28	05:41		06:20 (KLZ_WT21)	05:32		
	17:26	18:21	19:09	21:00	21:45	21	06:41 (KLZ_WT21)	22:05		
28	08:30	07:34	06:32	06:26	05:40		06:22 (KLZ_WT21)	05:32		
	17:28	18:23	19:10	21:01	21:46	19	06:41 (KLZ_WT21)	22:05		
29	08:28		07:30	06:24	05:39		06:22 (KLZ_WT21)	05:33		
	17:29		20:12	21:03	21:47	19	06:41 (KLZ_WT21)	22:05		
30	08:27		07:28	06:22	05:38		06:23 (KLZ_WT21)	05:33		
	17:31		20:14	21:05	21:48	17	06:40 (KLZ_WT21)	22:04		
31	08:26		07:26		05:37		06:23 (KLZ_WT21)			
	17:33		20:15		21:49	16	06:39 (KLZ_WT21)			
Potential sun hours	262	279	367	415	482			495		
Total, worst case						431			63	
Sun reduction						0,46			0,44	
Oper. time red.						0,99			0,99	
Wind dir. red.						0,69			0,69	
Total reduction						0,31			0,30	
Total, real						135			19	

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

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project Assumptions for shadow calculations

Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	July			August			September	October	November	December
1	05:34			06:09		06:37 (KLZ_WT21)	06:57	07:45	07:37	08:26
	22:04			21:34	12	06:49 (KLZ_WT21)	20:33	19:25	17:21	16:42
2	05:35			06:11		06:39 (KLZ_WT21)	06:59	07:46	07:38	08:27
	22:04			21:32	10	06:49 (KLZ_WT21)	20:31	19:23	17:19	16:42
3	05:35			06:12		06:40 (KLZ_WT21)	07:00	07:48	07:40	08:29
	22:04			21:30	7	06:47 (KLZ_WT21)	20:29	19:21	17:18	16:41
4	05:36			06:14		06:41 (KLZ_WT21)	07:02	07:49	07:42	08:30
	22:03			21:29	3	06:44 (KLZ_WT21)	20:27	19:19	17:16	16:40
5	05:37			06:15			07:03	07:51	07:44	08:31
	22:03			21:27			20:24	19:17	17:14	16:40
6	05:38			06:17			07:05	07:53	07:45	08:33
	22:02			21:25			20:22	19:14	17:12	16:40
7	05:38		06:35 (KLZ_WT21)	06:18			07:07	07:54	07:47	08:34
	22:02	6	06:41 (KLZ_WT21)	21:24			20:20	19:12	17:11	16:39
8	05:39		06:34 (KLZ_WT21)	06:20			07:08	07:56	07:49	08:35
	22:01	9	06:43 (KLZ_WT21)	21:22			20:18	19:10	17:09	16:39
9	05:40		06:33 (KLZ_WT21)	06:21			07:10	07:58	07:51	08:36
	22:00	11	06:44 (KLZ_WT21)	21:20			20:15	19:08	17:08	16:39
10	05:41		06:33 (KLZ_WT21)	06:23			07:11	07:59	07:52	08:37
	22:00	13	06:46 (KLZ_WT21)	21:18			20:13	19:05	17:06	16:38
11	05:42		06:32 (KLZ_WT21)	06:24			07:13	08:01	07:54	08:38
	21:59	15	06:47 (KLZ_WT21)	21:16			20:11	19:03	17:04	16:38
12	05:43		06:32 (KLZ_WT21)	06:26			07:14	08:02	07:56	08:39
	21:58	15	06:47 (KLZ_WT21)	21:14			20:09	19:01	17:03	16:38
13	05:44		06:31 (KLZ_WT21)	06:27			07:16	08:04	07:57	08:40
	21:57	17	06:48 (KLZ_WT21)	21:13			20:06	18:59	17:01	16:38
14	05:45		06:31 (KLZ_WT21)	06:29			07:18	08:06	07:59	08:41
	21:56	18	06:49 (KLZ_WT21)	21:11			20:04	18:57	17:00	16:38
15	05:47		06:30 (KLZ_WT21)	06:31			07:19	08:07	08:01	08:42
	21:56	20	06:50 (KLZ_WT21)	21:09			20:02	18:55	16:59	16:38
16	05:48		06:30 (KLZ_WT21)	06:32			07:21	08:09	08:03	08:43
	21:55	20	06:50 (KLZ_WT21)	21:07			20:00	18:53	16:57	16:38
17	05:49		06:30 (KLZ_WT21)	06:34			07:22	08:11	08:04	08:44
	21:54	21	06:51 (KLZ_WT21)	21:05			19:57	18:50	16:56	16:39
18	05:50		06:29 (KLZ_WT21)	06:35			07:24	08:13	08:06	08:45
	21:53	22	06:51 (KLZ_WT21)	21:03			19:55	18:48	16:55	16:39
19	05:51		06:29 (KLZ_WT21)	06:37			07:25	08:14	08:08	08:45
	21:51	22	06:51 (KLZ_WT21)	21:01			19:53	18:46	16:54	16:39
20	05:53		06:29 (KLZ_WT21)	06:38			07:27	08:16	08:09	08:46
	21:50	23	06:52 (KLZ_WT21)	20:59			19:50	18:44	16:52	16:39
21	05:54		06:29 (KLZ_WT21)	06:40			07:29	08:18	08:11	08:47
	21:49	23	06:52 (KLZ_WT21)	20:57			19:48	18:42	16:51	16:40
22	05:55		06:29 (KLZ_WT21)	06:41			07:30	08:19	08:12	08:47
	21:48	23	06:52 (KLZ_WT21)	20:55			19:46	18:40	16:50	16:40
23	05:56		06:29 (KLZ_WT21)	06:43			07:32	08:21	08:14	08:48
	21:47	23	06:52 (KLZ_WT21)	20:53			19:44	18:38	16:49	16:41
24	05:58		06:29 (KLZ_WT21)	06:45			07:33	08:23	08:16	08:48
	21:45	24	06:53 (KLZ_WT21)	20:50			19:41	18:36	16:48	16:41
25	05:59		06:29 (KLZ_WT21)	06:46			07:35	07:24	08:17	08:48
	21:44	24	06:53 (KLZ_WT21)	20:48			19:39	17:34	16:47	16:42
26	06:01		06:29 (KLZ_WT21)	06:48			07:37	07:26	08:19	08:49
	21:43	23	06:52 (KLZ_WT21)	20:46			19:37	17:32	16:46	16:43
27	06:02		06:30 (KLZ_WT21)	06:49			07:38	07:28	08:20	08:49
	21:41	22	06:52 (KLZ_WT21)	20:44			19:35	17:30	16:45	16:44
28	06:03		06:32 (KLZ_WT21)	06:51			07:40	07:30	08:22	08:49
	21:40	20	06:52 (KLZ_WT21)	20:42			19:32	17:28	16:44	16:44
29	06:05		06:33 (KLZ_WT21)	06:52			07:41	07:31	08:23	08:49
	21:38	19	06:52 (KLZ_WT21)	20:40			19:30	17:27	16:44	16:45
30	06:06		06:35 (KLZ_WT21)	06:54			07:43	07:33	08:25	08:50
	21:37	17	06:52 (KLZ_WT21)	20:38			19:28	17:25	16:43	16:46
31	06:08		06:36 (KLZ_WT21)	06:56				07:35		08:50
	21:35	15	06:51 (KLZ_WT21)	20:35				17:23		16:47
Potential sun hours	498			451			380	333	269	248
Total, worst case		465			32					
Sun reduction		0,45			0,47					
Oper. time red.		0,99			0,99					
Wind dir. red.		0,69			0,69					
Total reduction		0,31			0,32					
Total, real		143			10					

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

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw - Windpark Armasteel - Project Assumptions for shadow calculations

Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February	March	April	May		June		July		August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20		05:37		06:09 (KLZ_WT21)	05:34	06:16 (KLZ_WT21)	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06		21:51	29	06:38 (KLZ_WT21)	22:04	28	06:44 (KLZ_WT21)	21:34	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18		05:36		06:10 (KLZ_WT21)	05:35		06:15 (KLZ_WT21)	06:11	06:59	07:46	07:38	08:27
	16:49	17:37	18:27	20:19	21:08		21:52	29	06:39 (KLZ_WT21)	22:04	29	06:44 (KLZ_WT21)	21:32	20:31	19:23	17:19	16:42
3	08:49	08:21	07:28	07:19	06:17		05:35		06:10 (KLZ_WT21)	05:35		06:16 (KLZ_WT21)	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:10		21:53	28	06:38 (KLZ_WT21)	22:04	28	06:44 (KLZ_WT21)	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:17	06:15		05:34		06:09 (KLZ_WT21)	05:36		06:16 (KLZ_WT21)	06:14	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11		21:54	29	06:38 (KLZ_WT21)	22:03	29	06:45 (KLZ_WT21)	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13		05:34		06:10 (KLZ_WT21)	05:37		06:17 (KLZ_WT21)	06:15	07:03	07:51	07:44	08:31
	16:53	17:42	18:32	20:24	21:13		21:55	29	06:39 (KLZ_WT21)	22:03	28	06:45 (KLZ_WT21)	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11		05:33		06:10 (KLZ_WT21)	05:38		06:16 (KLZ_WT21)	06:17	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14		21:56	29	06:39 (KLZ_WT21)	22:02	29	06:45 (KLZ_WT21)	21:25	20:22	19:14	17:12	16:40
7	08:48	08:15	07:19	07:10	06:09		05:32		06:10 (KLZ_WT21)	05:38		06:16 (KLZ_WT21)	06:18	07:07	07:54	07:47	08:34
	16:55	17:46	18:35	20:27	21:16		21:56	29	06:39 (KLZ_WT21)	22:02	29	06:45 (KLZ_WT21)	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08		05:32		06:11 (KLZ_WT21)	05:39		06:17 (KLZ_WT21)	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:17		21:57	29	06:40 (KLZ_WT21)	22:01	29	06:46 (KLZ_WT21)	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:06	06:06		05:31		06:11 (KLZ_WT21)	05:40		06:17 (KLZ_WT21)	06:21	07:10	07:58	07:50	08:36
	16:58	17:49	18:39	20:30	21:19		21:58	28	06:39 (KLZ_WT21)	22:00	29	06:46 (KLZ_WT21)	21:20	20:15	19:08	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04		05:31		06:11 (KLZ_WT21)	05:41		06:17 (KLZ_WT21)	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21		21:59	29	06:40 (KLZ_WT21)	22:00	29	06:46 (KLZ_WT21)	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:11	07:01	06:03		05:31		06:12 (KLZ_WT21)	05:42		06:18 (KLZ_WT21)	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:34	21:22		22:00	28	06:40 (KLZ_WT21)	21:59	28	06:46 (KLZ_WT21)	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01		05:30		06:11 (KLZ_WT21)	05:43		06:18 (KLZ_WT21)	06:26	07:14	08:02	07:56	08:39
	17:02	17:55	18:44	20:35	21:24		22:00	29	06:40 (KLZ_WT21)	21:58	28	06:46 (KLZ_WT21)	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00		05:30		06:12 (KLZ_WT21)	05:44		06:18 (KLZ_WT21)	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25		22:01	28	06:40 (KLZ_WT21)	21:57	28	06:46 (KLZ_WT21)	21:13	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58		05:30		06:12 (KLZ_WT21)	05:45		06:18 (KLZ_WT21)	06:29	07:18	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27		22:02	28	06:40 (KLZ_WT21)	21:56	28	06:46 (KLZ_WT21)	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53	05:56		05:30		06:12 (KLZ_WT21)	05:47		06:19 (KLZ_WT21)	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28		22:02	28	06:40 (KLZ_WT21)	21:56	27	06:46 (KLZ_WT21)	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55		05:30		06:13 (KLZ_WT21)	05:48		06:19 (KLZ_WT21)	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30		22:03	28	06:41 (KLZ_WT21)	21:55	27	06:46 (KLZ_WT21)	21:07	20:00	18:53	16:57	16:38
17	08:42	07:57	06:57	06:48	05:54	06:19 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)	05:49		06:19 (KLZ_WT21)	06:34	07:22	08:11	08:04	08:44
	17:09	18:04	18:52	20:43	21:31	7 06:26 (KLZ_WT21)	22:03	28	06:41 (KLZ_WT21)	21:54	27	06:46 (KLZ_WT21)	21:05	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52	06:18 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)	05:50		06:20 (KLZ_WT21)	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	11 06:29 (KLZ_WT21)	22:03	28	06:41 (KLZ_WT21)	21:52	25	06:45 (KLZ_WT21)	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	06:17 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)	05:51		06:20 (KLZ_WT21)	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:56	20:47	21:34	14 06:31 (KLZ_WT21)	22:04	28	06:41 (KLZ_WT21)	21:51	25	06:45 (KLZ_WT21)	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	06:16 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)	05:53		06:22 (KLZ_WT21)	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	16 06:32 (KLZ_WT21)	22:04	28	06:41 (KLZ_WT21)	21:50	23	06:45 (KLZ_WT21)	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	06:15 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)	05:54		06:23 (KLZ_WT21)	06:40	07:29	08:18	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	18 06:33 (KLZ_WT21)	22:04	28	06:41 (KLZ_WT21)	21:49	21	06:44 (KLZ_WT21)	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	06:13 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)	05:55		06:24 (KLZ_WT21)	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:01	20:52	21:38	20 06:33 (KLZ_WT21)	22:05	28	06:42 (KLZ_WT21)	21:48	19	06:43 (KLZ_WT21)	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	06:12 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)	05:56		06:25 (KLZ_WT21)	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22 06:34 (KLZ_WT21)	22:05	28	06:42 (KLZ_WT21)	21:47	17	06:42 (KLZ_WT21)	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	06:11 (KLZ_WT21)	05:31		06:14 (KLZ_WT21)	05:58		06:27 (KLZ_WT21)	06:45	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	24 06:35 (KLZ_WT21)	22:05	28	06:42 (KLZ_WT21)	21:45	15	06:42 (KLZ_WT21)	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39	06:32	05:43	06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)	05:59		06:28 (KLZ_WT21)	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:57	21:42	25 06:35 (KLZ_WT21)	22:05	28	06:43 (KLZ_WT21)	21:44	12	06:40 (KLZ_WT21)	20:48	19:39	17:34	16:47	16:42
26	08:32	07:39	06:37	06:30	05:42	06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)	06:01		06:29 (KLZ_WT21)	06:48	07:36	07:26	08:19	08:49
	17:24	18:20	19:07	20:58	21:43	26 06:36 (KLZ_WT21)	22:05	28	06:43 (KLZ_WT21)	21:43	9	06:38 (KLZ_WT21)	20:46	19:37	17:32	16:46	16:43
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	17:26	18:21	19:09	21:00	21:45	26 06:36 (KLZ_WT21)	22:05	28	06:43 (KLZ_WT21)	21:41	2	06:34 (KLZ_WT21)	20:44	19:35	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	06:09 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)	06:03			06:51	07:40	07:30	08:22	08:49
	17:28	18:23	19:10	21:01	21:46	27 06:36 (KLZ_WT21)	22:05	28	06:43 (KLZ_WT21)	21:40			20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	06:10 (KLZ_WT21)	05:33		06:16 (KLZ_WT21)	06:05			06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	28 06:38 (KLZ_WT21)	22:05	28	06:44 (KLZ_WT21)	21:38			20:40	19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38	06:10 (KLZ_WT21)	05:33		06:15 (KLZ_WT21)	06:06			06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	28 06:38 (KLZ_WT21)	22:04	29	06:44 (KLZ_WT21)	21:37			20:38	19:28	17:25	16:43	16:46
31	08:26		07:26		05:37	06:09 (KLZ_WT21)				06:08			06:56		07:35		08:50
	17:33		20:15		21:49	29 06:38 (KLZ_WT21)				21:35			20:35		17:23		16:47
Potential sun hours	262	279	367	415	482		495			498		451	380	333	269	248
Total, worst case					321		850			648						
Sun reduction					0,46		0,44			0,45						
Oper. time red.					0,99		0,99			0,99						
Wind dir. red.					0,70		0,70			0,70						
Total reduction					0,32		0,31			0,31						
Total, real					102		261			201						

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

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

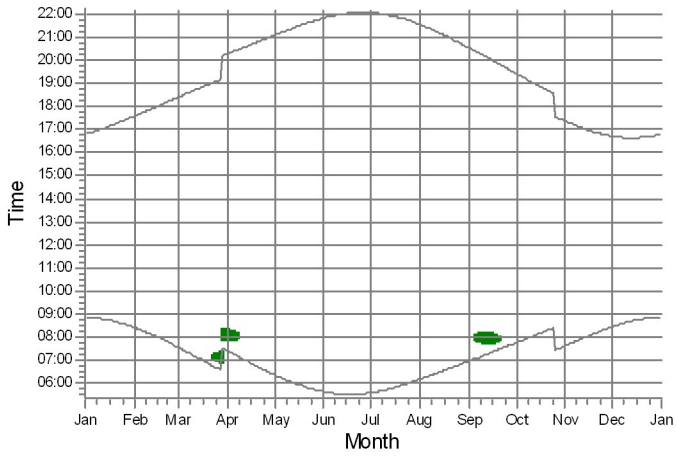
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 20:57/4.1.264

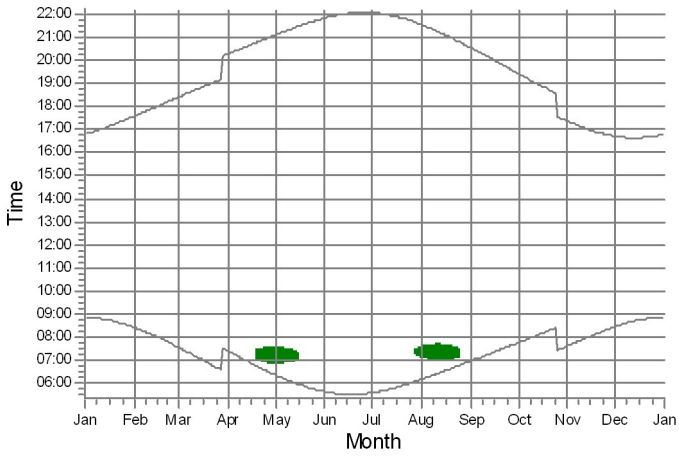
SHADOW - Calendar, graphical

Calculation: Slagschaduw - Windpark Armasteel - Project

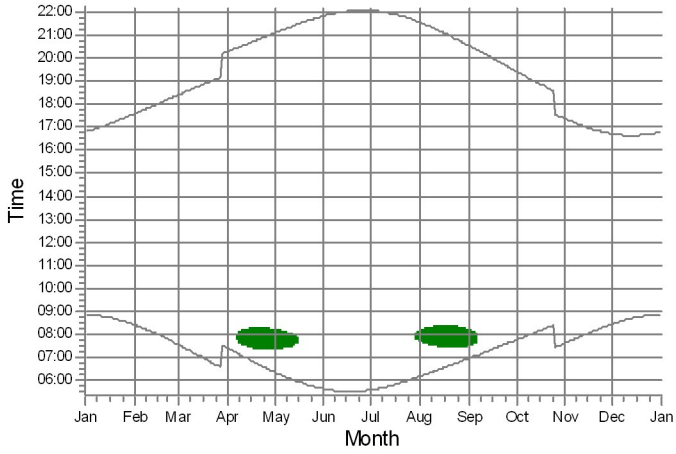
1: Hoogstraat 54, 9940 Evergem



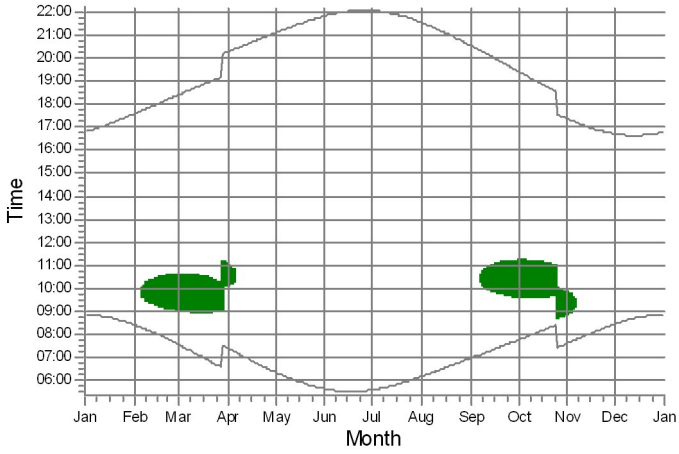
2: Pachtgoederen 2, 9940 Evergem



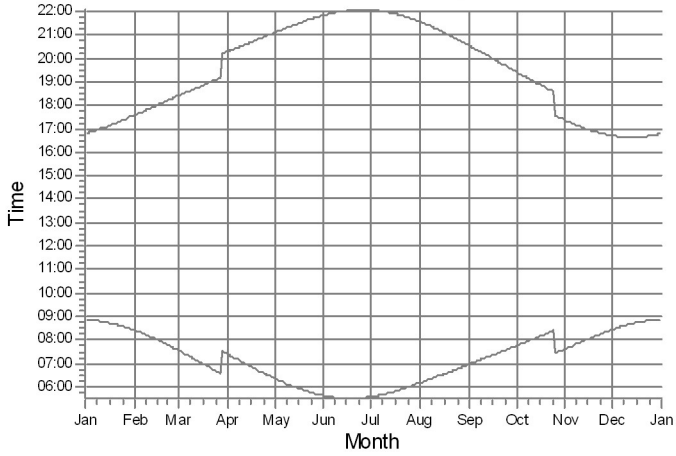
3: Pachtgoederen 2, 9940 Evergem



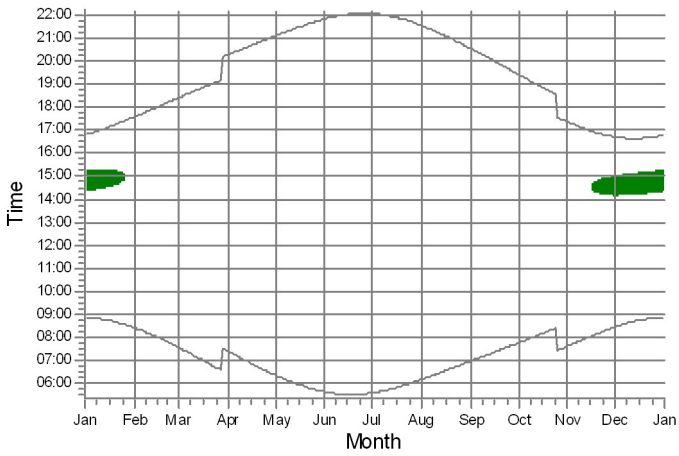
4: James Cookstraat 10, 9042 Gent



5: Pelikaanstraat 60, 9940 Evergem



6: Christoffel Columbuslaan 23, 9042 Gent



WTGs

KLZ_WT21: KLZ_WT21 Armasteel

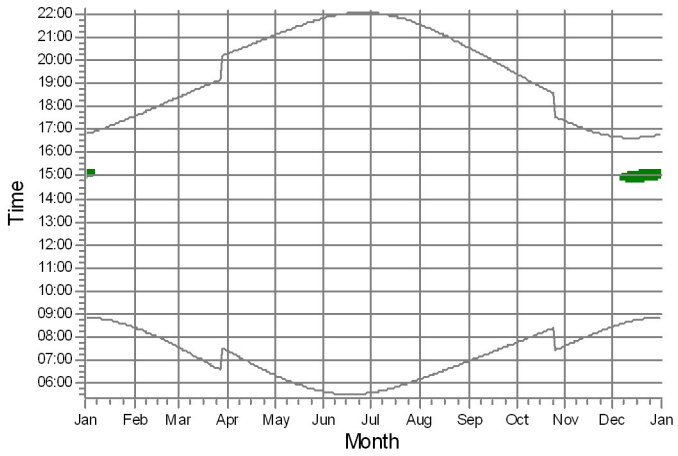
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 20:57/4.1.264

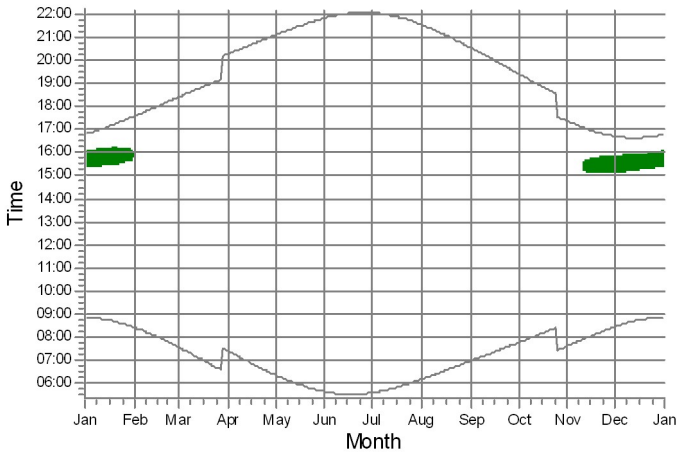
SHADOW - Calendar, graphical

Calculation: Slagschaduw - Windpark Armasteel - Project

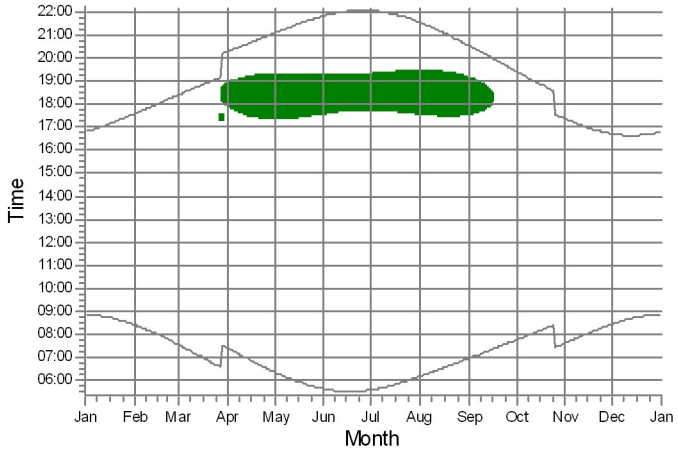
7: Christoffel Columbuslaan 23, 9042 Gent



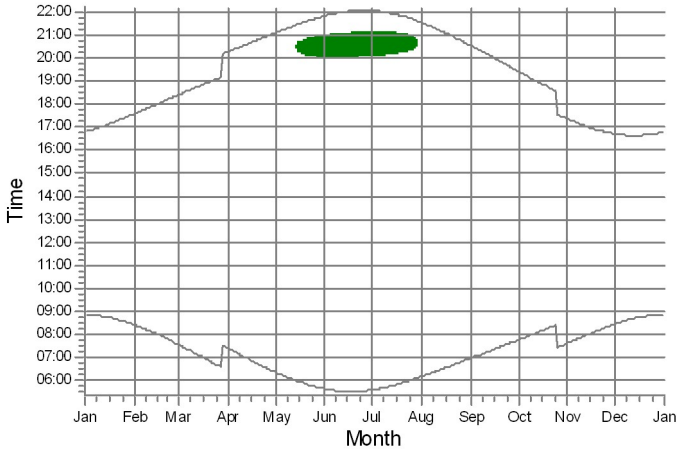
8: Christoffel Columbuslaan 17, 9042 Gent



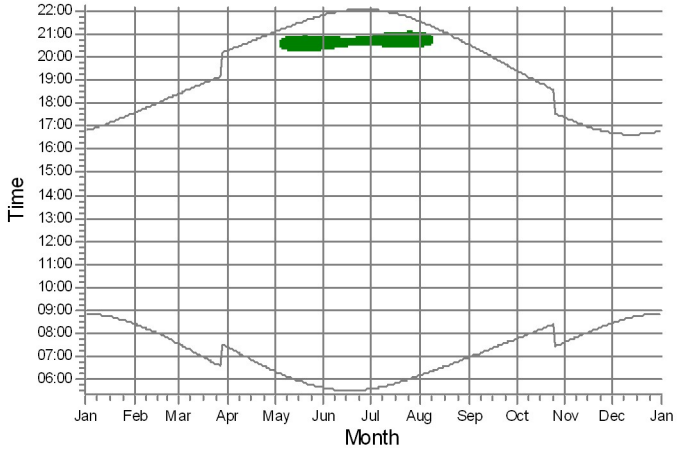
9: Willem van Rubroeckstraat 2, 9042 Gent



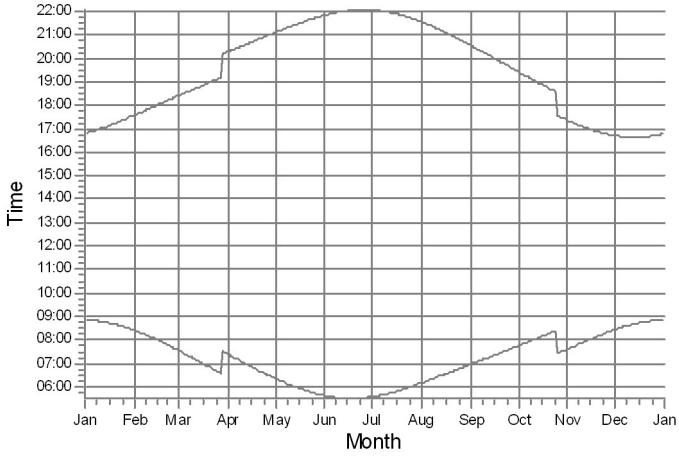
10: Willem van Rubroeckstraat 26, 9042 Gent



11: Arbedkaai 3, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

KLZ_WT21: KLZ_WT21 Armasteel

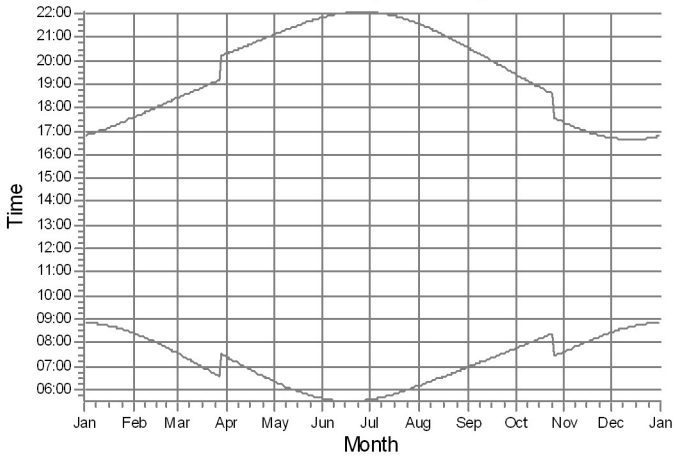
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 20:57/4.1.264

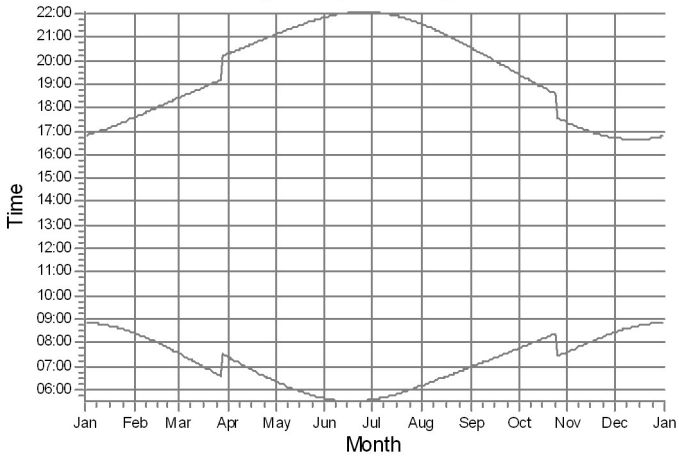
SHADOW - Calendar, graphical

Calculation: Slagschaduw - Windpark Armasteel - Project

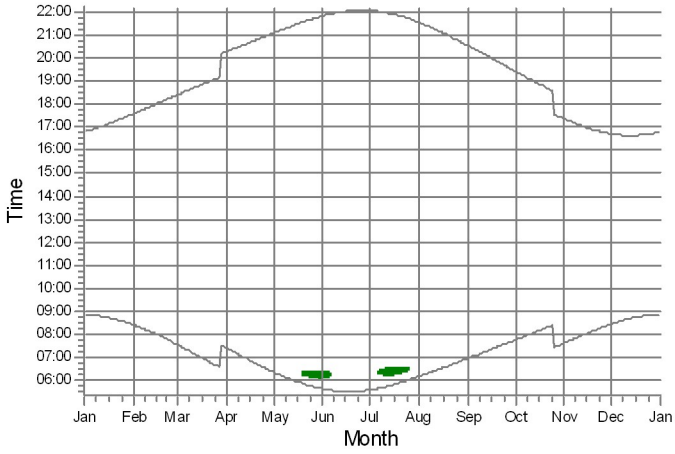
13: Doornzele Dries 107, 9940 Evergem



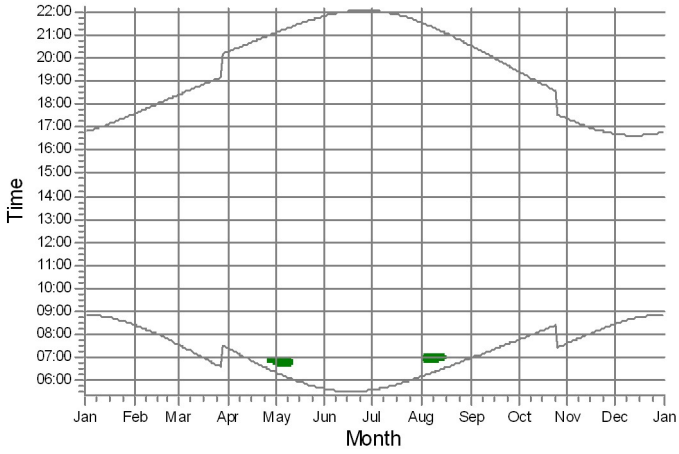
14: Abdijdreef 2, 9940 Evergem



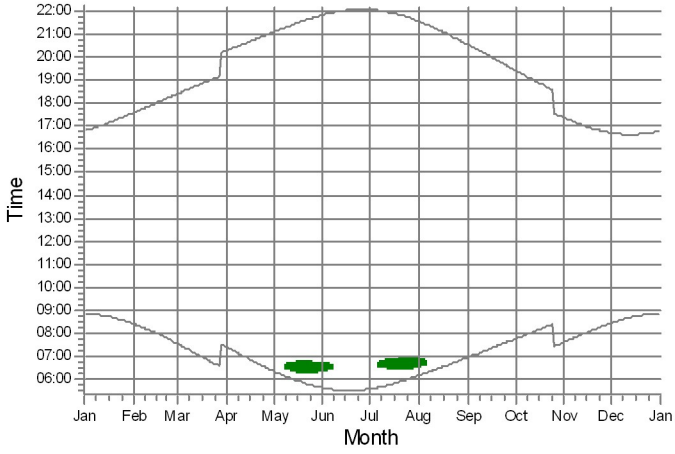
15: Hageland 14, 9940 Evergem



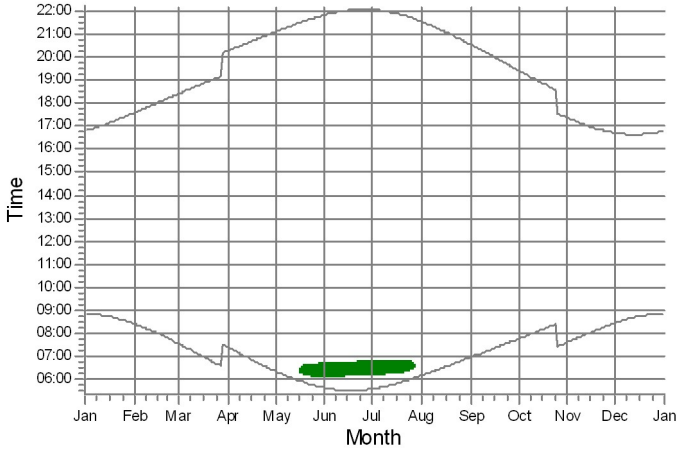
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

KLZ_WT21: KLZ_WT21 Armasteel

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

Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw - Windpark Armasteel - Project Assumptions for shadow calculations

WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	January	February	March	April	May	June
1	08:50 15:27-16:01/34 16:48 14:26-15:14/48	08:24	07:32 09:04-10:34/90 18:25	07:23 17:59-18:52/53 07:53-08:17/24 20:17 10:09-10:57/48	06:20 06:44-08:09/85 21:06 17:25-19:16/111	05:36 06:07-06:39/32 17:38-19:14/96 21:51 20:06-20:56/50
2	08:50 15:27-16:01/34 16:49 14:27-15:14/47	08:23 17:36	07:30 09:03-10:34/91 18:26	07:21 17:56-18:54/58 07:52-08:16/24 20:19 10:12-10:54/42	06:18 06:42-08:08/86 21:08 17:25-19:16/111	05:36 06:09-06:39/30 17:40-19:14/94 21:52 20:06-20:57/51
3	08:49 15:28-16:02/34 16:50 14:28-15:13/45	08:21 17:38	07:28 09:03-10:34/91 18:28	07:19 17:54-18:57/63 07:52-08:15/23 20:20 10:14-10:50/36	06:16 06:41-08:08/87 21:09 17:25-19:16/111	05:35 06:09-06:38/29 17:40-19:14/94 21:53 20:06-20:57/51
4	08:49 15:28-16:02/34 16:51 14:28-15:13/45	08:19 17:40	07:26 09:03-10:35/92 18:30	07:17 17:51-18:59/68 07:53-08:14/21 20:22 10:17-10:46/29	06:15 06:39-08:06/87 21:11 17:26-19:16/110	05:34 06:09-06:39/29 17:40-19:13/93 21:54 20:05-20:57/52
5	08:49 15:28-16:03/35 16:52 14:29-15:13/44	08:18 17:42	07:24 09:01-10:34/93 18:32	07:14 17:49-19:01/72 07:54-08:13/19 20:24 10:23-10:40/17	06:13 06:38-06:55/17 17:25-19:16/111 21:13 20:30-20:41/11 06:56-08:05/69	05:33 06:10-06:39/29 17:41-19:14/93 21:55 20:06-20:58/52
6	08:49 15:28-16:03/35 16:54 14:29-15:13/44	08:16 09:40-10:00/20 17:44	07:21 09:01-10:34/93 18:33	07:12 17:46-19:01/75 20:25 07:55-08:10/15	06:11 06:39-06:55/16 17:25-19:16/111 06:57-07:26/29 21:14 20:27-20:43/16 07:27-08:05/38	05:33 06:10-06:39/29 17:41-19:13/92 21:56 20:05-20:58/53
7	08:48 15:29-16:04/35 16:55 14:30-15:14/44	08:15 09:36-10:05/29 17:45	07:19 09:01-10:34/93 18:35	07:10 17:45-19:03/78 07:57-08:07/10 20:27 07:51-07:54/3	06:09 06:39-06:54/15 17:26-19:16/110 06:57-07:25/28 21:16 20:26-20:46/20 07:28-08:03/35	05:32 06:10-06:39/29 17:42-19:14/92 21:56 20:06-20:59/53
8	08:48 15:29-16:04/35 16:56 14:30-15:13/43	08:13 09:33-10:09/36 17:47	07:17 09:01-10:34/93 18:37	07:08 17:43-19:05/82 20:29 07:44-08:01/17	06:08 06:39-06:53/14 17:26-19:16/110 06:57-07:24/27 21:17 20:24-20:47/23 07:28-08:01/33	05:32 06:11-06:40/29 17:42-19:13/91 21:57 20:05-20:59/54
9	08:47 15:30-16:05/35 16:58 14:31-15:14/43	08:11 09:30-10:12/42 17:49	07:15 09:01-10:34/93 18:39	07:05 17:41-19:06/85 20:30 07:41-08:04/23	06:06 06:31-06:35/4 20:23-20:48/25 07:30-08:00/30 21:19 06:41-06:52/11 17:27-19:16/109 06:58-07:23/25	05:31 06:11-06:39/28 17:43-19:14/91 21:58 20:06-21:00/54
10	08:47 15:29-16:06/37 16:59 14:32-15:14/42	08:09 09:28-10:14/46 17:51	07:13 09:00-10:32/92 18:40	07:03 17:40-19:07/87 20:32 07:38-08:06/28	06:04 06:29-06:37/8 20:22-20:49/27 07:31-07:58/27 21:21 06:42-06:49/7 17:27-19:16/109 06:59-07:22/23	05:31 06:11-06:40/29 17:44-19:14/90 21:59 20:06-21:00/54
11	08:46 15:30-16:06/36 17:00 14:32-15:14/42	08:08 09:25-10:16/51 17:53	07:10 09:00-10:32/92 18:42	07:01 17:39-19:08/89 20:33 07:36-08:08/32	06:03 06:28-06:39/11 17:28-19:16/108 07:00-07:21/21 21:22 20:22-20:50/28 07:33-07:57/24	05:31 06:12-06:40/28 17:45-19:14/89 22:00 20:06-21:01/55
12	08:46 15:30-16:06/36 17:02 14:34-15:14/40	08:06 09:23-10:18/55 17:54	07:08 09:00-10:32/92 18:44	06:59 17:37-19:08/91 20:35 07:33-08:08/35	06:01 06:26-06:39/13 17:27-19:16/109 07:01-07:19/18 21:24 20:21-20:50/29 07:34-07:55/21	05:30 06:11-06:40/29 17:44-19:14/90 22:00 20:06-21:00/54
13	08:45 15:31-16:07/36 17:03 14:35-15:14/39	08:04 09:21-10:20/59 17:56	07:06 09:00-10:31/91 18:45	06:57 17:35-19:09/94 20:37 07:32-08:09/37	05:59 06:25-06:40/15 17:28-19:16/108 07:03-07:17/14 21:25 20:21-20:51/30 07:37-07:53/16	05:30 06:12-06:40/28 17:45-19:14/89 22:01 20:06-21:01/55
14	08:44 15:31-16:07/36 17:05 14:35-15:14/39	08:02 09:19-10:22/63 17:58	07:04 08:59-10:30/91 18:47	06:55 17:34-19:10/96 20:38 07:30-08:10/40	05:58 06:23-06:40/17 17:28-19:15/107 07:05-07:14/9 21:27 20:20-20:51/31 07:41-07:48/7	05:30 06:12-06:40/28 17:45-19:14/89 22:02 20:06-21:01/55
15	08:44 15:32-16:08/36 17:06 14:36-15:14/38	08:00 09:18-10:23/65 18:00	07:02 08:59-10:29/90 18:49	06:52 17:33-19:11/98 20:40 07:29-08:11/42	05:56 06:22-06:41/19 17:29-19:16/107 21:28 20:20-20:51/31	05:30 06:12-06:40/28 17:46-19:14/88 22:02 20:06-21:02/56
16	08:43 15:32-16:08/36 17:08 14:37-15:13/36	07:58 09:16-10:24/68 18:02	06:59 09:00-10:29/89 18:50	06:50 17:32-19:12/100 20:42 07:28-08:12/44	05:55 06:21-06:42/21 17:30-19:16/106 21:30 20:20-20:52/32	05:30 06:13-06:41/28 17:46-19:14/88 22:03 20:06-21:02/56
17	08:42 15:32-16:08/36 17:09 14:39-15:13/34	07:56 09:15-10:26/71 18:03	06:57 08:59-10:27/88 18:52	06:48 17:31-19:12/101 20:43 07:27-08:12/45	05:53 06:19-06:42/23 17:29-19:15/106 21:31 20:19-20:52/33	05:29 06:13-06:41/28 17:47-19:15/88 22:03 20:07-21:02/55
18	08:41 15:33-16:08/35 17:11 14:40-15:13/33	07:55 09:14-10:27/73 18:05	06:55 08:59-10:26/87 18:54	06:46 17:31-19:13/102 20:45 07:26-08:13/47	05:52 06:18-06:42/24 17:30-19:15/105 21:33 20:17-20:52/35	05:29 06:13-06:41/28 17:47-19:15/88 22:03 20:07-21:02/55
19	08:40 15:34-16:09/35 17:12 14:42-15:12/30	07:53 09:12-10:28/76 18:07	06:53 09:00-10:25/85 18:55	06:44 17:30-19:13/103 07:10-07:19/9 20:47 07:26-08:13/47	05:51 06:17-06:42/25 17:31-19:15/104 21:34 20:15-20:52/37	05:29 06:13-06:41/28 17:47-19:15/88 22:04 20:07-21:03/56
20	08:39 15:35-16:09/34 17:14 14:43-15:11/28	07:51 09:11-10:29/78 18:09	06:50 09:00-10:24/84 18:57	06:42 17:29-19:14/105 07:06-07:22/16 20:48 07:25-08:13/48	05:49 06:16-06:43/27 17:32-19:16/104 21:35 20:14-20:53/39	05:30 06:13-06:41/28 17:47-19:15/88 22:04 20:07-21:03/56
21	08:38 15:34-16:08/34 17:16 14:44-15:09/25	07:49 09:10-10:30/80 18:11	06:48 09:00-10:22/82 18:59	06:40 17:29-19:14/105 07:04-07:24/20 20:50 07:25-08:13/48	05:48 06:15-06:43/28 17:31-19:15/104 21:37 20:12-20:52/40	05:30 06:13-06:41/28 17:47-19:15/88 22:04 20:07-21:03/56
22	08:37 15:35-16:08/33 17:17 14:47-15:08/21	07:47 09:09-10:31/82 18:12	06:46 09:01-10:20/79 19:00	06:38 17:28-19:15/107 20:52 07:02-08:13/71	05:47 06:13-06:42/29 17:32-19:15/103 21:38 20:11-20:52/41	05:30 06:14-06:42/28 17:48-19:16/88 22:05 20:08-21:04/56
23	08:36 15:36-16:08/32 17:19 14:50-15:07/17	07:45 09:09-10:31/82 18:14	06:44 09:01-10:19/78 19:02 07:06-07:10/4	06:36 17:27-19:15/108 20:53 07:01-08:13/72	05:46 06:12-06:42/30 17:33-19:15/102 21:39 20:10-20:52/42	05:30 06:14-06:42/28 17:48-19:16/88 22:05 20:08-21:04/56
24	08:35 15:37-16:07/30 17:21 14:53-15:03/10	07:43 09:08-10:32/84 18:16	06:41 09:02-10:18/76 19:04 07:04-07:14/10	06:34 17:27-19:15/108 20:55 06:59-08:12/73	05:44 06:11-06:42/31 17:34-19:14/100 21:41 20:10-20:52/42	05:30 06:14-06:42/28 17:48-19:16/88 22:05 20:08-21:03/55
25	08:34 15:38-16:07/29 17:22	07:41 09:07-10:33/86 18:18	06:39 09:02-10:15/73 19:05 07:01-07:15/14	06:32 17:26-19:15/109 20:56 06:58-08:12/74	05:43 06:10-06:41/31 17:34-19:14/100 21:42 20:09-20:52/43	05:31 06:15-06:43/28 17:49-19:17/88 22:05 20:09-21:04/55
26	08:32 15:40-16:07/27 17:24	07:38 09:06-10:33/87 18:19	06:37 09:03-10:13/70 19:07 06:59-07:16/17	06:30 17:26-19:15/109 20:58 06:57-08:12/75	05:42 06:09-06:41/32 17:35-19:14/99 21:43 20:08-20:52/44	05:31 06:15-06:43/28 17:48-19:17/89 22:05 20:09-21:04/55
27	08:31 15:41-16:06/25 17:26	07:36 09:06-10:34/88 18:21	06:34 09:04-10:11/67 19:09 06:57-07:17/20	06:28 06:51-06:52/1 06:56-08:11/75 21:00 17:26-19:15/109	05:41 06:08-06:41/33 17:35-19:14/99 21:45 20:08-20:53/45	05:32 06:15-06:43/28 17:48-19:16/88 22:05 20:08-21:04/56
28	08:30 15:43-16:05/22 17:28	07:34 09:04-10:33/89 18:23	06:32 17:22-17:32/10 06:55-07:18/23 19:10 09:04-10:08/64	06:26 06:50-06:54/4 06:57-08:10/73 21:01 17:25-19:15/110	05:40 06:08-06:41/33 17:36-19:14/98 21:46 20:07-20:53/46	05:32 06:15-06:43/28 17:49-19:17/88 22:05 20:09-21:04/55
29	08:28 15:44-16:03/19 17:29		07:30 18:13-18:41/28 07:53-08:17/24 20:12 10:06-11:06/60	06:24 06:48-06:55/7 06:56-08:11/75 21:03 17:26-19:16/110	05:39 06:07-06:41/34 17:37-19:15/98 21:47 20:08-20:55/47	05:33 06:16-06:44/28 17:48-19:17/89 22:05 20:09-21:04/55
30	08:27 15:47-16:02/15 17:31		07:28 18:07-18:46/39 07:53-08:17/24 20:14 10:07-11:03/56	06:22 06:46-06:55/9 06:56-08:10/74 21:05 17:26-19:16/110	05:38 06:06-06:40/34 17:38-19:14/96 21:48 20:07-20:55/48	05:33 06:15-06:44/29 17:48-19:18/90 22:04 20:10-21:05/55
31	08:25 15:50-15:58/8 17:33		07:25 18:03-18:50/47 07:53-08:17/24 20:15 10:09-11:01/52		05:37 06:07-06:39/32 17:38-19:14/96 21:49 20:07-20:56/49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1855	1510	2851	4357	5669	5181

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

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

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw - Windpark Armasteel - Project Assumptions for shadow calculations

WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
518	548	604	505	379	359	729	1.327	1.584	894	646	569	8.662

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

	July	August	September	October	November	December
1	05:34 06:16-06:44/28 17:49-19:18/89	06:09 06:37-06:49/12 17:38-19:26/108 07:11-07:30/19	06:57 17:38-19:07/89	07:44 09:39-11:10/91	07:37 08:58-09:44/46	08:26 15:12-15:48/36
	22:04 20:10-21:05/55	21:34 20:31-21:00/29 07:44-08:06/22	20:33 07:35-08:07/32	19:25	17:21	16:42 14:14-14:56/42
2	05:34 06:15-06:44/29 17:48-19:18/90	06:11 06:39-06:49/10 20:31-20:59/28 07:43-08:08/25	06:59 17:38-19:05/87	07:46 09:39-11:11/92	07:38 09:00-09:41/41	08:27 15:13-15:49/36
	22:04 20:10-21:04/54	21:32 06:55-06:58/3 17:38-19:27/109 07:10-07:32/22	20:31 07:36-08:04/28	19:23	17:19	16:41 14:15-14:57/42
3	05:35 06:16-06:44/28 17:48-19:19/91	06:12 06:40-06:47/7 20:33-20:59/26 07:41-08:10/29	07:00 17:39-19:04/85	07:48 09:38-11:10/92	07:40 09:02-09:37/35	08:29 15:13-15:48/35
	22:04 20:11-21:05/54	21:30 06:52-07:01/9 17:37-19:26/109 07:09-07:33/24	20:29 07:39-08:02/23	19:21	17:17	16:41 14:15-14:57/42
4	05:36 06:16-06:45/29 17:48-19:19/91	06:14 06:41-06:44/3 20:33-20:57/24 07:39-08:10/31	07:02 17:40-19:02/82	07:49 09:38-11:11/93	07:42 09:06-09:34/28	08:30 15:14-15:49/35
	22:03 20:11-21:05/54	21:29 06:51-07:03/12 17:36-19:26/110 07:08-07:33/25	20:27 07:41-07:58/17	19:19	17:16	16:40 14:15-14:58/43
5	05:37 06:17-06:45/28 17:48-19:19/91	06:15 06:49-07:03/14 17:36-19:26/110 07:07-07:34/27	07:03 17:42-19:00/78 07:54-08:04/10	07:51 09:38-11:11/93	07:43 09:11-09:29/18	08:31 15:14-15:49/35
	22:03 20:11-21:04/53	21:27 20:35-20:57/22 07:38-08:12/34	20:24 07:48-07:52/4	19:16	17:14	16:40 14:15-14:59/44
6	05:37 06:16-06:45/29 17:48-19:20/92	06:17 06:48-07:04/16 17:36-19:26/110 07:06-07:35/29	07:05 17:42-18:58/76	07:53 09:37-11:10/93	07:45	08:33 15:14-15:49/35
	22:02 20:11-21:05/54	21:25 20:36-20:55/19 07:37-08:13/36	20:22 07:51-08:06/15	19:14	17:12	16:39 14:15-14:59/44
7	05:38 06:16-06:45/29 17:48-19:20/92	06:18 06:48-07:05/17 17:36-19:26/110	07:06 17:44-18:56/72 07:49-08:08/19	07:54 09:37-11:10/93	07:47	08:34 15:15-15:50/35
	22:02 20:12-21:05/53	21:24 20:38-20:53/15 07:06-08:14/68	20:20 10:18-10:34/16	19:12	17:11	16:39 14:16-15:00/44
8	05:39 06:17-06:46/29 17:47-19:21/94	06:20 06:47-08:15/88 17:35-19:26/111	07:08 17:45-18:53/68 07:47-08:08/21	07:56 09:37-11:10/93	07:49	08:35 15:16-15:50/34
	22:01 20:13-21:05/52	21:22 20:40-20:50/10	20:18 10:12-10:40/28	19:10	17:09	16:39 14:16-15:01/45
9	05:40 06:17-06:46/29 17:47-19:21/94	06:21 06:49-08:16/87	07:10 17:48-18:51/63 07:47-08:09/22	07:57 09:37-11:09/92	07:50	08:36 15:16-15:50/34
	22:00 20:13-21:05/52	21:20 17:34-19:25/111	20:15 10:09-10:44/35	19:08	17:07	16:38 14:16-15:01/45
10	05:41 06:16-06:46/30 17:47-19:22/95	06:23 06:50-08:16/86	07:11 17:49-18:48/59 07:45-08:09/24	07:59 09:37-11:09/92	07:52	08:37 15:16-15:50/34
	22:00 20:14-21:05/51	21:18 17:34-19:25/111	20:13 10:05-10:47/42	19:05	17:06	16:38 14:16-15:03/47
11	05:42 06:16-06:47/31 17:47-19:22/95	06:24 06:52-08:17/85	07:13 17:52-18:45/53 07:45-08:09/24	08:01 09:37-11:08/91	07:54 15:22-15:31/9	08:38 15:17-15:51/34
	21:59 20:14-21:04/50	21:16 17:34-19:24/110	20:11 10:03-10:50/47	19:03	17:04	16:38 14:16-15:04/48
12	05:43 06:15-06:47/32 17:47-19:22/95	06:26 06:53-08:18/85	07:14 17:54-18:41/47 07:44-08:09/25	08:02 09:38-11:08/90	07:56 15:18-15:33/15	08:39 15:17-15:51/34
	21:58 20:15-21:04/49	21:14 17:34-19:25/111	20:09 10:00-10:52/52	19:01	17:03	16:38 14:16-15:05/49
13	05:44 06:15-06:48/33 17:46-19:23/97	06:27 06:54-08:17/83	07:16 17:58-18:38/40 07:44-08:09/25	08:04 09:37-11:07/90	07:57 15:16-15:35/19	08:40 15:18-15:51/33
	21:57 20:15-21:04/49	21:13 17:33-19:24/111	20:06 09:58-10:54/56	18:59	17:01	16:38 14:17-15:06/49
14	05:45 06:15-06:49/34 17:46-19:23/97	06:29 06:56-07:02/6 07:04-08:18/74	07:17 18:02-18:32/30 07:43-08:08/25	08:06 09:38-11:06/88	07:59 15:14-15:37/23	08:41 15:19-15:52/33
	21:56 20:16-21:03/47	21:11 17:34-19:24/110	20:04 09:56-10:56/60	18:57	17:00	16:38 14:17-15:07/50
15	05:46 06:16-06:50/34 17:45-19:23/98	06:30 06:57-07:00/3 07:03-08:18/75	07:19 18:10-18:25/15 07:44-08:07/23	08:07 09:38-11:06/88	08:01 15:13-15:39/26	08:42 15:19-15:52/33
	21:55 20:16-21:03/47	21:09 17:33-19:23/110	20:02 09:55-10:58/63	18:55	16:59	16:38 14:18-15:07/49
16	05:48 06:17-06:50/33 17:45-19:23/98	06:32 17:33-19:23/110	07:21 09:53-10:59/66	08:09 09:38-11:04/86	08:02 15:13-15:40/27	08:43 15:20-15:53/33
	21:55 20:17-21:02/45	21:07 07:04-08:19/75	20:00 07:45-08:06/21	18:52	16:57	16:38 14:18-15:08/50
17	05:49 06:18-06:51/33 17:44-19:24/100	06:34 17:33-19:22/109	07:22 09:52-11:01/69	08:11 09:39-11:04/85	08:04 15:12-15:41/29	08:44 15:21-15:53/32
	21:54 20:18-21:02/44	21:05 07:04-08:18/74	19:57 07:47-08:05/18	18:50	16:56	16:38 14:19-15:09/50
18	05:50 06:19-06:51/32 17:44-19:24/100	06:35 17:33-19:22/109	07:24 09:50-11:02/72	08:12 09:39-11:03/84	08:06 15:11-15:41/30	08:45 15:21-15:53/32
	21:52 20:18-21:01/43	21:03 07:05-08:19/74	19:55 07:49-08:04/15	18:48	16:55 14:27-14:37/10	16:39 14:19-15:09/50
19	05:51 06:20-06:51/31 17:43-19:24/101	06:37 17:33-19:21/108	07:25 09:49-11:04/75	08:14 09:40-11:02/82	08:07 15:10-15:42/32	08:45 15:21-15:54/33
	21:51 20:19-21:01/42	21:01 07:05-08:18/73	19:53 07:50-08:01/11	18:46	16:53 14:24-14:41/17	16:39 14:19-15:10/51
20	05:52 06:22-06:52/30 17:43-19:24/101	06:38 17:33-19:20/107	07:27 09:48-11:05/77	08:16 09:41-11:02/81	08:09 15:10-15:43/33	08:46 15:22-15:54/32
	21:50 20:20-21:01/41	20:59 07:06-08:18/72	19:50 07:52-07:58/6	18:44	16:52 14:22-14:43/21	16:39 14:20-15:11/51
21	05:54 06:23-06:52/29 17:43-19:25/102	06:40 17:33-19:19/106	07:28 09:46-11:06/80	08:18 09:41-11:00/79	08:11 15:10-15:44/34	08:47 15:22-15:54/32
	21:49 20:21-21:02/41	20:57 07:07-08:18/71	19:48	18:42	16:51 14:20-14:45/25	16:40 14:20-15:11/51
22	05:55 06:24-06:52/28 17:42-19:25/103	06:41 17:33-19:19/106 07:09-07:28/19	07:30 09:46-11:07/81	08:19 09:42-10:59/77	08:12 15:11-15:45/34	08:47 15:23-15:55/32
	21:48 20:22-21:02/40	20:55 07:29-08:18/49	19:46	18:40	16:50 14:19-14:47/28	16:40 14:21-15:12/51
23	05:56 06:25-06:52/27 17:42-19:25/103	06:43 17:33-19:18/105 07:10-07:25/15	07:32 09:44-11:07/83	08:21 09:43-10:58/75	08:14 15:10-15:45/35	08:48 15:23-15:55/32
	21:47 20:23-21:02/39	20:53 07:29-08:17/48	19:44	18:38	16:49 14:18-14:48/30	16:41 14:21-15:12/51
24	05:58 06:27-06:53/26 17:41-19:25/104	06:44 17:34-19:17/103 07:14-07:22/8	07:33 09:44-11:08/84	08:23 09:44-10:57/73	08:16 15:10-15:45/35	08:48 15:23-15:55/32
	21:45 20:24-21:02/38	20:50 07:30-08:17/47	19:41	18:36	16:48 14:17-14:50/33	16:41 14:21-15:12/51
25	05:59 06:28-06:53/25 17:41-19:26/105	06:46 17:33-19:16/103	07:35 09:42-11:08/86	08:24 08:46-09:56/70	08:17 15:11-15:46/35	08:48 15:25-15:57/32
	21:44 20:27-21:03/36	20:48 07:29-08:15/46	19:39	17:34	16:47 14:17-14:51/34	16:42 14:23-15:13/50
26	06:00 06:29-06:52/23 17:40-19:26/106	06:48 17:34-19:15/101	07:36 09:42-11:09/87	08:26 08:47-09:55/68	08:19 15:10-15:46/36	08:49 15:25-15:57/32
	21:43 20:28-21:02/34	20:46 07:30-08:15/45	19:37	17:32	16:46 14:16-14:51/35	16:43 14:23-15:13/50
27	06:02 06:30-06:52/22 17:40-19:26/106	06:49 17:34-19:14/100	07:38 09:42-11:10/88	08:28 08:48-09:52/64	08:20 15:11-15:47/36	08:49 15:25-15:57/32
	21:41 20:29-21:02/33	20:44 07:30-08:14/44	19:34	17:30	16:45 14:15-14:53/38	16:43 14:23-15:13/50
28	06:03 06:32-06:52/20 17:40-19:26/106	06:51 17:35-19:13/98	07:40 09:40-11:10/90	08:30 08:49-09:51/62	08:22 15:11-15:47/36	08:49 15:25-15:58/33
	21:40 20:30-21:02/32	20:42 07:31-08:13/42	19:32	17:28	16:44 14:16-14:54/38	16:44 14:24-15:13/49
29	06:05 06:33-06:52/19 17:39-19:26/107	06:52 17:35-19:11/96	07:41 09:40-11:10/90	08:31 08:51-09:49/58	08:23 15:11-15:47/36	08:49 15:25-15:58/33
	21:38 20:30-21:02/32 07:19-07:22/3	20:40 07:31-08:11/40	19:30	17:26	16:43 14:15-14:54/39	16:45 14:24-15:13/49
30	06:06 06:35-06:52/17 17:38-19:26/108 07:15-07:26/11	06:54 17:36-19:10/94	07:43 09:39-11:10/91	07:33 08:53-09:48/55	08:25 15:12-15:48/36	08:49 15:26-15:59/33
	21:37 20:30-21:01/31 07:49-08:00/11	20:38 07:33-08:10/37	19:28	17:25	16:43 14:15-14:55/40	16:46 14:25-15:14/49
31	06:08 06:36-06:51/15 17:38-19:27/109 07:13-07:29/16	06:56 17:36-19:08/92		07:35 08:56-09:46/50		08:50 15:26-16:00/34
	21:35 20:31-21:01/30 07:47-08:04/17	20:35 07:33-08:08/35		17:23		16:47 14:25-15:14/49
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	5355	5551	2970	2520	1152	2520

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

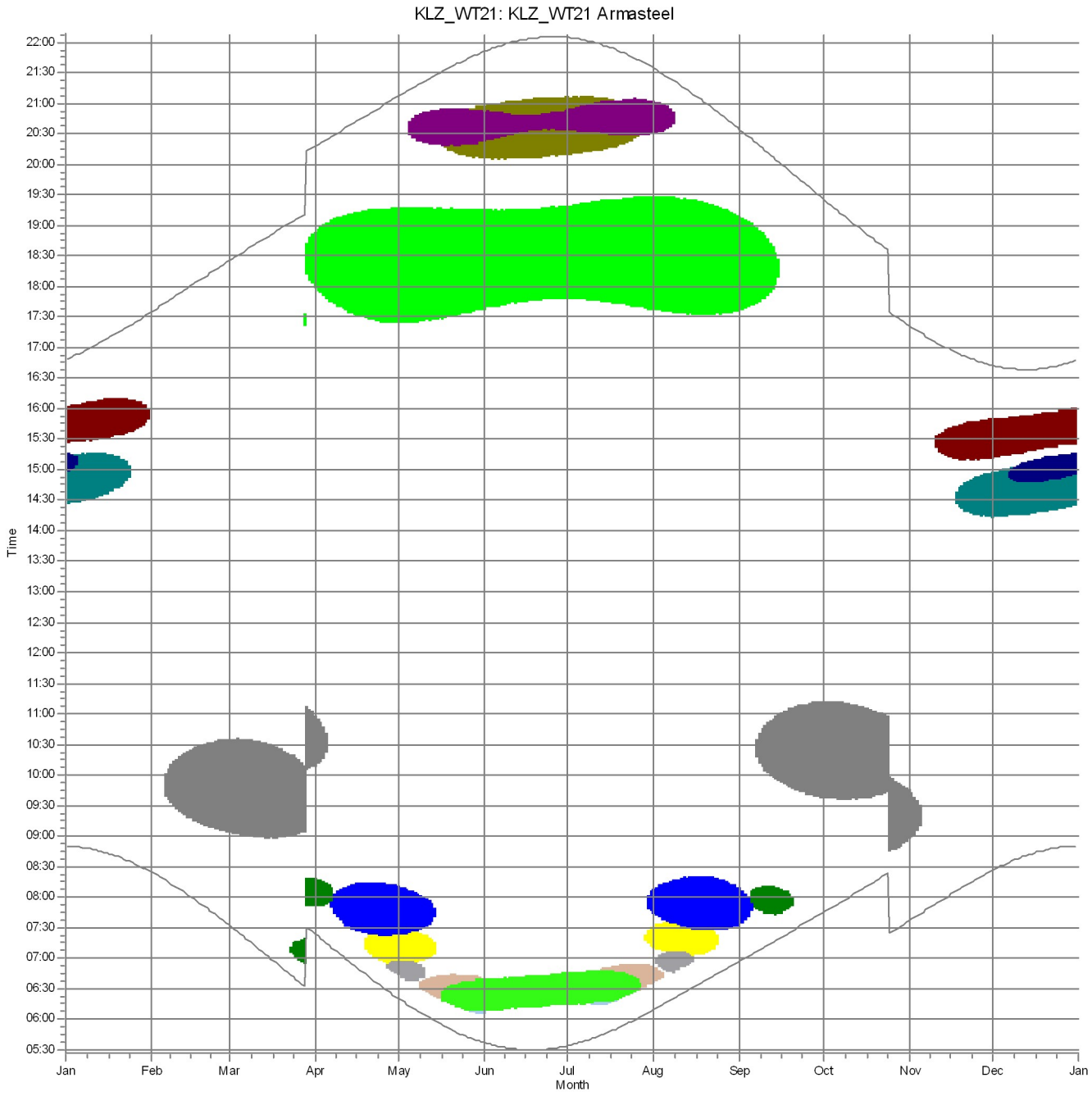
Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 20:57/4.1.264

SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw - Windpark Armasteel - Project WTG: KLZ_WT21 - KLZ_WT21 Armasteel



Shadow receptors

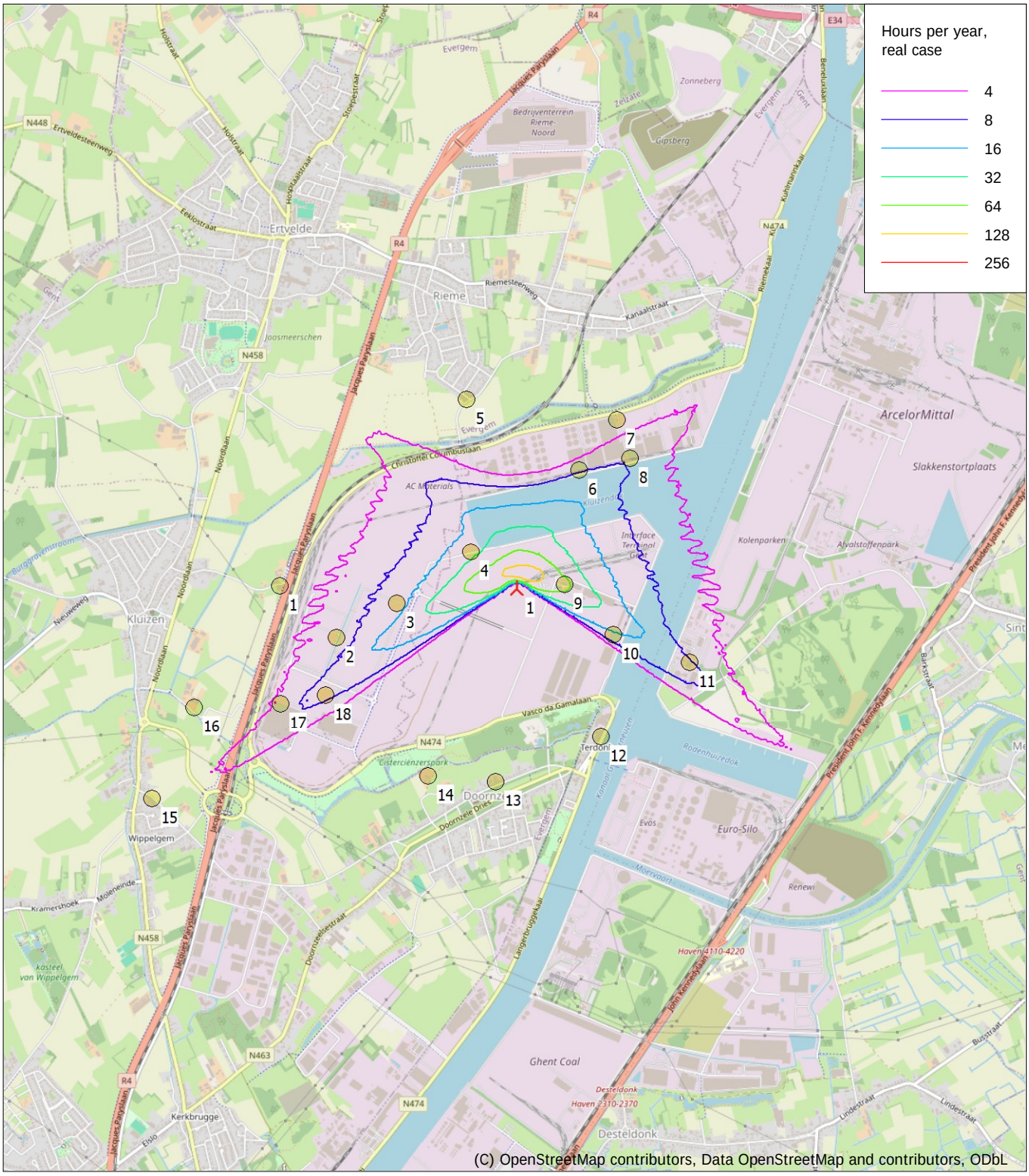
- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

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Calculated:
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SHADOW - Map

Calculation: Slagschaduw - Windpark Armasteel - Project



0 500 1000 1500 2000 m

Map: EMD OpenStreetMap , Print scale 1:40.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 108.032 North: 205.320

New WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Ref A

Assumptions for shadow calculations

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

Sunshine probability S (Average daily sunshine hours) []

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

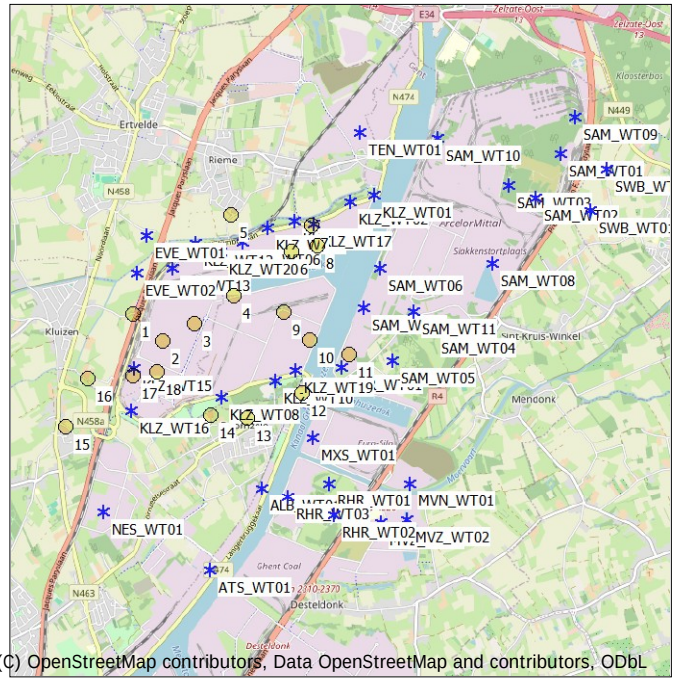
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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



Scale 1:100.000

Existing WTG Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
ALB_WT01	108.129	203.056	6,8	ENERCON E-115 EP3 E...	No	ENERCON	E-115 EP3 E3-4.200	4.200	115,7	135,0	100.000	12,9
ATS_WT01	107.438	201.986	6,5	NORDEX N149/5.X-po...	Yes	NORDEX	N149/5.X-powercurve-5.700	5.700	149,0	156,5	100.000	10,7
CBR_WT01	109.199	204.660	5,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	165,0	100.000	10,4
EVE_WT01	106.632	206.417	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
EVE_WT02	106.491	205.925	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
KLZ_WT01	109.653	206.929	5,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT02	109.337	206.834	6,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT04	108.595	206.585	5,7	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT05	108.233	206.502	6,1	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT06	107.898	206.322	5,5	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT08	107.596	204.270	7,4	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT10	108.320	204.485	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT12	107.283	206.313	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT13	106.963	205.983	6,4	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT15	106.447	204.659	9,6	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT16	106.409	204.106	5,8	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT17	108.845	206.555	5,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT19	108.589	204.627	5,0	VESTAS V168 - FICTIE...	Yes	VESTAS	V168 - FICTIEF-5.600	5.600	168,0	166,0	100.000	-
KLZ_WT20	107.601	206.186	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
MVN_WT01	110.103	203.099	14,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	164,0	100.000	10,7
MVZ_WT01	109.715	202.591	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MVZ_WT02	110.052	202.627	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MXS_WT01	108.810	203.720	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
NES_WT01	106.019	202.761	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	147,0	100.000	12,1
RHR_WT01	109.022	203.110	6,7	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT02	109.082	202.694	10,0	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT03	108.481	202.945	6,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
SAM_WT01	112.131	207.449	8,3	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT02	111.799	206.878	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT03	111.438	207.038	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT04	110.414	205.130	10,0	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT05	109.878	204.734	9,9	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT06	109.720	205.956	9,1	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT07	109.509	205.446	5,6	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT08	111.215	206.006	10,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	123,0	100.000	10,4
SAM_WT09	112.321	207.938	9,4	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	149,0	100.000	-

To be continued on next page...

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Ref A

...continued from previous page

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Shadow data Power, rated	Rotor diameter	Hub height	Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
SAM_WT10	110.490	207.672	5,8	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SAM_WT11	110.164	205.375	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SWB_WT01_RP	112.521	206.699	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
SWB_WT02_RP	112.740	207.253	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
TEN_WT01	109.463	207.750	10,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	165,0	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	James Cookstraat 10, 9042 Gent	107.778	205.604	8,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Pelikaanstraat 60, 9940 Evergem	107.756	206.679	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 17, 9042 Gent	108.899	206.258	5,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Willem van Rubroeckstraat 26, 9042 Gent	108.776	205.017	5,7	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 14, 9940 Evergem	105.526	203.893	6,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow, expected values Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	21:19	174	0:18	4:51
2	Pachtgoederen 2, 9940 Evergem	83:11	206	0:54	15:46
3	Pachtgoederen 2, 9940 Evergem	46:36	187	0:40	8:56
4	James Cookstraat 10, 9042 Gent	107:43	305	0:34	21:04
5	Pelikaanstraat 60, 9940 Evergem	296:36	282	2:30	54:44
6	Christoffel Columbuslaan 23, 9042 Gent	106:42	258	0:57	23:11
7	Christoffel Columbuslaan 23, 9042 Gent	181:57	319	1:37	41:51
8	Christoffel Columbuslaan 17, 9042 Gent	124:20	277	0:52	23:40
9	Willem van Rubroeckstraat 2, 9042 Gent	141:15	318	0:51	29:05
10	Willem van Rubroeckstraat 26, 9042 Gent	336:47	323	2:25	68:52
11	Arbedkaai 3, 9042 Gent	428:05	227	3:57	123:43
12	Terdonkkaai 8, 9042 Gent	68:13	197	0:43	17:06
13	Doornzele Dries 107, 9940 Evergem	96:17	271	0:42	21:42
14	Abdijdreef 2, 9940 Evergem	136:09	300	1:04	30:44
15	Hageland 14, 9940 Evergem	23:59	108	0:28	5:40
16	Molendreef 5, 9940 Evergem	65:25	171	0:42	15:16
17	Amerigo Vespuccistraat 2A, 9940 Evergem	53:46	171	0:50	9:11
18	Pachtgoederen 1, 9940 Evergem	237:02	304	1:28	55:48

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

No.	Name	Worst case [h/year]	Expected [h/year]
ALB_WT01	ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)	17:03	2:13
ATS_WT01	NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)	7:12	0:51
CBR_WT01	VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)	430:39	115:42
EVE_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)	26:19	6:25

To be continued on next page...

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Ref A

...continued from previous page

No.	Name	Worst case [h/year]	Expected [h/year]
EVE_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)	20:46	4:50
KLZ_WT01	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)	18:12	5:32
KLZ_WT02	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)	7:31	2:15
KLZ_WT04	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)	79:48	19:08
KLZ_WT05	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)	50:48	12:10
KLZ_WT06	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)	89:19	16:19
KLZ_WT08	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)	32:24	5:40
KLZ_WT10	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)	82:36	18:36
KLZ_WT12	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)	48:00	10:25
KLZ_WT13	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)	52:43	11:43
KLZ_WT15	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)	288:02	71:15
KLZ_WT16	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)	132:45	24:32
KLZ_WT17	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)	20:21	4:59
KLZ_WT19	VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)	370:22	75:25
KLZ_WT20	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)	156:49	31:11
MVN_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)	17:38	2:38
MVZ_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)	5:06	0:43
MVZ_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)	2:40	0:24
MXS_WT01	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)	19:46	3:42
NES_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)	12:10	2:12
RHR_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)	22:52	3:19
RHR_WT02	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)	19:42	2:28
RHR_WT03	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)	29:02	3:37
SAM_WT01	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)	0:22	0:06
SAM_WT02	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)	1:33	0:27
SAM_WT03	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)	2:47	0:49
SAM_WT04	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)	52:50	12:54
SAM_WT05	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)	105:12	24:27
SAM_WT06	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)	99:16	23:11
SAM_WT07	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)	121:15	24:32
SAM_WT08	VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)	17:56	5:08
SAM_WT09	VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)	0:53	0:16
SAM_WT10	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)	5:34	1:42
SAM_WT11	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)	72:17	17:07
SWB_WT01_RP	VESTAS V150-6.0 6000 150.0 !O!	1:23	0:24
SWB_WT02_RP	VESTAS V150-6.0 6000 150.0 !O!	0:13	0:03
TEN_WT01	VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)	12:28	3:49

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

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

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SHADOW - Calendar

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

Licensed user:
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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January			February			March			April			May	June
1	08:50		09:20 (MXS_WT01)	08:24		08:57 (KLZ_WT10)	07:32		07:55 (CBR_WT01)	07:23		07:46 (SAM_WT11)	06:20	05:36
	16:48	6	09:26 (MXS_WT01)	17:35	38	16:59 (KLZ_WT15)	18:25	30	08:39 (KLZ_WT19)	20:17	5	07:51 (SAM_WT11)	21:06	21:51
2	08:50		09:20 (MXS_WT01)	08:23		08:58 (KLZ_WT10)	07:30		07:53 (CBR_WT01)	07:21		07:43 (SAM_WT07)	06:18	05:36
	16:49	7	09:27 (MXS_WT01)	17:36	35	16:58 (KLZ_WT15)	18:27	29	08:37 (KLZ_WT19)	20:19	6	07:49 (SAM_WT11)	21:08	21:52
3	08:49		09:20 (MXS_WT01)	08:21		08:59 (KLZ_WT10)	07:28		07:51 (CBR_WT01)	07:19		07:41 (SAM_WT07)	06:16	05:35
	16:50	7	09:27 (MXS_WT01)	17:38	32	16:58 (KLZ_WT15)	18:28	20	08:31 (KLZ_WT19)	20:20	6	07:47 (SAM_WT07)	21:10	21:53
4	08:49		09:19 (MXS_WT01)	08:19		16:34 (KLZ_WT15)	07:26		07:51 (CBR_WT01)	07:17		07:39 (SAM_WT07)	06:15	05:34
	16:51	7	09:26 (MXS_WT01)	17:40	24	16:58 (KLZ_WT15)	18:30	18	08:09 (CBR_WT01)	20:22	9	07:48 (SAM_WT07)	21:11	21:54
5	08:49		09:20 (MXS_WT01)	08:18		16:34 (KLZ_WT15)	07:24		07:51 (CBR_WT01)	07:14		07:37 (SAM_WT07)	06:13	05:34
	16:53	6	09:26 (MXS_WT01)	17:42	24	16:58 (KLZ_WT15)	18:32	16	08:07 (CBR_WT01)	20:24	11	07:48 (SAM_WT07)	21:13	21:55
6	08:49		09:20 (MXS_WT01)	08:16		16:35 (KLZ_WT15)	07:21		07:51 (CBR_WT01)	07:12		07:34 (SAM_WT07)	06:11	05:33
	16:54	5	09:25 (MXS_WT01)	17:44	22	16:57 (KLZ_WT15)	18:33	16	08:07 (CBR_WT01)	20:25	13	07:47 (SAM_WT07)	21:14	21:56
7	08:48		09:23 (MXS_WT01)	08:15		16:36 (KLZ_WT15)	07:19		07:52 (CBR_WT01)	07:10		07:32 (SAM_WT07)	06:09	05:32
	16:55	1	09:24 (MXS_WT01)	17:45	20	16:56 (KLZ_WT15)	18:35	13	08:05 (CBR_WT01)	20:27	15	07:47 (SAM_WT07)	21:16	21:56
8	08:48			08:13		16:38 (KLZ_WT15)	07:17		07:40 (SAM_WT05)	07:08		07:32 (SAM_WT07)	06:08	05:32
	16:56			17:47	18	16:56 (KLZ_WT15)	18:37	12	08:04 (CBR_WT01)	20:29	14	07:46 (SAM_WT07)	21:17	21:57
9	08:48			08:11		16:40 (KLZ_WT15)	07:15		07:38 (SAM_WT05)	07:06		07:33 (SAM_WT07)	06:06	05:31
	16:58			17:49	14	16:54 (KLZ_WT15)	18:39	5	07:43 (SAM_WT05)	20:30	12	07:45 (SAM_WT07)	21:19	21:58
10	08:47			08:09		16:42 (KLZ_WT15)	07:13		07:35 (SAM_WT05)	07:03		07:34 (SAM_WT07)	06:04	05:31
	16:59			17:51	9	16:51 (KLZ_WT15)	18:40	6	07:41 (SAM_WT05)	20:32	9	07:43 (SAM_WT07)	21:21	21:59
11	08:46			08:08			07:11		07:33 (SAM_WT05)	07:01		07:38 (SAM_WT07)	06:03	05:31
	17:00			17:53			18:42	8	07:41 (SAM_WT05)	20:34	1	07:39 (SAM_WT07)	21:22	22:00
12	08:46			08:06			07:08		07:31 (SAM_WT05)	06:59			06:01	05:30
	17:02			17:55			18:44	8	07:39 (SAM_WT05)	20:35			21:24	22:00
13	08:45			08:04		08:28 (KLZ_WT19)	07:06			06:57			05:59	05:30
	17:03			17:56	8	08:36 (KLZ_WT19)	18:45			20:37			21:25	22:01
14	08:44			08:02		08:26 (KLZ_WT19)	07:04			06:55			05:58	05:30
	17:05			17:58	13	08:39 (KLZ_WT19)	18:47			20:38			21:27	22:02
15	08:44			08:00		08:24 (KLZ_WT19)	07:02			06:52			05:56	05:30
	17:06			18:00	17	08:41 (KLZ_WT19)	18:49			20:40			21:28	22:02
16	08:43			07:58		08:22 (KLZ_WT19)	06:59			06:50			05:55	05:30
	17:08			18:02	20	08:42 (KLZ_WT19)	18:50			20:42			21:30	22:03
17	08:42			07:57		08:21 (KLZ_WT19)	06:57			06:48			05:54	05:30
	17:09			18:04	22	08:43 (KLZ_WT19)	18:52			20:43			21:31	22:03
18	08:41			07:55		08:20 (KLZ_WT19)	06:55			06:46			05:52	05:29
	17:11			18:05	24	08:44 (KLZ_WT19)	18:54			20:45			21:33	22:03
19	08:40			07:53		08:19 (KLZ_WT19)	06:53			06:44			05:51	05:30
	17:12			18:07	26	08:45 (KLZ_WT19)	18:55			20:47			21:34	22:04
20	08:39		16:39 (KLZ_WT15)	07:51		08:18 (KLZ_WT19)	06:50			06:42			05:49	05:30
	17:14	4	16:43 (KLZ_WT15)	18:09	27	08:45 (KLZ_WT19)	18:57			20:48			21:35	22:04
21	08:38		09:05 (MVN_WT01)	07:49		08:18 (KLZ_WT19)	06:48			06:40		07:03 (SAM_WT06)	05:48	05:30
	17:16	9	16:44 (KLZ_WT15)	18:11	27	08:45 (KLZ_WT19)	18:59			20:50	2	07:05 (SAM_WT06)	21:37	22:04
22	08:37		09:04 (MVN_WT01)	07:47		08:18 (KLZ_WT19)	06:46			06:38		07:01 (SAM_WT06)	05:47	05:30
	17:17	14	16:46 (KLZ_WT15)	18:12	27	08:45 (KLZ_WT19)	19:00			20:52	5	07:06 (SAM_WT06)	21:38	22:05
23	08:36		09:03 (KLZ_WT10)	07:45		08:18 (KLZ_WT19)	06:44		07:06 (SAM_WT04)	06:36		06:59 (SAM_WT06)	05:46	05:30
	17:19	17	16:48 (KLZ_WT15)	18:14	27	08:45 (KLZ_WT19)	19:02	2	07:08 (SAM_WT04)	20:53	7	07:06 (SAM_WT06)	21:40	22:05
24	08:35		09:02 (KLZ_WT10)	07:43		08:18 (KLZ_WT19)	06:41		07:04 (SAM_WT04)	06:34		06:57 (SAM_WT06)	05:44	05:30
	17:21	22	16:50 (KLZ_WT15)	18:16	27	08:45 (KLZ_WT19)	19:04	3	07:07 (SAM_WT04)	20:55	9	07:06 (SAM_WT06)	21:41	22:05
25	08:34		09:00 (KLZ_WT10)	07:41		08:19 (KLZ_WT19)	06:39		07:01 (SAM_WT04)	06:32		06:55 (SAM_WT06)	05:43	05:31
	17:22	25	16:51 (KLZ_WT15)	18:18	25	08:44 (KLZ_WT19)	19:05	4	07:05 (SAM_WT04)	20:57	11	07:06 (SAM_WT06)	21:42	22:05
26	08:32		08:59 (KLZ_WT10)	07:38		08:02 (CBR_WT01)	06:37			06:30		06:53 (SAM_WT06)	05:42	05:31
	17:24	30	16:54 (KLZ_WT15)	18:20	27	08:44 (KLZ_WT19)	19:07			20:58	12	07:05 (SAM_WT06)	21:43	22:05
27	08:31		08:57 (KLZ_WT10)	07:36		08:00 (CBR_WT01)	06:35			06:28		06:52 (SAM_WT06)	05:41	05:32
	17:26	34	16:55 (KLZ_WT15)	18:21	30	08:43 (KLZ_WT19)	19:09			21:00	12	07:04 (SAM_WT06)	21:45	22:05
28	08:30		08:56 (KLZ_WT10)	07:34		07:57 (CBR_WT01)	06:32			06:26		06:53 (SAM_WT06)	05:40	05:32
	17:28	38	16:57 (KLZ_WT15)	18:23	31	08:41 (KLZ_WT19)	19:10			21:01	10	07:03 (SAM_WT06)	21:46	22:05
29	08:28		08:55 (KLZ_WT10)				07:30		07:52 (SAM_WT11)	06:24		06:55 (SAM_WT06)	05:39	05:33
	17:29	39	16:57 (KLZ_WT15)				20:12	1	07:53 (SAM_WT11)	21:03	7	07:02 (SAM_WT06)	21:47	22:05
30	08:27		08:55 (KLZ_WT10)				07:28		07:50 (SAM_WT11)	06:22			05:38	05:33
	17:31	40	16:58 (KLZ_WT15)				20:14	3	07:53 (SAM_WT11)	21:05			21:48	22:04
31	08:26		08:56 (KLZ_WT10)				07:26		07:48 (SAM_WT11)				05:37	
	17:33	39	16:58 (KLZ_WT15)				20:15	4	07:52 (SAM_WT11)				21:49	
Potential sun hours	262			279			367			415			482	495
Total, worst case		350			614			198			176			
Sun reduction		0,25			0,30			0,38			0,46			
Oper. time red.		0,97			0,97			0,97			0,97			
Wind dir. red.		0,64			0,61			0,56			0,64			
Total reduction		0,16			0,18			0,21			0,29			
Total, real		54			110			41			51			

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January			February			March			April			May			June		
1	08:50		09:36 (KLZ_WT19)	08:24		08:50 (CBR_WT01)	07:32			07:23			06:20			05:36		20:33 (KLZ_WT13)
	16:48	33	10:09 (KLZ_WT19)	17:35	26	16:57 (KLZ_WT15)	18:25			20:17			21:06			21:51	23	20:56 (KLZ_WT13)
2	08:50		09:37 (KLZ_WT19)	08:23		08:48 (CBR_WT01)	07:30			07:21			06:18			05:36		20:35 (KLZ_WT13)
	16:49	33	10:10 (KLZ_WT19)	17:36	24	16:55 (KLZ_WT15)	18:26			20:19			21:08			21:52	21	20:56 (KLZ_WT13)
3	08:49		09:37 (KLZ_WT19)	08:21		08:48 (CBR_WT01)	07:28			07:19			06:16			05:35		20:35 (KLZ_WT13)
	16:50	33	10:10 (KLZ_WT19)	17:38	20	09:08 (CBR_WT01)	18:28			20:20			21:09			21:53	21	20:56 (KLZ_WT13)
4	08:49		09:37 (KLZ_WT19)	08:19		08:48 (CBR_WT01)	07:26			07:17			06:15			05:34		20:35 (KLZ_WT13)
	16:51	33	10:10 (KLZ_WT19)	17:40	21	09:09 (CBR_WT01)	18:30			20:22			21:11			21:54	22	21:21 (EVE_WT01)
5	08:49		09:38 (KLZ_WT19)	08:18		08:48 (CBR_WT01)	07:24			07:14			06:13			05:34		20:37 (KLZ_WT13)
	16:53	33	10:11 (KLZ_WT19)	17:42	21	09:09 (CBR_WT01)	18:32			20:24			21:13			21:55	22	21:23 (EVE_WT01)
6	08:49		09:38 (KLZ_WT19)	08:16		08:47 (CBR_WT01)	07:21			07:12		07:34 (SAM_WT08)	06:11		20:40 (KLZ_WT13)	05:33		20:37 (KLZ_WT13)
	16:54	33	10:11 (KLZ_WT19)	17:44	22	09:09 (CBR_WT01)	18:33			20:25	1	07:35 (SAM_WT08)	21:14	5	20:45 (KLZ_WT13)	21:56	22	21:23 (EVE_WT01)
7	08:48		09:38 (KLZ_WT19)	08:15		08:47 (CBR_WT01)	07:19			07:10		07:32 (SAM_WT08)	06:09		20:37 (KLZ_WT13)	05:32		20:38 (KLZ_WT13)
	16:55	34	10:12 (KLZ_WT19)	17:45	22	09:09 (CBR_WT01)	18:35			20:27	2	07:34 (SAM_WT08)	21:16	10	20:47 (KLZ_WT13)	21:56	22	21:24 (EVE_WT01)
8	08:48		09:38 (KLZ_WT19)	08:13		08:49 (CBR_WT01)	07:17			07:08		07:30 (SAM_WT08)	06:08		20:35 (KLZ_WT13)	05:32		20:38 (KLZ_WT13)
	16:56	34	10:12 (KLZ_WT19)	17:47	20	09:09 (CBR_WT01)	18:37			20:29	2	07:32 (SAM_WT08)	21:17	13	20:48 (KLZ_WT13)	21:57	22	21:25 (EVE_WT01)
9	08:48		09:39 (KLZ_WT19)	08:11		08:49 (CBR_WT01)	07:15		07:38 (SAM_WT04)	07:05			06:06		20:34 (KLZ_WT13)	05:31		20:40 (KLZ_WT13)
	16:58	34	10:13 (KLZ_WT19)	17:49	20	09:09 (CBR_WT01)	18:39	1	07:39 (SAM_WT04)	20:30			21:19	16	20:50 (KLZ_WT13)	21:58	21	21:26 (EVE_WT01)
10	08:47		09:40 (KLZ_WT19)	08:09		08:49 (CBR_WT01)	07:13		07:35 (SAM_WT04)	07:03			06:04		20:32 (KLZ_WT13)	05:31		20:41 (KLZ_WT13)
	16:59	33	10:13 (KLZ_WT19)	17:51	19	09:08 (CBR_WT01)	18:40	4	07:39 (SAM_WT04)	20:32			21:21	19	20:51 (KLZ_WT13)	21:59	21	21:27 (EVE_WT01)
11	08:46		09:40 (KLZ_WT19)	08:08		08:50 (CBR_WT01)	07:10		07:33 (SAM_WT04)	07:01		07:24 (SAM_WT06)	06:03		20:32 (KLZ_WT13)	05:31		20:42 (KLZ_WT13)
	17:00	33	10:13 (KLZ_WT19)	17:53	17	09:07 (CBR_WT01)	18:42	6	07:39 (SAM_WT04)	20:34	5	07:29 (SAM_WT06)	21:22	21	20:53 (KLZ_WT13)	22:00	21	21:28 (EVE_WT01)
12	08:46		09:41 (KLZ_WT19)	08:06		08:51 (CBR_WT01)	07:08		07:31 (SAM_WT04)	06:59		07:21 (SAM_WT06)	06:01		20:31 (KLZ_WT13)	05:30		20:42 (KLZ_WT13)
	17:02	33	10:14 (KLZ_WT19)	17:54	15	09:06 (CBR_WT01)	18:44	7	07:38 (SAM_WT04)	20:35	8	07:29 (SAM_WT06)	21:24	23	20:54 (KLZ_WT13)	22:00	20	21:27 (EVE_WT01)
13	08:45		09:41 (KLZ_WT19)	08:04		08:53 (CBR_WT01)	07:06		07:29 (SAM_WT04)	06:57		07:19 (SAM_WT06)	05:59		20:30 (KLZ_WT13)	05:30		20:43 (KLZ_WT13)
	17:03	33	10:14 (KLZ_WT19)	17:56	10	09:03 (CBR_WT01)	18:45	8	07:37 (SAM_WT04)	20:37	11	07:30 (SAM_WT06)	21:25	26	20:56 (KLZ_WT13)	22:01	19	21:28 (EVE_WT01)
14	08:44		09:42 (KLZ_WT19)	08:02			07:04		07:29 (SAM_WT04)	06:55		07:17 (SAM_WT06)	05:58		20:29 (KLZ_WT13)	05:30		20:45 (KLZ_WT13)
	17:05	32	10:14 (KLZ_WT19)	17:58			18:47	5	07:34 (SAM_WT04)	20:38	14	07:31 (SAM_WT06)	21:27	27	20:56 (KLZ_WT13)	22:02	17	21:29 (EVE_WT01)
15	08:44		09:42 (KLZ_WT19)	08:00			07:02			06:52		07:15 (SAM_WT06)	05:56		20:29 (KLZ_WT13)	05:30		20:46 (KLZ_WT13)
	17:06	32	10:14 (KLZ_WT19)	18:00			18:49			20:40	21	20:14 (EVE_WT02)	21:28	28	20:57 (KLZ_WT13)	22:02	15	21:29 (EVE_WT01)
16	08:43		09:43 (KLZ_WT19)	07:58			06:59		07:22 (SAM_WT11)	06:50		07:13 (SAM_WT06)	05:55		20:29 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:08	31	10:14 (KLZ_WT19)	18:02			18:50	2	07:24 (SAM_WT11)	20:42	26	20:15 (EVE_WT02)	21:30	29	20:58 (KLZ_WT13)	22:03	12	21:30 (EVE_WT01)
17	08:42		09:44 (KLZ_WT19)	07:57		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT07)	06:48		07:13 (SAM_WT06)	05:53		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:09	30	10:14 (KLZ_WT19)	18:03	2	08:22 (SAM_WT05)	18:52	6	07:25 (SAM_WT07)	20:43	29	20:17 (EVE_WT02)	21:31	29	20:58 (KLZ_WT13)	22:03	12	21:30 (EVE_WT01)
18	08:41		09:44 (KLZ_WT19)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT07)	06:46		07:13 (SAM_WT06)	05:52		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:11	30	10:14 (KLZ_WT19)	18:05	5	08:23 (SAM_WT05)	18:54	10	07:27 (SAM_WT07)	20:45	32	20:19 (EVE_WT02)	21:33	29	20:58 (KLZ_WT13)	22:03	13	21:31 (EVE_WT01)
19	08:40		09:45 (KLZ_WT19)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT07)	06:44		07:13 (SAM_WT06)	05:51		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:12	29	10:14 (KLZ_WT19)	18:07	7	08:23 (SAM_WT05)	18:55	14	07:29 (SAM_WT07)	20:47	32	20:20 (EVE_WT02)	21:34	29	20:58 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
20	08:39		09:46 (KLZ_WT19)	07:51		08:14 (SAM_WT05)	06:50		07:13 (SAM_WT07)	06:42		07:14 (SAM_WT06)	05:49		20:29 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:14	28	10:14 (KLZ_WT19)	18:09	10	08:24 (SAM_WT05)	18:57	16	07:29 (SAM_WT07)	20:48	33	20:22 (EVE_WT02)	21:35	30	20:59 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
21	08:38		09:46 (KLZ_WT19)	07:49		08:12 (SAM_WT05)	06:48		07:10 (SAM_WT07)	06:40		07:15 (SAM_WT06)	05:48		20:28 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:16	28	16:44 (KLZ_WT15)	18:11	11	08:23 (SAM_WT05)	18:59	19	07:29 (SAM_WT07)	20:50	33	20:23 (EVE_WT02)	21:37	30	20:58 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
22	08:37		09:48 (KLZ_WT19)	07:47		08:10 (SAM_WT05)	06:46		07:09 (SAM_WT07)	06:38		07:17 (SAM_WT06)	05:47		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:17	27	16:46 (KLZ_WT15)	18:12	13	08:23 (SAM_WT05)	19:00	20	07:29 (SAM_WT07)	20:52	30	20:25 (EVE_WT02)	21:38	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
23	08:36		09:49 (KLZ_WT19)	07:45		08:10 (SAM_WT05)	06:44		07:09 (SAM_WT07)	06:36		20:02 (EVE_WT02)	05:46		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:19	28	16:48 (KLZ_WT15)	18:14	12	08:22 (SAM_WT05)	19:02	20	07:29 (SAM_WT07)	20:53	23	20:25 (EVE_WT02)	21:40	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
24	08:35		09:51 (KLZ_WT19)	07:43		08:12 (SAM_WT05)	06:41		07:09 (SAM_WT07)	06:34		20:02 (EVE_WT02)	05:44		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:21	27	16:50 (KLZ_WT15)	18:16	8	08:20 (SAM_WT05)	19:04	20	07:29 (SAM_WT07)	20:55	22	20:24 (EVE_WT02)	21:41	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
25	08:34		09:52 (KLZ_WT19)	07:41			06:39		07:08 (SAM_WT07)	06:32		20:02 (EVE_WT02)	05:43		20:30 (KLZ_WT13)	05:31		21:20 (EVE_WT01)
	17:22	25	16:51 (KLZ_WT15)	18:18			19:05	19	07:27 (SAM_WT07)	20:56	22	20:24 (EVE_WT02)	21:42	28	20:58 (KLZ_WT13)	22:05	13	21:33 (EVE_WT01)
26	08:32		09:55 (KLZ_WT19)	07:38			06:37		07:09 (SAM_WT07)	06:30		20:02 (EVE_WT02)	05:42		20:30 (KLZ_WT13)	05:31		21:20 (EVE_WT01)
	17:24	23	16:54 (KLZ_WT15)	18:19			19:07	17	07:26 (SAM_WT07)	20:58	21	20:23 (EVE_WT02)	21:43	28	20:58 (KLZ_WT13)	22:05	12	21:32 (EVE_WT01)
27	08:31		09:58 (KLZ_WT19)	07:36			06:35		07:10 (SAM_WT07)	06:28		20:03 (EVE_WT02)	05:41		20:31 (KLZ_WT13)	05:32		20:49 (KLZ_WT13)
	17:26	17	16:55 (KLZ_WT15)	18:21			19:09	15	07:25 (SAM_WT07)	21:00	19	20:22 (EVE_WT02)	21:45	26	20:57 (KLZ_WT13)	22:05	14	21:32 (EVE_WT01)
28	08:30		16:44 (KLZ_WT15)	07:34			06:32		07:11 (SAM_WT07)	06:26		20:04 (EVE_WT02)	05:40		20:31 (KLZ_WT13)	05:32		20:48 (KLZ_WT13)
	17:28	13	16:57 (KLZ_WT15)	18:23			19:10	11	07:22 (SAM_WT07)	21:01	16	20:20 (EVE_WT02)	21:46	26	20:57 (KLZ_WT13)	22:05	16	21:32 (EVE_WT01)
29	08:28		08:54 (CBR_WT01)				07:30		08:15 (SAM_WT07)	06:24		20:06 (EVE_WT02)	05:39		20:32 (KLZ_WT13)	05:33		20:47 (KLZ_WT13)
	17:29	23	16:59 (KLZ_WT15)				20:12	3	08:18 (SAM_WT07)	21:03	14	20:20 (EVE_WT02)	21:47	26	20:58 (KLZ_WT13)	22:05	18	21:32 (EVE_WT01)
30	08:27		08:53 (CBR_WT01)				07:28			06:22		20:08 (EVE_WT02)	05:38		20:33 (KLZ_WT13)	05:33		20:47 (KLZ_WT13)
	17:31	25	16:59 (KLZ_WT15)				20:14			21:05	9	20:17 (EVE_WT02)	21:48	24	20:57 (KLZ_WT13)	22:04	19	21:32 (EVE_WT01)
31	08:26		08:51 (CBR_WT01)				07:26						05:37		20:33 (KLZ_WT13)			
	17:33	26	16:58 (KLZ_WT15)				20:15						21:49	24	20:57 (KLZ_WT13)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		906			325			223			425			633			516	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,56			0,56			0,60			0,59			0,56			0,55	
Total reduction		0,14			0,16			0,22			0,27			0,25			0,24	
Total, real		123			53			49			113			157			123	

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July			August			September			October			November			December		
1	05:34		20:47 (KLZ_WT13)	06:09		20:41 (KLZ_WT13)	06:57		07:23 (SAM_WT06)	07:44		08:09 (SAM_WT04)	07:37		08:19 (CBR_WT01)	08:26		09:22 (KLZ_WT19)
	22:04	20	21:32 (EVE_WT01)	21:34	23	21:04 (KLZ_WT13)	20:33	5	07:28 (SAM_WT06)	19:25	8	08:17 (SAM_WT04)	17:21	19	08:38 (CBR_WT01)	16:42	33	09:55 (KLZ_WT19)
2	05:34		20:45 (KLZ_WT13)	06:11		20:43 (KLZ_WT13)	06:59			07:46		08:11 (SAM_WT04)	07:38		08:18 (CBR_WT01)	08:27		09:23 (KLZ_WT19)
	22:04	21	21:31 (EVE_WT01)	21:32	20	21:03 (KLZ_WT13)	20:31			19:23	6	08:17 (SAM_WT04)	17:19	21	08:39 (CBR_WT01)	16:41	33	09:56 (KLZ_WT19)
3	05:35		20:45 (KLZ_WT13)	06:12		20:43 (KLZ_WT13)	07:00			07:48		08:12 (SAM_WT04)	07:40		08:17 (CBR_WT01)	08:29		09:23 (KLZ_WT19)
	22:04	21	21:31 (EVE_WT01)	21:30	18	21:01 (KLZ_WT13)	20:29			19:21	5	08:17 (SAM_WT04)	17:17	21	08:38 (CBR_WT01)	16:41	33	09:56 (KLZ_WT19)
4	05:36		20:45 (KLZ_WT13)	06:14		20:44 (KLZ_WT13)	07:02		07:27 (SAM_WT08)	07:49		08:14 (SAM_WT04)	07:42		08:17 (CBR_WT01)	08:30		09:23 (KLZ_WT19)
	22:03	21	21:31 (EVE_WT01)	21:29	15	20:59 (KLZ_WT13)	20:27	2	07:29 (SAM_WT08)	19:19	2	08:16 (SAM_WT04)	17:16	22	08:39 (CBR_WT01)	16:40	34	09:57 (KLZ_WT19)
5	05:37		20:44 (KLZ_WT13)	06:15		20:46 (KLZ_WT13)	07:03		07:29 (SAM_WT08)	07:51			07:44		08:17 (CBR_WT01)	08:31		09:24 (KLZ_WT19)
	22:03	22	21:30 (EVE_WT01)	21:27	12	20:58 (KLZ_WT13)	20:24	2	07:31 (SAM_WT08)	19:16			17:14	22	08:39 (CBR_WT01)	16:40	33	09:57 (KLZ_WT19)
6	05:37		20:44 (KLZ_WT13)	06:17		20:48 (KLZ_WT13)	07:05		07:30 (SAM_WT08)	07:53			07:45		08:18 (CBR_WT01)	08:33		09:24 (KLZ_WT19)
	22:02	22	21:30 (EVE_WT01)	21:25	8	20:56 (KLZ_WT13)	20:22	1	07:31 (SAM_WT08)	19:14			17:12	21	08:39 (CBR_WT01)	16:39	33	09:57 (KLZ_WT19)
7	05:38		20:43 (KLZ_WT13)	06:18			07:07			07:54			07:47		08:18 (CBR_WT01)	08:34		09:25 (KLZ_WT19)
	22:02	22	21:29 (EVE_WT01)	21:24			20:20			19:12			17:11	21	08:39 (CBR_WT01)	16:39	33	09:58 (KLZ_WT19)
8	05:39		20:43 (KLZ_WT13)	06:20			07:08			07:56			07:49		08:19 (CBR_WT01)	08:35		09:25 (KLZ_WT19)
	22:01	22	21:29 (EVE_WT01)	21:22			20:18			19:10			17:09	20	08:39 (CBR_WT01)	16:39	33	09:58 (KLZ_WT19)
9	05:40		20:43 (KLZ_WT13)	06:21			07:10			07:57			07:50		08:19 (CBR_WT01)	08:36		09:25 (KLZ_WT19)
	22:00	21	21:29 (EVE_WT01)	21:20			20:15			19:08			17:07	24	16:26 (KLZ_WT15)	16:39	33	09:58 (KLZ_WT19)
10	05:41		20:42 (KLZ_WT13)	06:23			07:11			07:59			07:52		08:21 (CBR_WT01)	08:37		09:26 (KLZ_WT19)
	22:00	22	21:04 (KLZ_WT13)	21:18			20:13			19:05			17:06	26	16:28 (KLZ_WT15)	16:38	33	09:59 (KLZ_WT19)
11	05:42		20:42 (KLZ_WT13)	06:24			07:13			08:01			07:54		08:23 (CBR_WT01)	08:38		09:26 (KLZ_WT19)
	21:59	22	21:04 (KLZ_WT13)	21:16			20:11			19:03			17:04	26	16:30 (KLZ_WT15)	16:38	33	09:59 (KLZ_WT19)
12	05:43		20:42 (KLZ_WT13)	06:26		20:19 (EVE_WT02)	07:14			08:02			07:56		08:24 (CBR_WT01)	08:39		09:27 (KLZ_WT19)
	21:58	23	21:05 (KLZ_WT13)	21:14	3	20:22 (EVE_WT02)	20:09			19:01			17:03	25	16:30 (KLZ_WT15)	16:38	32	09:59 (KLZ_WT19)
13	05:44		20:41 (KLZ_WT13)	06:27		20:15 (EVE_WT02)	07:16			08:04			07:57		08:26 (CBR_WT01)	08:40		09:27 (KLZ_WT19)
	21:57	24	21:05 (KLZ_WT13)	21:13	10	20:25 (EVE_WT02)	20:06			18:59			17:01	22	16:31 (KLZ_WT15)	16:38	33	10:00 (KLZ_WT19)
14	05:45		20:41 (KLZ_WT13)	06:29		20:13 (EVE_WT02)	07:17			08:06			07:59		16:16 (KLZ_WT15)	08:41		09:28 (KLZ_WT19)
	21:56	25	21:06 (KLZ_WT13)	21:11	15	20:28 (EVE_WT02)	20:04			18:57			17:00	13	16:29 (KLZ_WT15)	16:38	32	10:00 (KLZ_WT19)
15	05:46		20:41 (KLZ_WT13)	06:30		20:11 (EVE_WT02)	07:19		08:02 (SAM_WT07)	08:07			08:01		09:31 (KLZ_WT19)	08:42		09:28 (KLZ_WT19)
	21:56	25	21:06 (KLZ_WT13)	21:09	17	20:28 (EVE_WT02)	20:02	10	08:12 (SAM_WT07)	18:55			16:59	18	16:28 (KLZ_WT15)	16:38	33	10:01 (KLZ_WT19)
16	05:48		20:40 (KLZ_WT13)	06:32		20:10 (EVE_WT02)	07:21		07:59 (SAM_WT07)	08:09			08:02		09:28 (KLZ_WT19)	08:43		09:29 (KLZ_WT19)
	21:55	27	21:07 (KLZ_WT13)	21:07	19	20:29 (EVE_WT02)	20:00	14	08:13 (SAM_WT07)	18:52			16:57	24	16:27 (KLZ_WT15)	16:38	32	10:01 (KLZ_WT19)
17	05:49		20:40 (KLZ_WT13)	06:34		20:09 (EVE_WT02)	07:22		07:58 (SAM_WT07)	08:11		08:45 (SAM_WT05)	08:04		09:26 (KLZ_WT19)	08:44		09:30 (KLZ_WT19)
	21:54	27	21:07 (KLZ_WT13)	21:05	21	20:30 (EVE_WT02)	19:57	17	08:15 (SAM_WT07)	18:50	4	08:49 (SAM_WT05)	16:56	25	16:25 (KLZ_WT15)	16:38	32	10:02 (KLZ_WT19)
18	05:50		20:39 (KLZ_WT13)	06:35		20:09 (EVE_WT02)	07:24		07:56 (SAM_WT07)	08:12		08:43 (SAM_WT05)	08:06		09:24 (KLZ_WT19)	08:45		09:29 (KLZ_WT19)
	21:52	28	21:07 (KLZ_WT13)	21:03	21	20:30 (EVE_WT02)	19:55	19	08:15 (SAM_WT07)	18:48	9	08:52 (SAM_WT05)	16:55	27	16:23 (KLZ_WT15)	16:39	33	10:02 (KLZ_WT19)
19	05:51		20:39 (KLZ_WT13)	06:37		20:07 (EVE_WT02)	07:25		07:56 (SAM_WT07)	08:14		08:41 (SAM_WT05)	08:07		09:23 (KLZ_WT19)	08:45		09:24 (MVN_WT01)
	21:51	28	21:07 (KLZ_WT13)	21:01	23	20:30 (EVE_WT02)	19:53	19	08:15 (SAM_WT07)	18:46	12	08:53 (SAM_WT05)	16:53	28	16:22 (KLZ_WT15)	16:39	34	10:02 (KLZ_WT19)
20	05:52		20:40 (KLZ_WT13)	06:38		20:08 (EVE_WT02)	07:27		07:55 (SAM_WT07)	08:16		08:42 (SAM_WT05)	08:09		09:23 (KLZ_WT19)	08:46		09:25 (MVN_WT01)
	21:50	28	21:08 (KLZ_WT13)	20:59	23	20:31 (EVE_WT02)	19:50	21	08:16 (SAM_WT07)	18:44	12	08:54 (SAM_WT05)	16:52	27	16:21 (KLZ_WT15)	16:39	34	10:03 (KLZ_WT19)
21	05:54		20:39 (KLZ_WT13)	06:40		07:21 (SAM_WT06)	07:28		07:54 (SAM_WT07)	08:18		08:43 (SAM_WT05)	08:11		09:22 (KLZ_WT19)	08:47		09:25 (MVN_WT01)
	21:49	29	21:08 (KLZ_WT13)	20:57	31	20:29 (EVE_WT02)	19:48	21	08:15 (SAM_WT07)	18:42	11	08:54 (SAM_WT05)	16:51	28	16:20 (KLZ_WT15)	16:40	34	10:03 (KLZ_WT19)
22	05:55		20:39 (KLZ_WT13)	06:41		07:19 (SAM_WT06)	07:30		07:55 (SAM_WT07)	08:19		08:45 (SAM_WT05)	08:12		09:22 (KLZ_WT19)	08:47		09:26 (MVN_WT01)
	21:48	29	21:08 (KLZ_WT13)	20:55	34	20:28 (EVE_WT02)	19:46	20	08:15 (SAM_WT07)	18:40	9	08:54 (SAM_WT05)	16:50	28	09:50 (KLZ_WT19)	16:40	34	10:04 (KLZ_WT19)
23	05:56		20:39 (KLZ_WT13)	06:43		07:17 (SAM_WT06)	07:32		07:56 (SAM_WT07)	08:21		08:47 (SAM_WT05)	08:14		09:21 (KLZ_WT19)	08:48		09:26 (MVN_WT01)
	21:47	29	21:08 (KLZ_WT13)	20:53	33	20:25 (EVE_WT02)	19:44	17	08:13 (SAM_WT07)	18:38	7	08:54 (SAM_WT05)	16:49	29	09:50 (KLZ_WT19)	16:41	34	10:04 (KLZ_WT19)
24	05:58		20:39 (KLZ_WT13)	06:45		07:17 (SAM_WT06)	07:33		07:58 (SAM_WT07)	08:23		08:49 (SAM_WT05)	08:16		09:21 (KLZ_WT19)	08:48		09:26 (MVN_WT01)
	21:45	29	21:08 (KLZ_WT13)	20:50	33	20:24 (EVE_WT02)	19:41	15	08:13 (SAM_WT07)	18:36	4	08:53 (SAM_WT05)	16:48	30	09:51 (KLZ_WT19)	16:41	34	10:04 (KLZ_WT19)
25	05:59		20:39 (KLZ_WT13)	06:46		07:16 (SAM_WT06)	07:35		07:59 (SAM_WT07)	07:24		07:51 (SAM_WT05)	08:17		09:22 (KLZ_WT19)	08:48		09:28 (MVN_WT01)
	21:44	30	21:09 (KLZ_WT13)	20:48	31	20:21 (EVE_WT02)	19:39	11	08:10 (SAM_WT07)	17:34	2	07:53 (SAM_WT05)	16:47	30	09:52 (KLZ_WT19)	16:42	33	10:05 (KLZ_WT19)
26	06:00		20:39 (KLZ_WT13)	06:48		07:16 (SAM_WT06)	07:36		08:01 (SAM_WT07)	07:26			08:19		09:22 (KLZ_WT19)	08:49		09:34 (KLZ_WT19)
	21:43	29	21:08 (KLZ_WT13)	20:46	29	20:20 (EVE_WT02)	19:37	8	08:09 (SAM_WT07)	17:32			16:46	31	09:52 (KLZ_WT19)	16:43	32	10:06 (KLZ_WT19)
27	06:02		20:39 (KLZ_WT13)	06:49		07:15 (SAM_WT06)	07:38		08:03 (SAM_WT07)	07:28			08:20		09:21 (KLZ_WT19)	08:49		09:34 (KLZ_WT19)
	21:41	29	21:08 (KLZ_WT13)	20:44	26	20:17 (EVE_WT02)	19:34	3	08:06 (SAM_WT11)	17:30			16:45	32	09:53 (KLZ_WT19)	16:43	32	10:06 (KLZ_WT19)
28	06:03		20:40 (KLZ_WT13)	06:51		07:17 (SAM_WT06)	07:40			07:30		08:25 (CBR_WT01)	08:22		09:22 (KLZ_WT19)	08:49		09:34 (KLZ_WT19)
	21:40	28	21:08 (KLZ_WT13)	20:42	20	20:15 (EVE_WT02)	19:32			17:28	5	08:30 (CBR_WT01)	16:44	32	09:54 (KLZ_WT19)	16:44	32	10:06 (KLZ_WT19)
29	06:05		20:40 (KLZ_WT13)	06:52		07:18 (SAM_WT06)	07:41		08:11 (SAM_WT04)	07:31		08:22 (CBR_WT01)	08:23		09:21 (KLZ_WT19)	08:49		09:34 (KLZ_WT19)
	21:38	28	21:08 (KLZ_WT13)	20:40	14	07:32 (SAM_WT06)	19:30	2	08:13 (SAM_WT04)	17:26	12	08:34 (CBR_WT01)	16:43	33	09:54 (KLZ_WT19)	16:45	33	10:07 (KLZ_WT19)
30	06:06		20:40 (KLZ_WT13)	06:54		07:20 (SAM_WT06)	07:43		08:07 (SAM_WT04)	07:33		08:21 (CBR_WT01)	08:25		09:22 (KLZ_WT19)	08:50		09:35 (KLZ_WT19)
	21:37	27	21:07 (KLZ_WT13)	20:38	11	07:31 (SAM_WT06)	19:28	8	08:15 (SAM_WT04)	17:25	14	08:35 (CBR_WT01)	16:43	33	09:55 (KLZ_WT19)	16:46	32	10:07 (KLZ_WT19)
31	06:08		20:41 (KLZ_WT13)	06:56		07:21 (SAM_WT06)				07:35		08:20 (CBR_WT01)				08:50		09:35 (KLZ_WT19)
	21:35	25	21:06 (KLZ_WT13)	20:35	8	07:29 (SAM_WT06)				17:23	17	08:37 (CBR_WT01)				16:47	33	10:08 (KLZ_WT19)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		783			518			215			139			758			1022	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,56			0,58			0,60			0,56			0,57			0,54	
Total reduction		0,24			0,27			0,25			0,20			0,15			0,12	
Total, real		190			138			55			27			113			122	

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January			February			March			April			May			June		
1	08:50		10:51 (KLZ_WT06)	08:24		08:52 (SAM_WT07)	07:32		08:03 (SAM_WT06)	07:23		08:12 (KLZ_WT17)	06:20		06:44 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:48	125	14:39 (KLZ_WT20)	17:35	119	17:05 (EVE_WT02)	18:25	27	08:33 (KLZ_WT05)	20:17	19	08:31 (KLZ_WT17)	21:06	5	06:49 (SAM_WT10)	21:51	10	06:14 (TEN_WT01)
2	08:50		10:51 (KLZ_WT06)	08:23		08:52 (SAM_WT07)	07:30		08:04 (SAM_WT06)	07:21		08:15 (KLZ_WT17)	06:18		06:42 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:49	127	16:15 (KLZ_WT13)	17:36	107	17:07 (EVE_WT02)	18:26	30	18:01 (EVE_WT01)	20:19	13	08:28 (KLZ_WT17)	21:08	6	06:48 (SAM_WT10)	21:52	11	06:15 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:52 (SAM_WT07)	07:28		08:07 (SAM_WT06)	07:19			06:16		06:41 (SAM_WT10)	05:35		06:03 (TEN_WT01)
	16:50	130	16:17 (KLZ_WT13)	17:38	105	17:09 (EVE_WT02)	18:28	36	18:03 (EVE_WT01)	20:20			21:10	6	06:47 (SAM_WT10)	21:53	13	06:16 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT04)	07:26		08:14 (KLZ_WT05)	07:17		07:39 (KLZ_WT02)	06:15		06:39 (SAM_WT10)	05:34		06:02 (TEN_WT01)
	16:51	132	16:17 (KLZ_WT13)	17:40	101	17:11 (EVE_WT02)	18:30	38	18:05 (EVE_WT01)	20:22	3	07:42 (KLZ_WT02)	21:11	6	06:45 (SAM_WT10)	21:54	14	06:16 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24		08:11 (KLZ_WT05)	07:14		07:37 (KLZ_WT02)	06:13			05:33		06:02 (TEN_WT01)
	16:52	136	16:19 (KLZ_WT13)	17:42	94	17:13 (EVE_WT02)	18:32	45	18:06 (EVE_WT01)	20:24	6	07:43 (KLZ_WT02)	21:13			21:55	15	06:17 (TEN_WT01)
6	08:49		09:18 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21		08:10 (KLZ_WT05)	07:12		07:34 (KLZ_WT02)	06:11			05:33		06:01 (TEN_WT01)
	16:54	139	16:20 (KLZ_WT13)	17:44	76	17:15 (EVE_WT02)	18:33	50	18:08 (EVE_WT01)	20:25	8	07:42 (KLZ_WT02)	21:14			21:56	16	06:17 (TEN_WT01)
7	08:48		09:18 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19		08:09 (KLZ_WT05)	07:10		07:32 (KLZ_WT01)	06:09			05:32		06:01 (TEN_WT01)
	16:55	140	16:22 (KLZ_WT13)	17:45	68	17:16 (EVE_WT02)	18:35	54	18:10 (EVE_WT01)	20:27	10	07:42 (KLZ_WT02)	21:16			21:57	17	06:18 (TEN_WT01)
8	08:48		09:17 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17		08:09 (KLZ_WT05)	07:08		07:30 (KLZ_WT01)	06:08			05:32		06:00 (TEN_WT01)
	16:56	143	16:23 (KLZ_WT13)	17:47	70	17:18 (EVE_WT02)	18:37	57	18:12 (EVE_WT01)	20:29	11	07:41 (KLZ_WT02)	21:17			21:57	17	06:17 (TEN_WT01)
9	08:48		09:17 (SAM_WT05)	08:11		08:36 (SAM_WT11)	07:15		07:38 (SAM_WT08)	07:05		07:28 (KLZ_WT01)	06:06			05:31		06:00 (TEN_WT01)
	16:58	145	16:25 (KLZ_WT13)	17:49	69	17:17 (EVE_WT02)	18:39	59	18:12 (EVE_WT01)	20:30	12	07:40 (KLZ_WT02)	21:19			21:58	18	06:18 (TEN_WT01)
10	08:47		09:16 (SAM_WT05)	08:09		08:34 (SAM_WT11)	07:13		07:35 (SAM_WT08)	07:03		07:26 (KLZ_WT01)	06:04			05:31		06:00 (TEN_WT01)
	16:59	148	16:26 (KLZ_WT13)	17:51	70	17:17 (EVE_WT02)	18:40	62	18:12 (EVE_WT01)	20:32	6	07:32 (KLZ_WT01)	21:21			21:59	19	06:19 (TEN_WT01)
11	08:47		09:15 (SAM_WT05)	08:08		08:32 (SAM_WT11)	07:10		08:07 (KLZ_WT05)	07:01		07:27 (KLZ_WT01)	06:03			05:31		06:01 (TEN_WT01)
	17:00	149	16:27 (KLZ_WT13)	17:53	68	17:16 (EVE_WT02)	18:42	60	18:12 (EVE_WT01)	20:34	3	07:30 (KLZ_WT01)	21:22			22:00	18	06:19 (TEN_WT01)
12	08:46		09:15 (SAM_WT05)	08:06		08:30 (SAM_WT11)	07:08		07:31 (KLZ_WT17)	06:59			06:01			05:30		06:00 (TEN_WT01)
	17:02	149	16:29 (KLZ_WT13)	17:54	66	17:15 (EVE_WT02)	18:44	59	18:11 (EVE_WT01)	20:35			21:24			22:00	19	06:19 (TEN_WT01)
13	08:45		09:15 (SAM_WT05)	08:04		08:32 (SAM_WT11)	07:06		07:29 (KLZ_WT17)	06:57			05:59			05:30		06:00 (TEN_WT01)
	17:03	150	16:31 (KLZ_WT13)	17:56	56	17:13 (EVE_WT02)	18:45	66	18:11 (EVE_WT01)	20:37			21:25			22:01	19	06:19 (TEN_WT01)
14	08:45		09:16 (SAM_WT05)	08:02		16:13 (KLZ_WT12)	07:04		07:26 (KLZ_WT17)	06:55			05:58			05:30		06:01 (TEN_WT01)
	17:05	150	16:32 (KLZ_WT13)	17:58	47	17:11 (EVE_WT02)	18:47	67	18:09 (EVE_WT01)	20:38			21:27			22:02	18	06:19 (TEN_WT01)
15	08:44		10:57 (KLZ_WT06)	08:00		16:13 (KLZ_WT12)	07:02		07:24 (KLZ_WT17)	06:52			05:56			05:30		06:01 (TEN_WT01)
	17:06	144	16:34 (KLZ_WT13)	18:00	38	16:51 (KLZ_WT12)	18:49	68	18:08 (EVE_WT01)	20:40			21:28			22:02	19	06:20 (TEN_WT01)
16	08:43		10:57 (KLZ_WT06)	07:58		16:14 (KLZ_WT12)	06:59		07:22 (KLZ_WT17)	06:50			05:55			05:29		06:01 (TEN_WT01)
	17:08	144	16:35 (KLZ_WT13)	18:02	36	16:50 (KLZ_WT12)	18:50	67	18:07 (EVE_WT01)	20:42			21:30			22:03	19	06:20 (TEN_WT01)
17	08:42		10:58 (KLZ_WT06)	07:57		16:15 (KLZ_WT12)	06:57		07:19 (KLZ_WT17)	06:48			05:53			05:29		06:01 (TEN_WT01)
	17:09	143	16:35 (KLZ_WT13)	18:03	34	16:49 (KLZ_WT12)	18:52	64	18:04 (EVE_WT01)	20:43			21:31			22:03	19	06:20 (TEN_WT01)
18	08:41		10:58 (KLZ_WT06)	07:55		16:17 (KLZ_WT12)	06:55		07:17 (KLZ_WT17)	06:46			05:52			05:29		06:01 (TEN_WT01)
	17:11	143	16:36 (KLZ_WT13)	18:05	31	16:48 (KLZ_WT12)	18:54	58	18:01 (EVE_WT01)	20:45			21:33			22:04	19	06:20 (TEN_WT01)
19	08:40		10:59 (KLZ_WT06)	07:53		16:18 (KLZ_WT12)	06:53		07:15 (KLZ_WT17)	06:44			05:51			05:29		06:02 (TEN_WT01)
	17:12	141	16:36 (KLZ_WT13)	18:07	29	16:47 (KLZ_WT12)	18:55	48	08:31 (KLZ_WT05)	20:47			21:34			22:04	19	06:21 (TEN_WT01)
20	08:39		11:00 (KLZ_WT06)	07:51		16:21 (KLZ_WT12)	06:50		07:13 (KLZ_WT17)	06:42			05:49			05:30		06:02 (TEN_WT01)
	17:14	139	16:37 (KLZ_WT13)	18:09	24	16:45 (KLZ_WT12)	18:57	47	08:29 (KLZ_WT05)	20:48			21:35			22:04	19	06:21 (TEN_WT01)
21	08:38		11:00 (KLZ_WT06)	07:49		08:12 (SAM_WT06)	06:48		07:10 (KLZ_WT17)	06:40			05:48			05:30		06:02 (TEN_WT01)
	17:16	137	16:36 (KLZ_WT13)	18:11	24	16:43 (KLZ_WT12)	18:59	42	08:24 (KLZ_WT05)	20:50			21:37			22:04	19	06:21 (TEN_WT01)
22	08:37		11:01 (KLZ_WT06)	07:47		08:10 (SAM_WT06)	06:46		07:08 (KLZ_WT17)	06:38			05:47			05:30		06:03 (TEN_WT01)
	17:17	135	16:37 (KLZ_WT13)	18:12	22	16:40 (KLZ_WT12)	19:00	35	07:43 (KLZ_WT17)	20:52			21:38			22:05	19	06:22 (TEN_WT01)
23	08:36		11:02 (KLZ_WT06)	07:45		08:08 (SAM_WT06)	06:44		07:08 (KLZ_WT17)	06:36			05:46			05:30		06:03 (TEN_WT01)
	17:19	133	16:39 (KLZ_WT12)	18:14	11	08:19 (SAM_WT06)	19:02	35	07:43 (KLZ_WT17)	20:53			21:40			22:05	19	06:22 (TEN_WT01)
24	08:35		09:02 (SAM_WT07)	07:43		08:06 (SAM_WT06)	06:41		07:08 (KLZ_WT17)	06:34			05:44			05:30		06:02 (TEN_WT01)
	17:21	134	16:41 (KLZ_WT12)	18:16	13	08:19 (SAM_WT06)	19:04	35	07:43 (KLZ_WT17)	20:55			21:41			22:05	20	06:22 (TEN_WT01)
25	08:34		09:00 (SAM_WT07)	07:41		08:04 (SAM_WT06)	06:39		07:08 (KLZ_WT17)	06:32			05:43			05:31		06:03 (TEN_WT01)
	17:22	135	16:42 (KLZ_WT12)	18:18	16	08:20 (SAM_WT06)	19:05	34	07:42 (KLZ_WT17)	20:57			21:42			22:05	19	06:22 (TEN_WT01)
26	08:32		08:59 (SAM_WT07)	07:38		08:02 (SAM_WT06)	06:37		07:08 (KLZ_WT17)	06:30			05:42			05:31		06:03 (TEN_WT01)
	17:24	134	16:44 (KLZ_WT12)	18:19	18	08:20 (SAM_WT06)	19:07	33	07:41 (KLZ_WT17)	20:58			21:43			22:05	19	06:22 (TEN_WT01)
27	08:31		08:57 (SAM_WT07)	07:36		08:03 (SAM_WT06)	06:35		07:08 (KLZ_WT17)	06:28			05:41			05:32		06:03 (TEN_WT01)
	17:26	133	16:45 (KLZ_WT12)	18:21	16	08:19 (SAM_WT06)	19:09	32	07:40 (KLZ_WT17)	21:00			21:45			22:05	19	06:22 (TEN_WT01)
28	08:30		08:56 (SAM_WT07)	07:34		08:02 (SAM_WT06)	06:32		07:08 (KLZ_WT17)	06:26			05:40		06:07 (TEN_WT01)	05:32		06:04 (TEN_WT01)
	17:28	134	16:47 (KLZ_WT12)	18:23	16	08:18 (SAM_WT06)	19:10	31	07:39 (KLZ_WT17)	21:01			21:46	1	06:08 (TEN_WT01)	22:05	19	06:23 (TEN_WT01)
29	08:28		08:54 (SAM_WT07)				07:30		08:09 (KLZ_WT17)	06:24		06:48 (SAM_WT10)	05:39		06:07 (TEN_WT01)	05:33		06:03 (TEN_WT01)
	17:29	133	16:48 (KLZ_WT12)				20:12	28	08:37 (KLZ_WT17)	21:03	2	06:50 (SAM_WT10)	21:47	5	06:12 (TEN_WT01)	22:05	19	06:22 (TEN_WT01)
30	08:27		08:53 (SAM_WT07)				07:28		08:10 (KLZ_WT17)	06:22		06:46 (SAM_WT10)	05:38		06:06 (TEN_WT01)	05:33		06:04 (TEN_WT01)
	17:31	128	16:49 (KLZ_WT12)				20:14	26	08:36 (KLZ_WT17)	21:05	3	06:49 (SAM_WT10)	21:48	7	06:13 (TEN_WT01)	22:04	19	06:23 (TEN_WT01)
31	08:26		08:51 (SAM_WT07)				07:25		08:12 (KLZ_WT17)				05:37		06:05 (TEN_WT01)			
	17:33	127	17:03 (EVE_WT02)				20:15	22	08:34 (KLZ_WT17)				21:49	9	06:14 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		4280			1444			1415			96			45			529	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,67			0,68			0,59			0,63			0,69			0,71	
Total reduction		0,16			0,20			0,22			0,28			0,31			0,31	
Total, real		692			289			309			27			14			162	

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

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

Licensed user:
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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July			August			September			October			November			December		
1	05:34		06:05 (TEN_WT01)	06:09			06:57		07:26 (KLZ_WT01)	07:44		08:09 (KLZ_WT17)	07:37		08:04 (SAM_WT11)	08:26		08:57 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:34			20:33	3	07:29 (KLZ_WT01)	19:25	63	18:50 (EVE_WT01)	17:21	69	16:47 (EVE_WT02)	16:42	149	16:09 (KLZ_WT13)
2	05:34		06:04 (TEN_WT01)	06:10			06:59		07:24 (KLZ_WT01)	07:46		08:46 (KLZ_WT05)	07:38		08:06 (SAM_WT11)	08:27		08:59 (SAM_WT05)
	22:04	19	06:23 (TEN_WT01)	21:32			20:31	6	07:30 (KLZ_WT01)	19:23	58	18:50 (EVE_WT01)	17:19	67	16:47 (EVE_WT02)	16:41	146	16:09 (KLZ_WT13)
3	05:35		06:05 (TEN_WT01)	06:12			07:00		07:26 (KLZ_WT01)	07:48		08:12 (SAM_WT08)	07:40		08:08 (SAM_WT04)	08:29		09:00 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:30			20:29	12	07:38 (KLZ_WT02)	19:21	62	18:49 (EVE_WT01)	17:17	70	16:47 (EVE_WT02)	16:41	145	16:08 (KLZ_WT13)
4	05:36		06:06 (TEN_WT01)	06:13			07:02		07:27 (KLZ_WT01)	07:49		08:14 (SAM_WT08)	07:42		08:09 (SAM_WT04)	08:30		09:02 (SAM_WT05)
	22:03	18	06:24 (TEN_WT01)	21:29			20:27	11	07:38 (KLZ_WT02)	19:19	59	18:49 (EVE_WT01)	17:16	69	16:46 (EVE_WT02)	16:40	142	16:08 (KLZ_WT13)
5	05:37		06:06 (TEN_WT01)	06:15			07:03		07:29 (KLZ_WT01)	07:51		08:46 (KLZ_WT05)	07:44		08:11 (SAM_WT04)	08:31		09:03 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:27			20:24	10	07:39 (KLZ_WT02)	19:16	57	18:49 (EVE_WT01)	17:14	81	16:44 (EVE_WT02)	16:40	140	16:07 (KLZ_WT13)
6	05:37		06:07 (TEN_WT01)	06:17			07:05		07:30 (KLZ_WT02)	07:53		08:45 (KLZ_WT05)	07:45		08:13 (SAM_WT04)	08:33		09:04 (SAM_WT05)
	22:02	16	06:23 (TEN_WT01)	21:25			20:22	8	07:38 (KLZ_WT02)	19:14	56	18:47 (EVE_WT01)	17:12	93	16:42 (EVE_WT02)	16:39	139	16:06 (KLZ_WT13)
7	05:38		06:08 (TEN_WT01)	06:18			07:06		07:32 (KLZ_WT02)	07:54		08:46 (KLZ_WT05)	07:47		08:15 (SAM_WT04)	08:34		09:06 (SAM_WT05)
	22:02	15	06:23 (TEN_WT01)	21:24			20:20	6	07:38 (KLZ_WT02)	19:12	51	18:45 (EVE_WT01)	17:11	101	16:41 (EVE_WT02)	16:39	136	16:06 (KLZ_WT13)
8	05:39		06:09 (TEN_WT01)	06:20			07:08		07:33 (KLZ_WT02)	07:56		08:47 (KLZ_WT05)	07:49		08:23 (SAM_WT07)	08:35		09:07 (SAM_WT05)
	22:01	14	06:23 (TEN_WT01)	21:22			20:18	4	07:37 (KLZ_WT02)	19:10	46	18:43 (EVE_WT01)	17:09	105	16:39 (EVE_WT02)	16:39	132	16:05 (KLZ_WT13)
9	05:40		06:10 (TEN_WT01)	06:21		06:49 (SAM_WT10)	07:10			07:57		08:47 (KLZ_WT05)	07:50		08:23 (SAM_WT07)	08:36		09:08 (SAM_WT05)
	22:00	13	06:23 (TEN_WT01)	21:20	6	06:55 (SAM_WT10)	20:15			19:08	41	18:40 (EVE_WT01)	17:07	107	16:38 (EVE_WT02)	16:38	130	16:05 (KLZ_WT13)
10	05:41		06:11 (TEN_WT01)	06:23		06:50 (SAM_WT10)	07:11		08:09 (KLZ_WT17)	07:59		08:49 (KLZ_WT05)	07:52		08:23 (SAM_WT07)	08:37		10:40 (KLZ_WT06)
	22:00	12	06:23 (TEN_WT01)	21:18	6	06:56 (SAM_WT10)	20:13	12	08:21 (KLZ_WT17)	19:05	34	18:38 (EVE_WT01)	17:06	119	16:36 (EVE_WT02)	16:38	129	16:05 (KLZ_WT13)
11	05:42		06:12 (TEN_WT01)	06:24		06:51 (SAM_WT10)	07:13		08:06 (KLZ_WT17)	08:01		08:40 (SAM_WT06)	07:54		08:23 (SAM_WT07)	08:38		10:41 (KLZ_WT06)
	21:59	11	06:23 (TEN_WT01)	21:16	5	06:56 (SAM_WT10)	20:11	18	08:24 (KLZ_WT17)	19:03	34	18:36 (EVE_WT01)	17:04	126	16:35 (EVE_WT02)	16:38	125	14:29 (KLZ_WT20)
12	05:43		06:13 (TEN_WT01)	06:26		06:53 (SAM_WT10)	07:14		08:03 (KLZ_WT17)	08:02		08:38 (SAM_WT06)	07:56		08:24 (SAM_WT07)	08:39		10:41 (KLZ_WT06)
	21:58	9	06:22 (TEN_WT01)	21:14	4	06:57 (SAM_WT10)	20:09	22	08:25 (KLZ_WT17)	19:01	28	09:09 (KLZ_WT05)	17:03	128	16:20 (KLZ_WT12)	16:38	126	14:30 (KLZ_WT20)
13	05:44		06:14 (TEN_WT01)	06:27		06:54 (SAM_WT10)	07:16		08:02 (KLZ_WT17)	08:04		08:36 (SAM_WT06)	07:57		08:26 (SAM_WT07)	08:40		10:42 (KLZ_WT06)
	21:57	8	06:22 (TEN_WT01)	21:13	3	06:57 (SAM_WT10)	20:06	25	08:27 (KLZ_WT17)	18:59	22	09:04 (KLZ_WT05)	17:01	132	16:19 (KLZ_WT12)	16:38	126	14:30 (KLZ_WT20)
14	05:45		06:15 (TEN_WT01)	06:29		06:56 (SAM_WT10)	07:17		08:00 (KLZ_WT17)	08:06		08:35 (SAM_WT06)	07:59		08:28 (SAM_WT07)	08:41		10:42 (KLZ_WT06)
	21:56	6	06:21 (TEN_WT01)	21:11	2	06:58 (SAM_WT10)	20:04	28	08:28 (KLZ_WT17)	18:57	16	08:51 (SAM_WT06)	17:00	134	16:19 (KLZ_WT12)	16:38	126	14:31 (KLZ_WT20)
15	05:46		06:16 (TEN_WT01)	06:30			07:19		07:59 (KLZ_WT17)	08:07		08:35 (SAM_WT06)	08:01		08:30 (SAM_WT07)	08:42		10:43 (KLZ_WT06)
	21:56	3	06:19 (TEN_WT01)	21:09			20:02	30	08:29 (KLZ_WT17)	18:55	17	08:52 (SAM_WT06)	16:59	133	16:18 (KLZ_WT12)	16:38	126	14:31 (KLZ_WT20)
16	05:48			06:32			07:21		07:57 (KLZ_WT17)	08:09		08:35 (SAM_WT06)	08:02		08:32 (SAM_WT07)	08:43		10:44 (KLZ_WT06)
	21:55			21:07			20:00	32	08:29 (KLZ_WT17)	18:52	17	08:52 (SAM_WT06)	16:57	134	16:17 (KLZ_WT12)	16:38	125	14:32 (KLZ_WT20)
17	05:49			06:34			07:22		07:56 (KLZ_WT17)	08:11		08:36 (SAM_WT06)	08:04		08:34 (SAM_WT07)	08:44		10:44 (KLZ_WT06)
	21:54			21:05			19:57	33	08:29 (KLZ_WT17)	18:50	15	08:51 (SAM_WT06)	16:56	135	16:16 (KLZ_WT12)	16:38	126	14:33 (KLZ_WT20)
18	05:50			06:35			07:24		07:55 (KLZ_WT17)	08:12		08:38 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		10:44 (KLZ_WT06)
	21:53			21:03			19:55	34	08:29 (KLZ_WT17)	18:48	12	08:50 (SAM_WT06)	16:55	134	16:15 (KLZ_WT12)	16:39	125	14:32 (KLZ_WT20)
19	05:51			06:37			07:25		07:55 (KLZ_WT17)	08:14		08:40 (SAM_WT06)	08:08		10:36 (KLZ_WT06)	08:45		10:45 (KLZ_WT06)
	21:51			21:01			19:53	34	08:29 (KLZ_WT17)	18:46	15	17:07 (KLZ_WT12)	16:53	133	16:13 (KLZ_WT12)	16:39	125	14:33 (KLZ_WT20)
20	05:52			06:38			07:27		07:55 (KLZ_WT17)	08:16		08:42 (SAM_WT06)	08:09		10:36 (KLZ_WT06)	08:46		10:46 (KLZ_WT06)
	21:50			20:59			19:50	35	08:30 (KLZ_WT17)	18:44	22	17:12 (KLZ_WT12)	16:52	135	16:12 (KLZ_WT13)	16:39	125	14:34 (KLZ_WT20)
21	05:54			06:40			07:28		07:54 (KLZ_WT17)	08:18		08:43 (SAM_WT06)	08:11		10:36 (KLZ_WT06)	08:47		10:46 (KLZ_WT06)
	21:49			20:57			19:48	35	08:29 (KLZ_WT17)	18:42	24	17:14 (KLZ_WT12)	16:51	137	16:12 (KLZ_WT13)	16:40	125	14:34 (KLZ_WT20)
22	05:55			06:41			07:30		07:55 (KLZ_WT17)	08:19		16:50 (KLZ_WT12)	08:12		10:36 (KLZ_WT06)	08:47		10:47 (KLZ_WT06)
	21:48			20:55			19:46	38	09:07 (KLZ_WT05)	18:40	26	17:16 (KLZ_WT12)	16:50	139	16:13 (KLZ_WT13)	16:40	125	14:35 (KLZ_WT20)
23	05:56			06:43			07:32		07:56 (KLZ_WT17)	08:21		16:48 (KLZ_WT12)	08:14		10:35 (KLZ_WT06)	08:48		10:47 (KLZ_WT06)
	21:47			20:53			19:44	45	09:11 (KLZ_WT05)	18:38	30	17:18 (KLZ_WT12)	16:49	141	16:12 (KLZ_WT13)	16:41	125	14:35 (KLZ_WT20)
24	05:58			06:44			07:33		07:58 (KLZ_WT17)	08:23		16:47 (KLZ_WT12)	08:16		10:35 (KLZ_WT06)	08:48		10:47 (KLZ_WT06)
	21:45			20:50			19:41	48	09:14 (KLZ_WT05)	18:36	32	17:19 (KLZ_WT12)	16:48	143	16:13 (KLZ_WT13)	16:41	125	14:35 (KLZ_WT20)
25	05:59			06:46			07:35		07:59 (KLZ_WT17)	07:24		15:46 (KLZ_WT12)	08:17		10:36 (KLZ_WT06)	08:48		10:48 (KLZ_WT06)
	21:44			20:48			19:39	52	18:41 (EVE_WT01)	17:34	34	16:20 (KLZ_WT12)	16:47	143	16:13 (KLZ_WT13)	16:42	125	14:36 (KLZ_WT20)
26	06:00			06:48			07:36		08:01 (KLZ_WT17)	07:26		15:45 (KLZ_WT12)	08:19		10:35 (KLZ_WT06)	08:49		10:48 (KLZ_WT06)
	21:43			20:46			19:37	63	18:46 (EVE_WT01)	17:32	36	16:21 (KLZ_WT12)	16:46	144	16:13 (KLZ_WT13)	16:43	126	14:37 (KLZ_WT20)
27	06:02			06:49			07:38		08:03 (KLZ_WT17)	07:28		15:43 (KLZ_WT12)	08:20		10:36 (KLZ_WT06)	08:49		10:48 (KLZ_WT06)
	21:41			20:44			19:34	66	18:48 (EVE_WT01)	17:30	38	16:21 (KLZ_WT12)	16:45	144	16:13 (KLZ_WT13)	16:43	126	14:37 (KLZ_WT20)
28	06:03			06:51			07:40		08:04 (KLZ_WT17)	07:30		15:42 (KLZ_WT12)	08:22		08:56 (SAM_WT05)	08:49		10:49 (KLZ_WT06)
	21:40			20:42			19:32	67	18:48 (EVE_WT01)	17:28	48	16:41 (EVE_WT02)	16:44	149	16:12 (KLZ_WT13)	16:44	125	14:37 (KLZ_WT20)
29	06:05			06:52			07:41		08:06 (KLZ_WT17)	07:31		08:01 (SAM_WT11)	08:23		08:55 (SAM_WT05)	08:49		10:49 (KLZ_WT06)
	21:38			20:40			19:30	68	18:50 (EVE_WT01)	17:26	59	16:43 (EVE_WT02)	16:43	150	16:11 (KLZ_WT13)	16:45	126	14:38 (KLZ_WT20)
30	06:06			06:54			07:43		08:07 (KLZ_WT17)	07:33		08:00 (SAM_WT11)	08:25		08:56 (SAM_WT05)	08:50		10:50 (KLZ_WT06)
	21:37			20:38			19:28	66	18:49 (EVE_WT01)	17:25	68	16:45 (EVE_WT02)	16:43	149	16:10 (KLZ_WT13)	16:46	125	14:38 (KLZ_WT20)
31	06:08			06:56						07:35		08:02 (SAM_WT11)				08:50		10:50 (KLZ_WT06)
	21:35			20:35						17:23	68	16:46 (EVE_WT02)				16:47	125	14:38 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		197			26			911			1188			3644			4021	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,67			0,60			0,63			0,68			0,66	
Total reduction		0,31			0,31			0,25			0,22			0,18			0,15	
Total, real		61			8			229			266			642			586	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January			February			March			April			May			June	
1	08:50		09:47 (SAM_WT07)	08:24		08:50 (SAM_WT11)	07:32		08:10 (SAM_WT06)	07:23		19:14 (KLZ_WT20)	06:20		06:44 (SAM_WT01)	05:36	
	16:48	37	10:24 (SAM_WT07)	17:35	24	09:14 (SAM_WT11)	18:25	28	08:38 (SAM_WT06)	20:17	33	19:51 (EVE_WT01)	21:06	2	06:46 (SAM_WT01)	21:50	
2	08:50		09:48 (SAM_WT07)	08:22		08:48 (SAM_WT11)	07:30		08:09 (SAM_WT06)	07:21		19:16 (KLZ_WT20)	06:18		06:42 (SAM_WT01)	05:36	
	16:49	37	10:25 (SAM_WT07)	17:36	26	09:14 (SAM_WT11)	18:26	31	08:40 (SAM_WT06)	20:19	31	19:53 (EVE_WT01)	21:08	8	20:26 (KLZ_WT05)	21:52	
3	08:49		09:49 (SAM_WT07)	08:21		08:48 (SAM_WT11)	07:28		08:08 (SAM_WT06)	07:19		19:19 (KLZ_WT20)	06:16		06:40 (SAM_WT01)	05:35	
	16:50	37	10:26 (SAM_WT07)	17:38	25	09:13 (SAM_WT11)	18:28	33	08:41 (SAM_WT06)	20:20	28	19:55 (EVE_WT01)	21:09	14	20:29 (KLZ_WT05)	21:53	
4	08:49		09:48 (SAM_WT07)	08:19		08:49 (SAM_WT11)	07:26		08:07 (SAM_WT06)	07:16		19:36 (KLZ_WT06)	06:15		20:16 (KLZ_WT05)	05:34	
	16:51	37	10:25 (SAM_WT07)	17:40	25	09:14 (SAM_WT11)	18:30	35	08:42 (SAM_WT06)	20:22	20	19:56 (EVE_WT01)	21:11	15	20:31 (KLZ_WT05)	21:54	
5	08:49		09:49 (SAM_WT07)	08:18		08:49 (SAM_WT11)	07:24		08:05 (SAM_WT06)	07:14		19:36 (KLZ_WT06)	06:13		20:14 (KLZ_WT05)	05:33	
	16:52	37	10:26 (SAM_WT07)	17:42	24	09:13 (SAM_WT11)	18:32	37	08:42 (SAM_WT06)	20:24	18	19:54 (EVE_WT01)	21:13	18	20:32 (KLZ_WT05)	21:55	
6	08:49		09:49 (SAM_WT07)	08:16		08:49 (SAM_WT11)	07:21		08:04 (SAM_WT06)	07:12		07:34 (SWB_WT01_RP)	06:11		20:13 (KLZ_WT05)	05:33	
	16:54	37	10:26 (SAM_WT07)	17:44	23	09:12 (SAM_WT11)	18:33	38	08:42 (SAM_WT06)	20:25	19	19:52 (KLZ_WT06)	21:14	20	20:33 (KLZ_WT05)	21:56	
7	08:48		09:50 (SAM_WT07)	08:14		08:50 (SAM_WT11)	07:19		08:04 (SAM_WT06)	07:10		07:32 (SWB_WT01_RP)	06:09		20:12 (KLZ_WT05)	05:32	
	16:55	37	10:27 (SAM_WT07)	17:45	21	09:11 (SAM_WT11)	18:35	39	08:43 (SAM_WT06)	20:27	18	19:51 (KLZ_WT06)	21:16	22	20:34 (KLZ_WT05)	21:56	
8	08:48		09:50 (SAM_WT07)	08:13		08:52 (SAM_WT11)	07:17		08:03 (SAM_WT06)	07:08		07:30 (SWB_WT01_RP)	06:08		20:11 (KLZ_WT05)	05:32	
	16:56	37	10:27 (SAM_WT07)	17:47	19	09:11 (SAM_WT11)	18:37	40	08:43 (SAM_WT06)	20:29	20	19:51 (KLZ_WT06)	21:17	23	20:34 (KLZ_WT05)	21:57	
9	08:47		09:51 (SAM_WT07)	08:11		08:53 (SAM_WT11)	07:15		08:02 (SAM_WT06)	07:05		07:28 (SWB_WT01_RP)	06:06		20:11 (KLZ_WT05)	05:31	
	16:57	37	10:28 (SAM_WT07)	17:49	17	09:10 (SAM_WT11)	18:38	40	08:42 (SAM_WT06)	20:30	18	19:50 (KLZ_WT06)	21:19	24	20:35 (KLZ_WT05)	21:58	
10	08:47		09:51 (SAM_WT07)	08:09		08:55 (SAM_WT11)	07:13		08:02 (SAM_WT06)	07:03		19:38 (KLZ_WT06)	06:04		20:10 (KLZ_WT05)	05:31	
	16:59	37	10:28 (SAM_WT07)	17:51	13	09:08 (SAM_WT11)	18:40	40	08:42 (SAM_WT06)	20:32	10	19:48 (KLZ_WT06)	21:21	25	20:35 (KLZ_WT05)	21:59	
11	08:46		09:51 (SAM_WT07)	08:08		08:58 (SAM_WT11)	07:10		08:02 (SAM_WT06)	07:01		19:39 (KLZ_WT06)	06:03		20:11 (KLZ_WT05)	05:30	
	17:00	37	10:28 (SAM_WT07)	17:53	6	09:04 (SAM_WT11)	18:42	42	18:17 (KLZ_WT13)	20:33	5	19:44 (KLZ_WT06)	21:22	25	20:36 (KLZ_WT05)	22:00	
12	08:46		09:51 (SAM_WT07)	08:06			07:08		08:02 (SAM_WT06)	06:59			06:01		20:10 (KLZ_WT05)	05:30	
	17:02	37	10:28 (SAM_WT07)	17:54			18:44	44	18:19 (KLZ_WT13)	20:35			21:24	26	20:36 (KLZ_WT05)	22:00	
13	08:45		09:53 (SAM_WT07)	08:04			07:06		08:02 (SAM_WT06)	06:57			05:59		06:25 (SAM_WT09)	05:30	
	17:03	36	10:29 (SAM_WT07)	17:56			18:45	44	18:20 (KLZ_WT13)	20:37			21:25	26	20:36 (KLZ_WT05)	22:01	
14	08:44		09:53 (SAM_WT07)	08:02			07:04		08:02 (SAM_WT06)	06:55			05:58		06:23 (SAM_WT09)	05:30	
	17:05	37	10:30 (SAM_WT07)	17:58			18:47	46	18:22 (KLZ_WT13)	20:38			21:27	28	20:36 (KLZ_WT05)	22:02	
15	08:44		09:53 (SAM_WT07)	08:00			07:02		07:24 (SAM_WT08)	06:52		07:15 (SAM_WT02)	05:56		06:22 (SAM_WT09)	05:30	
	17:06	37	10:30 (SAM_WT07)	18:00			18:49	47	18:24 (KLZ_WT13)	20:40	2	07:17 (SAM_WT02)	21:28	28	20:36 (KLZ_WT05)	22:02	
16	08:43		09:54 (SAM_WT07)	07:58			06:59		07:22 (SAM_WT08)	06:50		07:13 (SAM_WT02)	05:55		06:21 (SAM_WT09)	05:29	
	17:08	36	10:30 (SAM_WT07)	18:02			18:50	47	18:24 (KLZ_WT13)	20:42	4	07:17 (SAM_WT02)	21:30	29	20:36 (KLZ_WT05)	22:03	
17	08:42		09:55 (SAM_WT07)	07:56			06:57		07:19 (SAM_WT08)	06:48		07:11 (SAM_WT02)	05:53		06:19 (SAM_WT09)	05:29	
	17:09	35	10:30 (SAM_WT07)	18:03			18:52	46	18:27 (KLZ_WT20)	20:43	5	07:16 (SAM_WT02)	21:31	27	20:35 (KLZ_WT05)	22:03	
18	08:41		09:55 (SAM_WT07)	07:55			06:55		07:17 (SAM_WT08)	06:46		07:09 (SAM_WT02)	05:52		20:12 (KLZ_WT05)	05:29	
	17:11	35	10:30 (SAM_WT07)	18:05			18:54	50	18:29 (KLZ_WT20)	20:45	6	07:15 (SAM_WT02)	21:33	23	20:35 (KLZ_WT05)	22:03	
19	08:40		09:56 (SAM_WT07)	07:53			06:53		07:15 (SAM_WT08)	06:44		07:10 (SAM_WT02)	05:51		20:12 (KLZ_WT05)	05:29	
	17:12	34	10:30 (SAM_WT07)	18:07			18:55	52	18:31 (KLZ_WT20)	20:47	2	07:12 (SAM_WT02)	21:34	23	20:35 (KLZ_WT05)	22:04	
20	08:39		09:07 (SAM_WT04)	07:51			06:50		07:13 (SAM_WT08)	06:42		07:05 (SWB_WT02_RP)	05:49		20:13 (KLZ_WT05)	05:29	
	17:14	35	10:30 (SAM_WT07)	18:09			18:57	52	18:32 (KLZ_WT20)	20:48	1	07:06 (SWB_WT02_RP)	21:35	21	20:34 (KLZ_WT05)	22:04	
21	08:38		09:05 (SAM_WT04)	07:49			06:48		07:13 (SAM_WT08)	06:40		07:03 (SWB_WT02_RP)	05:48		20:13 (KLZ_WT05)	05:30	
	17:16	36	10:29 (SAM_WT07)	18:11			18:59	46	18:33 (KLZ_WT20)	20:50	2	07:05 (SWB_WT02_RP)	21:37	20	20:33 (KLZ_WT05)	22:04	
22	08:37		09:04 (SAM_WT04)	07:47			06:46		07:15 (SAM_WT08)	06:38			05:47		20:14 (KLZ_WT05)	05:30	
	17:17	37	10:28 (SAM_WT07)	18:12			19:00	38	18:35 (KLZ_WT20)	20:52			21:38	18	20:32 (KLZ_WT05)	22:05	
23	08:36		09:03 (SAM_WT04)	07:45			06:43		18:13 (KLZ_WT20)	06:36		06:59 (SAM_WT03)	05:45		20:16 (KLZ_WT05)	05:30	
	17:19	37	10:28 (SAM_WT07)	18:14			19:02	24	18:37 (KLZ_WT20)	20:53	1	07:00 (SAM_WT03)	21:39	16	20:32 (KLZ_WT05)	22:05	
24	08:35		09:01 (SAM_WT04)	07:43			06:41		18:12 (KLZ_WT20)	06:34		06:57 (SAM_WT03)	05:44		20:17 (KLZ_WT05)	05:30	
	17:21	38	10:27 (SAM_WT07)	18:16			19:04	26	18:38 (KLZ_WT20)	20:55	3	07:00 (SAM_WT03)	21:41	14	20:31 (KLZ_WT05)	22:05	
25	08:34		09:00 (SAM_WT04)	07:40			06:39		18:11 (KLZ_WT20)	06:32		06:55 (SAM_WT03)	05:43		20:18 (KLZ_WT05)	05:31	
	17:22	37	10:26 (SAM_WT07)	18:18			19:05	29	18:40 (KLZ_WT20)	20:56	5	07:00 (SAM_WT03)	21:42	12	20:30 (KLZ_WT05)	22:05	
26	08:32		08:59 (SAM_WT04)	07:38		08:18 (SAM_WT06)	06:37		18:12 (KLZ_WT20)	06:30		06:53 (SAM_WT03)	05:42		20:20 (KLZ_WT05)	05:31	
	17:24	36	10:25 (SAM_WT07)	18:19	15	08:33 (SAM_WT06)	19:07	29	18:41 (KLZ_WT20)	20:58	7	07:00 (SAM_WT03)	21:43	8	20:28 (KLZ_WT05)	22:05	
27	08:31		08:57 (SAM_WT04)	07:36		08:15 (SAM_WT06)	06:34		18:12 (KLZ_WT20)	06:28		06:51 (SAM_WT03)	05:41		20:22 (KLZ_WT05)	05:31	
	17:26	35	10:23 (SAM_WT07)	18:21	21	08:36 (SAM_WT06)	19:09	32	18:44 (KLZ_WT12)	21:00	8	06:59 (SAM_WT03)	21:45	4	20:26 (KLZ_WT05)	22:05	
28	08:30		08:56 (SAM_WT04)	07:34		08:12 (SAM_WT06)	06:32		18:11 (KLZ_WT20)	06:26		06:49 (SAM_WT03)	05:40			05:32	
	17:27	31	10:21 (SAM_WT07)	18:23	25	08:37 (SAM_WT06)	19:10	34	18:45 (KLZ_WT12)	21:01	9	06:58 (SAM_WT03)	21:46			22:05	
29	08:28		08:54 (SAM_WT11)				07:30		19:12 (KLZ_WT20)	06:24		06:51 (SAM_WT03)	05:39			05:32	
	17:29	24	10:16 (SAM_WT07)				20:12	35	19:47 (KLZ_WT12)	21:03	6	06:57 (SAM_WT03)	21:47			22:05	
30	08:27		08:53 (SAM_WT11)				07:28		19:12 (KLZ_WT20)	06:22			05:38			05:33	
	17:31	21	09:14 (SAM_WT04)				20:14	36	19:49 (EVE_WT01)	21:05			21:48			22:04	
31	08:25		08:51 (SAM_WT11)				07:25		19:14 (KLZ_WT20)				05:37				
	17:33	22	09:13 (SAM_WT04)				20:15	34	19:50 (EVE_WT01)				21:49				
Potential sun hours	262			279			367			415			482			495	
Total, worst case		1083			284			1194			281			519			
Sun reduction		0,25			0,30			0,38			0,46			0,46			
Oper. time red.		0,97			0,97			0,97			0,97			0,97			
Wind dir. red.		0,56			0,55			0,58			0,62			0,56			
Total reduction		0,13			0,16			0,22			0,28			0,25			
Total, real		145			46			257			79			129			

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July			August			September			October			November			December		
1	05:34			06:09		20:21 (KLZ_WT05)	06:57		19:39 (KLZ_WT06)	07:44		08:41 (SAM_WT06)	07:36		08:24 (SAM_WT11)	08:26		09:33 (SAM_WT07)
	22:04			21:34	25	20:46 (KLZ_WT05)	20:33	5	19:44 (KLZ_WT06)	19:25	43	18:58 (KLZ_WT13)	17:21	14	08:38 (SAM_WT11)	16:42	37	10:10 (SAM_WT07)
2	05:34			06:10		20:20 (KLZ_WT05)	06:59		19:36 (KLZ_WT06)	07:46		08:41 (SAM_WT06)	07:38		08:23 (SAM_WT11)	08:27		09:34 (SAM_WT07)
	22:04			21:32	25	20:45 (KLZ_WT05)	20:31	10	19:46 (KLZ_WT06)	19:23	42	18:56 (KLZ_WT13)	17:19	17	08:40 (SAM_WT11)	16:41	37	10:11 (SAM_WT07)
3	05:35			06:12		20:21 (KLZ_WT05)	07:00		07:26 (SWB_WT01_RP)	07:48		08:40 (SAM_WT06)	07:40		08:21 (SAM_WT11)	08:29		09:34 (SAM_WT07)
	22:04			21:30	25	20:46 (KLZ_WT05)	20:29	18	19:48 (KLZ_WT06)	19:21	40	09:20 (SAM_WT06)	17:17	19	08:40 (SAM_WT11)	16:41	37	10:11 (SAM_WT07)
4	05:36			06:13		20:21 (KLZ_WT05)	07:02		07:27 (SWB_WT01_RP)	07:49		08:40 (SAM_WT06)	07:42		08:20 (SAM_WT11)	08:30		09:35 (SAM_WT07)
	22:03			21:29	24	20:45 (KLZ_WT05)	20:27	20	19:48 (KLZ_WT06)	19:19	40	09:20 (SAM_WT06)	17:16	21	08:41 (SAM_WT11)	16:40	37	10:12 (SAM_WT07)
5	05:37			06:15		20:22 (KLZ_WT05)	07:03		07:29 (SWB_WT01_RP)	07:51		08:40 (SAM_WT06)	07:43		08:19 (SAM_WT11)	08:31		09:35 (SAM_WT07)
	22:03			21:27	23	20:45 (KLZ_WT05)	20:24	18	19:48 (KLZ_WT06)	19:16	40	09:20 (SAM_WT06)	17:14	23	08:42 (SAM_WT11)	16:40	37	10:12 (SAM_WT07)
6	05:37			06:16		20:22 (KLZ_WT05)	07:05		07:30 (SWB_WT01_RP)	07:52		08:40 (SAM_WT06)	07:45		08:19 (SAM_WT11)	08:33		09:35 (SAM_WT07)
	22:02			21:25	21	20:43 (KLZ_WT05)	20:22	18	19:48 (KLZ_WT06)	19:14	39	09:19 (SAM_WT06)	17:12	24	08:43 (SAM_WT11)	16:39	37	10:12 (SAM_WT07)
7	05:38			06:18		20:23 (KLZ_WT05)	07:06		19:31 (KLZ_WT06)	07:54		08:40 (SAM_WT06)	07:47		08:19 (SAM_WT11)	08:34		09:36 (SAM_WT07)
	22:02			21:23	20	20:43 (KLZ_WT05)	20:20	17	19:48 (KLZ_WT06)	19:12	38	09:18 (SAM_WT06)	17:11	25	08:44 (SAM_WT11)	16:39	37	10:13 (SAM_WT07)
8	05:39			06:19		20:24 (KLZ_WT05)	07:08		19:30 (KLZ_WT06)	07:56		08:41 (SAM_WT06)	07:49		08:18 (SAM_WT11)	08:35		09:36 (SAM_WT07)
	22:01			21:22	17	20:41 (KLZ_WT05)	20:18	21	19:51 (EVE_WT01)	19:10	37	09:18 (SAM_WT06)	17:09	26	08:44 (SAM_WT11)	16:39	38	10:14 (SAM_WT07)
9	05:40			06:21		20:25 (KLZ_WT05)	07:10		19:13 (KLZ_WT20)	07:57		08:40 (SAM_WT06)	07:50		08:19 (SAM_WT11)	08:36		09:37 (SAM_WT07)
	22:00			21:20	14	20:39 (KLZ_WT05)	20:15	28	19:49 (EVE_WT01)	19:08	36	09:16 (SAM_WT06)	17:07	25	08:44 (SAM_WT11)	16:38	37	10:14 (SAM_WT07)
10	05:41			06:23		06:50 (SAM_WT01)	07:11		19:09 (KLZ_WT20)	07:59		08:41 (SAM_WT06)	07:52		08:21 (SAM_WT11)	08:37		09:37 (SAM_WT07)
	22:00			21:18	12	20:37 (KLZ_WT05)	20:13	31	19:46 (EVE_WT01)	19:05	35	09:16 (SAM_WT06)	17:06	24	08:45 (SAM_WT11)	16:38	37	10:14 (SAM_WT07)
11	05:42			06:24		06:51 (SAM_WT01)	07:13		19:08 (KLZ_WT20)	08:01		08:42 (SAM_WT06)	07:54		08:23 (SAM_WT11)	08:38		09:37 (SAM_WT07)
	21:59			21:16	2	06:53 (SAM_WT01)	20:11	33	19:45 (EVE_WT01)	19:03	33	09:15 (SAM_WT06)	17:04	22	08:45 (SAM_WT04)	16:38	37	10:14 (SAM_WT07)
12	05:43			06:26		06:53 (SAM_WT01)	07:14		19:05 (KLZ_WT20)	08:02		08:43 (SAM_WT06)	07:56		08:24 (SAM_WT11)	08:39		09:38 (SAM_WT07)
	21:58			21:14	1	06:54 (SAM_WT01)	20:09	35	19:42 (EVE_WT01)	19:01	29	09:12 (SAM_WT06)	17:03	21	08:45 (SAM_WT04)	16:38	37	10:15 (SAM_WT07)
13	05:44			06:27			07:16		19:04 (KLZ_WT20)	08:04		08:44 (SAM_WT06)	07:57		08:26 (SAM_WT11)	08:40		09:38 (SAM_WT07)
	21:57			21:12			20:06	36	19:40 (EVE_WT01)	18:59	27	09:11 (SAM_WT06)	17:01	25	09:49 (SAM_WT07)	16:38	37	10:15 (SAM_WT07)
14	05:45			06:29		06:59 (SAM_WT03)	07:17		19:02 (KLZ_WT20)	08:06		08:46 (SAM_WT06)	07:59		08:28 (SAM_WT04)	08:41		09:39 (SAM_WT07)
	21:56			21:11	6	07:05 (SAM_WT03)	20:04	35	19:37 (KLZ_WT12)	18:57	23	09:09 (SAM_WT06)	17:00	31	09:53 (SAM_WT07)	16:38	36	10:15 (SAM_WT07)
15	05:46			06:30		06:57 (SAM_WT03)	07:19		19:02 (KLZ_WT20)	08:07		08:49 (SAM_WT06)	08:01		08:30 (SAM_WT04)	08:42		09:40 (SAM_WT07)
	21:55			21:09	9	07:06 (SAM_WT03)	20:02	33	19:35 (KLZ_WT12)	18:55	18	09:07 (SAM_WT06)	16:58	34	09:56 (SAM_WT07)	16:38	36	10:16 (SAM_WT07)
16	05:47			06:32		06:59 (SAM_WT03)	07:21		19:00 (KLZ_WT20)	08:09		08:51 (SAM_WT06)	08:02		08:32 (SAM_WT04)	08:43		09:40 (SAM_WT07)
	21:55			21:07	8	07:07 (SAM_WT03)	19:59	33	19:33 (KLZ_WT12)	18:52	11	09:02 (SAM_WT06)	16:57	36	09:58 (SAM_WT07)	16:38	36	10:16 (SAM_WT07)
17	05:49		20:30 (KLZ_WT05)	06:33		07:00 (SAM_WT03)	07:22		19:00 (KLZ_WT20)	08:11			08:04		08:34 (SAM_WT04)	08:44		09:41 (SAM_WT07)
	21:53	7	20:37 (KLZ_WT05)	21:05	7	07:07 (SAM_WT03)	19:57	30	19:31 (KLZ_WT12)	18:50			16:56	37	10:00 (SAM_WT07)	16:38	36	10:17 (SAM_WT07)
18	05:50		20:28 (KLZ_WT05)	06:35		07:02 (SAM_WT03)	07:24		18:59 (KLZ_WT20)	08:12			08:06		08:35 (SAM_WT04)	08:45		09:41 (SAM_WT07)
	21:52	11	20:39 (KLZ_WT05)	21:03	5	07:07 (SAM_WT03)	19:55	29	19:28 (KLZ_WT20)	18:48			16:55	38	10:01 (SAM_WT07)	16:39	36	10:17 (SAM_WT07)
19	05:51		20:27 (KLZ_WT05)	06:37		07:03 (SAM_WT03)	07:25		18:59 (KLZ_WT20)	08:14			08:07		08:37 (SAM_WT04)	08:45		09:42 (SAM_WT07)
	21:51	13	20:40 (KLZ_WT05)	21:01	3	07:06 (SAM_WT03)	19:53	27	19:26 (KLZ_WT20)	18:46			16:53	37	10:02 (SAM_WT07)	16:39	36	10:18 (SAM_WT07)
20	05:52		20:26 (KLZ_WT05)	06:38			07:27		18:59 (KLZ_WT20)	08:16			08:09		08:39 (SAM_WT04)	08:46		09:43 (SAM_WT07)
	21:50	15	20:41 (KLZ_WT05)	20:59			19:50	25	19:24 (KLZ_WT20)	18:44			16:52	37	10:03 (SAM_WT07)	16:39	35	10:18 (SAM_WT07)
21	05:54		20:26 (KLZ_WT05)	06:40		07:06 (SWB_WT02_RP)	07:28		09:00 (SAM_WT06)	08:17			08:11		08:41 (SAM_WT04)	08:47		09:43 (SAM_WT07)
	21:49	17	20:43 (KLZ_WT05)	20:57	1	07:07 (SWB_WT02_RP)	19:48	29	19:21 (KLZ_WT20)	18:42			16:51	36	10:05 (SAM_WT07)	16:40	35	10:18 (SAM_WT07)
22	05:55		20:24 (KLZ_WT05)	06:41		07:08 (SWB_WT02_RP)	07:30		07:59 (SAM_WT08)	08:19			08:12		08:43 (SAM_WT04)	08:47		09:44 (SAM_WT07)
	21:48	19	20:43 (KLZ_WT05)	20:55	2	07:10 (SWB_WT02_RP)	19:46	45	19:20 (KLZ_WT20)	18:40			16:50	35	10:06 (SAM_WT07)	16:40	35	10:19 (SAM_WT07)
23	05:56		20:23 (KLZ_WT05)	06:43		07:09 (SWB_WT02_RP)	07:32		07:56 (SAM_WT08)	08:21			08:14		09:32 (SAM_WT07)	08:48		09:44 (SAM_WT07)
	21:47	21	20:44 (KLZ_WT05)	20:52	1	07:10 (SWB_WT02_RP)	19:43	52	19:17 (KLZ_WT20)	18:38			16:49	34	10:06 (SAM_WT07)	16:41	35	10:19 (SAM_WT07)
24	05:58		20:22 (KLZ_WT05)	06:44		07:14 (SAM_WT02)	07:33		07:58 (SAM_WT08)	08:23			08:16		09:32 (SAM_WT07)	08:48		09:44 (SAM_WT07)
	21:45	22	20:44 (KLZ_WT05)	20:50	3	07:17 (SAM_WT02)	19:41	51	19:15 (KLZ_WT20)	18:36			16:48	35	10:07 (SAM_WT07)	16:41	35	10:19 (SAM_WT07)
25	05:59		20:23 (KLZ_WT05)	06:46		07:12 (SAM_WT02)	07:35		07:59 (SAM_WT08)	07:24			08:17		09:33 (SAM_WT07)	08:48		09:45 (SAM_WT07)
	21:44	22	20:45 (KLZ_WT05)	20:48	6	07:18 (SAM_WT02)	19:39	51	19:12 (KLZ_WT20)	17:34			16:47	35	10:08 (SAM_WT07)	16:42	36	10:21 (SAM_WT07)
26	06:00		20:22 (KLZ_WT05)	06:48		07:14 (SAM_WT02)	07:36		08:01 (SAM_WT08)	07:26			08:19		09:32 (SAM_WT07)	08:49		09:45 (SAM_WT07)
	21:43	23	20:45 (KLZ_WT05)	20:46	5	07:19 (SAM_WT02)	19:37	47	19:10 (KLZ_WT20)	17:32			16:46	36	10:08 (SAM_WT07)	16:43	36	10:21 (SAM_WT07)
27	06:02		06:30 (SAM_WT09)	06:49		07:15 (SAM_WT02)	07:38		08:03 (SAM_WT08)	07:28			08:20		09:33 (SAM_WT07)	08:49		09:45 (SAM_WT07)
	21:41	29	20:46 (KLZ_WT05)	20:44	4	07:19 (SAM_WT02)	19:34	46	19:08 (KLZ_WT20)	17:30			16:45	36	10:09 (SAM_WT07)	16:43	36	10:21 (SAM_WT07)
28	06:03		06:32 (SAM_WT09)	06:51		07:17 (SAM_WT02)	07:40		08:04 (SAM_WT08)	07:30			08:22		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:40	27	20:46 (KLZ_WT05)	20:42	2	07:19 (SAM_WT02)	19:32	47	19:05 (KLZ_WT13)	17:28			16:44	37	10:10 (SAM_WT07)	16:44	36	10:22 (SAM_WT07)
29	06:05		06:33 (SAM_WT09)	06:52			07:41		08:43 (SAM_WT06)	07:31			08:23		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:38	28	20:46 (KLZ_WT05)	20:40			19:30	45	19:03 (KLZ_WT13)	17:26			16:43	37	10:10 (SAM_WT07)	16:45	36	10:22 (SAM_WT07)
30	06:06		06:34 (SAM_WT09)	06:54			07:43		08:41 (SAM_WT06)	07:33			08:25		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:37	28	20:46 (KLZ_WT05)	20:38			19:28	45	19:00 (KLZ_WT13)	17:25			16:43	37	10:10 (SAM_WT07)	16:46	37	10:23 (SAM_WT07)
31	06:07		06:36 (SAM_WT09)	06:55						07:35		08:27 (SAM_WT11)				08:50		09:47 (SAM_WT07)
	21:35	27	20:47 (KLZ_WT05)	20:35						17:23	8	08:35 (SAM_WT11)				16:47	36	10:23 (SAM_WT07)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		309			271			960			539			894			1126	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,56			0,58			0,60			0,56			0,55			0,56	
Total reduction		0,24			0,26			0,25			0,20			0,14			0,12	
Total, real		76			71			245			106			129			138	

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

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

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January			February			March			April			May			June		
1	08:50		11:31 (KLZ_WT19)	08:24		09:22 (CBR_WT01)	07:32			07:23		07:47 (SAM_WT11)	06:20		20:36 (KLZ_WT13)	05:36		06:27 (SAM_WT06)
	16:48	48	12:19 (KLZ_WT19)	17:35	37	17:05 (KLZ_WT16)	18:25			20:17	20	08:07 (SAM_WT11)	21:06	2	20:38 (KLZ_WT13)	21:50	28	21:13 (EVE_WT01)
2	08:49		11:31 (KLZ_WT19)	08:22		09:22 (CBR_WT01)	07:30			07:21		07:48 (SAM_WT11)	06:18		20:35 (KLZ_WT13)	05:36		06:28 (SAM_WT06)
	16:49	48	12:19 (KLZ_WT19)	17:36	37	17:07 (KLZ_WT16)	18:26			20:19	17	08:05 (SAM_WT11)	21:08	5	20:40 (KLZ_WT13)	21:52	26	21:13 (EVE_WT01)
3	08:49		11:31 (KLZ_WT19)	08:21		09:22 (CBR_WT01)	07:28			07:19		07:47 (SAM_WT07)	06:16		20:34 (KLZ_WT13)	05:35		06:28 (SAM_WT06)
	16:50	48	12:19 (KLZ_WT19)	17:38	35	17:07 (KLZ_WT16)	18:28			20:20	17	08:04 (SAM_WT11)	21:09	7	20:41 (KLZ_WT13)	21:53	20	06:48 (SAM_WT06)
4	08:49		11:32 (KLZ_WT19)	08:19		09:23 (CBR_WT01)	07:26			07:17		07:45 (SAM_WT07)	06:15		20:34 (KLZ_WT13)	05:34		06:29 (SAM_WT06)
	16:51	47	12:19 (KLZ_WT19)	17:40	33	09:56 (CBR_WT01)	18:30			20:22	21	08:06 (SAM_WT07)	21:11	9	20:43 (KLZ_WT13)	21:54	18	06:47 (SAM_WT06)
5	08:49		11:34 (KLZ_WT19)	08:18		09:23 (CBR_WT01)	07:24			07:14		07:43 (SAM_WT07)	06:13		20:34 (KLZ_WT13)	05:33		06:30 (SAM_WT06)
	16:52	45	12:19 (KLZ_WT19)	17:42	32	09:55 (CBR_WT01)	18:32			20:24	24	08:07 (SAM_WT07)	21:13	10	20:44 (KLZ_WT13)	21:55	17	06:47 (SAM_WT06)
6	08:49		11:34 (KLZ_WT19)	08:16		09:24 (CBR_WT01)	07:21			07:12		07:40 (SAM_WT07)	06:11		20:34 (KLZ_WT13)	05:33		06:30 (SAM_WT06)
	16:54	45	12:19 (KLZ_WT19)	17:44	30	09:54 (CBR_WT01)	18:33			20:25	27	08:07 (SAM_WT07)	21:14	11	20:45 (KLZ_WT13)	21:56	16	06:46 (SAM_WT06)
7	08:48		11:35 (KLZ_WT19)	08:14		09:25 (CBR_WT01)	07:19			07:10		07:39 (SAM_WT07)	06:09		20:34 (KLZ_WT13)	05:32		06:31 (SAM_WT06)
	16:55	44	12:19 (KLZ_WT19)	17:45	28	09:53 (CBR_WT01)	18:35			20:27	29	08:08 (SAM_WT07)	21:16	13	20:47 (KLZ_WT13)	21:56	16	06:47 (SAM_WT06)
8	08:48		11:36 (KLZ_WT19)	08:13		09:26 (CBR_WT01)	07:17			07:08		07:38 (SAM_WT07)	06:08		20:34 (KLZ_WT13)	05:32		06:31 (SAM_WT06)
	16:56	43	12:19 (KLZ_WT19)	17:47	27	09:53 (CBR_WT01)	18:37			20:29	31	08:09 (SAM_WT07)	21:17	14	20:48 (KLZ_WT13)	21:57	15	06:46 (SAM_WT06)
9	08:47		11:37 (KLZ_WT19)	08:11		09:28 (CBR_WT01)	07:15			07:05		07:38 (SAM_WT07)	06:06		06:32 (SAM_WT06)	05:31		06:33 (SAM_WT06)
	16:58	42	12:19 (KLZ_WT19)	17:49	23	09:51 (CBR_WT01)	18:39			20:30	31	08:09 (SAM_WT07)	21:19	25	20:49 (KLZ_WT13)	21:58	12	06:45 (SAM_WT06)
10	08:47		11:38 (KLZ_WT19)	08:09		09:29 (CBR_WT01)	07:13			07:03		07:37 (SAM_WT07)	06:04		06:29 (SAM_WT02)	05:31		06:34 (SAM_WT06)
	16:59	41	12:19 (KLZ_WT19)	17:51	20	09:49 (CBR_WT01)	18:40			20:32	32	08:09 (SAM_WT07)	21:21	27	20:48 (KLZ_WT13)	21:59	11	06:45 (SAM_WT06)
11	08:46		09:31 (CBR_WT01)	08:08		09:31 (CBR_WT01)	07:10			07:01		07:37 (SAM_WT07)	06:03		06:29 (SAM_WT06)	05:31		06:35 (SAM_WT06)
	17:00	43	12:18 (KLZ_WT19)	17:53	16	09:47 (CBR_WT01)	18:42			20:33	32	08:09 (SAM_WT07)	21:22	26	20:47 (KLZ_WT13)	22:00	10	06:45 (SAM_WT06)
12	08:46		09:28 (CBR_WT01)	08:06		09:34 (CBR_WT01)	07:08			06:59		07:35 (SAM_WT07)	06:01		06:27 (SAM_WT06)	05:30		06:35 (SAM_WT06)
	17:02	47	12:17 (KLZ_WT19)	17:54	9	09:43 (CBR_WT01)	18:44			20:35	33	08:08 (SAM_WT07)	21:24	26	20:45 (KLZ_WT13)	22:00	9	06:44 (SAM_WT06)
13	08:45		09:27 (CBR_WT01)	08:04			07:06		07:28 (SAM_WT04)	06:57		07:35 (SAM_WT07)	05:59		06:27 (SAM_WT06)	05:30		06:36 (SAM_WT06)
	17:03	50	12:18 (KLZ_WT19)	17:56			18:45	1	07:29 (SAM_WT04)	20:37	33	08:08 (SAM_WT07)	21:25	21	06:48 (SAM_WT06)	22:01	7	06:43 (SAM_WT06)
14	08:44		09:26 (CBR_WT01)	08:02		08:26 (SAM_WT05)	07:04		07:26 (SAM_WT04)	06:55		07:35 (SAM_WT07)	05:58		06:25 (SAM_WT06)	05:30		06:38 (SAM_WT06)
	17:05	51	12:17 (KLZ_WT19)	17:58	4	08:30 (SAM_WT05)	18:47	4	07:30 (SAM_WT04)	20:38	33	08:08 (SAM_WT07)	21:27	23	06:48 (SAM_WT06)	22:01	5	06:43 (SAM_WT06)
15	08:44		09:25 (CBR_WT01)	08:00		08:24 (SAM_WT05)	07:02		07:24 (SAM_WT04)	06:52		07:35 (SAM_WT07)	05:56		06:25 (SAM_WT06)	05:30		06:39 (SAM_WT06)
	17:06	50	12:16 (KLZ_WT19)	18:00	8	08:32 (SAM_WT05)	18:49	7	07:31 (SAM_WT04)	20:40	32	08:07 (SAM_WT07)	21:28	24	06:49 (SAM_WT06)	22:02	3	06:42 (SAM_WT06)
16	08:43		09:24 (CBR_WT01)	07:58		08:22 (SAM_WT05)	06:59		07:22 (SAM_WT04)	06:50		07:13 (SAM_WT08)	05:55		06:25 (SAM_WT06)	05:29		
	17:08	51	12:15 (KLZ_WT19)	18:02	11	08:33 (SAM_WT05)	18:50	10	07:32 (SAM_WT04)	20:42	34	08:07 (SAM_WT07)	21:30	25	06:50 (SAM_WT06)	22:03		
17	08:42		09:23 (CBR_WT01)	07:56		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT04)	06:48		07:11 (SAM_WT08)	05:53		06:24 (SAM_WT06)	05:29		
	17:09	49	12:13 (KLZ_WT19)	18:03	14	08:34 (SAM_WT05)	18:52	12	07:31 (SAM_WT04)	20:43	34	08:06 (SAM_WT07)	21:31	25	06:49 (SAM_WT06)	22:03		
18	08:41		09:23 (CBR_WT01)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT04)	06:46		07:09 (SAM_WT08)	05:52		06:24 (SAM_WT06)	05:29		
	17:11	45	12:11 (KLZ_WT19)	18:05	16	08:34 (SAM_WT05)	18:54	14	07:31 (SAM_WT04)	20:45	34	08:05 (SAM_WT07)	21:33	27	21:03 (EVE_WT01)	22:03		
19	08:40		09:22 (CBR_WT01)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT04)	06:44		07:07 (SAM_WT08)	05:51		06:24 (SAM_WT06)	05:29		
	17:12	42	12:08 (KLZ_WT19)	18:07	19	08:35 (SAM_WT05)	18:55	16	07:31 (SAM_WT04)	20:47	36	20:20 (EVE_WT02)	21:34	28	21:04 (EVE_WT01)	22:04		
20	08:39		09:22 (CBR_WT01)	07:51		08:14 (SAM_WT05)	06:50		07:16 (SAM_WT04)	06:42		07:05 (SAM_WT08)	05:49		06:24 (SAM_WT06)	05:30		
	17:14	29	09:51 (CBR_WT01)	18:09	21	08:35 (SAM_WT05)	18:57	14	07:30 (SAM_WT04)	20:48	35	20:22 (EVE_WT02)	21:35	31	21:06 (EVE_WT01)	22:04		
21	08:38		09:21 (CBR_WT01)	07:49		08:14 (SAM_WT05)	06:48		07:16 (SAM_WT04)	06:40		07:39 (SAM_WT07)	05:48		06:14 (SAM_WT03)	05:30		
	17:16	30	09:51 (CBR_WT01)	18:11	23	17:44 (KLZ_WT15)	18:59	11	07:27 (SAM_WT04)	20:50	28	20:23 (EVE_WT02)	21:37	33	21:06 (EVE_WT01)	22:04		
22	08:37		09:21 (CBR_WT01)	07:47		08:14 (SAM_WT05)	06:46		07:18 (SAM_WT04)	06:38		07:40 (SAM_WT07)	05:47		06:13 (SAM_WT03)	05:30		
	17:17	31	09:52 (CBR_WT01)	18:12	25	17:46 (KLZ_WT15)	19:00	7	07:25 (SAM_WT04)	20:52	27	20:25 (EVE_WT02)	21:38	35	21:07 (EVE_WT01)	22:05		
23	08:36		09:21 (CBR_WT01)	07:45		08:14 (SAM_WT05)	06:44			06:36		07:43 (SAM_WT07)	05:46		06:12 (SAM_WT03)	05:30		
	17:19	32	09:53 (CBR_WT01)	18:14	26	17:48 (KLZ_WT15)	19:02			20:53	22	20:26 (EVE_WT02)	21:39	36	21:09 (EVE_WT01)	22:05		
24	08:35		09:20 (CBR_WT01)	07:43		08:15 (SAM_WT05)	06:41		07:03 (SAM_WT11)	06:34		07:48 (SAM_WT07)	05:44		06:11 (SAM_WT03)	05:30		
	17:21	33	09:53 (CBR_WT01)	18:16	25	17:50 (KLZ_WT15)	19:04	4	07:07 (SAM_WT11)	20:55	13	20:28 (EVE_WT02)	21:41	37	21:10 (EVE_WT01)	22:05		
25	08:34		09:20 (CBR_WT01)	07:40		08:16 (SAM_WT05)	06:39		07:01 (SAM_WT11)	06:32		20:17 (EVE_WT02)	05:43		06:24 (SAM_WT06)	05:31		
	17:22	34	09:54 (CBR_WT01)	18:18	21	17:50 (KLZ_WT15)	19:05	7	07:08 (SAM_WT11)	20:56	12	20:29 (EVE_WT02)	21:42	36	21:11 (EVE_WT01)	22:05		
26	08:32		09:21 (CBR_WT01)	07:38		08:17 (SAM_WT05)	06:37		06:59 (SAM_WT11)	06:30		20:18 (EVE_WT02)	05:42		06:24 (SAM_WT06)	05:31		
	17:24	34	09:55 (CBR_WT01)	18:19	14	08:31 (SAM_WT05)	19:07	10	07:09 (SAM_WT11)	20:58	9	20:27 (EVE_WT02)	21:43	36	21:12 (EVE_WT01)	22:05		
27	08:31		09:20 (CBR_WT01)	07:36		08:20 (SAM_WT05)	06:34		06:57 (SAM_WT11)	06:28		20:21 (EVE_WT02)	05:41		06:25 (SAM_WT06)	05:32		
	17:26	35	09:55 (CBR_WT01)	18:21	8	08:28 (SAM_WT05)	19:09	13	07:10 (SAM_WT11)	21:00	3	20:24 (EVE_WT02)	21:45	36	21:13 (EVE_WT01)	22:05		
28	08:30		09:21 (CBR_WT01)	07:34			06:32		06:54 (SAM_WT11)	06:26			05:40		06:25 (SAM_WT06)	05:32		06:41 (SAM_WT06)
	17:28	35	09:56 (CBR_WT01)	18:23			19:10	15	07:09 (SAM_WT11)	21:01			21:46	36	21:14 (EVE_WT01)	22:05	4	06:45 (SAM_WT06)
29	08:28		09:20 (CBR_WT01)				07:30		07:52 (SAM_WT11)	06:24			05:39		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:29	35	09:55 (CBR_WT01)				20:12	17	08:09 (SAM_WT11)	21:03			21:47	36	21:16 (EVE_WT01)	22:05	6	06:46 (SAM_WT06)
30	08:27		09:21 (CBR_WT01)				07:28		07:50 (SAM_WT11)	06:22			05:38		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:31	35	09:56 (CBR_WT01)				20:14	19	08:09 (SAM_WT11)	21:05			21:48	35	21:15 (EVE_WT01)	22:04	8	06:48 (SAM_WT06)
31	08:25		09:21 (CBR_WT01)				07:25		07:48 (SAM_WT11)				05:37		06:27 (SAM_WT06)			
	17:33	37	17:03 (KLZ_WT16)				20:15	20	08:08 (SAM_WT11)				21:49	31	21:14 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1279			562			201			699			766			231	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,58			0,55			0,61			0,62			0,65			0,68	
Total reduction		0,14			0,16			0,23			0,28			0,29			0,29	
Total, real		180			90			45			197			222			68	

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July			August			September			October			November			December		
1	05:34		06:39 (SAM_WT06)	06:09		06:38 (SAM_WT06)	06:57		07:36 (SAM_WT07)	07:44			07:36		08:58 (CBR_WT01)	08:26		09:13 (CBR_WT01)
	22:04	10	06:49 (SAM_WT06)	21:34	26	20:56 (KLZ_WT13)	20:33	32	08:08 (SAM_WT07)	19:25			17:21	22	09:20 (CBR_WT01)	16:42	43	12:00 (KLZ_WT19)
2	05:34		06:38 (SAM_WT06)	06:10		06:40 (SAM_WT06)	06:59		07:35 (SAM_WT07)	07:46			07:38		08:57 (CBR_WT01)	08:27		11:21 (KLZ_WT19)
	22:04	11	06:49 (SAM_WT06)	21:32	26	20:58 (KLZ_WT13)	20:31	32	08:07 (SAM_WT07)	19:23			17:19	24	09:21 (CBR_WT01)	16:41	41	12:02 (KLZ_WT19)
3	05:35		06:38 (SAM_WT06)	06:12		06:40 (SAM_WT02)	07:00		07:36 (SAM_WT07)	07:48			07:40		08:55 (CBR_WT01)	08:29		11:20 (KLZ_WT19)
	22:04	12	06:50 (SAM_WT06)	21:30	27	20:59 (KLZ_WT13)	20:29	31	08:07 (SAM_WT07)	19:21			17:17	27	09:22 (CBR_WT01)	16:41	42	12:02 (KLZ_WT19)
4	05:36		06:38 (SAM_WT06)	06:13		06:43 (SAM_WT06)	07:02		07:35 (SAM_WT07)	07:49			07:42		08:54 (CBR_WT01)	08:30		11:21 (KLZ_WT19)
	22:03	14	06:52 (SAM_WT06)	21:29	22	20:59 (KLZ_WT13)	20:27	31	08:06 (SAM_WT07)	19:19			17:16	29	09:23 (CBR_WT01)	16:40	43	12:04 (KLZ_WT19)
5	05:37		06:37 (SAM_WT06)	06:15		20:45 (KLZ_WT13)	07:03		07:36 (SAM_WT07)	07:51			07:43		08:54 (CBR_WT01)	08:31		11:20 (KLZ_WT19)
	22:03	15	06:52 (SAM_WT06)	21:27	13	20:58 (KLZ_WT13)	20:24	29	08:05 (SAM_WT07)	19:16			17:14	30	09:24 (CBR_WT01)	16:40	44	12:04 (KLZ_WT19)
6	05:37		06:37 (SAM_WT06)	06:17		20:44 (KLZ_WT13)	07:05		07:37 (SAM_WT07)	07:53			07:45		08:53 (CBR_WT01)	08:33		11:20 (KLZ_WT19)
	22:02	16	06:53 (SAM_WT06)	21:25	12	20:56 (KLZ_WT13)	20:22	26	08:03 (SAM_WT07)	19:14			17:12	32	09:25 (CBR_WT01)	16:39	45	12:05 (KLZ_WT19)
7	05:38		06:36 (SAM_WT06)	06:18		20:44 (KLZ_WT13)	07:06		07:38 (SAM_WT07)	07:54			07:47		08:53 (CBR_WT01)	08:34		11:21 (KLZ_WT19)
	22:02	17	06:53 (SAM_WT06)	21:23	11	20:55 (KLZ_WT13)	20:20	24	08:02 (SAM_WT07)	19:12			17:11	33	09:26 (CBR_WT01)	16:39	46	12:07 (KLZ_WT19)
8	05:39		06:36 (SAM_WT06)	06:20		20:43 (KLZ_WT13)	07:08		07:39 (SAM_WT07)	07:56			07:49		08:53 (CBR_WT01)	08:35		11:21 (KLZ_WT19)
	22:01	18	06:54 (SAM_WT06)	21:22	10	20:53 (KLZ_WT13)	20:18	21	08:00 (SAM_WT07)	19:10			17:09	36	16:39 (KLZ_WT16)	16:39	46	12:07 (KLZ_WT19)
9	05:40		06:36 (SAM_WT06)	06:21		20:43 (KLZ_WT13)	07:10		07:41 (SAM_WT07)	07:57			07:50		08:52 (CBR_WT01)	08:36		11:21 (KLZ_WT19)
	22:00	19	06:55 (SAM_WT06)	21:20	8	20:51 (KLZ_WT13)	20:15	17	07:58 (SAM_WT07)	19:08			17:07	39	16:38 (KLZ_WT16)	16:38	47	12:08 (KLZ_WT19)
10	05:41		06:36 (SAM_WT06)	06:23		20:44 (KLZ_WT13)	07:11		07:41 (SAM_WT11)	07:59			07:52		08:52 (CBR_WT01)	08:37		11:21 (KLZ_WT19)
	22:00	24	21:20 (EVE_WT01)	21:18	6	20:50 (KLZ_WT13)	20:13	18	07:59 (SAM_WT11)	19:05			17:06	38	16:36 (KLZ_WT16)	16:38	47	12:08 (KLZ_WT19)
11	05:42		06:36 (SAM_WT06)	06:24		20:44 (KLZ_WT13)	07:13		07:40 (SAM_WT11)	08:01			07:54		08:53 (CBR_WT01)	08:38		11:21 (KLZ_WT19)
	21:59	27	21:21 (EVE_WT01)	21:16	4	20:48 (KLZ_WT13)	20:11	20	08:00 (SAM_WT11)	19:03			17:04	37	16:35 (KLZ_WT16)	16:38	48	12:09 (KLZ_WT19)
12	05:43		06:35 (SAM_WT06)	06:26		20:45 (KLZ_WT13)	07:14		07:39 (SAM_WT11)	08:02			07:56		08:52 (CBR_WT01)	08:39		11:21 (KLZ_WT19)
	21:58	30	21:22 (EVE_WT01)	21:14	1	20:46 (KLZ_WT13)	20:09	20	07:59 (SAM_WT11)	19:01			17:03	35	09:27 (CBR_WT01)	16:38	48	12:09 (KLZ_WT19)
13	05:44		06:35 (SAM_WT06)	06:27			07:16		07:41 (SAM_WT11)	08:04			07:57		08:52 (CBR_WT01)	08:40		11:21 (KLZ_WT19)
	21:57	33	21:23 (EVE_WT01)	21:12			20:06	19	08:00 (SAM_WT11)	18:59			17:01	35	09:27 (CBR_WT01)	16:38	49	12:10 (KLZ_WT19)
14	05:45		06:35 (SAM_WT06)	06:29			07:17		07:42 (SAM_WT11)	08:06		08:55 (SAM_WT05)	07:59		08:53 (CBR_WT01)	08:41		11:21 (KLZ_WT19)
	21:56	34	21:24 (EVE_WT01)	21:11			20:04	17	07:59 (SAM_WT11)	18:57	2	08:57 (SAM_WT05)	17:00	35	09:28 (CBR_WT01)	16:38	50	12:11 (KLZ_WT19)
15	05:46		06:35 (SAM_WT06)	06:30			07:19		07:44 (SAM_WT11)	08:07		08:51 (SAM_WT05)	08:01		08:53 (CBR_WT01)	08:42		11:22 (KLZ_WT19)
	21:55	36	21:24 (EVE_WT01)	21:09			20:02	15	07:59 (SAM_WT11)	18:55	11	09:02 (SAM_WT05)	16:59	35	09:28 (CBR_WT01)	16:38	50	12:12 (KLZ_WT19)
16	05:48		06:34 (SAM_WT06)	06:32		20:27 (EVE_WT02)	07:21		07:45 (SAM_WT11)	08:09		08:48 (SAM_WT05)	08:02		08:54 (CBR_WT01)	08:43		11:22 (KLZ_WT19)
	21:54	36	21:23 (EVE_WT01)	21:07	5	20:32 (EVE_WT02)	19:59	13	07:58 (SAM_WT11)	18:52	15	09:03 (SAM_WT05)	16:57	34	09:28 (CBR_WT01)	16:38	50	12:12 (KLZ_WT19)
17	05:49		06:34 (SAM_WT06)	06:33		20:24 (EVE_WT02)	07:22		07:47 (SAM_WT11)	08:11		08:47 (SAM_WT05)	08:04		08:54 (CBR_WT01)	08:44		11:23 (KLZ_WT19)
	21:53	36	21:22 (EVE_WT01)	21:05	10	20:34 (EVE_WT02)	19:57	11	07:58 (SAM_WT11)	18:50	24	18:22 (KLZ_WT15)	16:56	34	09:28 (CBR_WT01)	16:38	50	12:13 (KLZ_WT19)
18	05:50		06:34 (SAM_WT06)	06:35		20:23 (EVE_WT02)	07:24		07:48 (SAM_WT11)	08:12		08:46 (SAM_WT05)	08:06		08:54 (CBR_WT01)	08:45		11:23 (KLZ_WT19)
	21:52	36	21:21 (EVE_WT01)	21:03	12	20:35 (EVE_WT02)	19:55	8	07:56 (SAM_WT11)	18:48	25	18:20 (KLZ_WT15)	16:55	33	09:27 (CBR_WT01)	16:39	50	12:13 (KLZ_WT19)
19	05:51		06:20 (SAM_WT03)	06:37		07:52 (SAM_WT07)	07:25		07:50 (SAM_WT11)	08:14		08:45 (SAM_WT05)	08:07		08:55 (CBR_WT01)	08:45		11:23 (KLZ_WT19)
	21:51	37	21:20 (EVE_WT01)	21:01	16	20:33 (EVE_WT02)	19:53	5	07:55 (SAM_WT11)	18:46	26	18:18 (KLZ_WT15)	16:53	32	09:27 (CBR_WT01)	16:39	51	12:14 (KLZ_WT19)
20	05:52		06:21 (SAM_WT03)	06:38		07:48 (SAM_WT07)	07:27		07:52 (SAM_WT11)	08:16		08:45 (SAM_WT05)	08:09		08:56 (CBR_WT01)	08:46		11:24 (KLZ_WT19)
	21:50	38	21:19 (EVE_WT01)	20:59	24	20:32 (EVE_WT02)	19:50	1	07:53 (SAM_WT11)	18:44	25	18:17 (KLZ_WT15)	16:52	31	09:27 (CBR_WT01)	16:39	51	12:15 (KLZ_WT19)
21	05:54		06:23 (SAM_WT03)	06:40		07:45 (SAM_WT07)	07:28		08:05 (SAM_WT04)	08:17		08:44 (SAM_WT05)	08:11		08:57 (CBR_WT01)	08:47		11:24 (KLZ_WT19)
	21:49	37	21:19 (EVE_WT01)	20:57	26	20:29 (EVE_WT02)	19:48	5	08:10 (SAM_WT04)	18:42	23	18:14 (KLZ_WT15)	16:51	30	09:27 (CBR_WT01)	16:40	51	12:15 (KLZ_WT19)
22	05:55		06:24 (SAM_WT03)	06:41		07:43 (SAM_WT07)	07:30		08:02 (SAM_WT04)	08:19		08:45 (SAM_WT05)	08:12		08:58 (CBR_WT01)	08:47		11:25 (KLZ_WT19)
	21:48	35	21:17 (EVE_WT01)	20:55	29	20:28 (EVE_WT02)	19:46	10	08:12 (SAM_WT04)	18:40	20	09:05 (SAM_WT05)	16:50	29	09:27 (CBR_WT01)	16:40	51	12:16 (KLZ_WT19)
23	05:56		06:25 (SAM_WT03)	06:43		07:09 (SAM_WT08)	07:32		08:00 (SAM_WT04)	08:21		08:47 (SAM_WT05)	08:14		08:58 (CBR_WT01)	08:48		11:25 (KLZ_WT19)
	21:47	32	21:16 (EVE_WT01)	20:52	36	20:25 (EVE_WT02)	19:44	13	08:13 (SAM_WT04)	18:38	18	09:05 (SAM_WT05)	16:49	42	11:44 (KLZ_WT19)	16:41	51	12:16 (KLZ_WT19)
24	05:58		06:34 (SAM_WT06)	06:44		07:11 (SAM_WT08)	07:33		07:59 (SAM_WT04)	08:23		08:49 (SAM_WT05)	08:16		09:00 (CBR_WT01)	08:48		11:25 (KLZ_WT19)
	21:45	29	21:14 (EVE_WT01)	20:50	35	20:24 (EVE_WT02)	19:41	15	08:14 (SAM_WT04)	18:36	16	09:05 (SAM_WT05)	16:48	46	11:48 (KLZ_WT19)	16:41	51	12:16 (KLZ_WT19)
25	05:59		06:34 (SAM_WT06)	06:46		07:12 (SAM_WT08)	07:35		07:59 (SAM_WT04)	07:24		07:51 (SAM_WT05)	08:17		09:01 (CBR_WT01)	08:48		11:27 (KLZ_WT19)
	21:44	29	21:14 (EVE_WT01)	20:48	34	08:08 (SAM_WT07)	19:39	15	08:14 (SAM_WT04)	17:34	13	08:04 (SAM_WT05)	16:47	49	11:51 (KLZ_WT19)	16:42	50	12:17 (KLZ_WT19)
26	06:00		06:34 (SAM_WT06)	06:48		07:14 (SAM_WT08)	07:36		08:01 (SAM_WT04)	07:26		07:52 (SAM_WT05)	08:19		09:02 (CBR_WT01)	08:49		11:27 (KLZ_WT19)
	21:43	26	07:00 (SAM_WT06)	20:46	34	08:09 (SAM_WT07)	19:37	13	08:14 (SAM_WT04)	17:32	10	08:02 (SAM_WT05)	16:46	51	11:53 (KLZ_WT19)	16:43	50	12:17 (KLZ_WT19)
27	06:02		06:34 (SAM_WT06)	06:49		07:15 (SAM_WT08)	07:38		08:03 (SAM_WT04)	07:28		07:54 (SAM_WT05)	08:20		09:04 (CBR_WT01)	08:49		11:27 (KLZ_WT19)
	21:41	26	07:00 (SAM_WT06)	20:44	34	08:09 (SAM_WT07)	19:34	11	08:14 (SAM_WT04)	17:30	7	08:01 (SAM_WT05)	16:45	51	11:55 (KLZ_WT19)	16:43	50	12:17 (KLZ_WT19)
28	06:03		06:36 (SAM_WT06)	06:51		07:37 (SAM_WT07)	07:40		08:04 (SAM_WT04)	07:30		07:56 (SAM_WT05)	08:22		09:06 (CBR_WT01)	08:49		11:28 (KLZ_WT19)
	21:40	24	07:00 (SAM_WT06)	20:42	32	08:09 (SAM_WT07)	19:32	8	08:12 (SAM_WT04)	17:28	3	07:59 (SAM_WT05)	16:44	51	11:57 (KLZ_WT19)	16:44	49	12:17 (KLZ_WT19)
29	06:05		06:36 (SAM_WT06)	06:52		07:36 (SAM_WT07)	07:41		08:06 (SAM_WT04)	07:31			08:23		09:07 (CBR_WT01)	08:49		11:28 (KLZ_WT19)
	21:38	23	06:59 (SAM_WT06)	20:40	33	08:09 (SAM_WT07)	19:30	6	08:12 (SAM_WT04)	17:26			16:43	50	11:58 (KLZ_WT19)	16:45	50	12:18 (KLZ_WT19)
30	06:06		06:36 (SAM_WT06)	06:54		07:36 (SAM_WT07)	07:43		08:07 (SAM_WT04)	07:33		09:03 (CBR_WT01)	08:25		09:10 (CBR_WT01)	08:49		11:29 (KLZ_WT19)
	21:37	22	06:58 (SAM_WT06)	20:38	33	08:09 (SAM_WT07)	19:28	2	08:09 (SAM_WT04)	17:25	11	09:14 (CBR_WT01)	16:43	47	11:59 (KLZ_WT19)	16:46	49	12:18 (KLZ_WT19)
31	06:08		06:37 (SAM_WT06)	06:55		07:35 (SAM_WT07)				07:35		09:00 (CBR_WT01)				08:50		11:30 (KLZ_WT19)
	21:35	21	06:58 (SAM_WT06)	20:35	33	08:08 (SAM_WT07)				17:23	17	09:17 (CBR_WT01)				16:47	48	12:18 (KLZ_WT19)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		803			592			488			266			1097			1491	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,67			0,61			0,62			0,56			0,55			0,62	
Total reduction		0,29			0,28			0,26			0,20			0,14			0,14	
Total, real		235			165			128			53			158			204	

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January			February			March			April			May			June		
1	08:50		13:56 (KLZ_WT19)	08:24		09:44 (CBR_WT01)	07:32		09:13 (CBR_WT01)	07:23		07:45 (SAM_WT04)	06:20		06:56 (SAM_WT11)	05:36		06:04 (SAM_WT02)
	16:48	81	15:53 (KLZ_WT10)	17:35	100	17:06 (KLZ_WT08)	18:25	116	15:06 (KLZ_WT19)	20:17	8	07:53 (SAM_WT04)	21:06	23	20:38 (EVE_WT02)	21:50	17	21:19 (EVE_WT01)
2	08:49		13:56 (KLZ_WT19)	08:22		09:36 (CBR_WT01)	07:30		09:13 (CBR_WT01)	07:21		07:43 (SAM_WT04)	06:18		06:42 (SAM_WT08)	05:36		06:04 (SAM_WT02)
	16:49	82	15:54 (KLZ_WT10)	17:36	117	17:07 (KLZ_WT08)	18:26	112	15:04 (KLZ_WT19)	20:19	12	07:55 (SAM_WT04)	21:08	26	20:40 (EVE_WT02)	21:52	21	21:20 (EVE_WT01)
3	08:49		13:55 (KLZ_WT19)	08:21		09:33 (CBR_WT01)	07:28		07:52 (SAM_WT05)	07:19		07:41 (SAM_WT04)	06:16		06:40 (SAM_WT08)	05:35		06:03 (SAM_WT02)
	16:50	84	15:54 (KLZ_WT10)	17:38	124	17:08 (KLZ_WT08)	18:28	115	15:02 (KLZ_WT19)	20:20	14	07:55 (SAM_WT04)	21:09	26	20:41 (EVE_WT02)	21:53	25	21:21 (EVE_WT01)
4	08:49		13:55 (KLZ_WT19)	08:19		09:31 (CBR_WT01)	07:26		07:50 (SAM_WT05)	07:16		07:39 (SAM_WT04)	06:15		06:39 (SAM_WT08)	05:34		06:19 (SAM_WT07)
	16:51	85	15:55 (KLZ_WT10)	17:40	131	17:09 (KLZ_WT08)	18:30	112	14:59 (KLZ_WT19)	20:22	17	07:56 (SAM_WT04)	21:11	25	20:43 (EVE_WT02)	21:54	25	21:21 (EVE_WT01)
5	08:49		13:56 (KLZ_WT19)	08:18		09:29 (CBR_WT01)	07:24		07:47 (SAM_WT05)	07:14		07:37 (SAM_WT04)	06:13		06:37 (SAM_WT08)	05:33		06:19 (SAM_WT07)
	16:52	87	15:56 (KLZ_WT10)	17:42	134	17:08 (KLZ_WT08)	18:32	106	14:55 (KLZ_WT19)	20:24	19	07:56 (SAM_WT04)	21:13	21	20:44 (EVE_WT02)	21:55	27	21:23 (EVE_WT01)
6	08:49		13:55 (KLZ_WT19)	08:16		09:26 (CBR_WT01)	07:21		07:45 (SAM_WT05)	07:12		07:35 (SAM_WT04)	06:11		06:35 (SAM_WT08)	05:33		06:17 (SAM_WT07)
	16:54	88	15:56 (KLZ_WT10)	17:44	137	17:07 (KLZ_WT08)	18:33	97	14:50 (KLZ_WT19)	20:25	20	07:55 (SAM_WT04)	21:14	13	20:44 (EVE_WT02)	21:55	30	21:23 (EVE_WT01)
7	08:48		13:55 (KLZ_WT19)	08:14		09:25 (CBR_WT01)	07:19		07:44 (SAM_WT05)	07:10		07:35 (SAM_WT04)	06:09		06:34 (SAM_WT08)	05:32		06:17 (SAM_WT07)
	16:55	89	15:57 (KLZ_WT10)	17:45	137	17:06 (KLZ_WT08)	18:35	75	10:06 (CBR_WT01)	20:27	20	07:55 (SAM_WT04)	21:16	8	06:42 (SAM_WT08)	21:56	31	21:24 (EVE_WT01)
8	08:48		13:55 (KLZ_WT19)	08:13		09:24 (CBR_WT01)	07:17		07:43 (SAM_WT05)	07:08		07:35 (SAM_WT04)	06:08		06:32 (SAM_WT08)	05:32		06:16 (SAM_WT07)
	16:56	90	15:57 (KLZ_WT10)	17:47	133	17:04 (KLZ_WT08)	18:37	74	10:04 (CBR_WT01)	20:28	19	07:54 (SAM_WT04)	21:17	9	06:41 (SAM_WT08)	21:57	33	21:25 (EVE_WT01)
9	08:47		13:55 (KLZ_WT19)	08:11		09:22 (CBR_WT01)	07:15		07:41 (SAM_WT05)	07:05		07:35 (SAM_WT04)	06:06		06:31 (SAM_WT08)	05:31		06:16 (SAM_WT07)
	16:58	92	15:58 (KLZ_WT10)	17:49	135	15:20 (KLZ_WT19)	18:39	71	10:01 (CBR_WT01)	20:30	18	07:53 (SAM_WT04)	21:19	10	06:41 (SAM_WT08)	21:58	34	21:26 (EVE_WT01)
10	08:47		13:55 (KLZ_WT19)	08:09		09:21 (CBR_WT01)	07:13		07:41 (SAM_WT05)	07:03		07:36 (SAM_WT04)	06:04		06:29 (SWB_WT01_RP)	05:31		06:16 (SAM_WT07)
	16:59	92	15:58 (KLZ_WT10)	17:51	137	15:20 (KLZ_WT19)	18:40	69	09:59 (CBR_WT01)	20:32	16	07:52 (SAM_WT04)	21:20	6	06:38 (SAM_WT08)	21:59	35	21:27 (EVE_WT01)
11	08:46		13:54 (KLZ_WT19)	08:08		09:20 (CBR_WT01)	07:10		07:41 (SAM_WT05)	07:01		07:37 (SAM_WT04)	06:03		06:28 (SWB_WT01_RP)	05:31		06:16 (SAM_WT07)
	17:00	94	15:58 (KLZ_WT10)	17:53	138	15:20 (KLZ_WT19)	18:42	67	18:17 (KLZ_WT15)	20:33	12	07:49 (SAM_WT04)	21:22	1	06:29 (SWB_WT01_RP)	22:00	36	21:28 (EVE_WT01)
12	08:46		13:54 (KLZ_WT19)	08:06		09:19 (CBR_WT01)	07:08		07:41 (SAM_WT05)	06:59		07:39 (SAM_WT04)	06:01			05:30		06:16 (SAM_WT07)
	17:02	96	15:59 (KLZ_WT10)	17:54	140	15:20 (KLZ_WT19)	18:44	64	18:19 (KLZ_WT15)	20:35	7	07:46 (SAM_WT04)	21:24			22:00	36	21:27 (EVE_WT01)
13	08:45		13:54 (KLZ_WT19)	08:04		09:18 (CBR_WT01)	07:06		07:40 (SAM_WT05)	06:57			05:59			05:30		06:16 (SAM_WT07)
	17:03	97	16:00 (KLZ_WT10)	17:56	142	15:20 (KLZ_WT19)	18:45	59	18:20 (KLZ_WT15)	20:37			21:25			22:01	36	21:27 (EVE_WT01)
14	08:44		13:54 (KLZ_WT19)	08:02		09:17 (CBR_WT01)	07:04		07:40 (SAM_WT05)	06:55			05:58		20:56 (KLZ_WT13)	05:30		06:16 (SAM_WT07)
	17:05	98	16:32 (NES_WT01)	17:58	143	15:19 (KLZ_WT19)	18:47	47	18:21 (KLZ_WT15)	20:38			21:27	1	20:57 (KLZ_WT13)	22:01	35	21:27 (EVE_WT01)
15	08:44		13:54 (KLZ_WT19)	08:00		09:16 (CBR_WT01)	07:02		07:41 (SAM_WT05)	06:52			05:56		20:56 (KLZ_WT13)	05:30		06:16 (SAM_WT07)
	17:06	100	16:34 (NES_WT01)	18:00	143	15:19 (KLZ_WT19)	18:49	27	08:08 (SAM_WT05)	20:40			21:28	3	20:59 (KLZ_WT13)	22:02	34	21:26 (EVE_WT01)
16	08:43		13:54 (KLZ_WT19)	07:58		09:16 (CBR_WT01)	06:59		07:41 (SAM_WT05)	06:50		07:13 (SAM_WT11)	05:55		20:56 (KLZ_WT13)	05:29		06:16 (SAM_WT07)
	17:08	101	16:36 (NES_WT01)	18:02	144	15:19 (KLZ_WT19)	18:50	26	08:07 (SAM_WT05)	20:42	3	07:16 (SAM_WT11)	21:30	4	21:00 (KLZ_WT13)	22:03	33	21:26 (EVE_WT01)
17	08:42		13:53 (KLZ_WT19)	07:56		09:15 (CBR_WT01)	06:57		07:41 (SAM_WT05)	06:48		07:11 (SAM_WT11)	05:53		20:56 (KLZ_WT13)	05:29		06:16 (SAM_WT07)
	17:09	103	16:37 (NES_WT01)	18:03	143	15:18 (KLZ_WT19)	18:52	24	08:05 (SAM_WT05)	20:43	7	07:18 (SAM_WT11)	21:31	5	21:01 (KLZ_WT13)	22:03	32	06:48 (SAM_WT07)
18	08:41		13:53 (KLZ_WT19)	07:55		09:15 (CBR_WT01)	06:55		07:43 (SAM_WT05)	06:46		07:09 (SAM_WT11)	05:52		20:56 (KLZ_WT13)	05:29		06:16 (SAM_WT07)
	17:11	100	16:00 (KLZ_WT10)	18:05	144	15:18 (KLZ_WT19)	18:54	20	08:03 (SAM_WT05)	20:45	10	07:19 (SAM_WT11)	21:32	6	21:02 (KLZ_WT13)	22:03	32	06:48 (SAM_WT07)
19	08:40		13:53 (KLZ_WT19)	07:53		09:14 (CBR_WT01)	06:53		07:44 (SAM_WT05)	06:44		07:07 (SAM_WT11)	05:51		20:57 (KLZ_WT13)	05:29		06:16 (SAM_WT07)
	17:12	100	16:00 (KLZ_WT10)	18:07	143	15:17 (KLZ_WT19)	18:55	17	08:01 (SAM_WT05)	20:47	13	07:20 (SAM_WT11)	21:34	7	21:04 (KLZ_WT13)	22:04	32	06:48 (SAM_WT07)
20	08:39		13:52 (KLZ_WT19)	07:51		09:14 (CBR_WT01)	06:50		07:47 (SAM_WT05)	06:42		07:05 (SAM_WT11)	05:49		20:58 (KLZ_WT13)	05:30		06:16 (SAM_WT07)
	17:14	100	15:59 (KLZ_WT10)	18:09	144	17:42 (KLZ_WT16)	18:57	11	07:58 (SAM_WT05)	20:48	16	07:21 (SAM_WT11)	21:35	8	21:06 (KLZ_WT13)	22:04	32	06:48 (SAM_WT07)
21	08:38		13:52 (KLZ_WT19)	07:49		09:13 (CBR_WT01)	06:48			06:40		07:03 (SAM_WT11)	05:48		20:58 (KLZ_WT13)	05:30		06:16 (SAM_WT07)
	17:16	100	15:59 (KLZ_WT10)	18:11	143	17:44 (KLZ_WT16)	18:59			20:50	18	07:21 (SAM_WT11)	21:37	8	21:06 (KLZ_WT13)	22:04	32	06:48 (SAM_WT07)
22	08:37		13:52 (KLZ_WT19)	07:47		09:13 (CBR_WT01)	06:46			06:38		07:01 (SAM_WT11)	05:47		20:59 (KLZ_WT13)	05:30		06:17 (SAM_WT07)
	17:17	99	15:59 (KLZ_WT10)	18:12	139	15:15 (KLZ_WT19)	19:00			20:52	21	07:22 (SAM_WT11)	21:38	7	21:06 (KLZ_WT13)	22:05	32	06:49 (SAM_WT07)
23	08:36		13:52 (KLZ_WT19)	07:45		09:13 (CBR_WT01)	06:43			06:36		06:59 (SAM_WT11)	05:46		21:01 (KLZ_WT13)	05:30		06:17 (SAM_WT07)
	17:19	99	15:59 (KLZ_WT10)	18:14	137	15:14 (KLZ_WT19)	19:02			20:53	23	07:22 (SAM_WT11)	21:39	3	21:04 (KLZ_WT13)	22:05	32	06:49 (SAM_WT07)
24	08:35		13:51 (KLZ_WT19)	07:43		09:13 (CBR_WT01)	06:41			06:34		06:57 (SAM_WT11)	05:44			05:30		06:17 (SAM_WT07)
	17:21	96	15:57 (KLZ_WT10)	18:16	136	15:14 (KLZ_WT19)	19:04			20:55	25	07:22 (SAM_WT11)	21:41			22:05	32	06:49 (SAM_WT07)
25	08:33		13:52 (KLZ_WT19)	07:40		09:13 (CBR_WT01)	06:39			06:32		06:55 (SAM_WT11)	05:43			05:31		06:18 (SAM_WT07)
	17:22	92	15:56 (KLZ_WT10)	18:18	133	15:13 (KLZ_WT19)	19:05			20:56	26	07:21 (SAM_WT11)	21:42			22:05	32	06:50 (SAM_WT07)
26	08:32		13:52 (KLZ_WT19)	07:38		09:13 (CBR_WT01)	06:37			06:30		06:54 (SAM_WT11)	05:42			05:31		06:18 (SAM_WT07)
	17:24	84	15:52 (KLZ_WT10)	18:19	130	15:11 (KLZ_WT19)	19:07			20:58	27	07:21 (SAM_WT11)	21:43			22:05	33	21:28 (EVE_WT01)
27	08:31		13:51 (KLZ_WT19)	07:36		09:12 (CBR_WT01)	06:34			06:28		06:54 (SAM_WT11)	05:41			05:32		06:18 (SAM_WT07)
	17:26	84	15:15 (KLZ_WT19)	18:21	126	15:09 (KLZ_WT19)	19:09			21:00	26	07:20 (SAM_WT11)	21:45			22:05	34	21:28 (EVE_WT01)
28	08:30		13:51 (KLZ_WT19)	07:34		09:13 (CBR_WT01)	06:32			06:26		06:54 (SAM_WT11)	05:40			05:32		06:19 (SAM_WT07)
	17:28	85	15:16 (KLZ_WT19)	18:23	122	15:08 (KLZ_WT19)	19:10			21:01	26	07:20 (SAM_WT11)	21:46			22:05	35	21:30 (EVE_WT01)
29	08:28		13:51 (KLZ_WT19)				07:30			06:24		06:55 (SAM_WT11)	05:39		06:07 (SAM_WT02)	05:33		06:19 (SAM_WT07)
	17:29	86	16:59 (KLZ_WT08)				20:12			21:03	25	07:20 (SAM_WT11)	21:47	1	06:08 (SAM_WT02)	22:05	35	21:30 (EVE_WT01)
30	08:27		13:51 (KLZ_WT19)				07:28			06:22		06:55 (SAM_WT11)	05:38		06:06 (SAM_WT02)	05:33		06:20 (SAM_WT07)
	17:31	91	17:01 (KLZ_WT08)				20:14			21:05	25	20:37 (EVE_WT02)	21:48	2	21:17 (EVE_WT01)	22:04	35	21:31 (EVE_WT01)
31	08:25		13:51 (KLZ_WT19)				07:25		07:48 (SAM_WT04)				05:37		06:05 (SAM_WT02)			
	17:33	94	17:03 (KLZ_WT08)				20:15	4	07:52 (SAM_WT04)				21:49	10	21:18 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2869			3775			1313			473			233			948	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,72			0,65			0,58			0,64			0,62			0,69	
Total reduction		0,17			0,19			0,22			0,29			0,28			0,30	
Total, real		501			724			283			137			65			281	

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July			August			September			October			November			December		
1	05:34		06:21 (SAM_WT07)	06:09			06:57			07:37 (SAM_WT04)	07:44		08:20 (SAM_WT05)	07:36		08:51 (CBR_WT01)	08:26		13:36 (KLZ_WT19)
	22:04	36	21:32 (EVE_WT01)	21:34			20:33	12		07:49 (SAM_WT04)	19:25	62	18:58 (KLZ_WT15)	17:21	137	14:50 (KLZ_WT19)	16:42	94	15:40 (KLZ_WT10)
2	05:34		06:20 (SAM_WT07)	06:10		06:39 (SWB_WT01_RP)	06:59			07:34 (SAM_WT04)	07:46		08:20 (SAM_WT05)	07:38		08:52 (CBR_WT01)	08:27		13:38 (KLZ_WT19)
	22:04	36	21:31 (EVE_WT01)	21:32	1	06:40 (SWB_WT01_RP)	20:31	16		07:50 (SAM_WT04)	19:23	65	18:56 (KLZ_WT15)	17:19	135	14:50 (KLZ_WT19)	16:41	92	15:41 (KLZ_WT10)
3	05:35		06:21 (SAM_WT07)	06:12		06:40 (SWB_WT01_RP)	07:00			07:33 (SAM_WT04)	07:48		08:19 (SAM_WT05)	07:40		08:53 (CBR_WT01)	08:29		13:38 (KLZ_WT19)
	22:03	35	21:31 (EVE_WT01)	21:30	9	06:50 (SAM_WT08)	20:29	18		07:51 (SAM_WT04)	19:21	68	18:54 (KLZ_WT15)	17:17	136	16:34 (KLZ_WT08)	16:41	92	15:41 (KLZ_WT10)
4	05:36		06:22 (SAM_WT07)	06:13		06:41 (SAM_WT08)	07:02			07:32 (SAM_WT04)	07:49		08:19 (SAM_WT05)	07:42		08:55 (CBR_WT01)	08:30		13:40 (KLZ_WT19)
	22:03	34	21:31 (EVE_WT01)	21:29	9	06:50 (SAM_WT08)	20:27	19		07:51 (SAM_WT04)	19:19	70	10:38 (CBR_WT01)	17:16	136	16:36 (KLZ_WT08)	16:40	90	15:42 (KLZ_WT10)
5	05:37		06:22 (SAM_WT07)	06:15		06:43 (SAM_WT08)	07:03			07:32 (SAM_WT04)	07:51		08:20 (SAM_WT05)	07:43		08:56 (CBR_WT01)	08:31		13:40 (KLZ_WT19)
	22:03	33	21:30 (EVE_WT01)	21:27	9	06:52 (SAM_WT08)	20:24	20		07:52 (SAM_WT04)	19:16	72	10:40 (CBR_WT01)	17:14	136	16:37 (KLZ_WT08)	16:40	90	15:42 (KLZ_WT10)
6	05:37		06:23 (SAM_WT07)	06:16		06:44 (SAM_WT08)	07:05			07:31 (SAM_WT04)	07:52		08:19 (SAM_WT05)	07:45		08:59 (CBR_WT01)	08:33		13:41 (KLZ_WT19)
	22:02	31	21:30 (EVE_WT01)	21:25	11	20:53 (EVE_WT02)	20:22	20		07:51 (SAM_WT04)	19:14	74	10:41 (CBR_WT01)	17:12	132	16:38 (KLZ_WT08)	16:39	88	15:42 (KLZ_WT10)
7	05:38		06:25 (SAM_WT07)	06:18		06:46 (SAM_WT08)	07:06			07:32 (SAM_WT04)	07:54		08:20 (SAM_WT05)	07:47		09:01 (CBR_WT01)	08:34		13:42 (KLZ_WT19)
	22:02	28	21:29 (EVE_WT01)	21:23	14	20:55 (EVE_WT02)	20:20	19		07:51 (SAM_WT04)	19:12	87	15:22 (KLZ_WT19)	17:11	129	16:39 (KLZ_WT08)	16:39	87	15:42 (KLZ_WT10)
8	05:39		06:26 (SAM_WT07)	06:20		06:47 (SAM_WT08)	07:08			07:33 (SAM_WT04)	07:56		08:22 (SAM_WT05)	07:49		09:04 (CBR_WT01)	08:35		13:43 (KLZ_WT19)
	22:01	27	21:29 (EVE_WT01)	21:22	22	20:53 (EVE_WT02)	20:18	17		07:50 (SAM_WT04)	19:10	102	15:29 (KLZ_WT19)	17:09	124	16:39 (KLZ_WT08)	16:39	85	15:43 (KLZ_WT10)
9	05:40		06:27 (SAM_WT07)	06:21		06:48 (SAM_WT08)	07:10			07:35 (SAM_WT04)	07:57		08:23 (SAM_WT05)	07:50		09:08 (CBR_WT01)	08:36		13:44 (KLZ_WT19)
	22:00	24	21:29 (EVE_WT01)	21:20	25	20:51 (EVE_WT02)	20:15	15		07:50 (SAM_WT04)	19:08	110	15:32 (KLZ_WT19)	17:07	115	16:38 (KLZ_WT08)	16:38	84	15:43 (KLZ_WT10)
10	05:41		06:11 (SAM_WT02)	06:23		06:50 (SAM_WT08)	07:11			07:36 (SAM_WT04)	07:59		08:25 (SAM_WT05)	07:52		13:22 (KLZ_WT19)	08:37		13:45 (KLZ_WT19)
	22:00	23	21:28 (EVE_WT01)	21:18	25	20:50 (EVE_WT02)	20:13	12		07:48 (SAM_WT04)	19:05	114	15:35 (KLZ_WT19)	17:06	96	16:36 (KLZ_WT08)	16:38	82	15:43 (KLZ_WT10)
11	05:42		06:12 (SAM_WT02)	06:24		07:05 (SAM_WT11)	07:13			07:38 (SAM_WT04)	08:01		08:29 (SAM_WT05)	07:54		13:22 (KLZ_WT19)	08:38		13:46 (KLZ_WT19)
	21:59	18	21:27 (EVE_WT01)	21:16	24	20:48 (EVE_WT02)	20:11	9		07:47 (SAM_WT04)	19:03	113	15:37 (KLZ_WT19)	17:04	93	16:34 (KLZ_WT08)	16:38	81	15:43 (KLZ_WT10)
12	05:43		06:13 (SAM_WT02)	06:26		07:04 (SAM_WT11)	07:14			07:39 (SAM_WT04)	08:02		09:46 (CBR_WT01)	07:56		13:22 (KLZ_WT19)	08:39		13:46 (KLZ_WT19)
	21:58	13	21:27 (EVE_WT01)	21:14	24	20:46 (EVE_WT02)	20:09	5		07:44 (SAM_WT04)	19:01	114	15:38 (KLZ_WT19)	17:03	90	16:32 (KLZ_WT08)	16:38	80	15:43 (KLZ_WT10)
13	05:44		06:14 (SAM_WT02)	06:27		07:03 (SAM_WT11)	07:16				08:04		09:46 (CBR_WT01)	07:57		13:23 (KLZ_WT19)	08:40		13:47 (KLZ_WT19)
	21:57	3	21:26 (EVE_WT01)	21:12	23	07:26 (SAM_WT11)	20:06				18:59	119	15:40 (KLZ_WT19)	17:01	86	16:31 (KLZ_WT08)	16:38	80	15:44 (KLZ_WT10)
14	05:45		06:15 (SAM_WT02)	06:29		07:02 (SAM_WT11)	07:17				08:06		09:46 (CBR_WT01)	07:59		13:23 (KLZ_WT19)	08:41		13:48 (KLZ_WT19)
	21:56	2	21:25 (EVE_WT01)	21:11	25	07:27 (SAM_WT11)	20:04				18:57	123	15:42 (KLZ_WT19)	17:00	85	14:48 (KLZ_WT19)	16:38	78	15:44 (KLZ_WT10)
15	05:46			06:30		07:01 (SAM_WT11)	07:19				08:07		09:46 (CBR_WT01)	08:01		13:24 (KLZ_WT19)	08:42		13:49 (KLZ_WT19)
	21:55			21:09	26	07:27 (SAM_WT11)	20:02				18:55	127	15:43 (KLZ_WT19)	16:59	84	14:48 (KLZ_WT19)	16:38	76	15:44 (KLZ_WT10)
16	05:48			06:32		07:01 (SAM_WT11)	07:21				08:09		09:44 (CBR_WT01)	08:02		13:25 (KLZ_WT19)	08:43		13:50 (KLZ_WT19)
	21:54			21:07	27	07:28 (SAM_WT11)	19:59				18:52	131	15:43 (KLZ_WT19)	16:57	85	15:25 (KLZ_WT10)	16:38	76	15:45 (KLZ_WT10)
17	05:49			06:33		07:00 (SAM_WT11)	07:22				08:11		09:44 (CBR_WT01)	08:04		13:26 (KLZ_WT19)	08:44		13:51 (KLZ_WT19)
	21:53			21:05	28	07:28 (SAM_WT11)	19:57				18:50	134	15:44 (KLZ_WT19)	16:56	93	15:30 (KLZ_WT10)	16:38	76	15:46 (KLZ_WT10)
18	05:50			06:35		07:02 (SAM_WT11)	07:24				08:12		09:44 (CBR_WT01)	08:06		13:25 (KLZ_WT19)	08:45		13:51 (KLZ_WT19)
	21:52			21:03	26	07:28 (SAM_WT11)	19:55				18:48	137	15:45 (KLZ_WT19)	16:55	96	15:31 (KLZ_WT10)	16:39	74	15:45 (KLZ_WT10)
19	05:51			06:37		07:03 (SAM_WT11)	07:25				08:14		09:45 (CBR_WT01)	08:07		13:26 (KLZ_WT19)	08:45		13:52 (KLZ_WT19)
	21:51			21:01	24	07:27 (SAM_WT11)	19:53				18:46	138	15:46 (KLZ_WT19)	16:53	99	15:33 (KLZ_WT10)	16:39	74	15:46 (KLZ_WT10)
20	05:52			06:38		07:05 (SAM_WT11)	07:27				08:16		09:45 (CBR_WT01)	08:09		13:27 (KLZ_WT19)	08:46		13:53 (KLZ_WT19)
	21:50			20:59	22	07:27 (SAM_WT11)	19:50				18:44	142	18:17 (KLZ_WT16)	16:52	99	15:34 (KLZ_WT10)	16:39	74	15:47 (KLZ_WT10)
21	05:54		21:10 (KLZ_WT13)	06:40		07:06 (SAM_WT11)	07:28				08:17		09:44 (CBR_WT01)	08:11		13:28 (KLZ_WT19)	08:46		13:53 (KLZ_WT19)
	21:49	6	21:16 (KLZ_WT13)	20:57	20	07:26 (SAM_WT11)	19:48				18:42	145	18:14 (KLZ_WT16)	16:51	100	15:35 (KLZ_WT10)	16:40	74	15:47 (KLZ_WT10)
22	05:55		21:09 (KLZ_WT13)	06:41		07:08 (SAM_WT11)	07:30				08:19		09:44 (CBR_WT01)	08:12		13:29 (KLZ_WT19)	08:47		13:54 (KLZ_WT19)
	21:48	8	21:17 (KLZ_WT13)	20:55	18	07:26 (SAM_WT11)	19:46				18:40	144	18:12 (KLZ_WT16)	16:50	100	15:36 (KLZ_WT10)	16:40	74	15:48 (KLZ_WT10)
23	05:56		21:08 (KLZ_WT13)	06:43		07:09 (SAM_WT11)	07:32			08:32 (SAM_WT05)	08:21		09:45 (CBR_WT01)	08:14		13:29 (KLZ_WT19)	08:48		13:54 (KLZ_WT19)
	21:46	8	21:16 (KLZ_WT13)	20:52	16	07:25 (SAM_WT11)	19:43	9		08:41 (SAM_WT05)	18:38	143	15:48 (KLZ_WT19)	16:49	100	15:36 (KLZ_WT10)	16:41	74	15:48 (KLZ_WT10)
24	05:58		21:07 (KLZ_WT13)	06:44		07:11 (SAM_WT11)	07:33			08:29 (SAM_WT05)	08:23		09:45 (CBR_WT01)	08:15		13:30 (KLZ_WT19)	08:48		13:54 (KLZ_WT19)
	21:45	7	21:14 (KLZ_WT13)	20:50	13	07:24 (SAM_WT11)	19:41	15		08:44 (SAM_WT05)	18:36	143	15:48 (KLZ_WT19)	16:48	100	15:37 (KLZ_WT10)	16:41	74	15:48 (KLZ_WT10)
25	05:59		21:07 (KLZ_WT13)	06:46		07:12 (SAM_WT11)	07:35			08:26 (SAM_WT05)	07:24		08:46 (CBR_WT01)	08:17		13:31 (KLZ_WT19)	08:48		13:55 (KLZ_WT19)
	21:44	7	21:14 (KLZ_WT13)	20:48	10	07:22 (SAM_WT11)	19:39	19		08:45 (SAM_WT05)	17:34	144	14:49 (KLZ_WT19)	16:47	103	16:15 (NES_WT01)	16:42	74	15:49 (KLZ_WT10)
26	06:00		21:06 (KLZ_WT13)	06:48		07:14 (SAM_WT11)	07:36			08:24 (SAM_WT05)	07:26		08:45 (CBR_WT01)	08:19		13:32 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:42	6	21:12 (KLZ_WT13)	20:46	7	07:21 (SAM_WT11)	19:37	23		08:47 (SAM_WT05)	17:32	144	14:48 (KLZ_WT19)	16:46	101	16:14 (NES_WT01)	16:43	75	15:49 (KLZ_WT10)
27	06:02		21:06 (KLZ_WT13)	06:49		07:15 (SAM_WT11)	07:38			08:23 (SAM_WT05)	07:28		08:46 (CBR_WT01)	08:20		13:33 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:41	5	21:11 (KLZ_WT13)	20:44	2	07:17 (SAM_WT11)	19:34	25		08:48 (SAM_WT05)	17:30	144	14:49 (KLZ_WT19)	16:45	100	16:13 (NES_WT01)	16:43	76	15:50 (KLZ_WT10)
28	06:03		21:07 (KLZ_WT13)	06:51			07:40			08:22 (SAM_WT05)	07:30		08:47 (CBR_WT01)	08:22		13:34 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:40	3	21:10 (KLZ_WT13)	20:42			19:32	26		08:48 (SAM_WT05)	17:28	142	14:49 (KLZ_WT19)	16:44	98	16:12 (NES_WT01)	16:44	77	15:50 (KLZ_WT10)
29	06:05		21:07 (KLZ_WT13)	06:52			07:41			08:21 (SAM_WT05)	07:31		08:48 (CBR_WT01)	08:23		13:34 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:38	1	21:08 (KLZ_WT13)	20:40			19:30	40		10:24 (CBR_WT01)	17:26	141	14:49 (KLZ_WT19)	16:43	98	15:40 (KLZ_WT10)	16:45	78	15:51 (KLZ_WT10)
30	06:06			06:54			07:43			08:20 (SAM_WT05)	07:33		08:49 (CBR_WT01)	08:25		13:36 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:37			20:38			19:28	54		19:00 (KLZ_WT15)	17:25	141	14:50 (KLZ_WT19)	16:43	96	15:41 (KLZ_WT10)	16:46	78	15:51 (KLZ_WT10)
31	06:08			06:55		07:39 (SAM_WT04)					07:35		08:50 (CBR_WT01)				08:49		13:55 (KLZ_WT19)
	21:35			20:35	8	07:47 (SAM_WT04)					17:23	139	14:50 (KLZ_WT19)				16:47	80	15:52 (KLZ_WT10)
Potential sun hours	498			451			380				333			269			248		
Total, worst case		394			468			393				3672			3182			2487	
Sun reduction		0,45			0,47			0,43				0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97				0,97			0,97			0,97	
Wind dir. red.		0,66			0,64			0,59				0,63			0,70			0,72	
Total reduction		0,29			0,29			0,25				0,22			0,18			0,16	
Total, real		113			137			98				815			584			394	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January			February			March			April			May			June		
1	08:49			08:24		17:05 (NES_WT01)	07:32		13:53 (CBR_WT01)	07:23		08:19 (SAM_WT05)	06:20		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:48			17:35	1	17:06 (NES_WT01)	18:25	98	17:51 (KLZ_WT10)	20:17	230	18:47 (KLZ_WT19)	21:06	110	20:38 (EVE_WT02)	21:50	20	06:24 (SAM_WT11)
2	08:49			08:22			07:30		13:51 (CBR_WT01)	07:21		08:19 (SAM_WT05)	06:18		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:49			17:36			18:26	102	17:51 (KLZ_WT10)	20:19	226	18:46 (KLZ_WT19)	21:08	106	20:40 (EVE_WT02)	21:51	21	06:25 (SAM_WT11)
3	08:49			08:21			07:28		13:49 (CBR_WT01)	07:19		08:19 (SAM_WT05)	06:16		06:53 (SAM_WT04)	05:35		06:03 (SAM_WT08)
	16:50			17:38			18:28	104	17:50 (KLZ_WT10)	20:20	221	18:43 (KLZ_WT19)	21:09	102	20:41 (EVE_WT02)	21:53	22	06:25 (SAM_WT11)
4	08:49			08:19			07:26		13:47 (CBR_WT01)	07:16		08:19 (SAM_WT05)	06:15		06:53 (SAM_WT04)	05:34		06:02 (SAM_WT08)
	16:51			17:40			18:30	109	17:49 (KLZ_WT10)	20:22	216	18:41 (KLZ_WT19)	21:11	96	16:17 (CBR_WT01)	21:54	24	06:26 (SAM_WT11)
5	08:49			08:18			07:24		13:44 (CBR_WT01)	07:14		08:19 (SAM_WT05)	06:13		06:53 (SAM_WT04)	05:33		06:02 (SAM_WT08)
	16:52			17:42			18:32	116	17:46 (KLZ_WT10)	20:24	207	18:37 (KLZ_WT19)	21:13	91	16:16 (CBR_WT01)	21:55	25	06:27 (SAM_WT11)
6	08:49			08:16			07:21		13:43 (CBR_WT01)	07:12		08:18 (SAM_WT05)	06:11		06:53 (SAM_WT04)	05:33		06:01 (SAM_WT08)
	16:54			17:44			18:33	125	17:48 (KLZ_WT19)	20:25	192	16:34 (CBR_WT01)	21:14	85	16:14 (CBR_WT01)	21:55	26	06:27 (SAM_WT11)
7	08:48			08:14			07:19		13:41 (CBR_WT01)	07:10		08:18 (SAM_WT05)	06:09		06:54 (SAM_WT04)	05:32		06:01 (SAM_WT08)
	16:55			17:45			18:35	133	17:51 (KLZ_WT19)	20:27	191	16:34 (CBR_WT01)	21:16	79	16:13 (CBR_WT01)	21:56	27	06:28 (SAM_WT11)
8	08:48			08:13			07:17		13:40 (CBR_WT01)	07:08		08:19 (SAM_WT05)	06:08		06:55 (SAM_WT04)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37	140	17:53 (KLZ_WT19)	20:28	189	16:34 (CBR_WT01)	21:17	72	16:11 (CBR_WT01)	21:57	28	06:28 (SAM_WT11)
9	08:47			08:11			07:15		13:38 (CBR_WT01)	07:05		08:19 (SAM_WT05)	06:06		06:56 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:57			17:49			18:38	145	17:53 (KLZ_WT19)	20:30	187	16:34 (CBR_WT01)	21:19	66	16:10 (CBR_WT01)	21:58	29	06:29 (SAM_WT11)
10	08:47			08:09			07:13		13:36 (CBR_WT01)	07:03		08:20 (SAM_WT05)	06:04		06:57 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40	151	17:55 (KLZ_WT19)	20:32	185	16:34 (CBR_WT01)	21:20	58	16:08 (CBR_WT01)	21:59	29	06:29 (SAM_WT11)
11	08:46			08:08			07:10		13:35 (CBR_WT01)	07:01		08:19 (SAM_WT05)	06:03		06:58 (SAM_WT04)	05:31		05:59 (SAM_WT08)
	17:00			17:53			18:42	155	17:56 (KLZ_WT19)	20:33	182	16:32 (CBR_WT01)	21:22	51	16:07 (CBR_WT01)	21:59	30	06:29 (SAM_WT11)
12	08:46			08:06			07:08		13:34 (CBR_WT01)	06:59		08:20 (SAM_WT05)	06:01		06:59 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44	160	17:57 (KLZ_WT19)	20:35	179	16:32 (CBR_WT01)	21:24	42	20:54 (KLZ_WT13)	22:00	31	06:30 (SAM_WT11)
13	08:45			08:04			07:06		13:32 (CBR_WT01)	06:57		08:21 (SAM_WT05)	05:59		07:02 (SAM_WT04)	05:30		05:59 (SAM_WT11)
	17:03			17:56			18:45	164	17:57 (KLZ_WT19)	20:37	175	16:32 (CBR_WT01)	21:25	29	20:56 (KLZ_WT13)	22:01	31	06:30 (SAM_WT11)
14	08:44			08:02			07:04		13:31 (CBR_WT01)	06:55		08:22 (SAM_WT05)	05:58		20:55 (KLZ_WT13)	05:30		05:59 (SAM_WT11)
	17:05			17:58			18:47	168	17:58 (KLZ_WT19)	20:38	171	16:31 (CBR_WT01)	21:27	2	20:57 (KLZ_WT13)	22:01	32	06:31 (SAM_WT11)
15	08:44			08:00			07:01		07:50 (SAM_WT05)	06:52		08:23 (SAM_WT05)	05:56			05:30		05:59 (SAM_WT11)
	17:06			18:00			18:49	177	17:59 (KLZ_WT19)	20:40	167	16:31 (CBR_WT01)	21:28			22:02	32	06:31 (SAM_WT11)
16	08:43			07:58			06:59		07:43 (SAM_WT05)	06:50		08:25 (SAM_WT05)	05:55			05:29		05:59 (SAM_WT11)
	17:08			18:02			18:50	193	17:59 (KLZ_WT19)	20:42	161	16:31 (CBR_WT01)	21:30			22:02	33	06:32 (SAM_WT11)
17	08:42			07:56			06:57		07:39 (SAM_WT05)	06:48		08:26 (SAM_WT05)	05:53			05:29		05:59 (SAM_WT11)
	17:09			18:03			18:52	202	17:59 (KLZ_WT19)	20:43	155	16:30 (CBR_WT01)	21:31			22:03	33	06:32 (SAM_WT11)
18	08:41			07:54			06:55		07:36 (SAM_WT05)	06:46		08:28 (SAM_WT05)	05:52			05:29		05:59 (SAM_WT11)
	17:11			18:05			18:54	211	17:59 (KLZ_WT19)	20:45	149	16:30 (CBR_WT01)	21:32			22:03	33	06:32 (SAM_WT11)
19	08:40			07:53			06:52		07:34 (SAM_WT05)	06:44		08:31 (SAM_WT05)	05:51			05:29		05:59 (SAM_WT11)
	17:12			18:07			18:55	217	17:59 (KLZ_WT19)	20:47	139	16:29 (CBR_WT01)	21:34			22:04	33	06:32 (SAM_WT11)
20	08:39			07:51			06:50		07:32 (SAM_WT05)	06:42		07:08 (SAM_WT04)	05:49			05:30		05:59 (SAM_WT11)
	17:14			18:09			18:57	221	17:59 (KLZ_WT19)	20:48	130	16:29 (CBR_WT01)	21:35			22:04	33	06:32 (SAM_WT11)
21	08:38			07:49		14:21 (CBR_WT01)	06:48		07:30 (SAM_WT05)	06:40		07:04 (SAM_WT04)	05:48			05:30		05:59 (SAM_WT11)
	17:16			18:11	27	14:48 (CBR_WT01)	18:59	225	17:58 (KLZ_WT19)	20:50	129	16:28 (CBR_WT01)	21:37			22:04	33	06:32 (SAM_WT11)
22	08:37			07:47		14:15 (CBR_WT01)	06:46		07:28 (SAM_WT05)	06:38		07:01 (SAM_WT04)	05:47			05:30		06:00 (SAM_WT11)
	17:17			18:12	38	14:53 (CBR_WT01)	19:00	228	17:58 (KLZ_WT19)	20:51	131	16:27 (CBR_WT01)	21:38			22:04	33	06:33 (SAM_WT11)
23	08:36			07:45		14:11 (CBR_WT01)	06:43		07:27 (SAM_WT05)	06:36		06:59 (SAM_WT04)	05:46			05:30		06:00 (SAM_WT11)
	17:19			18:14	52	17:46 (KLZ_WT10)	19:02	231	17:58 (KLZ_WT19)	20:53	131	16:27 (CBR_WT01)	21:39			22:05	33	06:33 (SAM_WT11)
24	08:35			07:42		14:07 (CBR_WT01)	06:41		07:25 (SAM_WT05)	06:34		06:58 (SAM_WT04)	05:44		06:11 (SWB_WT01_RP)	05:30		06:00 (SAM_WT11)
	17:21			18:16	66	17:50 (KLZ_WT08)	19:04	233	17:56 (KLZ_WT19)	20:55	130	16:26 (CBR_WT01)	21:41	2	21:10 (EVE_WT01)	22:05	33	06:33 (SAM_WT11)
25	08:33			07:40		14:04 (CBR_WT01)	06:39		07:24 (SAM_WT05)	06:32		06:56 (SAM_WT04)	05:43		06:10 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:22			18:18	76	17:52 (KLZ_WT08)	19:05	235	17:56 (KLZ_WT19)	20:56	129	16:25 (CBR_WT01)	21:42	3	21:11 (EVE_WT01)	22:05	33	06:34 (SAM_WT11)
26	08:32			07:38		14:01 (CBR_WT01)	06:37		07:23 (SAM_WT05)	06:30		06:55 (SAM_WT04)	05:42		06:09 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:24			18:19	85	17:54 (KLZ_WT08)	19:07	236	17:55 (KLZ_WT19)	20:58	126	16:24 (CBR_WT01)	21:43	7	21:12 (EVE_WT01)	22:05	33	06:34 (SAM_WT11)
27	08:31			07:36		13:57 (CBR_WT01)	06:34		07:23 (SAM_WT05)	06:28		06:54 (SAM_WT04)	05:41		06:08 (SAM_WT08)	05:32		06:01 (SAM_WT11)
	17:26			18:21	93	17:55 (KLZ_WT08)	19:09	237	17:55 (KLZ_WT19)	21:00	123	16:23 (CBR_WT01)	21:45	10	21:13 (EVE_WT01)	22:05	32	06:33 (SAM_WT11)
28	08:30			07:34		13:55 (CBR_WT01)	06:32		07:21 (SAM_WT05)	06:26		06:54 (SAM_WT04)	05:40		06:07 (SAM_WT08)	05:32		06:02 (SAM_WT11)
	17:28			18:23	97	17:54 (KLZ_WT08)	19:10	236	17:53 (KLZ_WT19)	21:01	119	16:22 (CBR_WT01)	21:46	12	06:19 (SAM_WT11)	22:05	32	06:34 (SAM_WT11)
29	08:28						07:30		08:21 (SAM_WT05)	06:24		06:54 (SAM_WT04)	05:39		06:06 (SAM_WT08)	05:33		06:02 (SAM_WT11)
	17:29						20:12	234	18:52 (KLZ_WT19)	21:03	116	16:22 (CBR_WT01)	21:47	14	06:20 (SAM_WT11)	22:05	31	06:33 (SAM_WT11)
30	08:27						07:28		08:20 (SAM_WT05)	06:22		06:54 (SAM_WT04)	05:38		06:06 (SAM_WT08)	05:33		06:03 (SAM_WT08)
	17:31						20:14	235	18:51 (KLZ_WT19)	21:05	112	16:21 (CBR_WT01)	21:48	16	06:22 (SAM_WT11)	22:04	31	06:34 (SAM_WT11)
31	08:25						07:25		08:20 (SAM_WT05)				05:37		06:05 (SAM_WT08)			
	17:33						20:15	234	18:50 (KLZ_WT19)				21:49	18	06:23 (SAM_WT11)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case					535			5655			4898			1071			896	
Sun reduction					0,30			0,38			0,46			0,46			0,44	
Oper. time red.					0,97			0,97			0,97			0,97			0,97	
Wind dir. red.					0,72			0,69			0,70			0,70			0,71	
Total reduction					0,21			0,26			0,32			0,31			0,31	
Total, real					113			1452			1543			335			274	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January			February			March			April			May			June		
1	08:50			08:24		09:18 (MVN_WT01)	07:32			07:23			06:20		06:44 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:48			17:35	7	09:25 (MVN_WT01)	18:25			20:17			21:06	19	07:03 (SAM_WT05)	21:50	23	20:40 (KLZ_WT10)
2	08:49			08:22			07:30			07:21			06:18		06:42 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:49			17:36			18:26			20:19			21:08	22	07:04 (SAM_WT05)	21:51	25	20:42 (KLZ_WT10)
3	08:49			08:21		17:07 (NES_WT01)	07:28			07:19			06:16		06:41 (SAM_WT05)	05:35		20:16 (KLZ_WT10)
	16:50			17:38	2	17:09 (NES_WT01)	18:28			20:20			21:09	24	07:05 (SAM_WT05)	21:53	27	20:43 (KLZ_WT10)
4	08:49			08:19		17:08 (NES_WT01)	07:26			07:17			06:15		06:40 (SAM_WT05)	05:34		20:15 (KLZ_WT10)
	16:51			17:40	3	17:11 (NES_WT01)	18:30			20:22			21:11	25	07:05 (SAM_WT05)	21:54	28	20:43 (KLZ_WT10)
5	08:49			08:18		17:08 (NES_WT01)	07:24			07:14			06:13		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT08)
	16:53			17:42	5	17:13 (NES_WT01)	18:32			20:24			21:13	26	07:05 (SAM_WT05)	21:55	30	20:44 (KLZ_WT10)
6	08:49			08:16		17:09 (NES_WT01)	07:21			07:12			06:11		06:38 (SAM_WT05)	05:33		06:01 (SAM_WT08)
	16:54			17:44	6	17:15 (NES_WT01)	18:33			20:25			21:14	27	07:05 (SAM_WT05)	21:55	32	20:45 (KLZ_WT10)
7	08:48			08:14		17:10 (NES_WT01)	07:19			07:10			06:09		06:39 (SAM_WT05)	05:32		06:01 (SAM_WT08)
	16:55			17:45	5	17:15 (NES_WT01)	18:35			20:27			21:16	27	07:06 (SAM_WT05)	21:56	34	20:46 (KLZ_WT10)
8	08:48			08:13			07:17			07:08		20:01 (KLZ_WT15)	06:08		06:38 (SAM_WT05)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37			20:28	2	20:03 (KLZ_WT15)	21:17	27	07:05 (SAM_WT05)	21:57	35	20:46 (KLZ_WT10)
9	08:47			08:11			07:15			07:05		20:01 (KLZ_WT15)	06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:58			17:49			18:39			20:30	4	20:05 (KLZ_WT15)	21:19	30	07:06 (SAM_WT05)	21:58	36	20:47 (KLZ_WT10)
10	08:47			08:09			07:13			07:03		20:02 (KLZ_WT15)	06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40			20:32	4	20:06 (KLZ_WT15)	21:20	32	07:05 (SAM_WT05)	21:59	37	20:48 (KLZ_WT10)
11	08:46			08:08			07:10			07:01		20:03 (KLZ_WT15)	06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	17:00			17:53			18:42			20:33	5	20:08 (KLZ_WT15)	21:22	34	07:05 (SAM_WT05)	22:00	39	20:49 (KLZ_WT10)
12	08:46			08:06			07:08			06:59		20:04 (KLZ_WT15)	06:01		06:26 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44			20:35	3	20:07 (KLZ_WT15)	21:24	36	07:05 (SAM_WT05)	22:00	39	20:48 (KLZ_WT10)
13	08:45		09:14 (MVN_WT01)	08:04			07:06			06:57			05:59		06:25 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:03	6	09:20 (MVN_WT01)	17:56			18:45			20:37			21:25	37	07:05 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
14	08:44		09:13 (MVN_WT01)	08:02			07:04			06:55			05:58		06:23 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:05	9	09:22 (MVN_WT01)	17:58			18:47			20:38			21:27	37	07:03 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
15	08:44		09:12 (MVN_WT01)	08:00			07:02			06:52			05:56		06:22 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:06	11	09:23 (MVN_WT01)	18:00			18:49			20:40			21:28	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
16	08:43		09:11 (MVN_WT01)	07:58			06:59		18:25 (KLZ_WT16)	06:50			05:55		06:21 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:08	13	09:24 (MVN_WT01)	18:02			18:50	1	18:26 (KLZ_WT16)	20:42			21:30	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
17	08:42		09:10 (MVN_WT01)	07:56			06:57		18:24 (KLZ_WT16)	06:48			05:53		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:09	15	09:25 (MVN_WT01)	18:03			18:52	3	18:27 (KLZ_WT16)	20:43			21:31	37	07:01 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
18	08:41		09:10 (MVN_WT01)	07:54			06:55		18:25 (KLZ_WT16)	06:46			05:52		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:11	16	09:26 (MVN_WT01)	18:05			18:54	4	18:29 (KLZ_WT16)	20:45			21:32	34	07:00 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
19	08:40		09:10 (MVN_WT01)	07:53			06:53		18:26 (KLZ_WT16)	06:44			05:51		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:12	17	09:27 (MVN_WT01)	18:07			18:55	5	18:31 (KLZ_WT16)	20:47			21:34	33	07:00 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
20	08:39		09:09 (MVN_WT01)	07:51			06:50			06:42			05:49		06:20 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:14	18	09:27 (MVN_WT01)	18:09			18:57			20:48			21:35	28	06:58 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
21	08:38		09:09 (MVN_WT01)	07:49			06:48			06:40			05:48		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:16	19	09:28 (MVN_WT01)	18:11			18:59			20:50			21:37	25	06:56 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
22	08:37		09:09 (MVN_WT01)	07:47			06:46		18:29 (KLZ_WT08)	06:38			05:47		06:20 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:17	20	09:29 (MVN_WT01)	18:12			19:00	5	18:34 (KLZ_WT08)	20:52			21:38	15	06:35 (SAM_WT04)	22:04	43	20:52 (KLZ_WT10)
23	08:36		09:10 (MVN_WT01)	07:45			06:44		18:26 (KLZ_WT08)	06:36			05:46		06:21 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:19	20	09:30 (MVN_WT01)	18:14			19:02	10	18:36 (KLZ_WT08)	20:53			21:39	13	06:34 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
24	08:35		09:09 (MVN_WT01)	07:43			06:41		18:24 (KLZ_WT08)	06:34			05:44		06:22 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:21	20	09:29 (MVN_WT01)	18:16			19:04	13	18:37 (KLZ_WT08)	20:55			21:41	11	06:33 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
25	08:33		09:10 (MVN_WT01)	07:40			06:39		18:23 (KLZ_WT08)	06:32			05:43		06:23 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:22	20	09:30 (MVN_WT01)	18:18			19:05	15	18:38 (KLZ_WT08)	20:56			21:42	9	06:32 (SAM_WT04)	22:05	43	20:53 (KLZ_WT10)
26	08:32		09:11 (MVN_WT01)	07:38			06:37		18:22 (KLZ_WT08)	06:30			05:42		06:25 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:24	19	09:30 (MVN_WT01)	18:19			19:07	16	18:38 (KLZ_WT08)	20:58			21:43	5	06:30 (SAM_WT04)	22:05	42	20:53 (KLZ_WT10)
27	08:31		09:11 (MVN_WT01)	07:36			06:34		18:22 (KLZ_WT08)	06:28			05:41		20:25 (KLZ_WT10)	05:32		06:01 (SAM_WT08)
	17:26	18	09:29 (MVN_WT01)	18:21			19:09	16	18:38 (KLZ_WT08)	21:00			21:45	6	20:31 (KLZ_WT10)	22:05	41	20:52 (KLZ_WT10)
28	08:30		09:12 (MVN_WT01)	07:34			06:32		18:22 (KLZ_WT08)	06:26		06:49 (SAM_WT05)	05:40		20:22 (KLZ_WT10)	05:32		06:02 (SAM_WT08)
	17:28	18	09:30 (MVN_WT01)	18:23			19:10	15	18:37 (KLZ_WT08)	21:01	9	06:58 (SAM_WT05)	21:46	12	20:34 (KLZ_WT10)	22:05	41	20:53 (KLZ_WT10)
29	08:28		09:12 (MVN_WT01)				07:30		19:22 (KLZ_WT08)	06:24		06:48 (SAM_WT05)	05:39		20:21 (KLZ_WT10)	05:33		06:02 (SAM_WT08)
	17:29	17	09:29 (MVN_WT01)				20:12	14	19:36 (KLZ_WT08)	21:03	13	07:01 (SAM_WT05)	21:47	16	20:37 (KLZ_WT10)	22:05	40	20:52 (KLZ_WT10)
30	08:27		09:14 (MVN_WT01)				07:28		19:23 (KLZ_WT08)	06:22		06:46 (SAM_WT05)	05:38		20:19 (KLZ_WT10)	05:33		06:03 (SAM_WT08)
	17:31	14	09:28 (MVN_WT01)				20:14	12	19:35 (KLZ_WT08)	21:05	16	07:02 (SAM_WT05)	21:48	19	20:38 (KLZ_WT10)	22:04	40	20:53 (KLZ_WT10)
31	08:25		09:15 (MVN_WT01)				07:25		19:25 (KLZ_WT08)				05:37		20:18 (KLZ_WT10)			
	17:33	12	09:27 (MVN_WT01)				20:15	9	19:34 (KLZ_WT08)				21:49	21	20:39 (KLZ_WT10)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		302			28			138			56			763			1138	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,54			0,66			0,63			0,64			0,67			0,58	
Total reduction		0,13			0,19			0,23			0,29			0,30			0,25	
Total, real		39			5			32			16			226			286	

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July			August			September			October	November			December
1	05:34		06:04 (SAM_WT08)	06:09		06:37 (SAM_WT04)	06:57		20:01 (KLZ_WT15)	07:44	07:36			08:26
	22:04	39	20:53 (KLZ_WT10)	21:33	35	07:15 (SAM_WT05)	20:33	6	20:07 (KLZ_WT15)	19:25	17:21			16:42
2	05:34		06:04 (SAM_WT08)	06:11		06:39 (SAM_WT04)	06:59		20:00 (KLZ_WT15)	07:46	07:38			08:27
	22:04	38	20:52 (KLZ_WT10)	21:32	34	07:16 (SAM_WT05)	20:31	4	20:04 (KLZ_WT15)	19:23	17:19			16:41
3	05:35		06:05 (SAM_WT08)	06:12		06:40 (SAM_WT04)	07:00		19:59 (KLZ_WT15)	07:48	07:40			08:29
	22:03	36	20:52 (KLZ_WT10)	21:30	31	07:16 (SAM_WT05)	20:29	4	20:03 (KLZ_WT15)	19:21	17:17			16:41
4	05:36		06:06 (SAM_WT08)	06:14		06:41 (SAM_WT04)	07:02		19:58 (KLZ_WT15)	07:49	07:42		16:39 (NES_WT01)	08:30
	22:03	35	20:52 (KLZ_WT10)	21:29	29	07:15 (SAM_WT05)	20:27	2	20:00 (KLZ_WT15)	19:19	17:16	6	16:45 (NES_WT01)	16:40
5	05:37		06:06 (SAM_WT08)	06:15		06:49 (SAM_WT05)	07:03			07:51	07:43		16:38 (NES_WT01)	08:31
	22:03	34	20:51 (KLZ_WT10)	21:27	27	07:16 (SAM_WT05)	20:24			19:16	17:14	6	16:44 (NES_WT01)	16:40
6	05:37		06:07 (SAM_WT08)	06:17		06:48 (SAM_WT05)	07:05			07:52	07:45		16:38 (NES_WT01)	08:33
	22:02	33	20:51 (KLZ_WT10)	21:25	27	07:15 (SAM_WT05)	20:22			19:14	17:12	5	16:43 (NES_WT01)	16:39
7	05:38		06:08 (SAM_WT08)	06:18		06:49 (SAM_WT05)	07:06			07:54	07:47		16:38 (NES_WT01)	08:34
	22:02	31	20:51 (KLZ_WT10)	21:23	27	07:16 (SAM_WT05)	20:20			19:12	17:11	3	16:41 (NES_WT01)	16:39
8	05:39		20:22 (KLZ_WT10)	06:20		06:49 (SAM_WT05)	07:08			07:56	07:49		16:38 (NES_WT01)	08:35
	22:01	29	20:51 (KLZ_WT10)	21:22	26	07:15 (SAM_WT05)	20:18			19:10	17:09	1	16:39 (NES_WT01)	16:39
9	05:40		20:23 (KLZ_WT10)	06:21		06:50 (SAM_WT05)	07:10			07:57	07:50			08:36
	22:00	27	20:50 (KLZ_WT10)	21:20	25	07:15 (SAM_WT05)	20:15			19:08	17:07			16:39
10	05:41		20:24 (KLZ_WT10)	06:23		06:50 (SAM_WT05)	07:11			07:59	07:52		08:48 (MVN_WT01)	08:37
	22:00	26	20:50 (KLZ_WT10)	21:18	23	07:13 (SAM_WT05)	20:13			19:05	17:06	8	08:56 (MVN_WT01)	16:38
11	05:42		20:25 (KLZ_WT10)	06:24		06:51 (SAM_WT05)	07:13			08:01	07:54		08:46 (MVN_WT01)	08:38
	21:59	24	20:49 (KLZ_WT10)	21:16	21	07:12 (SAM_WT05)	20:11			19:03	17:04	12	08:58 (MVN_WT01)	16:38
12	05:43		20:26 (KLZ_WT10)	06:26		06:53 (SAM_WT05)	07:14		19:17 (KLZ_WT08)	08:02	07:56		08:45 (MVN_WT01)	08:39
	21:58	22	20:48 (KLZ_WT10)	21:14	19	07:12 (SAM_WT05)	20:09	8	19:25 (KLZ_WT08)	19:01	17:03	14	08:59 (MVN_WT01)	16:38
13	05:44		20:27 (KLZ_WT10)	06:27		06:54 (SAM_WT05)	07:16		19:15 (KLZ_WT08)	08:04	07:57		08:44 (MVN_WT01)	08:40
	21:57	20	20:47 (KLZ_WT10)	21:12	16	07:10 (SAM_WT05)	20:06	11	19:26 (KLZ_WT08)	18:59	17:01	17	09:01 (MVN_WT01)	16:38
14	05:45		20:28 (KLZ_WT10)	06:29		06:56 (SAM_WT05)	07:17		19:13 (KLZ_WT08)	08:06	07:59		08:44 (MVN_WT01)	08:41
	21:56	18	20:46 (KLZ_WT10)	21:11	12	07:08 (SAM_WT05)	20:04	14	19:27 (KLZ_WT08)	18:57	17:00	18	09:02 (MVN_WT01)	16:38
15	05:46		20:30 (KLZ_WT10)	06:30		06:57 (SAM_WT05)	07:19		19:12 (KLZ_WT08)	08:07	08:01		08:44 (MVN_WT01)	08:42
	21:55	15	20:45 (KLZ_WT10)	21:09	8	07:05 (SAM_WT05)	20:02	15	19:27 (KLZ_WT08)	18:55	16:59	18	09:02 (MVN_WT01)	16:38
16	05:48		20:32 (KLZ_WT10)	06:32			07:21		19:11 (KLZ_WT08)	08:09	08:02		08:44 (MVN_WT01)	08:43
	21:54	10	20:42 (KLZ_WT10)	21:07			19:59	16	19:27 (KLZ_WT08)	18:52	16:57	19	09:03 (MVN_WT01)	16:38
17	05:49			06:34			07:22		19:11 (KLZ_WT08)	08:11	08:04		08:44 (MVN_WT01)	08:44
	21:53			21:05			19:57	16	19:27 (KLZ_WT08)	18:50	16:56	20	09:04 (MVN_WT01)	16:38
18	05:50		06:34 (SAM_WT04)	06:35			07:24		19:10 (KLZ_WT08)	08:12	08:06		08:43 (MVN_WT01)	08:45
	21:52	7	06:41 (SAM_WT04)	21:03			19:55	15	19:25 (KLZ_WT08)	18:48	16:55	20	09:03 (MVN_WT01)	16:39
19	05:51		06:32 (SAM_WT04)	06:37			07:25		19:11 (KLZ_WT08)	08:14	08:07		08:44 (MVN_WT01)	08:45
	21:51	10	06:42 (SAM_WT04)	21:01			19:53	14	19:25 (KLZ_WT08)	18:46	16:53	20	09:04 (MVN_WT01)	16:39
20	05:52		06:32 (SAM_WT04)	06:38			07:27		19:12 (KLZ_WT08)	08:16	08:09		08:44 (MVN_WT01)	08:46
	21:50	12	06:44 (SAM_WT04)	20:59			19:50	11	19:23 (KLZ_WT08)	18:44	16:52	20	09:04 (MVN_WT01)	16:39
21	05:54		06:31 (SAM_WT04)	06:40			07:28		19:13 (KLZ_WT08)	08:17	08:11		08:45 (MVN_WT01)	08:46
	21:49	14	06:45 (SAM_WT04)	20:57			19:48	7	19:20 (KLZ_WT08)	18:42	16:51	19	09:04 (MVN_WT01)	16:40
22	05:55		06:30 (SAM_WT04)	06:41			07:30			08:19	08:12		08:45 (MVN_WT01)	08:47
	21:48	21	07:05 (SAM_WT05)	20:55			19:46			18:40	16:50	18	09:03 (MVN_WT01)	16:40
23	05:56		06:30 (SAM_WT04)	06:43			07:32			08:21	08:14		08:46 (MVN_WT01)	08:47
	21:46	27	07:07 (SAM_WT05)	20:52			19:44			18:38	16:49	17	09:03 (MVN_WT01)	16:41
24	05:58		06:29 (SAM_WT04)	06:44			07:33		19:10 (KLZ_WT16)	08:23	08:15		08:47 (MVN_WT01)	08:48
	21:45	31	07:08 (SAM_WT05)	20:50			19:41	5	19:15 (KLZ_WT16)	18:36	16:48	17	09:04 (MVN_WT01)	16:41
25	05:59		06:29 (SAM_WT04)	06:46			07:35		19:08 (KLZ_WT16)	07:24	08:17		08:48 (MVN_WT01)	08:48
	21:44	34	07:10 (SAM_WT05)	20:48			19:39	4	19:12 (KLZ_WT16)	17:34	16:47	16	09:04 (MVN_WT01)	16:42
26	06:00		06:29 (SAM_WT04)	06:48			07:36		19:07 (KLZ_WT16)	07:26	08:19		08:49 (MVN_WT01)	08:49
	21:42	36	07:11 (SAM_WT05)	20:46			19:37	3	19:10 (KLZ_WT16)	17:32	16:46	13	09:02 (MVN_WT01)	16:43
27	06:02		06:30 (SAM_WT04)	06:49			07:38		19:07 (KLZ_WT16)	07:28	08:20		08:51 (MVN_WT01)	08:49
	21:41	37	07:12 (SAM_WT05)	20:44			19:34	1	19:08 (KLZ_WT16)	17:30	16:45	11	09:02 (MVN_WT01)	16:43
28	06:03		06:32 (SAM_WT04)	06:51			07:40			07:29	08:22		08:53 (MVN_WT01)	08:49
	21:40	39	07:14 (SAM_WT05)	20:42			19:32			17:28	16:44	9	09:02 (MVN_WT01)	16:44
29	06:05		06:33 (SAM_WT04)	06:52			07:41			07:31	08:23		08:54 (MVN_WT01)	08:49
	21:38	38	07:14 (SAM_WT05)	20:40			19:30			17:26	16:43	6	09:00 (MVN_WT01)	16:45
30	06:06		06:34 (SAM_WT04)	06:54			07:43			07:33	08:25			08:49
	21:37	37	07:14 (SAM_WT05)	20:38			19:28			17:25	16:43			16:46
31	06:08		06:36 (SAM_WT04)	06:55		20:04 (KLZ_WT15)				07:35				08:49
	21:35	36	07:15 (SAM_WT05)	20:35	3	20:07 (KLZ_WT15)				17:23				16:47
Potential sun hours	498			451			380			333	269			248
Total, worst case		816			363			156				333		
Sun reduction		0,45			0,47			0,43				0,27		
Oper. time red.		0,97			0,97			0,97				0,97		
Wind dir. red.		0,62			0,67			0,62				0,55		
Total reduction		0,27			0,31			0,26				0,14		
Total, real		221			111			41				48		

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January			February			March			April			May			June		
1	08:50		09:31 (RHR_WT02)	08:24		08:50 (MVZ_WT02)	07:32		07:55 (MXS_WT01)	07:23		19:43 (KLZ_WT16)	06:20		06:44 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:48	19	09:50 (RHR_WT02)	17:35	40	17:06 (NES_WT01)	18:25	22	08:17 (MXS_WT01)	20:17	8	19:51 (KLZ_WT16)	21:06	6	06:50 (SAM_WT05)	21:50	34	06:40 (CBR_WT01)
2	08:49		09:32 (RHR_WT02)	08:22		08:48 (MVZ_WT02)	07:30		07:53 (MXS_WT01)	07:21		19:43 (KLZ_WT16)	06:18		06:42 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:49	19	09:51 (RHR_WT02)	17:36	41	17:07 (NES_WT01)	18:26	25	08:18 (MXS_WT01)	20:19	10	19:53 (KLZ_WT16)	21:08	8	06:50 (SAM_WT05)	21:52	34	06:41 (CBR_WT01)
3	08:49		09:31 (RHR_WT02)	08:21		08:46 (MVZ_WT02)	07:28		07:53 (MXS_WT01)	07:19		19:43 (KLZ_WT16)	06:16		06:41 (SAM_WT05)	05:35		06:03 (SAM_WT11)
	16:50	19	09:50 (RHR_WT02)	17:38	41	17:08 (NES_WT01)	18:28	26	08:19 (MXS_WT01)	20:20	12	19:55 (KLZ_WT16)	21:09	10	06:51 (SAM_WT05)	21:53	34	06:40 (CBR_WT01)
4	08:49		09:33 (RHR_WT02)	08:19		08:46 (MVZ_WT02)	07:26		07:52 (MXS_WT01)	07:17		19:43 (KLZ_WT16)	06:15		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:51	18	09:51 (RHR_WT02)	17:40	37	17:08 (NES_WT01)	18:30	27	08:19 (MXS_WT01)	20:22	14	19:57 (KLZ_WT16)	21:11	13	20:43 (KLZ_WT15)	21:54	36	06:40 (CBR_WT01)
5	08:49		09:34 (RHR_WT02)	08:18		08:47 (MVZ_WT02)	07:24		07:51 (MXS_WT01)	07:14		19:43 (KLZ_WT16)	06:13		06:37 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:53	17	09:51 (RHR_WT02)	17:42	27	17:07 (NES_WT01)	18:32	27	08:18 (MXS_WT01)	20:24	15	19:58 (KLZ_WT16)	21:13	16	20:44 (KLZ_WT15)	21:55	36	06:41 (CBR_WT01)
6	08:49		09:34 (RHR_WT02)	08:16		08:49 (MVZ_WT02)	07:21		07:51 (MXS_WT01)	07:12		19:43 (KLZ_WT16)	06:11		06:36 (SAM_WT05)	05:33		06:01 (SAM_WT11)
	16:54	16	09:50 (RHR_WT02)	17:44	12	17:06 (NES_WT01)	18:33	27	08:18 (MXS_WT01)	20:25	13	19:56 (KLZ_WT16)	21:14	21	20:46 (KLZ_WT15)	21:55	37	06:41 (CBR_WT01)
7	08:48		09:35 (RHR_WT02)	08:14			07:19		07:51 (MXS_WT01)	07:10		19:45 (KLZ_WT16)	06:09		06:34 (SAM_WT05)	05:32		06:01 (SAM_WT11)
	16:55	16	09:51 (RHR_WT02)	17:45			18:35	27	08:18 (MXS_WT01)	20:27	9	19:54 (KLZ_WT16)	21:16	24	20:47 (KLZ_WT15)	21:56	37	06:41 (CBR_WT01)
8	08:48		09:36 (RHR_WT02)	08:13			07:17		07:51 (MXS_WT01)	07:08		19:48 (KLZ_WT16)	06:08		06:32 (SAM_WT04)	05:32		06:01 (SAM_WT11)
	16:56	14	09:50 (RHR_WT02)	17:47			18:37	27	08:18 (MXS_WT01)	20:29	2	19:50 (KLZ_WT16)	21:17	25	20:48 (KLZ_WT15)	21:57	37	06:42 (CBR_WT01)
9	08:47		09:38 (RHR_WT02)	08:11			07:15		07:52 (MXS_WT01)	07:05			06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:58	12	09:50 (RHR_WT02)	17:49			18:39	25	08:17 (MXS_WT01)	20:30			21:19	28	20:50 (KLZ_WT15)	21:58	36	06:41 (CBR_WT01)
10	08:47		09:39 (RHR_WT02)	08:09			07:13		07:51 (MXS_WT01)	07:03			06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:59	10	09:49 (RHR_WT02)	17:51			18:40	24	08:15 (MXS_WT01)	20:32			21:21	27	20:51 (KLZ_WT15)	21:59	38	06:42 (CBR_WT01)
11	08:46		09:41 (RHR_WT02)	08:08			07:10		07:52 (MXS_WT01)	07:01			06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	17:00	7	09:48 (RHR_WT02)	17:53			18:42	22	08:14 (MXS_WT01)	20:33			21:22	28	20:53 (KLZ_WT15)	22:00	37	06:42 (CBR_WT01)
12	08:46		09:14 (RHR_WT01)	08:06			07:08		07:54 (MXS_WT01)	06:59			06:01		06:26 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:02	3	09:17 (RHR_WT01)	17:54			18:44	19	08:13 (MXS_WT01)	20:35			21:24	22	20:54 (KLZ_WT15)	22:00	36	06:41 (CBR_WT01)
13	08:45		09:14 (RHR_WT01)	08:04			07:06		07:56 (MXS_WT01)	06:57			05:59		06:25 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:03	5	09:19 (RHR_WT01)	17:56			18:45	14	08:10 (MXS_WT01)	20:37			21:25	22	20:54 (KLZ_WT15)	22:01	37	06:42 (CBR_WT01)
14	08:44		09:13 (RHR_WT01)	08:02			07:04		07:58 (MXS_WT01)	06:55			05:58		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:05	8	09:21 (RHR_WT01)	17:58			18:47	8	08:06 (MXS_WT01)	20:38			21:27	20	20:52 (KLZ_WT15)	22:01	35	06:42 (CBR_WT01)
15	08:44		09:12 (RHR_WT01)	08:00			07:02			06:52			05:56		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:06	10	09:22 (RHR_WT01)	18:00			18:49			20:40			21:28	18	20:52 (KLZ_WT15)	22:02	35	06:42 (CBR_WT01)
16	08:43		09:11 (RHR_WT01)	07:58			06:59			06:50			05:55		06:25 (SAM_WT04)	05:30		06:02 (SAM_WT11)
	17:08	12	09:23 (RHR_WT01)	18:02			18:50			20:42			21:30	12	20:51 (KLZ_WT15)	22:03	35	06:43 (CBR_WT01)
17	08:42		09:10 (MVZ_WT01)	07:56		08:20 (MVN_WT01)	06:57			06:48			05:54			05:30		06:02 (SAM_WT11)
	17:09	14	09:24 (RHR_WT01)	18:03	1	08:21 (MVN_WT01)	18:52			20:43			21:31			22:03	34	06:43 (CBR_WT01)
18	08:41		09:09 (MVZ_WT01)	07:55		08:18 (MVN_WT01)	06:55			06:46			05:52		06:24 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:11	16	09:25 (RHR_WT01)	18:05	5	08:23 (MVN_WT01)	18:54			20:45			21:32	3	06:27 (CBR_WT01)	22:03	33	06:43 (CBR_WT01)
19	08:40		09:08 (MVZ_WT01)	07:53		08:16 (MVN_WT01)	06:53			06:44			05:51		06:21 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:12	18	09:26 (RHR_WT01)	18:07	9	08:25 (MVN_WT01)	18:55			20:47			21:34	10	06:31 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
20	08:39		09:06 (MVZ_WT01)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:14	20	09:26 (RHR_WT01)	18:09	11	08:25 (MVN_WT01)	18:57			20:48			21:35	14	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
21	08:38		09:05 (MVZ_WT01)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:17 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:16	22	09:27 (RHR_WT01)	18:11	14	08:26 (MVN_WT01)	18:59			20:50			21:37	16	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
22	08:37		09:04 (MVZ_WT01)	07:47		08:11 (MVN_WT01)	06:46			06:38			05:47		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:17	24	09:28 (RHR_WT01)	18:12	15	08:26 (MVN_WT01)	19:00			20:52			21:38	19	06:35 (CBR_WT01)	22:04	33	06:44 (CBR_WT01)
23	08:36		09:03 (MVZ_WT01)	07:45		08:11 (MVN_WT01)	06:44			06:36			05:46		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:19	25	09:28 (RHR_WT01)	18:14	15	08:26 (MVN_WT01)	19:02			20:53			21:39	20	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
24	08:35		09:01 (MVZ_WT01)	07:43		08:11 (MVN_WT01)	06:41			06:34			05:44		06:15 (CBR_WT01)	05:31		06:04 (SAM_WT11)
	17:21	27	09:28 (RHR_WT01)	18:16	14	08:25 (MVN_WT01)	19:04			20:55			21:41	21	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
25	08:34		09:02 (MVZ_WT01)	07:41		08:05 (MXS_WT01)	06:39			06:32			05:43		06:15 (CBR_WT01)	05:31		06:05 (SAM_WT11)
	17:22	27	09:29 (RHR_WT01)	18:18	15	08:24 (MVN_WT01)	19:05			20:56			21:42	22	06:37 (CBR_WT01)	22:05	33	06:45 (CBR_WT01)
26	08:32		09:03 (RHR_WT01)	07:38		08:02 (MXS_WT01)	06:37			06:30			05:42		06:09 (SAM_WT11)	05:31		06:04 (SAM_WT11)
	17:24	26	09:29 (RHR_WT01)	18:19	19	08:22 (MVN_WT01)	19:07			20:58			21:43	24	06:37 (CBR_WT01)	22:05	34	06:45 (CBR_WT01)
27	08:31		09:03 (RHR_WT01)	07:36		08:00 (MXS_WT01)	06:35			06:28			05:41		06:08 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:26	26	09:29 (RHR_WT01)	18:21	15	08:15 (MXS_WT01)	19:09			21:00			21:45	26	06:38 (CBR_WT01)	22:05	34	06:44 (CBR_WT01)
28	08:30		09:03 (RHR_WT01)	07:34		07:57 (MXS_WT01)	06:32			06:26			05:40		06:07 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:28	29	16:58 (NES_WT01)	18:23	19	08:16 (MXS_WT01)	19:10			21:01			21:46	28	06:38 (CBR_WT01)	22:05	35	06:45 (CBR_WT01)
29	08:28		08:54 (MVZ_WT02)				07:30			06:24			05:39		06:07 (SAM_WT11)	05:33		06:05 (SAM_WT11)
	17:29	31	16:59 (NES_WT01)				20:12			21:03			21:47	29	06:39 (CBR_WT01)	22:05	35	06:46 (CBR_WT01)
30	08:27		08:53 (MVZ_WT02)				07:28		19:46 (KLZ_WT16)	06:22		06:46 (SAM_WT05)	05:38		06:06 (SAM_WT11)	05:33		06:04 (SAM_WT11)
	17:31	34	17:02 (NES_WT01)				20:14	3	19:49 (KLZ_WT16)	21:05	3	06:49 (SAM_WT05)	21:48	31	06:40 (CBR_WT01)	22:04	37	06:46 (CBR_WT01)
31	08:25		08:51 (MVZ_WT02)				07:26		19:45 (KLZ_WT16)				05:37		06:05 (SAM_WT11)			
	17:33	37	17:03 (NES_WT01)				20:15	5	19:50 (KLZ_WT16)				21:49	32	06:40 (CBR_WT01)			
Potential sun hours	262			279			367			414			482			495		
Total, worst case		581			350			328			86			595			1047	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,55			0,58			0,55			0,61			0,67			0,70	
Total reduction		0,13			0,17			0,20			0,27			0,30			0,30	
Total, real		77			59			67			24			176			317	

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT11)	06:09		06:37 (SAM_WT04)	06:57			07:44		08:33 (MXS_WT01)	07:36			08:26		09:23 (RHR_WT02)
	22:04	37	06:46 (CBR_WT01)	21:34	26	21:04 (KLZ_WT15)	20:33			19:25	18	08:51 (MXS_WT01)	17:21			16:42	7	09:30 (RHR_WT02)
2	05:34		06:04 (SAM_WT11)	06:11		06:39 (SAM_WT04)	06:59			07:46		08:32 (MXS_WT01)	07:38			08:27		09:22 (RHR_WT02)
	22:04	38	06:46 (CBR_WT01)	21:32	27	21:03 (KLZ_WT15)	20:31			19:23	20	08:52 (MXS_WT01)	17:19			16:41	10	09:32 (RHR_WT02)
3	05:35		06:05 (SAM_WT11)	06:12		06:40 (SAM_WT04)	07:00			07:48		08:30 (MXS_WT01)	07:40			08:29		09:21 (RHR_WT02)
	22:03	37	06:46 (CBR_WT01)	21:30	28	21:01 (KLZ_WT15)	20:29			19:21	23	08:53 (MXS_WT01)	17:17			16:41	12	09:33 (RHR_WT02)
4	05:36		06:06 (SAM_WT11)	06:14		06:41 (SAM_WT04)	07:02		19:46 (KLZ_WT16)	07:49		08:29 (MXS_WT01)	07:42		16:30 (NES_WT01)	08:30		09:21 (RHR_WT02)
	22:03	37	06:47 (CBR_WT01)	21:29	25	20:59 (KLZ_WT15)	20:27	1	19:47 (KLZ_WT16)	19:19	25	08:54 (MXS_WT01)	17:16	3	16:33 (NES_WT01)	16:40	14	09:35 (RHR_WT02)
5	05:37		06:06 (SAM_WT11)	06:15		06:45 (SAM_WT05)	07:03		19:42 (KLZ_WT16)	07:51		08:28 (MXS_WT01)	07:43		08:18 (MVZ_WT02)	08:31		09:21 (RHR_WT02)
	22:03	36	06:46 (CBR_WT01)	21:27	24	20:58 (KLZ_WT15)	20:24	9	19:51 (KLZ_WT16)	19:16	26	08:54 (MXS_WT01)	17:14	14	16:36 (NES_WT01)	16:40	15	09:36 (RHR_WT02)
6	05:38		06:07 (SAM_WT11)	06:17		06:44 (SAM_WT05)	07:05		19:39 (KLZ_WT16)	07:53		08:27 (MXS_WT01)	07:45		08:17 (MVZ_WT02)	08:33		09:20 (RHR_WT02)
	22:02	37	06:47 (CBR_WT01)	21:25	23	20:56 (KLZ_WT15)	20:22	13	19:52 (KLZ_WT16)	19:14	27	08:54 (MXS_WT01)	17:12	29	16:37 (NES_WT01)	16:40	16	09:36 (RHR_WT02)
7	05:38		06:08 (SAM_WT11)	06:18		06:46 (SAM_WT05)	07:07		19:38 (KLZ_WT16)	07:54		08:27 (MXS_WT01)	07:47		08:16 (MVZ_WT02)	08:34		09:20 (RHR_WT02)
	22:02	36	06:47 (CBR_WT01)	21:23	19	20:55 (KLZ_WT15)	20:20	15	19:53 (KLZ_WT16)	19:12	27	08:54 (MXS_WT01)	17:11	37	16:38 (NES_WT01)	16:39	17	09:37 (RHR_WT02)
8	05:39		06:09 (SAM_WT11)	06:20		06:47 (SAM_WT05)	07:08		19:37 (KLZ_WT16)	07:56		08:27 (MXS_WT01)	07:49		08:17 (MVZ_WT02)	08:35		09:21 (RHR_WT02)
	22:01	35	06:47 (CBR_WT01)	21:22	16	20:53 (KLZ_WT15)	20:18	14	19:51 (KLZ_WT16)	19:10	27	08:54 (MXS_WT01)	17:09	42	16:39 (NES_WT01)	16:39	18	09:39 (RHR_WT02)
9	05:40		06:10 (SAM_WT11)	06:21		06:49 (SAM_WT05)	07:10		19:37 (KLZ_WT16)	07:57		08:26 (MXS_WT01)	07:50		08:19 (MVZ_WT02)	08:36		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:20	11	07:00 (SAM_WT05)	20:15	12	19:49 (KLZ_WT16)	19:08	27	08:53 (MXS_WT01)	17:07	42	16:38 (NES_WT01)	16:39	18	09:39 (RHR_WT02)
10	05:41		06:11 (SAM_WT11)	06:23		06:50 (SAM_WT05)	07:11		19:36 (KLZ_WT16)	07:59		08:26 (MXS_WT01)	07:52		08:21 (MVZ_WT02)	08:37		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:18	9	06:59 (SAM_WT05)	20:13	10	19:46 (KLZ_WT16)	19:05	27	08:53 (MXS_WT01)	17:06	39	16:36 (NES_WT01)	16:38	19	09:40 (RHR_WT02)
11	05:42		06:12 (SAM_WT11)	06:24		06:51 (SAM_WT05)	07:13		19:36 (KLZ_WT16)	08:01		08:27 (MXS_WT01)	07:54		08:22 (MVZ_WT02)	08:38		09:21 (RHR_WT02)
	21:59	33	06:48 (CBR_WT01)	21:16	7	06:58 (SAM_WT05)	20:11	9	19:45 (KLZ_WT16)	19:03	25	08:52 (MXS_WT01)	17:04	37	16:34 (NES_WT01)	16:38	19	09:40 (RHR_WT02)
12	05:43		06:13 (SAM_WT11)	06:26		06:53 (SAM_WT05)	07:14		19:36 (KLZ_WT16)	08:02		08:27 (MXS_WT01)	07:56		08:24 (MVZ_WT02)	08:39		09:21 (RHR_WT02)
	21:58	32	06:48 (CBR_WT01)	21:14	5	06:58 (SAM_WT05)	20:09	6	19:42 (KLZ_WT16)	19:01	24	08:51 (MXS_WT01)	17:03	34	16:32 (NES_WT01)	16:38	20	09:41 (RHR_WT02)
13	05:44		06:14 (SAM_WT11)	06:27		06:54 (SAM_WT05)	07:16		19:37 (KLZ_WT16)	08:04		08:29 (MXS_WT01)	07:57		08:35 (RHR_WT01)	08:40		09:21 (RHR_WT02)
	21:57	32	06:48 (CBR_WT01)	21:12	2	06:56 (SAM_WT05)	20:06	3	19:40 (KLZ_WT16)	18:59	21	08:50 (MXS_WT01)	17:01	30	16:31 (NES_WT01)	16:38	20	09:41 (RHR_WT02)
14	05:45		06:15 (SAM_WT11)	06:29			07:17			08:06		08:31 (MXS_WT01)	07:59		08:35 (RHR_WT01)	08:41		09:22 (RHR_WT02)
	21:56	31	06:48 (CBR_WT01)	21:11			20:04			18:57	18	08:49 (MXS_WT01)	17:00	27	16:29 (NES_WT01)	16:38	20	09:42 (RHR_WT02)
15	05:46		06:16 (SAM_WT11)	06:30			07:19			08:07		08:33 (MXS_WT01)	08:01		08:36 (RHR_WT01)	08:42		09:22 (RHR_WT02)
	21:55	29	06:48 (CBR_WT01)	21:09			20:02			18:55	20	08:53 (MVN_WT01)	16:59	26	09:02 (RHR_WT01)	16:38	21	09:43 (RHR_WT02)
16	05:48		06:17 (SAM_WT11)	06:32			07:21			08:09		08:34 (MXS_WT01)	08:02		08:36 (RHR_WT01)	08:43		09:23 (RHR_WT02)
	21:54	27	06:48 (CBR_WT01)	21:07			20:00			18:53	19	08:54 (MVN_WT01)	16:57	26	09:02 (RHR_WT01)	16:38	21	09:44 (RHR_WT02)
17	05:49		06:18 (SAM_WT11)	06:34			07:22			08:11		08:43 (MVN_WT01)	08:04		08:36 (MVZ_WT01)	08:44		09:23 (RHR_WT02)
	21:53	25	06:47 (CBR_WT01)	21:05			19:57			18:50	13	08:56 (MVN_WT01)	16:56	27	09:03 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
18	05:50		06:24 (CBR_WT01)	06:35			07:24			08:12		08:42 (MVN_WT01)	08:06		08:35 (MVZ_WT01)	08:45		09:23 (RHR_WT02)
	21:52	23	06:47 (CBR_WT01)	21:03			19:55			18:48	15	08:57 (MVN_WT01)	16:55	27	09:02 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
19	05:51		06:24 (CBR_WT01)	06:37			07:25			08:14		08:42 (MVN_WT01)	08:07		08:37 (MVZ_WT01)	08:45		09:24 (RHR_WT02)
	21:51	22	06:46 (CBR_WT01)	21:01			19:53			18:46	15	08:57 (MVN_WT01)	16:53	25	09:02 (RHR_WT01)	16:39	21	09:45 (RHR_WT02)
20	05:53		06:26 (CBR_WT01)	06:38			07:27			08:16		08:42 (MVN_WT01)	08:09		08:39 (MVZ_WT01)	08:46		09:25 (RHR_WT02)
	21:50	20	06:46 (CBR_WT01)	20:59			19:50			18:44	15	08:57 (MVN_WT01)	16:52	24	09:03 (RHR_WT01)	16:39	21	09:46 (RHR_WT02)
21	05:54		06:27 (CBR_WT01)	06:40			07:28			08:17		08:43 (MVN_WT01)	08:11		08:41 (MVZ_WT01)	08:46		09:24 (RHR_WT02)
	21:49	19	06:46 (CBR_WT01)	20:57			19:48			18:42	13	08:56 (MVN_WT01)	16:51	22	09:03 (RHR_WT01)	16:40	22	09:46 (RHR_WT02)
22	05:55		06:27 (CBR_WT01)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (MVZ_WT01)	08:47		09:25 (RHR_WT02)
	21:48	18	06:45 (CBR_WT01)	20:55			19:46			18:40	11	08:56 (MVN_WT01)	16:50	20	09:03 (RHR_WT01)	16:40	22	09:47 (RHR_WT02)
23	05:56		06:28 (CBR_WT01)	06:43			07:32			08:21		08:47 (MVN_WT01)	08:14		08:44 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:46	15	06:43 (CBR_WT01)	20:52			19:44			18:38	8	08:55 (MVN_WT01)	16:49	18	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
24	05:58		06:30 (CBR_WT01)	06:45			07:33			08:23		08:49 (MVN_WT01)	08:15		08:46 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:45	13	06:43 (CBR_WT01)	20:50			19:41			18:36	4	08:53 (MVN_WT01)	16:48	16	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
25	05:59		06:32 (CBR_WT01)	06:46			07:35			07:24			08:17		08:48 (MVZ_WT01)	08:48		09:27 (RHR_WT02)
	21:44	8	06:40 (CBR_WT01)	20:48			19:39			17:34			16:47	14	09:02 (RHR_WT01)	16:42	21	09:48 (RHR_WT02)
26	06:01			06:48			07:36			07:26			08:19		08:49 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:42			20:46			19:37			17:32			16:46	12	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
27	06:02		20:55 (KLZ_WT15)	06:49			07:38			07:28			08:20		08:51 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:41	4	20:59 (KLZ_WT15)	20:44			19:34			17:30			16:45	10	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
28	06:03		06:34 (SAM_WT04)	06:51			07:40			07:30			08:22		08:53 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:40	15	21:02 (KLZ_WT15)	20:42			19:32			17:28			16:44	8	09:01 (RHR_WT01)	16:44	21	09:49 (RHR_WT02)
29	06:05		06:33 (SAM_WT04)	06:52			07:41		08:41 (MXS_WT01)	07:31			08:23		08:54 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:38	20	21:03 (KLZ_WT15)	20:40			19:30	4	08:45 (MXS_WT01)	17:26			16:44	6	09:00 (RHR_WT01)	16:45	21	09:49 (RHR_WT02)
30	06:06		06:34 (SAM_WT04)	06:54			07:43		08:35 (MXS_WT01)	07:33			08:25		08:56 (RHR_WT01)	08:49		09:29 (RHR_WT02)
	21:37	20	21:03 (KLZ_WT15)	20:38			19:28	13	08:48 (MXS_WT01)	17:25			16:43	3	08:59 (RHR_WT01)	16:46	20	09:49 (RHR_WT02)
31	06:08		06:36 (SAM_WT04)	06:56						07:35						08:49		09:30 (RHR_WT02)
	21:35	22	21:04 (KLZ_WT15)	20:35						17:23						16:47	20	09:50 (RHR_WT02)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		791			222			109			468			618			582	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,69			0,64			0,60			0,55			0,57			0,54	
Total reduction		0,30			0,29			0,25			0,20			0,15			0,12	
Total, real		239			65			28			91			91			68	

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January			February			March			April			May			June		
1	08:50		09:23 (RHR_WT03)	08:24		08:50 (MVZ_WT01)	07:32		08:04 (MVN_WT01)	07:23		19:36 (KLZ_WT16)	06:20		06:44 (CBR_WT01)	05:36		06:14 (KLZ_WT19)
	16:48	42	10:22 (ALB_WT01)	17:35	6	08:56 (MVZ_WT01)	18:25	4	08:08 (MVN_WT01)	20:17	16	19:52 (KLZ_WT16)	21:06	14	06:58 (CBR_WT01)	21:50	53	21:19 (KLZ_WT15)
2	08:49		09:23 (RHR_WT03)	08:23		08:48 (MVZ_WT01)	07:30			07:21		19:34 (KLZ_WT16)	06:18		06:42 (CBR_WT01)	05:36		06:14 (KLZ_WT19)
	16:49	41	10:22 (ALB_WT01)	17:36	7	08:55 (MVZ_WT01)	18:27			20:19	19	19:53 (KLZ_WT16)	21:08	16	06:58 (CBR_WT01)	21:52	54	21:20 (KLZ_WT15)
3	08:49		09:23 (RHR_WT03)	08:21		08:46 (MVZ_WT01)	07:28		07:51 (MXS_WT01)	07:19		19:33 (KLZ_WT16)	06:16		06:41 (CBR_WT01)	05:35		06:14 (KLZ_WT19)
	16:50	40	10:21 (ALB_WT01)	17:38	9	08:55 (MVZ_WT01)	18:28	1	07:52 (MXS_WT01)	20:20	22	19:55 (KLZ_WT16)	21:09	19	07:00 (CBR_WT01)	21:53	55	21:21 (KLZ_WT15)
4	08:49		09:24 (RHR_WT03)	08:19		08:45 (RHR_WT01)	07:26		07:49 (MXS_WT01)	07:17		19:33 (KLZ_WT16)	06:15		06:39 (SAM_WT04)	05:34		06:13 (KLZ_WT19)
	16:51	41	16:18 (NES_WT01)	17:40	10	08:55 (MVZ_WT01)	18:30	5	07:54 (MXS_WT01)	20:22	23	19:56 (KLZ_WT16)	21:11	21	07:00 (CBR_WT01)	21:54	56	21:21 (KLZ_WT15)
5	08:49		09:25 (RHR_WT03)	08:18		08:43 (RHR_WT01)	07:24		07:46 (MXS_WT01)	07:14		19:33 (KLZ_WT16)	06:13		06:40 (CBR_WT01)	05:34		06:14 (KLZ_WT19)
	16:53	38	16:19 (NES_WT01)	17:42	12	08:55 (RHR_WT01)	18:32	8	07:54 (MXS_WT01)	20:24	23	19:56 (KLZ_WT16)	21:13	19	06:59 (CBR_WT01)	21:55	56	21:22 (KLZ_WT15)
6	08:49		09:25 (RHR_WT03)	08:16		08:41 (RHR_WT01)	07:21		07:44 (MXS_WT01)	07:12		19:32 (KLZ_WT16)	06:11		06:40 (CBR_WT01)	05:33		06:14 (KLZ_WT19)
	16:54	38	16:20 (NES_WT01)	17:44	15	08:56 (RHR_WT01)	18:33	11	07:55 (MXS_WT01)	20:25	23	19:55 (KLZ_WT16)	21:14	20	07:00 (CBR_WT01)	21:56	55	21:21 (KLZ_WT15)
7	08:48		09:26 (RHR_WT03)	08:15		08:39 (RHR_WT01)	07:19		07:42 (MXS_WT01)	07:10		19:32 (KLZ_WT16)	06:09		06:40 (CBR_WT01)	05:32		06:01 (SAM_WT07)
	16:55	34	16:22 (NES_WT01)	17:45	17	08:56 (RHR_WT01)	18:35	13	07:55 (MXS_WT01)	20:27	23	19:55 (KLZ_WT16)	21:16	20	07:00 (CBR_WT01)	21:56	58	21:22 (KLZ_WT15)
8	08:48		09:26 (RHR_WT03)	08:13		08:38 (RHR_WT01)	07:17		07:40 (MXS_WT01)	07:08		19:32 (KLZ_WT16)	06:08		06:39 (CBR_WT01)	05:32		06:01 (SAM_WT07)
	16:56	33	16:23 (NES_WT01)	17:47	18	08:56 (RHR_WT01)	18:37	16	07:56 (MXS_WT01)	20:29	22	19:54 (KLZ_WT16)	21:17	20	06:59 (CBR_WT01)	21:57	58	21:23 (KLZ_WT15)
9	08:47		09:27 (RHR_WT03)	08:11		08:36 (RHR_WT01)	07:15		07:38 (MXS_WT01)	07:06		19:33 (KLZ_WT16)	06:06		06:40 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	16:58	35	16:25 (NES_WT01)	17:49	20	08:56 (RHR_WT01)	18:39	17	07:55 (MXS_WT01)	20:30	20	19:53 (KLZ_WT16)	21:19	19	06:59 (CBR_WT01)	21:58	60	21:22 (KLZ_WT15)
10	08:47		09:27 (RHR_WT03)	08:09		08:34 (MVZ_WT02)	07:13		07:37 (MXS_WT01)	07:03		19:34 (KLZ_WT16)	06:04		06:40 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	16:59	35	16:26 (NES_WT01)	17:51	21	08:55 (RHR_WT01)	18:40	17	07:54 (MXS_WT01)	20:32	18	19:52 (KLZ_WT16)	21:21	18	06:58 (CBR_WT01)	21:59	60	21:23 (KLZ_WT15)
11	08:46		09:15 (RHR_WT02)	08:08		08:32 (MVZ_WT02)	07:10		07:38 (MXS_WT01)	07:01		19:35 (KLZ_WT16)	06:03		06:41 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	17:00	37	16:27 (NES_WT01)	17:53	23	08:55 (RHR_WT01)	18:42	15	07:53 (MXS_WT01)	20:33	16	19:51 (KLZ_WT16)	21:22	17	06:58 (CBR_WT01)	22:00	61	21:23 (KLZ_WT15)
12	08:46		09:14 (RHR_WT02)	08:06		08:38 (RHR_WT01)	07:08		07:39 (MXS_WT01)	06:59		19:36 (KLZ_WT16)	06:01		06:26 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:02	41	16:29 (NES_WT01)	17:55	16	08:54 (RHR_WT01)	18:44	13	07:52 (MXS_WT01)	20:35	12	19:48 (KLZ_WT16)	21:24	16	06:56 (CBR_WT01)	22:00	60	21:22 (KLZ_WT15)
13	08:45		09:14 (RHR_WT02)	08:04		08:39 (RHR_WT01)	07:06		07:40 (MXS_WT01)	06:57		19:40 (KLZ_WT16)	06:00		06:25 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:03	42	16:31 (NES_WT01)	17:56	13	08:52 (RHR_WT01)	18:45	10	07:50 (MXS_WT01)	20:37	4	19:44 (KLZ_WT16)	21:25	15	06:56 (CBR_WT01)	22:01	63	21:23 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02		08:42 (RHR_WT01)	07:04			06:55			05:58		06:23 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:05	44	16:32 (NES_WT01)	17:58	8	08:50 (RHR_WT01)	18:47			20:38			21:27	12	06:53 (CBR_WT01)	22:01	62	21:23 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00			07:02			06:52			05:56		06:22 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:06	45	16:32 (NES_WT01)	18:00			18:49			20:40			21:28	8	06:51 (CBR_WT01)	22:02	61	21:23 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58			06:59			06:50			05:55		06:21 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:08	44	16:32 (NES_WT01)	18:02			18:50			20:42			21:30	5	06:26 (SAM_WT11)	22:03	63	21:24 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:56			06:57			06:48			05:54		06:19 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:09	44	16:33 (NES_WT01)	18:04			18:52			20:43			21:31	7	06:29 (KLZ_WT19)	22:03	63	21:24 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55			06:55			06:46			05:52		06:18 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:11	42	16:33 (NES_WT01)	18:05			18:54			20:45			21:33	16	06:34 (KLZ_WT19)	22:03	63	21:24 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53			06:53			06:44			05:51		06:17 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:12	41	16:33 (NES_WT01)	18:07			18:55			20:47			21:34	20	06:37 (KLZ_WT19)	22:04	63	21:24 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51			06:50			06:42			05:49		06:20 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:14	36	16:33 (NES_WT01)	18:09			18:57			20:48			21:35	18	06:38 (KLZ_WT19)	22:04	64	21:24 (KLZ_WT15)
21	08:38		09:05 (RHR_WT02)	07:49			06:48			06:40		07:03 (SAM_WT05)	05:48		06:19 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:16	30	16:32 (NES_WT01)	18:11			18:59			20:50	2	07:05 (SAM_WT05)	21:37	21	06:40 (KLZ_WT19)	22:04	64	21:24 (KLZ_WT15)
22	08:37		09:05 (RHR_WT02)	07:47		08:10 (MVN_WT01)	06:46			06:38		07:01 (SAM_WT05)	05:47		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:17	28	16:32 (NES_WT01)	18:12	2	08:12 (MVN_WT01)	19:00			20:52	4	07:05 (SAM_WT05)	21:38	26	21:07 (KLZ_WT15)	22:05	64	21:25 (KLZ_WT15)
23	08:36		09:06 (RHR_WT02)	07:45		08:08 (MVN_WT01)	06:44			06:36		06:59 (SAM_WT05)	05:46		06:16 (KLZ_WT19)	05:30		06:00 (SAM_WT07)
	17:19	27	16:32 (NES_WT01)	18:14	5	08:13 (MVN_WT01)	19:02			20:53	6	07:05 (SAM_WT05)	21:39	32	21:09 (KLZ_WT15)	22:05	63	21:25 (KLZ_WT15)
24	08:35		09:06 (RHR_WT02)	07:43		08:06 (MVN_WT01)	06:41			06:34		06:57 (SAM_WT05)	05:44		06:16 (KLZ_WT10)	05:31		06:00 (SAM_WT07)
	17:21	21	16:30 (NES_WT01)	18:16	7	08:13 (MVN_WT01)	19:04			20:55	8	07:05 (SAM_WT05)	21:41	35	21:10 (KLZ_WT15)	22:05	63	21:25 (KLZ_WT15)
25	08:34		09:08 (RHR_WT02)	07:41		08:04 (MVN_WT01)	06:39			06:32		06:55 (SAM_WT05)	05:43		06:15 (KLZ_WT19)	05:31		06:01 (SAM_WT07)
	17:22	12	09:20 (RHR_WT02)	18:18	10	08:14 (MVN_WT01)	19:05			20:56	9	07:04 (SAM_WT05)	21:42	37	21:11 (KLZ_WT15)	22:05	63	21:26 (KLZ_WT15)
26	08:32		09:09 (RHR_WT02)	07:38		08:02 (MVN_WT01)	06:37			06:30		06:53 (SAM_WT05)	05:42		06:15 (KLZ_WT19)	05:31		06:01 (SAM_WT07)
	17:24	10	09:19 (RHR_WT02)	18:20	11	08:13 (MVN_WT01)	19:07			20:58	10	07:03 (SAM_WT05)	21:43	40	21:12 (KLZ_WT15)	22:05	63	21:26 (KLZ_WT15)
27	08:31		09:11 (RHR_WT02)	07:36		08:02 (MVN_WT01)	06:35			06:28		06:52 (SAM_WT05)	05:41		06:14 (KLZ_WT19)	05:32		06:02 (SAM_WT07)
	17:26	6	09:17 (RHR_WT02)	18:21	11	08:13 (MVN_WT01)	19:09			21:00	10	07:02 (SAM_WT05)	21:45	44	21:13 (KLZ_WT15)	22:05	62	21:26 (KLZ_WT15)
28	08:30			07:34		08:02 (MVN_WT01)	06:32			06:26		06:53 (SAM_WT05)	05:40		06:14 (KLZ_WT19)	05:32		06:02 (SAM_WT07)
	17:28			18:23	9	08:11 (MVN_WT01)	19:10			21:01	7	07:00 (SAM_WT05)	21:46	45	21:14 (KLZ_WT15)	22:05	62	21:26 (KLZ_WT15)
29	08:28						07:30		19:42 (KLZ_WT16)	06:24		06:48 (CBR_WT01)	05:39		06:15 (KLZ_WT19)	05:33		06:03 (SAM_WT07)
	17:29						20:12	5	19:47 (KLZ_WT16)	21:03	8	06:56 (CBR_WT01)	21:47	47	21:16 (KLZ_WT15)	22:05	62	21:27 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		19:39 (KLZ_WT16)	06:22		06:46 (CBR_WT01)	05:38		06:14 (KLZ_WT19)	05:33		06:03 (SAM_WT07)
	17:31	2	08:55 (MVZ_WT01)				20:14	10	19:49 (KLZ_WT16)	21:05	11	06:57 (CBR_WT01)	21:48	49	21:17 (KLZ_WT15)	22:04	61	21:27 (KLZ_WT15)
31	08:25		08:51 (MVZ_WT01)				07:26		19:37 (KLZ_WT16)				05:37		06:14 (KLZ_WT19)			
	17:33	4	08:55 (MVZ_WT01)				20:15	13	19:50 (KLZ_WT16)				21:49	51	21:18 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		933			250			158			316			747			1815	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,58			0,55			0,57			0,62			0,67			0,66	
Total reduction		0,14			0,16			0,21			0,28			0,30			0,28	
Total, real		132			41			33			89			224			515	

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT07)	06:09		06:52 (CBR_WT01)	06:57		19:34 (KLZ_WT16)	07:44		08:18 (MXS_WT01)	07:37		08:04 (MVZ_WT02)	08:26		08:57 (RHR_WT02)
	22:04	61	21:27 (KLZ_WT15)	21:34	15	07:07 (CBR_WT01)	20:33	16	19:50 (KLZ_WT16)	19:25	12	08:30 (MXS_WT01)	17:21	21	08:25 (RHR_WT01)	16:42	36	16:09 (NES_WT01)
2	05:35		06:04 (SAM_WT07)	06:11		06:51 (CBR_WT01)	06:59		19:32 (KLZ_WT16)	07:46		08:17 (MXS_WT01)	07:38		08:06 (RHR_WT01)	08:27		09:10 (RHR_WT03)
	22:04	61	21:27 (KLZ_WT15)	21:32	17	07:08 (CBR_WT01)	20:31	18	19:50 (KLZ_WT16)	19:23	15	08:32 (MXS_WT01)	17:19	20	08:26 (RHR_WT01)	16:42	35	16:09 (NES_WT01)
3	05:35		06:05 (SAM_WT07)	06:12		06:50 (CBR_WT01)	07:00		19:31 (KLZ_WT16)	07:48		08:15 (MXS_WT01)	07:40		08:07 (RHR_WT01)	08:29		09:10 (RHR_WT03)
	22:03	59	21:27 (KLZ_WT15)	21:30	19	07:09 (CBR_WT01)	20:29	21	19:52 (KLZ_WT16)	19:21	17	08:32 (MXS_WT01)	17:17	18	08:25 (RHR_WT01)	16:41	35	16:08 (NES_WT01)
4	05:36		06:06 (SAM_WT07)	06:14		06:49 (CBR_WT01)	07:02		19:29 (KLZ_WT16)	07:49		08:15 (MXS_WT01)	07:42		08:09 (RHR_WT01)	08:30		09:11 (RHR_WT03)
	22:03	59	21:28 (KLZ_WT15)	21:29	20	07:09 (CBR_WT01)	20:27	22	19:51 (KLZ_WT16)	19:19	17	08:32 (MXS_WT01)	17:16	16	08:25 (RHR_WT01)	16:40	33	16:08 (NES_WT01)
5	05:37		06:07 (SAM_WT07)	06:15		06:50 (CBR_WT01)	07:03		19:29 (KLZ_WT16)	07:51		08:16 (MXS_WT01)	07:43		08:11 (RHR_WT01)	08:31		09:11 (RHR_WT03)
	22:03	58	21:28 (KLZ_WT15)	21:27	19	07:09 (CBR_WT01)	20:24	23	19:52 (KLZ_WT16)	19:16	17	08:33 (MXS_WT01)	17:14	14	08:25 (RHR_WT01)	16:40	32	16:07 (NES_WT01)
6	05:38		06:20 (KLZ_WT19)	06:17		06:49 (CBR_WT01)	07:05		19:28 (KLZ_WT16)	07:53		08:17 (MXS_WT01)	07:45		08:13 (RHR_WT01)	08:33		09:11 (RHR_WT03)
	22:02	56	21:28 (KLZ_WT15)	21:25	20	07:09 (CBR_WT01)	20:22	23	19:51 (KLZ_WT16)	19:14	14	08:31 (MXS_WT01)	17:12	12	08:25 (RHR_WT01)	16:40	37	16:06 (NES_WT01)
7	05:38		06:20 (KLZ_WT19)	06:18		06:50 (CBR_WT01)	07:07		19:28 (KLZ_WT16)	07:54		08:19 (MXS_WT01)	07:47		08:15 (MVZ_WT01)	08:34		09:12 (RHR_WT03)
	22:02	57	21:28 (KLZ_WT15)	21:24	20	07:10 (CBR_WT01)	20:20	23	19:51 (KLZ_WT16)	19:12	12	08:31 (MXS_WT01)	17:11	10	08:25 (MVZ_WT01)	16:39	38	16:06 (NES_WT01)
8	05:39		06:21 (KLZ_WT19)	06:20		06:49 (CBR_WT01)	07:08		19:27 (KLZ_WT16)	07:56		08:21 (MXS_WT01)	07:49		08:17 (MVZ_WT01)	08:35		09:12 (RHR_WT03)
	22:01	55	21:28 (KLZ_WT15)	21:22	20	07:09 (CBR_WT01)	20:18	23	19:50 (KLZ_WT16)	19:10	10	08:31 (MXS_WT01)	17:09	9	08:26 (MVZ_WT01)	16:39	40	16:06 (NES_WT01)
9	05:40		06:21 (KLZ_WT19)	06:21		06:49 (SAM_WT04)	07:10		19:28 (KLZ_WT16)	07:57		08:22 (MXS_WT01)	07:50		08:19 (MVZ_WT01)	08:36		09:12 (RHR_WT03)
	22:00	55	21:28 (KLZ_WT15)	21:20	20	07:09 (CBR_WT01)	20:15	21	19:49 (KLZ_WT16)	19:08	7	08:29 (MXS_WT01)	17:07	7	08:26 (MVZ_WT01)	16:39	40	10:10 (ALB_WT01)
10	05:41		06:21 (KLZ_WT19)	06:23		06:50 (CBR_WT01)	07:11		19:27 (KLZ_WT16)	07:59		08:24 (MXS_WT01)	07:52		08:21 (MVZ_WT01)	08:37		09:13 (RHR_WT03)
	22:00	55	21:28 (KLZ_WT15)	21:18	18	07:08 (CBR_WT01)	20:13	19	19:46 (KLZ_WT16)	19:05	3	08:27 (MXS_WT01)	17:06	6	08:27 (MVZ_WT01)	16:38	40	10:11 (ALB_WT01)
11	05:42		06:22 (KLZ_WT19)	06:24		06:51 (CBR_WT01)	07:13		19:28 (KLZ_WT16)	08:01			07:54		08:23 (MVZ_WT01)	08:38		09:13 (RHR_WT03)
	21:59	52	21:27 (KLZ_WT15)	21:16	16	07:07 (CBR_WT01)	20:11	17	19:45 (KLZ_WT16)	19:03			17:04	4	08:27 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
12	05:43		06:22 (KLZ_WT19)	06:26		06:53 (CBR_WT01)	07:14		19:28 (KLZ_WT16)	08:02			07:56		08:24 (MVZ_WT01)	08:39		09:13 (RHR_WT03)
	21:58	52	21:27 (KLZ_WT15)	21:14	13	07:06 (CBR_WT01)	20:09	14	19:42 (KLZ_WT16)	19:01			17:03	2	08:26 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
13	05:44		06:23 (KLZ_WT19)	06:27		06:54 (CBR_WT01)	07:16		19:30 (KLZ_WT16)	08:04		08:36 (MVN_WT01)	07:57			08:40		09:14 (RHR_WT03)
	21:57	50	21:26 (KLZ_WT15)	21:13	10	07:04 (CBR_WT01)	20:06	10	19:40 (KLZ_WT16)	18:59	7	08:43 (MVN_WT01)	17:01			16:38	42	10:13 (ALB_WT01)
14	05:45		06:23 (KLZ_WT19)	06:29		06:56 (CBR_WT01)	07:18		19:32 (KLZ_WT16)	08:06		08:34 (MVN_WT01)	07:59			08:41		09:14 (RHR_WT03)
	21:56	48	21:25 (KLZ_WT15)	21:11	7	07:03 (CBR_WT01)	20:04	5	19:37 (KLZ_WT16)	18:57	10	08:44 (MVN_WT01)	17:00			16:38	44	10:14 (ALB_WT01)
15	05:47		06:23 (KLZ_WT19)	06:30		07:01 (SAM_WT05)	07:19			08:07		08:34 (MVN_WT01)	08:01		08:44 (RHR_WT02)	08:42		09:15 (RHR_WT03)
	21:55	47	21:24 (KLZ_WT15)	21:09	7	07:08 (SAM_WT05)	20:02			18:55	11	08:45 (MVN_WT01)	16:59	6	08:50 (RHR_WT02)	16:38	44	10:15 (ALB_WT01)
16	05:48		06:24 (KLZ_WT19)	06:32		06:59 (SAM_WT05)	07:21			08:09		08:34 (MVN_WT01)	08:02		08:42 (RHR_WT02)	08:43		09:15 (RHR_WT03)
	21:54	43	21:23 (KLZ_WT15)	21:07	11	07:10 (SAM_WT05)	20:00			18:53	11	08:45 (MVN_WT01)	16:57	10	08:52 (RHR_WT02)	16:38	45	10:16 (ALB_WT01)
17	05:49		06:24 (KLZ_WT19)	06:34		07:00 (SAM_WT05)	07:22			08:11		08:36 (MVN_WT01)	08:04		08:42 (RHR_WT02)	08:44		09:16 (RHR_WT03)
	21:53	42	21:22 (KLZ_WT15)	21:05	10	07:10 (SAM_WT05)	19:57			18:50	9	08:45 (MVN_WT01)	16:56	12	08:54 (RHR_WT02)	16:39	46	10:17 (ALB_WT01)
18	05:50		06:25 (KLZ_WT10)	06:35		07:02 (SAM_WT05)	07:24			08:12		08:38 (MVN_WT01)	08:06		08:40 (RHR_WT02)	08:45		09:16 (RHR_WT03)
	21:52	38	21:21 (KLZ_WT15)	21:03	9	07:11 (SAM_WT05)	19:55			18:48	7	08:45 (MVN_WT01)	16:55	21	16:04 (NES_WT01)	16:39	44	10:16 (ALB_WT01)
19	05:51		06:25 (KLZ_WT10)	06:37		07:03 (SAM_WT05)	07:25			08:14		08:40 (MVN_WT01)	08:07		08:40 (RHR_WT02)	08:45		09:17 (RHR_WT03)
	21:51	37	21:20 (KLZ_WT15)	21:01	7	07:10 (SAM_WT05)	19:53			18:46	4	08:44 (MVN_WT01)	16:53	27	16:06 (NES_WT01)	16:39	44	10:17 (ALB_WT01)
20	05:53		06:27 (KLZ_WT10)	06:38		07:05 (SAM_WT05)	07:27			08:16		08:42 (MVN_WT01)	08:09		08:40 (RHR_WT02)	08:46		09:18 (RHR_WT03)
	21:50	33	21:20 (KLZ_WT15)	20:59	6	07:11 (SAM_WT05)	19:50			18:44	1	08:43 (MVN_WT01)	16:52	28	16:07 (NES_WT01)	16:39	45	10:18 (ALB_WT01)
21	05:54		06:27 (KLZ_WT10)	06:40		07:06 (SAM_WT05)	07:29			08:18			08:11		08:41 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	29	21:18 (KLZ_WT15)	20:57	4	07:10 (SAM_WT05)	19:48			18:42			16:51	30	16:08 (NES_WT01)	16:40	45	10:18 (ALB_WT01)
22	05:55		06:28 (KLZ_WT10)	06:41		07:08 (SAM_WT05)	07:30			08:19			08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	24	21:17 (KLZ_WT15)	20:55	1	07:09 (SAM_WT05)	19:46			18:40			16:50	36	16:09 (NES_WT01)	16:40	45	10:19 (ALB_WT01)
23	05:56		06:29 (KLZ_WT10)	06:43			07:32			08:21			08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	20	06:49 (KLZ_WT19)	20:53			19:44			18:38			16:49	41	16:09 (NES_WT01)	16:41	45	10:19 (ALB_WT01)
24	05:58		06:29 (SAM_WT11)	06:45			07:33			08:23			08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	19	06:48 (KLZ_WT19)	20:50			19:41			18:36			16:48	42	16:10 (NES_WT01)	16:41	45	10:19 (ALB_WT01)
25	05:59		06:28 (SAM_WT11)	06:46			07:35			07:24			08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	18	06:46 (KLZ_WT19)	20:48			19:39			17:34			16:47	44	16:11 (NES_WT01)	16:42	44	10:20 (ALB_WT01)
26	06:01		06:29 (SAM_WT11)	06:48			07:36			07:26			08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	14	06:43 (KLZ_WT19)	20:46			19:37			17:32			16:46	43	16:10 (NES_WT01)	16:43	46	10:21 (ALB_WT01)
27	06:02		06:30 (SAM_WT11)	06:49			07:38			07:28			08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	6	06:36 (SAM_WT11)	20:44			19:34			17:30			16:45	43	16:11 (NES_WT01)	16:43	45	10:21 (ALB_WT01)
28	06:03		06:32 (SAM_WT11)	06:51			07:40			07:30		08:11 (RHR_WT01)	08:22		08:53 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:40	5	06:37 (SAM_WT11)	20:42			19:32			17:28	9	08:20 (RHR_WT01)	16:44	44	16:12 (NES_WT01)	16:44	44	10:21 (ALB_WT01)
29	06:05		06:33 (SAM_WT11)	06:52			07:41			07:31		08:09 (RHR_WT01)	08:23		08:54 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:38	11	07:03 (CBR_WT01)	20:40			19:30			17:27	13	08:22 (RHR_WT01)	16:44	43	16:11 (NES_WT01)	16:45	44	10:21 (ALB_WT01)
30	06:06		06:34 (SAM_WT11)	06:54		19:41 (KLZ_WT16)	07:43		08:20 (MXS_WT01)	07:33		08:04 (MVZ_WT02)	08:25		08:56 (RHR_WT02)	08:49		09:22 (RHR_WT03)
	21:37	15	07:05 (CBR_WT01)	20:38	4	19:45 (KLZ_WT16)	19:28	8	08:28 (MXS_WT01)	17:25	17	08:23 (RHR_WT01)	16:43	41	16:11 (NES_WT01)	16:46	43	10:21 (ALB_WT01)
31	06:08		06:36 (SAM_WT11)	06:56		19:36 (KLZ_WT16)				07:35		08:02 (MVZ_WT02)				08:50		09:22 (RHR_WT03)
	21:35	15	07:06 (CBR_WT01)	20:35	12	19:48 (KLZ_WT16)				17:23	22	08:24 (RHR_WT01)				16:47	43	10:21 (ALB_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1194			305			263			245			650			1293	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,66			0,67			0,61			0,56			0,59			0,55	
Total reduction		0,29			0,30			0,26			0,20			0,15			0,12	
Total, real		346			92			68			49			100			156	

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 15 - Hageland 14, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January			February			March			April			May			June
1	08:50		09:20 (ATS_WT01)	08:24			07:32		07:55 (ALB_WT01)	07:23			06:20		07:00 (KLZ_WT16)	05:37
	16:48	11	09:31 (ATS_WT01)	17:35			18:25	7	08:02 (ALB_WT01)	20:17			21:06	25	07:25 (KLZ_WT16)	21:51
2	08:50		09:20 (ATS_WT01)	08:23			07:30			07:21			06:18		07:00 (KLZ_WT16)	05:36
	16:49	12	09:32 (ATS_WT01)	17:37			18:27			20:19			21:08	24	07:24 (KLZ_WT16)	21:52
3	08:49		09:20 (ATS_WT01)	08:21			07:28			07:19			06:17		07:02 (KLZ_WT16)	05:35
	16:50	12	09:32 (ATS_WT01)	17:38			18:28			20:20			21:10	22	07:24 (KLZ_WT16)	21:53
4	08:49		09:19 (ATS_WT01)	08:20			07:26			07:17			06:15		07:02 (KLZ_WT16)	05:34
	16:52	13	09:32 (ATS_WT01)	17:40			18:30			20:22			21:11	20	07:22 (KLZ_WT16)	21:54
5	08:49		09:19 (ATS_WT01)	08:18			07:24			07:14			06:13		07:03 (KLZ_WT16)	05:34
	16:53	14	09:33 (ATS_WT01)	17:42			18:32			20:24			21:13	17	07:20 (KLZ_WT16)	21:55
6	08:49		09:19 (ATS_WT01)	08:16			07:22			07:12			06:11		07:06 (KLZ_WT16)	05:33
	16:54	13	09:32 (ATS_WT01)	17:44			18:34			20:25			21:14	13	07:19 (KLZ_WT16)	21:56
7	08:48		09:21 (ATS_WT01)	08:15			07:19		07:42 (RHR_WT01)	07:10			06:09		07:08 (KLZ_WT16)	05:33
	16:55	12	09:33 (ATS_WT01)	17:46			18:35	1	07:43 (RHR_WT01)	20:27			21:16	8	07:16 (KLZ_WT16)	21:57
8	08:48		09:21 (ATS_WT01)	08:13			07:17		07:40 (RHR_WT01)	07:08			06:08			05:32
	16:56	11	09:32 (ATS_WT01)	17:47			18:37	1	07:41 (RHR_WT01)	20:29			21:18			21:57
9	08:48		09:22 (ATS_WT01)	08:11			07:15			07:06			06:06			05:32
	16:58	11	09:33 (ATS_WT01)	17:49			18:39			20:30			21:19			21:58
10	08:47		09:23 (ATS_WT01)	08:09			07:13			07:03			06:04			05:31
	16:59	9	09:32 (ATS_WT01)	17:51			18:40			20:32			21:21			21:59
11	08:47		09:24 (ATS_WT01)	08:08			07:11			07:01			06:03			05:31
	17:00	7	09:31 (ATS_WT01)	17:53			18:42			20:34			21:22			22:00
12	08:46		09:27 (ATS_WT01)	08:06			07:08			06:59		07:22 (KLZ_WT08)	06:01			05:30
	17:02	4	09:31 (ATS_WT01)	17:55			18:44			20:35	1	07:23 (KLZ_WT08)	21:24			22:00
13	08:45			08:04			07:06			06:57		07:19 (KLZ_WT08)	06:00			05:30
	17:03			17:56			18:45			20:37	3	07:22 (KLZ_WT08)	21:25			22:01
14	08:45			08:02			07:04			06:55		07:17 (KLZ_WT08)	05:58			05:30
	17:05			17:58			18:47			20:39	4	07:21 (KLZ_WT08)	21:27			22:02
15	08:44			08:00			07:02			06:53		07:15 (KLZ_WT08)	05:57			05:30
	17:06			18:00			18:49			20:40	4	07:19 (KLZ_WT08)	21:28			22:02
16	08:43			07:59			06:59			06:50		07:13 (CBR_WT01)	05:55			05:30
	17:08			18:02			18:51			20:42	3	07:16 (CBR_WT01)	21:30			22:03
17	08:42			07:57			06:57			06:48		07:11 (KLZ_WT16)	05:54			05:30
	17:09			18:04			18:52			20:43	11	07:22 (KLZ_WT16)	21:31			22:03
18	08:41			07:55			06:55			06:46		07:09 (KLZ_WT16)	05:52			05:30
	17:11			18:05			18:54			20:45	15	07:24 (KLZ_WT16)	21:33			22:03
19	08:40			07:53			06:53			06:44		07:07 (KLZ_WT16)	05:51			05:30
	17:13			18:07			18:56			20:47	18	07:25 (KLZ_WT16)	21:34			22:04
20	08:39			07:51			06:50			06:42		07:05 (KLZ_WT16)	05:50			05:30
	17:14			18:09			18:57			20:48	21	07:26 (KLZ_WT16)	21:35			22:04
21	08:38			07:49			06:48			06:40		07:03 (KLZ_WT16)	05:48			05:30
	17:16			18:11			18:59			20:50	24	07:27 (KLZ_WT16)	21:37			22:04
22	08:37			07:47			06:46			06:38		07:02 (KLZ_WT16)	05:47			05:30
	17:17			18:13			19:01			20:52	25	07:27 (KLZ_WT16)	21:38			22:05
23	08:36			07:45			06:44			06:36		07:01 (KLZ_WT16)	05:46			05:30
	17:19			18:14			19:02			20:53	27	07:28 (KLZ_WT16)	21:40			22:05
24	08:35			07:43			06:41			06:34		07:00 (KLZ_WT16)	05:45			05:31
	17:21			18:16			19:04			20:55	28	07:28 (KLZ_WT16)	21:41			22:05
25	08:34			07:41			06:39			06:32		07:00 (KLZ_WT16)	05:43			05:31
	17:23			18:18			19:06			20:57	28	07:28 (KLZ_WT16)	21:42			22:05
26	08:32			07:39		08:02 (ALB_WT01)	06:37			06:30		06:59 (KLZ_WT16)	05:42			05:31
	17:24			18:20	3	08:05 (ALB_WT01)	19:07			20:58	28	07:27 (KLZ_WT16)	21:43			22:05
27	08:31			07:36		08:00 (ALB_WT01)	06:35			06:28		06:59 (KLZ_WT16)	05:41			05:32
	17:26			18:21	5	08:05 (ALB_WT01)	19:09			21:00	28	07:27 (KLZ_WT16)	21:45			22:05
28	08:30			07:34		07:57 (ALB_WT01)	06:32			06:26		07:00 (KLZ_WT16)	05:40			05:32
	17:28			18:23	6	08:03 (ALB_WT01)	19:11			21:01	28	07:28 (KLZ_WT16)	21:46			22:05
29	08:28						07:30			06:24		07:00 (KLZ_WT16)	05:39			05:33
	17:30						20:12			21:03	27	07:27 (KLZ_WT16)	21:47			22:05
30	08:27						07:28			06:22		07:00 (KLZ_WT16)	05:38			05:33
	17:31						20:14			21:05	26	07:26 (KLZ_WT16)	21:48			22:04
31	08:26						07:26						05:37			
	17:33						20:15						21:49			
Potential sun hours	262			279			367			414			482			494
Total, worst case		129			14			9			349			129		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,53			0,55			0,55			0,64			0,64		
Total reduction		0,13			0,16			0,21			0,29			0,29		
Total, real		16			2			2			102			37		

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 15 - Hageland 14, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July		August			September		October			November			December		
1	05:34		06:09			06:57		07:45			07:37			08:26		09:06 (ATS_WT01)
	22:04		21:34			20:33		19:26			17:21			16:42	7	09:13 (ATS_WT01)
2	05:35		06:11			06:59		07:46			07:38			08:27		09:06 (ATS_WT01)
	22:04		21:32			20:31		19:23			17:19			16:42	9	09:15 (ATS_WT01)
3	05:35		06:12			07:00		07:48			07:40			08:29		09:06 (ATS_WT01)
	22:04		21:30			20:29		19:21			17:18			16:41	10	09:16 (ATS_WT01)
4	05:36		06:14			07:02		07:49			07:42			08:30		09:06 (ATS_WT01)
	22:03		21:29			20:27		19:19			17:16			16:41	11	09:17 (ATS_WT01)
5	05:37		06:15			07:04		07:51			07:44			08:31		09:06 (ATS_WT01)
	22:03		21:27			20:25		19:17			17:14			16:40	12	09:18 (ATS_WT01)
6	05:38		06:17		07:16 (KLZ_WT16)	07:05		07:53		08:17 (RHR_WT01)	07:45			08:33		09:06 (ATS_WT01)
	22:02		21:25	10	07:26 (KLZ_WT16)	20:22		19:14	1	08:18 (RHR_WT01)	17:12			16:40	12	09:18 (ATS_WT01)
7	05:39		06:18		07:14 (KLZ_WT16)	07:07		07:54			07:47			08:34		09:06 (ATS_WT01)
	22:02		21:24	15	07:29 (KLZ_WT16)	20:20		19:12			17:11			16:39	14	09:20 (ATS_WT01)
8	05:39		06:20		07:12 (KLZ_WT16)	07:08		07:56			07:49			08:35		09:07 (ATS_WT01)
	22:01		21:22	18	07:30 (KLZ_WT16)	20:18		19:10			17:09			16:39	13	09:20 (ATS_WT01)
9	05:40		06:21		07:12 (KLZ_WT16)	07:10		07:58			07:51			08:36		09:08 (ATS_WT01)
	22:00		21:20	20	07:32 (KLZ_WT16)	20:16		19:08			17:08			16:39	12	09:20 (ATS_WT01)
10	05:41		06:23		07:10 (KLZ_WT16)	07:11		07:59			07:52			08:37		09:09 (ATS_WT01)
	22:00		21:18	22	07:32 (KLZ_WT16)	20:13		19:06			17:06			16:39	12	09:21 (ATS_WT01)
11	05:42		06:24		07:10 (KLZ_WT16)	07:13		08:01			07:54			08:38		09:10 (ATS_WT01)
	21:59		21:16	24	07:34 (KLZ_WT16)	20:11		19:03			17:04			16:38	11	09:21 (ATS_WT01)
12	05:43		06:26		07:08 (KLZ_WT16)	07:14		08:03		08:31 (ALB_WT01)	07:56			08:39		09:11 (ATS_WT01)
	21:58		21:15	26	07:34 (KLZ_WT16)	20:09		19:01	4	08:35 (ALB_WT01)	17:03			16:38	11	09:22 (ATS_WT01)
13	05:44		06:27		07:08 (KLZ_WT16)	07:16		08:04		08:29 (ALB_WT01)	07:57			08:40		09:12 (ATS_WT01)
	21:57		21:13	27	07:35 (KLZ_WT16)	20:06		18:59	7	08:36 (ALB_WT01)	17:02			16:38	10	09:22 (ATS_WT01)
14	05:46		06:29		07:07 (KLZ_WT16)	07:18		08:06		08:31 (ALB_WT01)	07:59			08:41		09:13 (ATS_WT01)
	21:57		21:11	28	07:35 (KLZ_WT16)	20:04		18:57	6	08:37 (ALB_WT01)	17:00			16:38	10	09:23 (ATS_WT01)
15	05:47		06:31		07:06 (KLZ_WT16)	07:19		08:08		08:33 (ALB_WT01)	08:01			08:42		09:14 (ATS_WT01)
	21:56		21:09	28	07:34 (KLZ_WT16)	20:02		18:55	4	08:37 (ALB_WT01)	16:59			16:38	9	09:23 (ATS_WT01)
16	05:48		06:32		07:07 (KLZ_WT16)	07:21		08:09		08:35 (ALB_WT01)	08:03			08:43		09:15 (ATS_WT01)
	21:55		21:07	28	07:35 (KLZ_WT16)	20:00		18:53	2	08:37 (ALB_WT01)	16:57			16:38	9	09:24 (ATS_WT01)
17	05:49		06:34		07:06 (KLZ_WT16)	07:22		08:11			08:04			08:44		09:16 (ATS_WT01)
	21:54		21:05	28	07:34 (KLZ_WT16)	19:57		18:51			16:56			16:39	8	09:24 (ATS_WT01)
18	05:50		06:35		07:06 (KLZ_WT16)	07:24		08:13			08:06			08:45		09:16 (ATS_WT01)
	21:53		21:03	28	07:34 (KLZ_WT16)	19:55		18:48			16:55			16:39	8	09:24 (ATS_WT01)
19	05:51		06:37		07:06 (KLZ_WT16)	07:25		08:14			08:08			08:45		09:17 (ATS_WT01)
	21:51		21:01	27	07:33 (KLZ_WT16)	19:53		18:46			16:54			16:39	8	09:25 (ATS_WT01)
20	05:53		06:38		07:07 (KLZ_WT16)	07:27		08:16			08:09			08:46		09:18 (ATS_WT01)
	21:50		20:59	26	07:33 (KLZ_WT16)	19:51		18:44			16:52			16:40	8	09:26 (ATS_WT01)
21	05:54		06:40		07:07 (KLZ_WT16)	07:29		08:18			08:11			08:47		09:18 (ATS_WT01)
	21:49		20:57	25	07:32 (KLZ_WT16)	19:48		18:42			16:51			16:40	8	09:26 (ATS_WT01)
22	05:55		06:42		07:08 (KLZ_WT16)	07:30		08:19			08:12			08:47		09:19 (ATS_WT01)
	21:48		20:55	24	07:32 (KLZ_WT16)	19:46		18:40			16:50			16:40	8	09:27 (ATS_WT01)
23	05:57		06:43		07:09 (KLZ_WT16)	07:32		08:21			08:14			08:48		09:19 (ATS_WT01)
	21:47		20:53	21	07:30 (KLZ_WT16)	19:44		18:38			16:49			16:41	8	09:27 (ATS_WT01)
24	05:58		06:45		07:11 (KLZ_WT16)	07:33		08:23			08:16			08:48		09:19 (ATS_WT01)
	21:45		20:51	18	07:29 (KLZ_WT16)	19:41		18:36			16:48			16:42	8	09:27 (ATS_WT01)
25	05:59		06:46		07:12 (KLZ_WT16)	07:35		07:24			08:17			08:48		09:20 (ATS_WT01)
	21:44		20:48	14	07:26 (KLZ_WT16)	19:39		17:34			16:47			16:42	8	09:28 (ATS_WT01)
26	06:01		06:48		07:14 (KLZ_WT16)	07:37		07:26			08:19			08:49		09:20 (ATS_WT01)
	21:43		20:46	10	07:24 (KLZ_WT16)	19:37		17:32			16:46			16:43	8	09:28 (ATS_WT01)
27	06:02		06:49		07:15 (CBR_WT01)	07:38		07:28			08:20			08:49		09:20 (ATS_WT01)
	21:41		20:44	3	07:18 (CBR_WT01)	19:35		17:30			16:45			16:44	9	09:29 (ATS_WT01)
28	06:03		06:51		07:17 (KLZ_WT08)	07:40		07:30			08:22			08:49		09:20 (ATS_WT01)
	21:40		20:42	4	07:21 (KLZ_WT08)	19:32		17:29			16:44			16:44	9	09:29 (ATS_WT01)
29	06:05		06:53		07:18 (KLZ_WT08)	07:41		07:31			08:23			08:49		09:20 (ATS_WT01)
	21:38		20:40	4	07:22 (KLZ_WT08)	19:30		17:27			16:44			16:45	9	09:29 (ATS_WT01)
30	06:06		06:54		07:20 (KLZ_WT08)	07:43		07:33			08:25		09:08 (ATS_WT01)	08:50		09:20 (ATS_WT01)
	21:37		20:38	3	07:23 (KLZ_WT08)	19:28		17:25			16:43	4	09:12 (ATS_WT01)	16:46	10	09:30 (ATS_WT01)
31	06:08		06:56		07:21 (KLZ_WT08)			07:35						08:50		09:20 (ATS_WT01)
	21:35		20:36	1	07:22 (KLZ_WT08)			17:23						16:47	10	09:30 (ATS_WT01)
Potential sun hours	498		451			380		333			269			248		
Total, worst case				482					24			4			299	
Sun reduction				0,47					0,36			0,27			0,23	
Oper. time red.				0,97					0,97			0,97			0,97	
Wind dir. red.				0,64					0,55			0,53			0,53	
Total reduction				0,29					0,20			0,14			0,12	
Total, real				141					5			1			35	

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref A

Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July			August			September			October			November			December		
1	05:34		18:53 (KLZ_WT15)	06:09		06:37 (SAM_WT06)	06:57			07:44			07:37			08:26		09:00 (RHR_WT03)
	22:04	69	20:02 (KLZ_WT15)	21:34	86	20:08 (KLZ_WT15)	20:33			19:25			17:21			16:42	52	15:19 (KLZ_WT16)
2	05:35		18:52 (KLZ_WT15)	06:11		06:39 (SAM_WT06)	06:59			07:46			07:38			08:27		09:00 (RHR_WT03)
	22:04	70	20:02 (KLZ_WT15)	21:32	86	20:09 (KLZ_WT15)	20:31			19:23			17:19			16:42	55	15:20 (KLZ_WT16)
3	05:35		18:53 (KLZ_WT15)	06:12		06:40 (SAM_WT06)	07:00		07:26 (SAM_WT04)	07:48			07:40			08:29		09:00 (RHR_WT03)
	22:04	70	20:03 (KLZ_WT15)	21:30	84	20:08 (KLZ_WT15)	20:29	1	07:27 (SAM_WT04)	19:21			17:17			16:41	55	15:20 (KLZ_WT16)
4	05:36		18:53 (KLZ_WT15)	06:14		06:41 (SAM_WT06)	07:02			07:49			07:42			08:30		09:02 (RHR_WT03)
	22:03	70	20:03 (KLZ_WT15)	21:29	83	20:07 (KLZ_WT15)	20:27			19:19			17:16			16:40	54	15:21 (KLZ_WT16)
5	05:37		18:53 (KLZ_WT15)	06:15		06:43 (SAM_WT06)	07:03		07:49 (KLZ_WT19)	07:51			07:44			08:31		09:03 (RHR_WT03)
	22:03	71	20:04 (KLZ_WT15)	21:27	81	20:08 (KLZ_WT15)	20:24	9	07:58 (KLZ_WT19)	19:16			17:14			16:40	54	15:21 (KLZ_WT16)
6	05:38		18:52 (KLZ_WT15)	06:17		18:48 (KLZ_WT15)	07:05		07:46 (KLZ_WT19)	07:53			07:45			08:33		09:04 (RHR_WT03)
	22:02	72	20:04 (KLZ_WT15)	21:25	79	20:07 (KLZ_WT15)	20:22	13	07:59 (KLZ_WT19)	19:14			17:12			16:40	53	15:21 (KLZ_WT16)
7	05:38		18:52 (KLZ_WT15)	06:18		18:48 (KLZ_WT15)	07:07		07:45 (KLZ_WT19)	07:54			07:47			08:34		09:06 (RHR_WT03)
	22:02	72	20:04 (KLZ_WT15)	21:24	79	20:07 (KLZ_WT15)	20:20	16	08:01 (KLZ_WT19)	19:12			17:11			16:39	53	15:23 (KLZ_WT16)
8	05:39		18:52 (KLZ_WT15)	06:20		18:48 (KLZ_WT15)	07:08		07:43 (KLZ_WT19)	07:56			07:49		08:18 (RHR_WT01)	08:35		09:07 (RHR_WT03)
	22:01	73	20:05 (KLZ_WT15)	21:22	78	20:06 (KLZ_WT15)	20:18	18	08:01 (KLZ_WT19)	19:10			17:09	8	08:26 (RHR_WT01)	16:39	53	15:23 (KLZ_WT16)
9	05:40		18:52 (KLZ_WT15)	06:21		18:49 (KLZ_WT15)	07:10		07:42 (KLZ_WT19)	07:58			07:50		08:19 (RHR_WT01)	08:36		09:08 (RHR_WT03)
	22:00	73	20:05 (KLZ_WT15)	21:20	77	20:06 (KLZ_WT15)	20:15	20	08:02 (KLZ_WT19)	19:08			17:07	8	08:27 (RHR_WT01)	16:39	52	15:23 (KLZ_WT16)
10	05:41		18:52 (KLZ_WT15)	06:23		18:48 (KLZ_WT15)	07:11		07:40 (CBR_WT01)	07:59		08:50 (KLZ_WT08)	07:52		08:21 (RHR_WT01)	08:37		09:09 (RHR_WT03)
	22:00	73	20:05 (KLZ_WT15)	21:18	77	20:05 (KLZ_WT15)	20:13	22	08:02 (KLZ_WT19)	19:05	9	08:59 (KLZ_WT08)	17:06	7	08:28 (RHR_WT01)	16:38	52	15:24 (KLZ_WT16)
11	05:42		18:52 (KLZ_WT15)	06:24		18:49 (KLZ_WT15)	07:13		07:38 (SAM_WT05)	08:01		08:48 (KLZ_WT08)	07:54		08:23 (RHR_WT01)	08:38		09:10 (RHR_WT03)
	21:59	74	20:06 (KLZ_WT15)	21:16	76	20:05 (KLZ_WT15)	20:11	24	08:02 (KLZ_WT19)	19:03	13	09:01 (KLZ_WT08)	17:04	6	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
12	05:43		18:52 (KLZ_WT15)	06:26		18:49 (KLZ_WT15)	07:14		07:39 (CBR_WT01)	08:02		08:47 (KLZ_WT08)	07:56		08:24 (MVZ_WT01)	08:39		09:11 (RHR_WT03)
	21:58	74	20:06 (KLZ_WT15)	21:14	75	20:04 (KLZ_WT15)	20:09	22	08:01 (KLZ_WT19)	19:01	15	09:02 (KLZ_WT08)	17:03	5	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
13	05:44		18:52 (KLZ_WT15)	06:27		18:49 (KLZ_WT15)	07:16		07:41 (KLZ_WT19)	08:04		08:45 (KLZ_WT08)	07:57		08:26 (MVZ_WT01)	08:40		09:12 (RHR_WT03)
	21:57	74	20:06 (KLZ_WT15)	21:13	74	20:03 (KLZ_WT15)	20:06	20	08:01 (KLZ_WT19)	18:59	17	09:02 (KLZ_WT08)	17:01	3	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
14	05:45		18:51 (KLZ_WT15)	06:29		07:00 (SAM_WT07)	07:18		07:42 (KLZ_WT19)	08:06		08:44 (KLZ_WT08)	07:59		08:28 (RHR_WT01)	08:41		09:13 (RHR_WT03)
	21:56	76	20:07 (KLZ_WT15)	21:11	78	20:02 (KLZ_WT15)	20:04	18	08:00 (KLZ_WT19)	18:57	19	09:03 (KLZ_WT08)	17:00	1	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
15	05:47		18:51 (KLZ_WT15)	06:30		06:57 (SAM_WT07)	07:19		07:44 (KLZ_WT19)	08:07		08:44 (KLZ_WT08)	08:01			08:42		09:14 (RHR_WT03)
	21:56	76	20:07 (KLZ_WT15)	21:09	81	20:01 (KLZ_WT15)	20:02	15	07:59 (KLZ_WT19)	18:55	19	09:03 (KLZ_WT08)	16:59			16:38	57	15:26 (KLZ_WT16)
16	05:48		18:51 (KLZ_WT15)	06:32		06:59 (SAM_WT07)	07:21		07:45 (KLZ_WT19)	08:09		08:44 (KLZ_WT08)	08:02		14:52 (KLZ_WT16)	08:43		09:15 (RHR_WT03)
	21:55	76	20:07 (KLZ_WT15)	21:07	78	20:00 (KLZ_WT15)	20:00	12	07:57 (KLZ_WT19)	18:53	19	09:03 (KLZ_WT08)	16:57	8	15:00 (KLZ_WT16)	16:38	58	15:27 (KLZ_WT16)
17	05:49		18:51 (KLZ_WT15)	06:34		07:00 (SAM_WT07)	07:22		07:47 (KLZ_WT19)	08:11		08:44 (KLZ_WT08)	08:04		14:48 (KLZ_WT16)	08:44		09:16 (RHR_WT03)
	21:54	76	20:07 (KLZ_WT15)	21:05	76	19:59 (KLZ_WT15)	19:57	9	07:56 (KLZ_WT19)	18:50	18	09:02 (KLZ_WT08)	16:56	16	15:04 (KLZ_WT16)	16:39	58	15:27 (KLZ_WT16)
18	05:50		18:50 (KLZ_WT15)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT19)	08:12		08:44 (KLZ_WT08)	08:06		14:46 (KLZ_WT16)	08:45		09:16 (RHR_WT03)
	21:52	77	20:07 (KLZ_WT15)	21:03	72	19:58 (KLZ_WT15)	19:55	4	07:53 (KLZ_WT19)	18:48	18	09:02 (KLZ_WT08)	16:55	20	15:06 (KLZ_WT16)	16:39	57	15:27 (KLZ_WT16)
19	05:51		18:50 (KLZ_WT15)	06:37		07:03 (SAM_WT07)	07:25			08:14		08:45 (KLZ_WT08)	08:07		14:43 (KLZ_WT16)	08:45		09:17 (RHR_WT03)
	21:51	77	20:07 (KLZ_WT15)	21:01	68	19:56 (KLZ_WT15)	19:53			18:46	16	09:01 (KLZ_WT08)	16:53	24	15:07 (KLZ_WT16)	16:39	58	15:28 (KLZ_WT16)
20	05:53		18:50 (KLZ_WT15)	06:38		07:05 (SAM_WT07)	07:27		07:57 (KLZ_WT10)	08:16		08:46 (KLZ_WT08)	08:09		14:42 (KLZ_WT16)	08:46		09:18 (RHR_WT03)
	21:50	79	20:09 (KLZ_WT15)	20:59	64	19:55 (KLZ_WT15)	19:50	6	08:03 (KLZ_WT10)	18:44	14	09:00 (KLZ_WT08)	16:52	27	15:09 (KLZ_WT16)	16:39	58	15:29 (KLZ_WT16)
21	05:54		18:50 (KLZ_WT15)	06:40		18:54 (KLZ_WT15)	07:29		07:55 (KLZ_WT10)	08:18		08:48 (KLZ_WT08)	08:11		08:43 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	78	20:08 (KLZ_WT15)	20:57	59	19:53 (KLZ_WT15)	19:48	9	08:04 (KLZ_WT10)	18:42	9	08:57 (KLZ_WT08)	16:51	34	15:11 (KLZ_WT16)	16:40	58	15:29 (KLZ_WT16)
22	05:55		18:50 (KLZ_WT15)	06:41		18:56 (KLZ_WT15)	07:30		07:55 (KLZ_WT10)	08:19		08:45 (MXS_WT01)	08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	78	20:08 (KLZ_WT15)	20:55	56	19:52 (KLZ_WT15)	19:46	10	08:05 (KLZ_WT10)	18:40	5	08:50 (MXS_WT01)	16:50	37	15:12 (KLZ_WT16)	16:40	58	15:30 (KLZ_WT16)
23	05:56		18:49 (KLZ_WT15)	06:43		18:57 (KLZ_WT15)	07:32		07:56 (KLZ_WT10)	08:21		08:47 (MXS_WT01)	08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	79	20:08 (KLZ_WT15)	20:53	52	19:49 (KLZ_WT15)	19:44	8	08:04 (KLZ_WT10)	18:38	5	08:52 (MXS_WT01)	16:49	39	15:12 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
24	05:58		18:50 (KLZ_WT15)	06:45		18:59 (KLZ_WT15)	07:33		07:58 (KLZ_WT10)	08:23		08:49 (MVN_WT01)	08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	79	20:09 (KLZ_WT15)	20:50	49	19:48 (KLZ_WT15)	19:41	6	08:04 (KLZ_WT10)	18:36	5	08:54 (MVN_WT01)	16:48	40	15:14 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
25	05:59		18:49 (KLZ_WT15)	06:46		07:12 (SAM_WT11)	07:35		08:00 (KLZ_WT10)	07:24		07:51 (MVN_WT01)	08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	80	20:09 (KLZ_WT15)	20:48	47	19:45 (KLZ_WT15)	19:39	3	08:03 (KLZ_WT10)	17:34	5	07:56 (MVN_WT01)	16:47	40	15:15 (KLZ_WT16)	16:42	58	15:31 (KLZ_WT16)
26	06:01		18:49 (KLZ_WT15)	06:48		07:14 (SAM_WT11)	07:36			07:26		07:53 (MVN_WT01)	08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	80	20:09 (KLZ_WT15)	20:46	43	19:43 (KLZ_WT15)	19:37			17:32	3	07:56 (MVN_WT01)	16:46	40	15:15 (KLZ_WT16)	16:43	58	15:31 (KLZ_WT16)
27	06:02		18:48 (KLZ_WT15)	06:49		07:15 (SAM_WT11)	07:38			07:28		07:54 (MVN_WT01)	08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	80	20:08 (KLZ_WT15)	20:44	37	19:40 (KLZ_WT15)	19:35			17:30	1	07:55 (MVN_WT01)	16:45	40	15:16 (KLZ_WT16)	16:43	58	15:32 (KLZ_WT16)
28	06:03		18:49 (KLZ_WT15)	06:51		19:07 (KLZ_WT15)	07:40			07:30			08:22		08:53 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:40	80	20:09 (KLZ_WT15)	20:42	30	19:37 (KLZ_WT15)	19:32			17:28			16:44	42	15:17 (KLZ_WT16)	16:44	57	15:32 (KLZ_WT16)
29	06:05		18:48 (KLZ_WT15)	06:52		19:10 (KLZ_WT15)	07:41			07:31			08:23		09:01 (RHR_WT03)	08:49		09:20 (RHR_WT03)
	21:38	81	20:09 (KLZ_WT15)	20:40	22	19:32 (KLZ_WT15)	19:30			17:27			16:44	46	15:17 (KLZ_WT16)	16:45	57	15:32 (KLZ_WT16)
30	06:06		06:35 (SAM_WT06)	06:54		19:19 (KLZ_WT15)	07:43			07:33			08:25		09:01 (RHR_WT03)	08:50		09:20 (RHR_WT03)
	21:37	86	20:08 (KLZ_WT15)	20:38	5	19:24 (KLZ_WT15)	19:28			17:25			16:43	50	15:19 (KLZ_WT16)	16:46	56	15:33 (KLZ_WT16)
31	06:08		06:36 (SAM_WT06)	06:56						07:35						08:50		09:20 (RHR_WT03)
	21:35	88	20:09 (KLZ_WT15)	20:35						17:23						16:47	56	15:33 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		2361			1952			265			210			541			1733	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,59			0,59			0,62			0,56			0,70			0,68	
Total reduction		0,26			0,27			0,26			0,20			0,18			0,15	
Total, real		609			527			69			41			99			261	

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

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

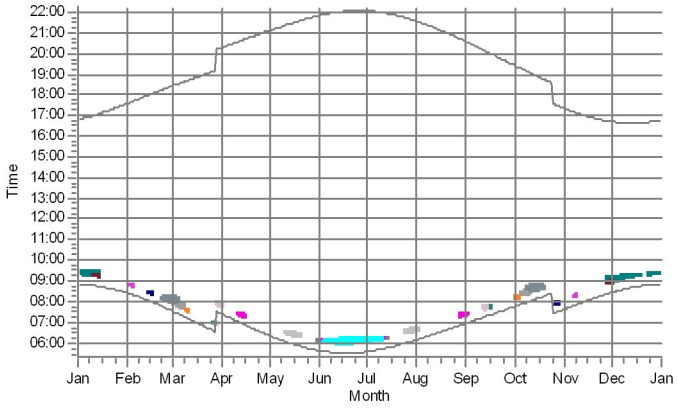
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:58/4.1.264

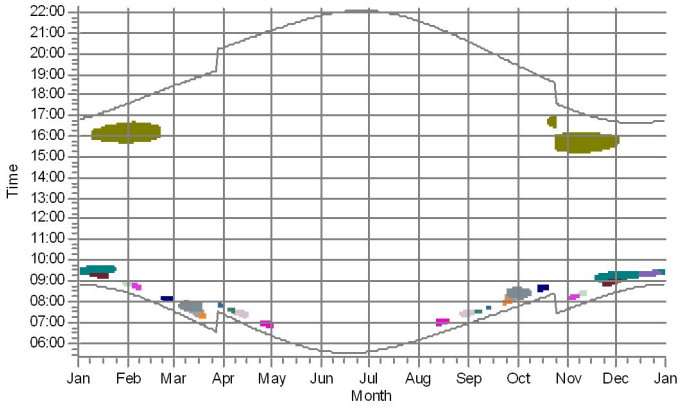
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref A

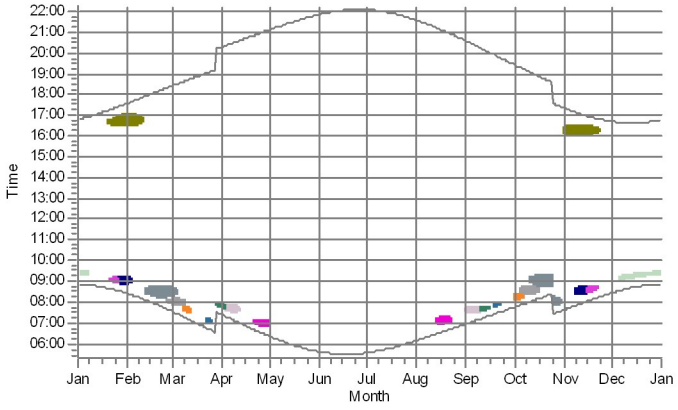
1: Hoogstraat 54, 9940 Evergem



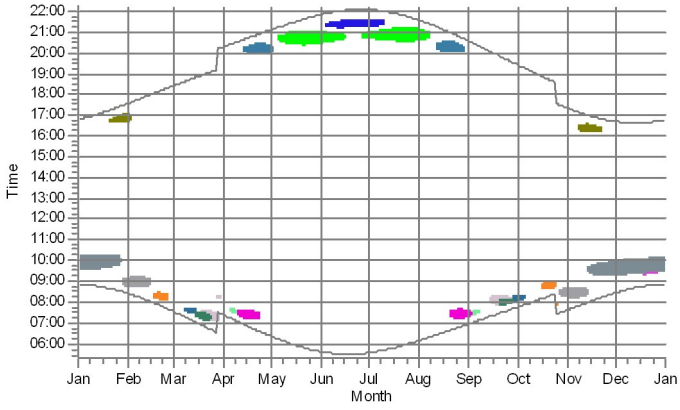
2: Pachtgoederen 2, 9940 Evergem



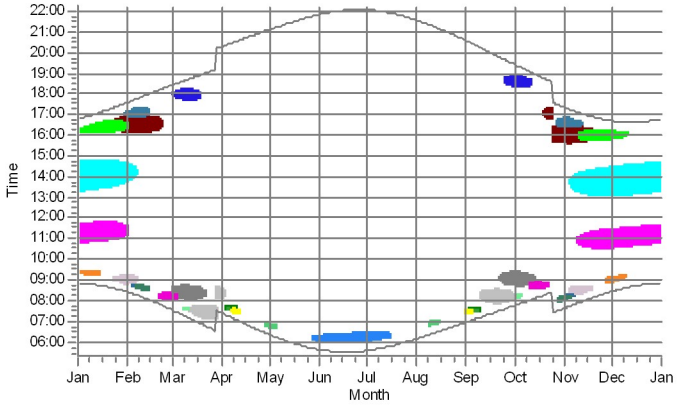
3: Pachtgoederen 2, 9940 Evergem



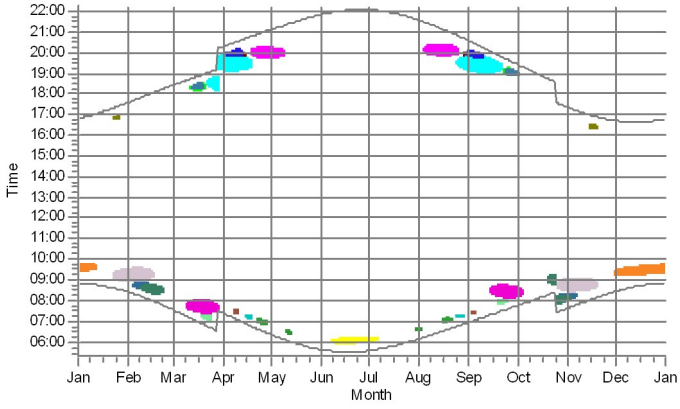
4: James Cookstraat 10, 9042 Gent



5: Pelikaanstraat 60, 9940 Evergem



6: Christoffel Columbuslaan 23, 9042 Gent



WTGs

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

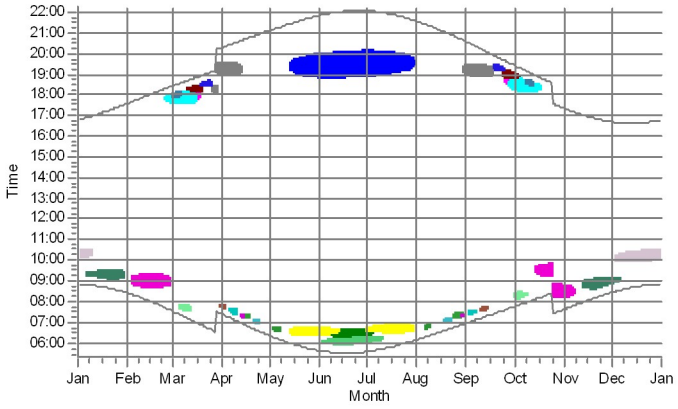
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+31 (0)88 4261 261

Calculated:
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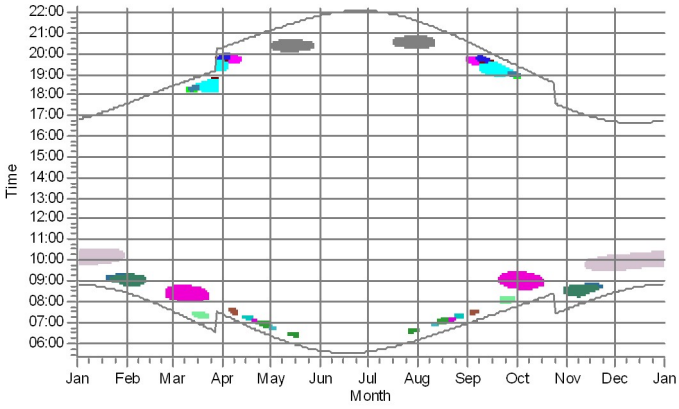
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref A

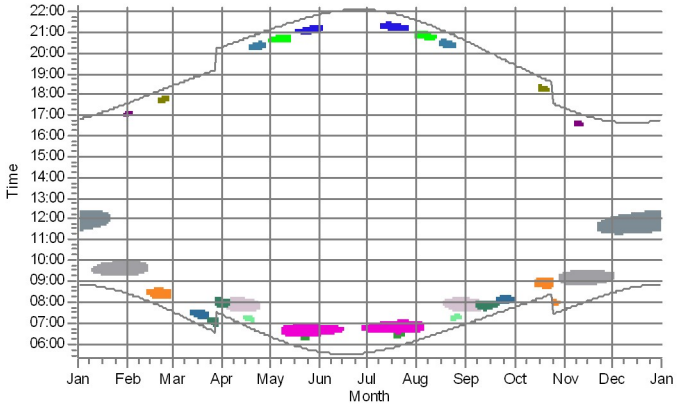
7: Christoffel Columbuslaan 23, 9042 Gent



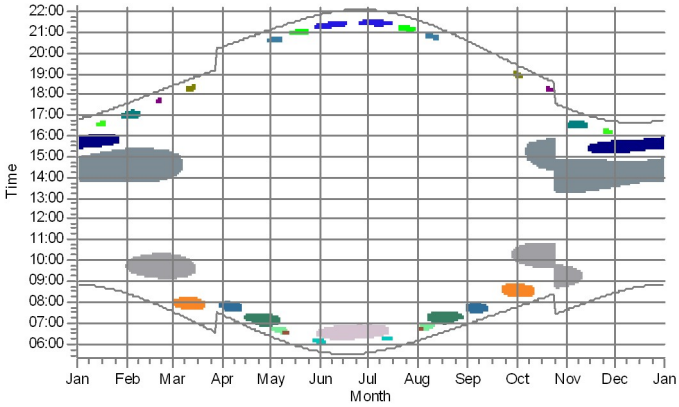
8: Christoffel Columbuslaan 17, 9042 Gent



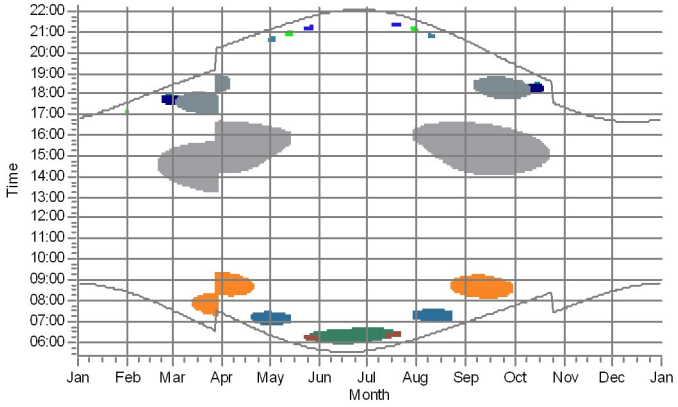
9: Willem van Rubroeckstraat 2, 9042 Gent



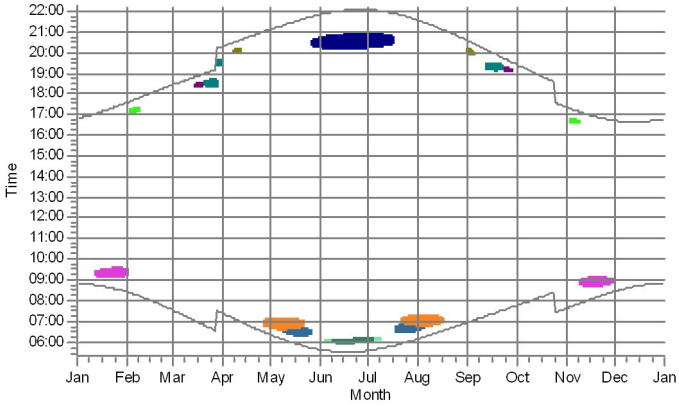
10: Willem van Rubroeckstraat 26, 9042 Gent



11: Arbedkaai 3, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

- KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
- KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
- KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
- KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
- KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
- KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)
- SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
- SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
- SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
- SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
- SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
- EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
- KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)
- SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
- SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

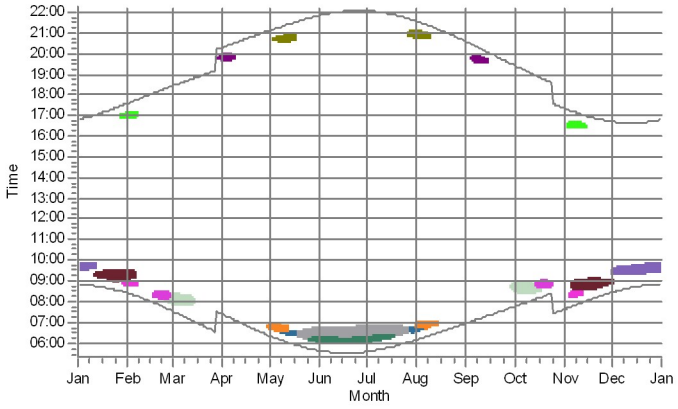
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+31 (0)88 4261 261

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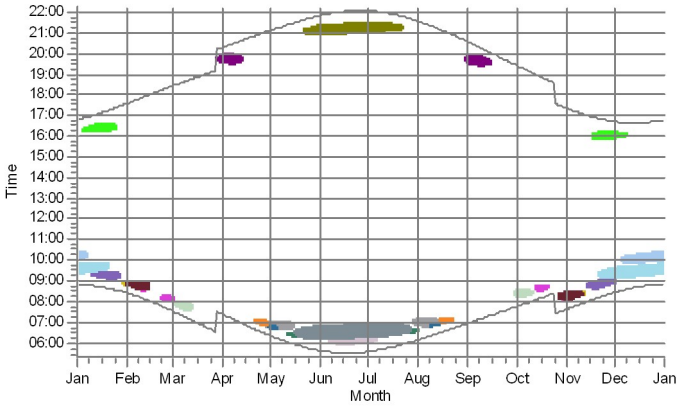
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref A

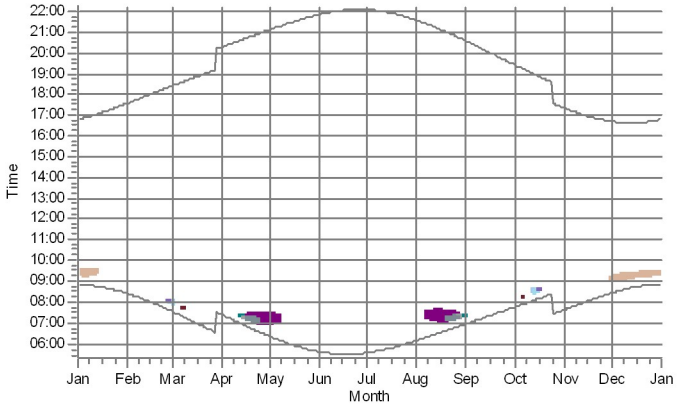
13: Doornzele Dries 107, 9940 Evergem



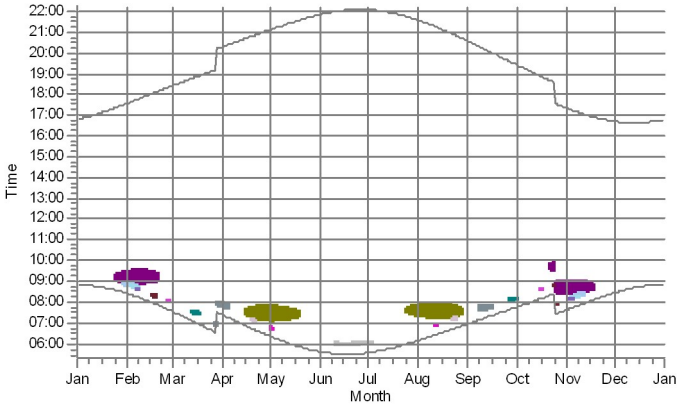
14: Abdijdreef 2, 9940 Evergem



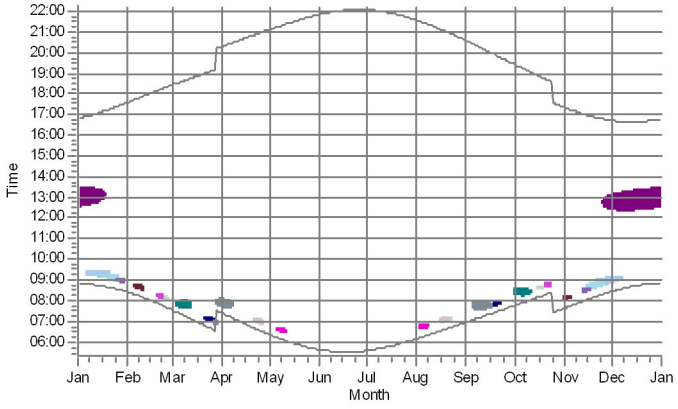
15: Hageland 14, 9940 Evergem



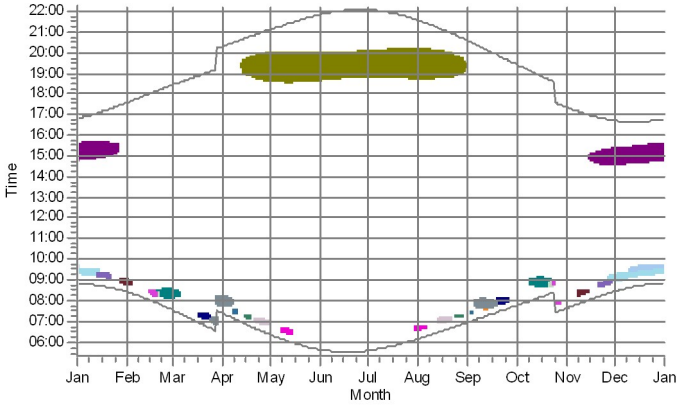
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)
- NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)
- MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-09:04/7
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	08:59-09:05/6
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40		08:29	09:00-09:04/4
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42		08:30	09:02-09:05/3
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43		08:31	09:03-09:05/2
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:53		07:45	08:18-08:20/2	08:33	09:04-09:05/1
	22:02	21:25	20:22	19:14		17:12		16:40	09:58-10:05/7
7	05:38	06:18	07:07	07:54		07:47	08:16-08:23/7	08:34	09:57-10:07/10
	22:02	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:24/7	08:35	09:57-10:09/12
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:25/6	08:36	09:56-10:10/14
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:25/4	08:37	09:56-10:11/15
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:26/3	08:38	09:27-09:30/3
	21:59	21:16	20:11	19:03		17:04		16:38	09:56-10:12/16
12	05:43	06:26	07:14	08:02	08:31-08:35/4	07:56		08:39	09:26-09:31/5
	21:58	21:14	20:09	19:01		17:03		16:38	09:56-10:12/16
13	05:44	06:27	07:16	08:04	08:29-08:36/7	07:57		08:40	09:26-09:32/6
	21:57	21:12	20:06	18:59		17:01		16:38	09:56-10:13/17
14	05:45	06:29	07:17	08:06	08:31-08:37/6	07:59		08:41	09:26-09:33/7
	21:56	21:11	20:04	18:57		17:00		16:38	09:56-10:14/18
15	05:47	06:30	07:19	08:07	08:33-08:37/4	08:01		08:42	09:26-09:34/8
	21:55	21:09	20:02	18:55		16:59		16:38	09:56-10:15/19
16	05:48	06:32	07:21	08:09	08:35-08:37/2	08:02		08:43	09:26-09:35/9
	21:54	21:07	20:00	18:53		16:57		16:38	09:57-10:16/19
17	05:49	06:34	07:22	08:11		08:04		08:44	09:27-09:36/9
	21:53	21:05	19:57	18:50		16:56		16:39	09:57-10:17/20
18	05:50	06:35	07:24	08:12		08:06		08:44	09:27-09:36/9
	21:52	21:03	19:55	18:48		16:55		16:39	09:57-10:16/19
19	05:51	06:37	07:25	08:14		08:07		08:45	09:27-09:37/10
	21:51	21:01	19:53	18:46		16:53		16:39	09:58-10:17/19
20	05:53	06:38	07:27	08:16		08:09		08:46	09:28-09:38/10
	21:50	20:59	19:50	18:44		16:52		16:39	09:58-10:18/20
21	05:54	06:40	07:28	08:17		08:11		08:46	09:28-09:38/10
	21:49	20:57	19:48	18:42		16:51		16:40	09:58-10:18/20
22	05:55	06:41	07:30	08:19		08:12	08:53-08:58/5	08:47	09:29-09:39/10
	21:48	20:55	19:46	18:40		16:50		16:40	09:59-10:19/20
23	05:56	06:43	07:32	08:21		08:14	08:51-08:59/8	08:47	09:29-09:39/10
	21:46	20:52	19:44	18:38		16:49		16:41	09:59-10:19/20
24	05:58	06:45	07:33	08:23		08:15	08:50-09:00/10	08:48	09:29-09:39/10
	21:45	20:50	19:41	18:36		16:48		16:41	09:59-10:19/20
25	05:59	06:46	07:35	07:24		08:17	08:50-09:02/12	08:48	09:30-09:40/10
	21:44	20:48	19:39	17:34		16:47		16:42	10:01-10:20/19
26	06:01	06:48	07:36	07:26		08:19	08:50-09:02/12	08:49	09:31-09:40/9
	21:42	20:46	19:37	17:32		16:46		16:43	10:01-10:21/20
27	06:02	06:49	07:38	07:28		08:20	08:51-09:03/12	08:49	09:31-09:40/9
	21:41	20:44	19:34	17:30		16:45		16:43	10:02-10:21/19
28	06:03	06:51	07:40	07:29		08:22	08:53-09:04/11	08:49	09:32-09:40/8
	21:40	20:42	19:32	17:28		16:44		16:44	10:02-10:21/19
29	06:05	06:52	07:41	07:31		08:23	08:54-09:03/9	08:49	09:33-09:40/7
	21:38	20:40	19:30	17:27		16:44		16:45	10:03-10:21/18
30	06:06	06:54	07:43	07:33		08:24	08:56-09:04/8	08:49	09:34-09:40/6
	21:37	20:38	19:28	17:25		16:43		16:46	10:03-10:21/18
31	06:08	06:56		07:35				08:49	09:35-09:40/5
	21:35	20:35		17:23				16:47	10:04-10:21/17
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	23		116		644	

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

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

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SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:20-09:31/11	08:24	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:44	07:36	08:26 09:06-09:13/7
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49 09:20-09:32/12	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 09:06-09:15/9
	16:49	17:37	18:27	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49 09:20-09:32/12	08:21	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29 09:06-09:16/10
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:18	16:41
4	08:49 09:19-09:32/13	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30 09:06-09:17/11
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:41
5	08:49 09:19-09:33/14	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31 09:06-09:18/12
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49 09:19-09:32/13	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33 09:06-09:18/12
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48 09:21-09:33/12	08:14	07:19	07:10	06:09	05:33	05:39	06:18	07:07	07:54	07:47	08:34 09:06-09:20/14
	16:55	17:46	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:21-09:32/11	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35 09:07-09:20/13
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:22-09:33/11	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:57	07:50	08:36 09:08-09:20/12
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:08	16:39
10	08:47 09:23-09:32/9	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:09-09:21/12
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46 09:24-09:31/7	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:10-09:21/11
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:27-09:31/4	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39 09:11-09:22/11
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40 09:12-09:22/10
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41 09:13-09:23/10
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42 09:14-09:23/9
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43 09:15-09:24/9
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	20:00	18:53	16:57	16:38
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44 09:16-09:24/8
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:44 09:16-09:24/8
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:25/8
	17:13	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39
20	08:39	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09	08:46 09:18-09:26/8
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:17	08:11	08:46 09:18-09:26/8
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47 09:19-09:27/8
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14	08:47 09:19-09:27/8
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:15	08:48 09:19-09:27/8
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42
25	08:33	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48 09:20-09:28/8
	17:23	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49 09:20-09:28/8
	17:24	18:20	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:29/9
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:44
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49 09:20-09:29/9
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49 09:20-09:29/9
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 09:08-09:12/4	08:49 09:20-09:30/10
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49 09:20-09:30/10
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	129	0	0	0	0	0	0	0	0	0	4	299

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:49 16:48	08:24 09:22-09:57/35 17:35 08:50-09:07/17	07:32 13:53-15:15/82 07:55-08:08/13 18:25 09:13-10:12/59	07:23 07:46-08:01/15 20:17 14:16-16:35/139	06:20 06:44-06:58/14 21:06 15:01-16:20/79	05:36 06:13-06:40/27 21:50
2	08:49 16:49	08:22 09:22-09:56/34 17:36 08:48-09:07/19	07:30 13:51-15:17/86 07:53-08:09/16 18:26 09:13-10:12/59	07:21 07:43-07:59/16 20:19 14:16-16:35/139	06:18 06:42-06:58/16 21:08 15:04-16:19/75	05:36 06:14-06:41/27 21:51
3	08:49 16:50	08:21 09:22-09:56/34 17:38 08:48-09:08/20	07:28 13:49-15:19/90 07:51-08:09/18 18:28 09:14-10:11/57	07:19 07:44-07:57/13 20:20 14:16-16:35/139	06:16 06:41-07:00/19 21:09 15:06-16:17/71	05:35 06:14-06:40/26 21:53
4	08:49 16:51	08:19 09:23-10:00/37 17:40 08:48-09:09/21	07:26 13:47-15:21/94 07:49-08:09/20 18:30 09:15-10:10/55	07:16 07:46-07:50/4 20:22 14:16-16:35/139	06:15 06:40-07:00/20 21:11 15:10-16:17/67	05:34 06:13-06:40/27 21:54
5	08:49 16:52	08:18 09:23-10:02/39 17:42 08:48-09:09/21	07:24 13:44-15:21/97 07:47-08:07/20 18:32 09:14-10:08/54	07:14 14:16-16:35/139 20:24	06:13 06:40-06:59/19 21:13 15:13-16:16/63	05:33 06:14-06:41/27 21:55
6	08:49 16:54	08:16 09:24-10:04/40 17:44 08:47-09:09/22	07:21 13:43-15:23/100 07:44-08:07/23 18:33 09:15-10:07/52	07:12 14:16-16:34/138 20:25	06:11 06:40-07:00/20 21:14 15:16-16:14/58	05:33 06:14-06:41/27 21:55
7	08:48 16:55	08:14 09:25-10:05/40 17:45 08:47-09:09/22	07:19 13:41-15:24/103 07:43-08:05/22 18:35 09:16-10:06/50	07:10 14:16-16:34/138 20:27	06:09 06:40-07:00/20 21:16 15:20-16:13/53	05:32 06:14-06:41/27 21:56
8	08:48 16:56	08:13 09:24-10:07/43 17:47 08:49-09:09/20	07:17 13:40-15:26/106 07:54-08:04/10 18:37 09:17-10:04/47 07:45-07:51/6	07:08 14:16-16:34/138 20:28	06:08 06:39-06:59/20 21:17 15:23-16:11/48	05:32 06:15-06:42/27 21:57
9	08:47 16:58	08:11 09:22-10:08/46 17:49 08:49-09:09/20	07:15 13:38-15:26/108 18:38 09:18-10:01/43	07:05 14:17-16:34/137 20:30	06:06 06:40-06:59/19 21:19 15:26-16:10/44	05:31 06:15-06:41/26 21:58
10	08:47 16:59	08:09 09:21-10:09/48 17:51 08:49-09:08/19	07:13 13:36-15:27/111 18:40 09:19-09:59/40	07:03 14:17-16:34/137 20:32	06:04 06:40-06:58/18 21:20 15:30-16:08/38	05:31 06:15-06:42/27 21:59
11	08:46 09:31-09:35/4 17:00	08:08 09:20-10:10/50 17:53 08:50-09:07/17	07:10 13:35-15:28/113 18:42 09:21-09:57/36	07:01 14:17-16:32/135 20:33	06:03 06:41-06:58/17 21:22 15:34-16:07/33	05:31 06:16-06:42/26 21:59
12	08:46 09:28-09:38/10 17:02	08:06 09:19-10:11/52 17:54 08:51-09:06/15	07:08 13:34-15:30/116 07:31-07:35/4 18:44 09:23-09:54/31	06:59 14:18-16:32/134 20:35	06:01 06:41-06:56/15 21:24 15:38-16:04/26	05:30 06:15-06:41/26 22:00
13	08:45 09:27-09:41/14 17:03	08:04 09:18-10:12/54 17:56 08:53-09:03/10	07:06 13:32-15:30/118 07:29-07:36/7 18:45 09:25-09:50/25	06:57 14:19-16:32/133 20:37	05:59 06:43-06:56/13 21:25 15:43-16:00/17	05:30 06:15-06:42/27 22:01
14	08:44 09:26-09:43/17 17:05	08:02 09:17-10:13/56 17:58	07:04 13:31-15:31/120 07:26-07:36/10 18:47 09:29-09:45/16	06:55 14:20-16:31/131 20:38	05:58 06:44-06:53/9 21:27	05:30 06:16-06:42/26 22:01
15	08:44 09:25-09:44/19 17:06	08:00 09:16-10:13/57 18:00	07:01 13:30-15:31/121 18:49 07:24-07:36/12	06:52 07:15-07:17/2 20:40 14:21-16:31/130	05:56 06:47-06:51/4 21:28	05:30 06:16-06:42/26 22:02
16	08:43 09:24-09:46/22 17:08	07:58 09:16-10:14/58 18:02	06:59 13:29-15:32/123 18:50 07:22-07:36/14	06:50 07:13-07:16/3 20:42 14:23-16:31/128	05:55 21:30	05:29 06:16-06:43/27 22:02
17	08:42 09:23-09:47/24 17:09	07:56 09:15-10:14/59 18:03	06:57 13:27-15:32/125 18:52 07:22-07:35/13	06:48 07:11-07:15/4 20:43 14:24-16:30/126	05:53 21:31	05:29 06:17-06:43/26 22:03
18	08:41 09:23-09:48/25 17:11	07:54 09:15-10:15/60 18:05	06:55 13:26-15:33/127 18:54 07:22-07:33/11	06:46 14:26-16:30/124 20:45	05:52 06:24-06:27/3 21:32	05:29 06:17-06:43/26 22:03
19	08:40 09:22-09:50/28 17:12	07:53 09:14-10:15/61 18:07	06:53 13:25-15:34/129 18:55 07:23-07:32/9	06:44 14:28-16:29/121 20:47	05:51 06:21-06:31/10 21:34	05:29 06:17-06:43/26 22:04
20	08:39 09:22-09:51/29 17:14	07:51 09:14-10:15/61 18:09	06:50 13:25-15:34/129 18:57	06:42 14:30-16:29/119 20:48	05:49 06:19-06:33/14 21:35	05:30 06:17-06:43/26 22:04
21	08:38 09:21-09:51/30 17:16	07:49 14:21-14:48/27 18:11 09:13-10:15/62	06:48 13:23-15:34/131 18:59	06:40 14:32-16:28/116 20:50	05:48 06:17-06:33/16 21:37	05:30 06:17-06:43/26 22:04
22	08:37 09:21-09:52/31 17:17	07:47 14:15-14:53/38 18:12 09:13-10:15/62	06:46 13:22-15:34/132 19:00	06:38 14:34-16:27/113 20:51	05:47 06:16-06:35/19 21:38	05:30 06:18-06:44/26 22:04
23	08:36 09:21-09:53/32 17:19	07:45 14:11-14:58/47 18:14 09:13-10:15/62	06:43 13:22-15:35/133 19:02	06:36 14:37-16:27/110 20:53	05:46 06:16-06:36/20 21:39	05:30 06:18-06:44/26 22:05
24	08:35 09:20-09:53/33 17:21	07:42 14:07-15:02/55 18:16 09:13-10:15/62	06:41 13:20-15:34/134 19:04	06:34 14:39-16:26/107 20:55	05:44 06:15-06:36/21 21:41	05:30 06:18-06:44/26 22:05
25	08:33 09:20-09:54/34 17:22	07:40 14:04-15:05/61 18:18 09:13-10:15/62	06:39 13:20-15:35/135 19:05	06:32 14:42-16:25/103 20:56	05:43 06:15-06:37/22 21:42	05:31 06:19-06:45/26 22:05
26	08:32 09:21-09:55/34 17:24	07:38 14:01-15:08/67 08:02-08:04/2 18:19 09:13-10:15/62	06:37 13:19-15:35/136 19:07	06:30 14:45-16:24/99 20:58	05:42 06:14-06:37/23 21:43	05:31 06:19-06:45/26 22:05
27	08:31 09:20-09:55/35 17:26	07:36 13:57-15:10/73 08:00-08:07/7 18:21 09:12-10:13/61	06:34 06:57-07:01/4 19:09 13:19-15:36/137	06:28 14:48-16:23/95 21:00	05:41 06:14-06:38/24 21:45	05:32 06:18-06:44/26 22:05
28	08:30 09:21-09:56/35 17:28	07:34 13:55-15:13/78 07:57-08:07/10 18:23 09:13-10:13/60	06:32 06:55-07:02/7 19:10 13:18-15:35/137	06:26 14:51-16:22/91 21:01	05:40 06:13-06:38/25 21:46	05:32 06:19-06:45/26 22:05
29	08:28 09:20-09:55/35 17:29 08:54-09:02/8		07:30 07:52-08:01/9 20:12 14:18-16:35/137	06:24 06:48-06:56/8 21:03 14:55-16:22/87	05:39 06:14-06:39/25 21:47	05:33 06:20-06:46/26 22:05
30	08:27 09:21-09:56/35 17:31 08:53-09:04/11		07:28 07:50-08:01/11 20:14 14:17-16:35/138	06:22 06:46-06:57/11 21:05 14:58-16:21/83	05:38 06:14-06:40/26 21:48	05:33 06:19-06:46/27 22:04
31	08:25 09:21-09:56/35 17:33 08:51-09:05/14		07:25 07:48-08:01/13 20:15 14:17-16:36/139		05:37 06:14-06:40/26 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	594	2165	4583	3744	1189	791

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 06:20-06:46/26 22:04	06:09 06:52-07:07/15 21:33 15:46-16:15/29	06:57 14:17-16:32/135 20:33	07:44 14:12-16:09/117 08:09-08:15/6 19:25 10:03-10:32/29	07:36 08:51-09:39/48 17:21 08:19-08:38/19	08:26 09:13-09:17/4 16:42
2	05:34 06:19-06:46/27 22:04	06:10 06:51-07:08/17 21:32 15:42-16:17/35	06:59 14:15-16:31/136 20:31	07:46 14:13-16:08/115 08:11-08:13/2 19:23 10:01-10:35/34	07:38 08:52-09:38/46 17:19 08:18-08:39/21	08:27 16:41
3	05:35 06:20-06:46/26 22:03	06:12 06:50-07:09/19 21:30 15:39-16:19/40	07:00 14:15-16:32/137 20:29	07:48 14:14-16:06/112 19:21 09:58-10:36/38	07:40 08:53-09:36/43 17:17 08:17-08:38/21	08:29 16:41
4	05:36 06:20-06:47/27 22:03	06:13 06:49-07:09/20 21:29 15:35-16:21/46	07:02 14:13-16:31/138 20:27	07:49 14:15-16:05/110 19:19 09:56-10:38/42	07:42 08:54-09:34/40 17:16 08:17-08:39/22	08:30 16:40
5	05:37 06:20-06:46/26 22:03	06:15 06:50-07:09/19 21:27 15:32-16:22/50	07:03 14:13-16:31/138 20:24	07:51 14:16-16:03/107 08:32-08:39/7 19:16 09:55-10:40/45 08:23-08:27/4	07:43 08:54-09:33/39 17:14 08:17-08:39/22	08:31 16:40
6	05:37 06:20-06:47/27 22:02	06:16 06:49-07:09/20 21:25 15:28-16:23/55	07:05 14:12-16:30/138 20:22	07:52 14:17-16:01/104 08:29-08:41/12 19:14 09:53-10:41/48 08:20-08:28/8	07:45 08:53-09:31/38 17:12 08:18-08:39/21	08:33 16:39
7	05:38 06:20-06:47/27 22:02	06:18 06:50-07:10/20 21:23 15:25-16:25/60	07:06 14:11-16:30/139 20:20	07:54 14:18-16:00/102 08:19-08:42/23 19:12 09:52-10:42/50	07:47 08:53-09:29/36 17:11 08:18-08:39/21	08:34 16:39
8	05:39 06:21-06:47/26 22:01	06:20 06:49-07:09/20 21:22 15:21-16:25/64	07:08 07:40-07:44/4 20:18 14:10-16:29/139	07:56 14:20-15:58/98 08:21-08:43/22 19:10 09:51-10:44/53	07:49 08:53-09:27/34 17:09 08:19-08:39/20	08:35 16:39
9	05:40 06:21-06:48/27 22:00	06:21 06:50-07:09/19 21:20 15:18-16:26/68	07:10 07:38-07:51/13 20:15 14:10-16:29/139	07:57 14:20-15:56/96 08:22-08:43/21 19:08 09:49-10:44/55	07:50 08:52-09:27/35 17:07 08:19-08:38/19	08:36 16:38
10	05:41 06:21-06:48/27 22:00	06:23 06:50-07:08/18 21:18 15:15-16:27/72	07:11 07:36-07:52/16 20:13 14:09-16:28/139	07:59 14:22-15:54/92 08:24-08:43/19 19:05 09:48-10:45/57	07:52 08:52-09:27/35 17:06 08:21-08:38/17	08:37 16:38
11	05:42 06:22-06:48/26 21:59	06:24 06:51-07:07/16 21:16 15:11-16:27/76	07:13 07:38-07:53/15 20:11 14:09-16:28/139	08:01 14:24-15:52/88 08:26-08:43/17 19:03 09:48-10:46/58	07:54 08:53-09:28/35 17:04 08:23-08:37/14	08:38 16:38
12	05:43 06:22-06:48/26 21:58	06:26 06:53-07:06/13 21:14 15:08-16:29/81	07:14 07:39-07:52/13 20:09 14:08-16:27/139	08:02 14:25-15:49/84 08:28-08:42/14 19:01 09:46-10:45/59	07:56 08:52-09:27/35 17:03 08:24-08:35/11	08:39 16:38
13	05:44 06:22-06:48/26 21:57	06:27 06:54-07:04/10 21:12 15:04-16:29/85	07:16 07:41-07:53/12 20:06 14:09-16:27/138	08:04 14:27-15:47/80 08:29-08:41/12 18:59 09:46-10:46/60	07:57 08:52-09:27/35 17:01 08:26-08:33/7	08:40 16:38
14	05:45 06:22-06:48/26 21:56	06:29 06:56-07:03/7 21:11 15:01-16:30/89	07:17 07:42-07:52/10 20:04 14:08-16:26/138	08:06 14:29-15:45/76 08:31-08:40/9 18:57 09:46-10:46/60	07:59 08:53-09:28/35 17:00	08:41 16:38
15	05:46 06:23-06:48/25 21:55	06:30 14:57-16:30/93 21:09	07:19 07:44-07:51/7 20:02 14:08-16:25/137	08:07 14:32-15:42/70 08:33-08:38/5 18:55 09:46-10:47/61	08:01 08:53-09:28/35 16:59	08:42 16:38
16	05:48 06:23-06:48/25 21:54	06:32 14:55-16:31/96 21:07	07:21 07:45-07:49/4 19:59 14:07-16:24/137	08:09 14:33-15:39/66 18:52 09:44-10:46/62	08:02 08:54-09:28/34 16:57	08:43 16:38
17	05:49 06:23-06:47/24 21:53	06:33 14:51-16:31/100 21:05	07:22 14:08-16:24/136 19:57	08:11 14:36-15:35/59 18:50 09:44-10:46/62	08:04 08:54-09:28/34 16:56	08:44 16:38
18	05:50 06:24-06:47/23 21:52	06:35 14:48-16:32/104 21:03	07:24 14:07-16:22/135 19:55	08:12 14:40-15:32/52 18:48 09:44-10:47/63	08:06 08:54-09:27/33 16:55	08:44 16:39
19	05:51 06:24-06:46/22 21:51	06:37 14:44-16:32/108 21:01	07:25 14:08-16:22/134 19:53	08:14 14:43-15:28/45 18:46 09:45-10:47/62	08:07 08:55-09:27/32 16:53	08:45 16:39
20	05:52 06:26-06:46/20 21:50	06:38 14:42-16:32/110 20:59	07:27 14:08-16:22/134 19:50	08:16 14:47-15:22/35 18:44 09:45-10:47/62	08:09 08:56-09:27/31 16:52	08:46 16:39
21	05:54 06:27-06:46/19 21:49	06:40 14:39-16:32/113 20:57	07:28 14:08-16:20/132 19:48	08:17 14:54-15:16/22 18:42 09:44-10:46/62	08:11 08:57-09:27/30 16:51	08:46 16:40
22	05:55 06:27-06:45/18 21:48	06:41 14:36-16:33/117 20:55	07:30 14:08-16:20/132 19:46	08:19 09:44-10:45/61 18:40	08:12 08:58-09:27/29 16:50	08:47 16:40
23	05:56 06:28-06:43/15 21:46	06:43 14:33-16:32/119 20:52	07:32 14:08-16:18/130 19:43	08:21 09:45-10:45/60 18:38	08:14 08:58-09:26/28 16:49	08:47 16:41
24	05:58 06:30-06:43/13 21:45	06:44 14:31-16:33/122 20:50	07:33 14:09-16:17/128 19:41 08:08-08:14/6	08:23 09:45-10:45/60 18:36	08:15 09:00-09:26/26 16:48	08:48 16:41
25	05:59 06:32-06:40/8 21:44	06:46 07:14-07:15/1 20:48 14:28-16:32/124	07:35 14:09-16:16/127 19:39 08:05-08:16/11	07:24 08:46-09:45/59 17:34	08:17 09:01-09:25/24 16:47	08:48 16:42
26	06:00 21:42	06:48 07:14-07:18/4 20:46 14:27-16:33/126	07:36 14:09-16:15/126 19:37 08:04-08:17/13	07:26 08:45-09:43/58 17:32	08:19 09:02-09:24/22 16:46	08:49 16:43
27	06:02 21:41	06:49 07:15-07:18/3 20:44 14:24-16:32/128	07:38 14:10-16:14/124 19:34 08:03-08:18/15	07:28 08:46-09:43/57 17:30	08:20 09:04-09:24/20 16:45	08:49 16:43
28	06:03 21:40	06:51 07:17-07:19/2 20:42 14:23-16:33/130	07:40 14:10-16:12/122 19:32 08:04-08:17/13	07:29 08:47-09:42/55 17:28 08:25-08:30/5	08:22 09:06-09:23/17 16:44	08:49 16:44
29	06:05 06:56-07:03/7 21:38	06:52 14:21-16:32/131 20:40	07:41 14:11-16:12/121 08:06-08:17/11 19:30 10:12-10:24/12	07:31 08:48-09:41/53 17:26 08:22-08:34/12	08:23 09:07-09:21/14 16:43	08:49 16:45
30	06:06 06:53-07:05/12 21:37 15:58-16:06/8	06:54 14:20-16:33/133 20:38	07:43 14:11-16:10/119 08:08-08:16/8 19:28 10:06-10:28/22	07:33 08:49-09:41/52 17:25 08:21-08:35/14	08:24 09:10-09:20/10 16:43	08:49 16:46
31	06:08 06:53-07:06/13 21:35 15:51-16:12/21	06:55 14:18-16:32/134 20:35	 	07:35 08:50-09:40/50 17:23 08:20-08:37/17	 	08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	643	3081	4211	3646	1188	4

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	19:46-19:51/5	06:20		05:36	21:15-21:19/4
	16:48	17:35	18:25		20:17		21:06		21:51	21:06-21:13/7
2	08:50	08:23	07:30	17:59-18:01/2	07:21	19:46-19:53/7	06:18		05:36	21:16-21:20/4
	16:49	17:36	18:27		20:19		21:08		21:52	21:08-21:13/5
3	08:50	08:21	07:28	17:54-18:03/9	07:19	19:46-19:55/9	06:16		05:35	21:16-21:21/5
	16:50	17:38	18:28		20:20		21:10		21:53	
4	08:49	08:20	07:26	17:52-18:05/13	07:17	19:48-19:57/9	06:15		05:34	21:16-21:21/5
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24	17:49-18:06/17	07:14	19:50-19:58/8	06:13		05:34	21:17-21:23/6
	16:53	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:22	17:48-18:08/20	07:12	19:52-19:59/7	06:11		05:33	21:17-21:23/6
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19	17:48-18:10/22	07:10	19:51-20:01/10	06:09		05:32	21:18-21:24/6
	16:55	17:45	18:35		20:27		21:16		21:57	
8	08:48	08:13	07:17	17:47-18:12/25	07:08	19:52-20:03/11	06:08		05:32	21:18-21:25/7
	16:56	17:47	18:37		20:29		21:18		21:57	
9	08:48	08:11	07:15	17:47-18:12/25	07:06	19:52-20:05/13	06:06		05:31	21:18-21:26/8
	16:58	17:49	18:39		20:30		21:19		21:58	
10	08:47	08:09	07:13	17:46-18:12/26	07:03	19:53-20:06/13	06:04		05:31	21:18-21:27/9
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:47	08:08	07:11	17:46-18:12/26	07:01	19:53-20:03/10	06:03		05:31	21:18-21:28/10
	17:00	17:53	18:42		20:34		21:22		22:00	
12	08:46	08:06	07:08	17:46-18:11/25	06:59	19:55-20:01/6	06:01		05:30	21:17-21:27/10
	17:02	17:55	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	17:46-18:11/25	06:57		05:59		05:30	21:17-21:28/11
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:45	08:02	07:04	17:46-18:09/23	06:55		05:58		05:30	21:18-21:29/11
	17:05	17:58	18:47		20:39		21:27		22:02	
15	08:44	08:00	07:02	17:47-18:08/21	06:53		05:56		05:30	21:18-21:29/11
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	17:49-18:07/18	06:50		05:55		05:30	21:18-21:30/12
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:57	06:57	17:50-18:04/14	06:48		05:54		05:29	21:18-21:30/12
	17:09	18:04	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	17:53-18:01/8	06:46		05:52	21:02-21:03/1	05:29	21:18-21:31/13
	17:11	18:05	18:54		20:45		21:33		22:04	
19	08:40	07:53	06:53	18:29-18:31/2	06:44		05:51	21:02-21:04/2	05:30	21:18-21:31/13
	17:12	18:07	18:56		20:47		21:34		22:04	
20	08:39	07:51	06:50	18:29-18:32/3	06:42		05:49	21:02-21:06/4	05:30	21:18-21:31/13
	17:14	18:09	18:57		20:48		21:36		22:04	
21	08:38	07:49	06:48	18:27-18:33/6	06:40		05:48	21:01-21:06/5	05:30	21:18-21:31/13
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46	18:27-18:35/8	06:38		05:47	21:01-21:07/6	05:30	21:19-21:32/13
	17:17	18:12	19:01		20:52		21:38		22:05	
23	08:36	07:45	06:44	18:28-18:37/9	06:36		05:46	21:01-21:09/8	05:30	21:19-21:32/13
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41	18:28-18:38/10	06:34		05:44	21:01-21:10/9	05:30	21:19-21:32/13
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:41	06:39	18:30-18:36/6	06:32		05:43	21:01-21:11/10	05:31	21:20-21:33/13
	17:22	18:18	19:06		20:57		21:42		22:05	
26	08:32	07:39	06:37		06:30		05:42	21:02-21:12/10	05:31	21:20-21:32/12
	17:24	18:20	19:07		20:58		21:44		22:05	
27	08:31	07:36	06:35		06:28		05:41	21:02-21:13/11	05:32	21:20-21:32/12
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	21:02-21:14/12	05:32	21:21-21:32/11
	17:28	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30		06:24		05:39	21:04-21:16/12	05:33	21:21-21:32/11
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	19:47-19:49/2	06:22		05:38	21:16-21:17/1	05:33	21:21-21:32/11
	17:31		20:14		21:05		21:48	21:04-21:15/11	22:05	
31	08:26		07:26	19:47-19:50/3			05:37	21:15-21:18/3		
	17:33		20:15				21:50	21:05-21:14/9		
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	368		108		114		310	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 21:22-21:32/10	06:09	06:57 19:53-20:03/10	07:45 18:25-18:50/25	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 21:22-21:31/9	06:11	06:59 19:51-20:03/12	07:46 18:25-18:50/25	07:38	08:28
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 21:23-21:31/8	06:12	07:00 19:50-20:03/13	07:48 18:23-18:49/26	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 21:24-21:31/7	06:14	07:02 19:49-20:00/11	07:49 18:24-18:49/25	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 21:23-21:30/7	06:15	07:03 19:49-19:58/9	07:51 18:24-18:49/25	07:44	08:32
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 21:23-21:30/7	06:17	07:05 19:48-19:55/7	07:53 18:23-18:47/24	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 21:23-21:29/6	06:18	07:07 19:46-19:54/8	07:54 18:24-18:45/21	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 21:23-21:29/6	06:20	07:08 19:42-19:51/9	07:56 18:25-18:43/18	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 21:24-21:29/5	06:21	07:10 19:41-19:49/8	07:58 18:25-18:40/15	07:51	08:36
	22:01	21:20	20:16	19:08	17:07	16:39
10	05:41 21:24-21:28/4	06:23	07:11 19:39-19:46/7	07:59 18:27-18:38/11	07:52	08:37
	22:00 21:16-21:20/4	21:18	20:13	19:05	17:06	16:38
11	05:42 21:24-21:27/3	06:24	07:13 19:39-19:45/6	08:01 18:30-18:36/6	07:54	08:39
	21:59 21:15-21:21/6	21:16	20:11	19:03	17:04	16:38
12	05:43 21:24-21:27/3	06:26	07:14 19:38-19:42/4	08:02	07:56	08:40
	21:58 21:14-21:22/8	21:15	20:09	19:01	17:03	16:38
13	05:44 21:24-21:26/2	06:27	07:16 19:39-19:40/1	08:04	07:57	08:41
	21:57 21:13-21:23/10	21:13	20:06	18:59	17:01	16:38
14	05:45 21:13-21:25/12	06:29	07:18	08:06	07:59	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 21:12-21:24/12	06:30	07:19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 21:12-21:23/11	06:32	07:21	08:09	08:03	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 21:11-21:22/11	06:34	07:22	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 21:11-21:21/10	06:35	07:24 19:18-19:23/5	08:13	08:06	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 21:11-21:20/9	06:37	07:25 19:16-19:26/10	08:14	08:08	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 21:10-21:19/9	06:38	07:27 19:15-19:24/9	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:11-21:19/8	06:40	07:29 19:13-19:21/8	08:18	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 21:11-21:17/6	06:41	07:30 19:13-19:20/7	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 21:11-21:16/5	06:43	07:32 19:12-19:17/5	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 21:11-21:14/3	06:45	07:33 19:13-19:15/2	08:23	08:16	08:48
	21:45	20:51	19:41	18:36	16:48	16:41
25	05:59 21:12-21:14/2	06:46	07:35 18:38-18:41/3	07:24	08:17	08:49
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:33-18:46/13	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:31-18:48/17	07:28	08:20	08:49
	21:41	20:44	19:35	17:30	16:45	16:43
28	06:03	06:51	07:40 18:29-18:48/19	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 18:27-18:50/23	07:31	08:23	08:50
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 18:26-18:49/23	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:55-20:01/6		07:35		08:50
	21:35	20:36		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	203	6	249	221	0	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:50 16:48	08:24 16:59-17:05/6 17:35	07:32 17:57-17:59/2 18:25	07:23 20:17	06:20 20:36-20:38/2 21:06	05:36 21:51
2	08:50 16:49	08:23 16:58-17:07/9 17:36	07:30 17:57-18:01/4 18:27	07:21 20:19	06:18 20:35-20:40/5 21:08	05:36 21:52
3	08:50 16:50	08:21 16:57-17:09/12 17:38	07:28 17:57-18:03/6 18:28	07:19 20:20	06:16 20:35-20:41/6 21:10	05:35 21:53
4	08:49 16:51	08:20 16:57-17:11/14 17:40	07:26 17:58-18:05/7 18:30	07:17 20:22	06:15 20:36-20:43/7 21:11	05:34 21:54
5	08:49 16:53	08:18 16:56-17:13/17 17:42	07:24 17:58-18:06/8 18:32	07:14 20:24	06:13 20:37-20:44/7 21:13	05:34 21:55
6	08:49 16:54	08:16 16:56-17:15/19 17:44	07:22 18:00-18:05/5 18:33	07:12 20:25	06:11 20:38-20:44/6 21:14	05:33 21:56
7	08:48 16:55	08:15 16:56-17:16/20 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:57
8	08:48 16:56	08:13 16:57-17:18/21 17:47	07:17 18:37	07:08 20:29	06:08 21:18	05:32 21:57
9	08:48 16:58	08:11 16:57-17:17/20 17:49	07:15 18:39	07:06 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 16:57-17:17/20 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 21:59
11	08:47 17:00	08:08 16:58-17:16/18 17:53	07:11 18:42	07:01 20:34	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 16:59-17:15/16 17:55	07:08 18:16-18:19/3 18:44	06:59 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 17:01-17:13/12 17:56	07:06 18:15-18:20/5 18:45	06:57 20:37	06:00 21:25	05:30 22:01
14	08:45 17:05	08:02 17:03-17:11/8 17:58	07:04 18:16-18:22/6 18:47	06:55 20:39	05:58 21:27	05:30 22:02
15	08:44 17:06	08:00 18:00	07:02 18:16-18:24/8 18:49	06:53 20:09-20:14/5 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 18:02	06:59 18:16-18:26/10 18:50	06:50 20:07-20:15/8 20:42	05:55 21:30	05:30 22:03
17	08:42 17:09	07:57 18:04	06:57 18:16-18:27/11 18:52	06:48 20:06-20:17/11 20:43	05:54 21:31	05:30 22:03
18	08:41 17:11	07:55 18:05	06:55 18:17-18:28/11 18:54	06:46 20:04-20:19/15 20:45	05:52 21:33	05:30 22:04
19	08:40 17:12	07:53 18:07	06:53 18:19-18:26/7 18:56	06:44 20:04-20:20/16 20:47	05:51 21:34	05:30 22:04
20	08:39 17:14	07:51 18:09	06:50 18:57	06:42 20:03-20:22/19 20:48	05:49 21:35	05:30 22:04
21	08:38 17:16	07:49 18:11	06:48 18:59	06:40 20:02-20:23/21 20:50	05:48 21:37	05:30 22:04
22	08:37 17:17	07:47 18:12	06:46 19:01	06:38 20:02-20:25/23 20:52	05:47 21:38	05:30 22:05
23	08:36 17:19	07:45 18:14	06:44 19:02	06:36 20:02-20:26/24 20:53	05:46 21:40	05:30 22:05
24	08:35 17:21	07:43 18:16	06:41 19:04	06:34 20:02-20:28/26 20:55	05:44 21:41	05:30 22:05
25	08:34 17:22	07:41 18:18	06:39 19:06	06:32 20:02-20:29/27 20:57	05:43 21:42	05:31 22:05
26	08:32 17:24	07:39 18:20	06:37 19:07	06:30 20:02-20:27/25 20:58	05:42 21:44	05:31 22:05
27	08:31 17:26	07:36 18:21	06:35 19:09	06:28 20:03-20:24/21 21:00	05:41 21:45	05:32 22:05
28	08:30 17:28	07:34 18:23	06:32 19:10	06:26 20:04-20:20/16 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 20:12	06:24 20:06-20:20/14 21:03	05:39 21:47	05:33 22:05
30	08:27 17:31		07:28 20:14	06:22 20:36-20:37/1 21:05 20:08-20:17/9	05:38 21:48	05:33 22:05
31	08:26 16:59-17:03/4 17:33		07:26 20:15		05:37 21:50	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	4	212	93	281	33	0

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

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

Licensed user:
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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August		September		October		November		December
1	05:34	06:09		06:57		07:45	18:55-18:58/3	07:37	16:27-16:47/20	08:26
	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59		07:46	18:55-18:56/1	07:38	16:27-16:47/20	08:28
	22:04	21:32		20:31		19:23		17:19		16:42
3	05:35	06:12		07:00		07:48		07:40	16:26-16:47/21	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02		07:49		07:42	16:25-16:46/21	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03		07:51		07:44	16:26-16:44/18	08:32
	22:03	21:27		20:24		19:17		17:14		16:40
6	05:38	06:17	20:50-20:53/3	07:05		07:53		07:45	16:26-16:42/16	08:33
	22:02	21:25		20:22		19:14		17:12		16:40
7	05:38	06:18	20:48-20:55/7	07:07		07:54		07:47	16:27-16:41/14	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20	20:46-20:53/7	07:08		07:56	18:35-18:42/7	07:49	16:27-16:39/12	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21	20:45-20:51/6	07:10		07:58	18:32-18:40/8	07:51	16:28-16:38/10	08:36
	22:00	21:20		20:16		19:08		17:07		16:39
10	05:41	06:23	20:45-20:50/5	07:11		07:59	18:32-18:38/6	07:52	16:30-16:36/6	08:37
	22:00	21:18		20:13		19:05		17:06		16:38
11	05:42	06:24	20:44-20:48/4	07:13		08:01	18:31-18:36/5	07:54	16:31-16:35/4	08:38
	21:59	21:16		20:11		19:03		17:04		16:38
12	05:43	06:26	20:44-20:46/2	07:14		08:02	18:30-18:33/3	07:56		08:40
	21:58	21:15	20:19-20:22/3	20:09		19:01		17:03		16:38
13	05:44	06:27	20:15-20:25/10	07:16		08:04		07:57		08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29	20:13-20:28/15	07:18		08:06		07:59		08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30	20:11-20:28/17	07:19		08:07		08:01		08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32	20:10-20:32/22	07:21		08:09		08:03		08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34	20:09-20:34/25	07:22		08:11		08:04		08:44
	21:54	21:05		19:57		18:50		16:56		16:39
18	05:50	06:35	20:09-20:35/26	07:24		08:13		08:06		08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37	20:07-20:33/26	07:25		08:14		08:08		08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:53	06:38	20:08-20:32/24	07:27		08:16		08:09		08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40	20:07-20:29/22	07:29		08:18		08:11		08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41	20:07-20:28/21	07:30		08:19		08:12		08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43	20:07-20:25/18	07:32		08:21		08:14		08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45	20:07-20:24/17	07:33	19:04-19:08/4	08:23		08:16		08:48
	21:45	20:51		19:41		18:36		16:48		16:41
25	05:59	06:46	20:07-20:21/14	07:35	19:00-19:10/10	07:24		08:17		08:49
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:01	06:48	20:09-20:20/11	07:37	18:59-19:10/11	07:26		08:19		08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49	20:09-20:17/8	07:38	18:58-19:08/10	07:28		08:20		08:49
	21:41	20:44		19:35		17:30		16:45		16:43
28	06:03	06:51	20:11-20:15/4	07:40	18:57-19:05/8	07:30	16:32-16:41/9	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52		07:41	18:57-19:03/6	07:31	16:30-16:43/13	08:23		08:50
	21:38	20:40		19:30		17:27		16:44		16:45
30	06:06	06:54		07:43	18:55-19:00/5	07:33	16:28-16:45/17	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56				07:35	16:28-16:46/18			08:50
	21:35	20:36				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	317		54		90		162		0

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

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

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50 16:48	08:24 17:34	07:32 18:25	07:23 20:17	06:20 21:06	05:36 06:24-06:41/17 21:50	05:34 06:37-06:41/4 22:04 06:04-06:10/6	06:09 21:34	06:57 07:26-07:29/3 20:33	07:44 19:25	07:36 17:21	08:26 16:42
2	08:49 16:49	08:22 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:35 06:25-06:41/16 21:52	05:34 06:35-06:41/6 22:04 06:04-06:09/5	06:10 21:32	06:59 07:24-07:30/6 20:31	07:46 19:23	07:38 17:19	08:27 16:41
3	08:49 16:50	08:21 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 06:25-06:40/15 21:53	05:35 06:35-06:43/8 22:04 06:05-06:09/4	06:12 21:30	07:00 07:26-07:31/5 20:29	07:48 19:21	07:40 17:17	08:29 16:41
4	08:49 16:51	08:19 17:40	07:26 18:30	07:16 20:22	06:14 21:11	05:34 06:25-06:40/15 21:54	05:36 06:35-06:44/9 22:03 06:06-06:09/3	06:13 21:29	07:02 07:27-07:31/4 20:27	07:49 19:19	07:42 17:16	08:30 16:40
5	08:49 16:52	08:18 17:42	07:24 18:32	07:14 20:24	06:13 21:13	05:33 06:27-06:40/13 21:55	05:36 06:33-06:44/11 22:03 06:06-06:07/1	06:15 21:27	07:03 07:29-07:30/1 20:24	07:51 19:16	07:43 17:14	08:31 16:40
6	08:49 16:54	08:16 17:43	07:21 18:33	07:12 20:25	06:11 21:14	05:33 06:27-06:39/12 21:56	05:37 06:33-06:45/12 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 17:12	08:33 16:39
7	08:48 16:55	08:14 17:45	07:19 18:35	07:10 07:32-07:33/1 20:27	06:09 21:16	05:32 06:28-06:39/11 21:56	05:38 06:33-06:46/13 22:02	06:18 21:23	07:06 20:20	07:54 19:12	07:47 17:10	08:34 16:39
8	08:48 16:56	08:13 17:47	07:17 18:37	07:08 07:30-07:34/4 20:28	06:07 21:17	05:32 06:28-06:38/10 21:57 06:00-06:02/2	05:39 06:33-06:47/14 22:01	06:19 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 16:39
9	08:47 16:57	08:11 17:49	07:15 18:38	07:05 07:28-07:33/5 20:30	06:06 21:19	05:31 06:29-06:38/9 21:58 06:00-06:03/3	05:40 06:33-06:48/15 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 17:07	08:36 16:38
10	08:47 16:59	08:09 17:51	07:13 18:40	07:03 07:26-07:32/6 20:32	06:04 21:21	05:31 06:31-06:37/6 21:59 06:00-06:04/4	05:41 06:33-06:48/15 22:00	06:23 21:18	07:11 20:13	07:59 19:05	07:52 17:06	08:37 16:38
11	08:46 17:00	08:08 17:53	07:10 18:42	07:01 07:27-07:30/3 20:33	06:02 21:22	05:30 06:31-06:36/5 22:00 05:59-06:04/5	05:42 06:32-06:49/17 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:24	05:30 06:33-06:35/2 22:00 05:59-06:05/6	05:43 06:32-06:49/17 21:58	06:26 21:14	07:14 20:09	08:02 19:01	07:56 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 05:59-06:06/7 22:01	05:44 06:32-06:50/18 21:57	06:27 21:12	07:16 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:04	08:02 17:58	07:04 18:47	06:54 20:38	05:58 06:29-06:34/5 21:27	05:30 05:59-06:06/7 22:01	05:45 06:32-06:50/18 21:56	06:29 21:11	07:17 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:44 17:06	08:00 18:00	07:01 18:49	06:52 20:40	05:56 06:27-06:37/10 21:28	05:29 05:59-06:07/8 22:02	05:46 06:32-06:51/19 21:55	06:30 21:09	07:19 20:02	08:07 18:54	08:01 16:58	08:42 16:38
16	08:43 17:07	07:58 18:02	06:59 18:50	06:50 20:42	05:55 06:26-06:38/12 21:30	05:29 05:59-06:07/8 22:03	05:47 06:32-06:51/19 21:54	06:32 21:07	07:21 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 06:24-06:39/15 21:31	05:29 05:59-06:07/8 22:03	05:49 06:31-06:51/20 21:53	06:33 21:05	07:22 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:54 18:05	06:55 18:54	06:46 20:45	05:52 06:24-06:40/16 21:33	05:29 05:59-06:07/8 22:03	05:50 06:31-06:51/20 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 16:54	08:45 16:39
19	08:40 17:12	07:53 18:07	06:52 18:55	06:44 20:47	05:51 06:23-06:40/17 21:34	05:29 05:59-06:08/9 22:04	05:51 06:31-06:51/20 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:51 18:09	06:50 18:57	06:42 20:48	05:49 06:23-06:41/18 21:35	05:29 05:59-06:08/9 22:04	05:52 06:31-06:51/20 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:15	07:49 18:10	06:48 18:59	06:40 20:50	05:48 06:22-06:41/19 21:37	05:30 05:59-06:08/9 22:04	05:54 06:32-06:52/20 21:49	06:40 20:57	07:28 19:48	08:17 18:42	08:11 16:51	08:47 16:40
22	08:37 17:17	07:47 18:12	06:46 19:00	06:38 20:52	05:47 06:22-06:41/19 21:38	05:30 06:00-06:09/9 22:05	05:55 06:32-06:51/19 21:48	06:41 20:55	07:30 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:45 18:14	06:43 19:02	06:36 20:53	05:45 06:22-06:41/19 21:39	05:30 06:00-06:09/9 22:05	05:56 06:32-06:51/19 21:47	06:43 20:52	07:32 19:43	08:21 18:38	08:14 16:49	08:48 16:41
24	08:35 17:21	07:43 18:16	06:41 19:04	06:34 20:55	05:44 06:22-06:42/20 21:41	05:30 06:00-06:09/9 22:05	05:58 06:33-06:50/17 21:45	06:44 20:50	07:33 19:41	08:23 18:36	08:16 16:48	08:48 16:41
25	08:34 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 06:22-06:42/20 21:42	05:31 06:01-06:09/8 22:05	05:59 06:34-06:51/17 21:44	06:46 20:48	07:35 19:39	08:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 06:22-06:42/20 21:43	05:31 06:01-06:09/8 22:05	06:00 06:34-06:50/16 21:42	06:48 20:46	07:36 19:37	08:26 17:32	08:19 16:46	08:49 16:42
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 06:22-06:42/20 21:45	05:31 06:01-06:09/8 22:05	06:02 06:35-06:49/14 21:41	06:49 20:44	07:38 19:34	08:28 17:30	08:20 16:45	08:49 16:43
28	08:30 17:27	07:34 18:23	06:32 19:10	06:26 21:01	05:40 06:22-06:41/19 21:46	05:32 06:02-06:09/7 22:05	06:03 06:37-06:48/11 21:40	06:51 20:42	07:40 19:32	08:29 17:28	08:22 16:44	08:49 16:44
29	08:28 17:29		07:30 20:12	06:24 21:03	05:39 06:22-06:41/19 21:47	05:32 06:02-06:09/7 22:05	06:05 06:38-06:46/8 21:38	06:52 20:40	07:41 19:30	08:31 17:26	08:23 16:43	08:49 16:45
30	08:27 17:31		07:28 20:14	06:22 21:05	05:38 06:23-06:42/19 21:48	05:33 06:03-06:09/6 22:04	06:06 21:37	06:54 20:38	07:43 19:28	08:33 17:24	08:25 16:43	08:49 16:46
31	08:25 17:33		07:25 20:15		05:37 06:24-06:41/17 21:49		06:07 21:35	06:55 20:35		07:35 17:23		08:50 16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	19	304	295	455	0	19	0	0	0

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34 06:25-06:37/12	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35	05:34 06:26-06:36/10	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35 06:27-06:36/9	06:12	07:00 07:31-07:38/7	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16 07:39-07:42/3	06:14	05:34	05:36 06:29-06:35/6	06:13	07:02 07:29-07:38/9	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14 07:37-07:43/6	06:13	05:33	05:36	06:15	07:03 07:29-07:39/10	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12 07:34-07:42/8	06:11	05:33	05:37	06:16	07:05 07:30-07:38/8	07:52	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:42/10	06:09	05:32	05:38	06:18	07:06 07:32-07:38/6	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08 07:32-07:41/9	06:07	05:32 06:24-06:27/3	05:39	06:19	07:08 07:33-07:37/4	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05 07:33-07:40/7	06:06	05:31 06:22-06:30/8	05:40	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:22-06:31/9	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:20-06:32/12	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:20-06:33/13	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:20-06:34/14	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 06:20-06:34/14	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 06:20-06:35/15	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 06:20-06:36/16	05:47	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 06:20-06:36/16	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29 06:20-06:36/16	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29 06:20-06:37/17	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 06:20-06:37/17	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30 06:20-06:37/17	05:54	06:40	07:28	08:17	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:21-06:38/17	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:21-06:38/17	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30 06:21-06:38/17	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31 06:21-06:37/16	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:22-06:38/16	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31 06:22-06:37/15	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32 06:23-06:38/15	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32 06:23-06:37/14	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33 06:24-06:37/13	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	43	0	327	37	0	44	0	0	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 18:54-19:56/62	05:34 18:58-20:06/68	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18	05:36 18:55-19:57/62	05:34 18:58-20:05/67	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 18:54-19:57/63	05:35 18:59-20:06/67	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:15	05:34 18:54-19:58/64	05:36 18:59-20:06/67	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 18:54-19:59/65	05:37 18:59-20:05/66	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 18:54-19:59/65	05:37 19:00-20:05/65	06:16	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:15	07:19	07:10	06:09	05:32 18:54-20:00/66	05:38 19:00-20:05/65	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32 18:53-20:00/67	05:39 19:01-20:05/64	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 18:54-20:00/66	05:40 19:02-20:05/63	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 18:54-20:01/67	05:41 19:02-20:05/63	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:03	05:30 18:53-20:01/68	05:42 19:03-20:04/61	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 18:54-20:01/67	05:43 19:03-20:04/61	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 18:54-20:02/68	05:44 19:04-20:04/60	06:27	07:16 08:13-08:17/4	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58 19:16-19:30/14	05:30 18:54-20:02/68	05:45 19:04-20:03/59	06:29	07:17 08:09-08:20/11	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56 19:12-19:35/23	05:30 18:54-20:03/69	05:46 19:05-20:02/57	06:30	07:19 08:07-08:22/15	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 19:10-19:38/28	05:29 18:54-20:03/69	05:47 19:06-20:02/56	06:32	07:21 08:05-08:22/17	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 19:07-19:39/32	05:29 18:55-20:03/68	05:49 19:06-20:01/55	06:33	07:22 08:04-08:23/19	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55 07:24-07:32/8	06:46	05:52 19:05-19:41/36	05:29 18:55-20:04/69	05:50 19:07-20:00/53	06:35	07:24 08:03-08:23/20	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53 07:21-07:35/14	06:44	05:51 19:04-19:43/39	05:29 18:55-20:04/69	05:51 19:08-19:59/51	06:37	07:25 08:03-08:23/20	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50 07:20-07:36/16	06:42	05:49 19:03-19:45/42	05:29 18:55-20:04/69	05:52 19:08-19:58/50	06:38	07:27 08:03-08:23/20	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48 07:18-07:36/18	06:40	05:48 19:01-19:45/44	05:30 18:55-20:04/69	05:54 19:10-19:58/48	06:40	07:28 08:02-08:22/20	08:17	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46 07:17-07:36/19	06:38	05:47 19:00-19:47/47	05:30 18:56-20:05/69	05:55 19:11-19:57/46	06:41	07:30 08:03-08:22/19	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44 07:16-07:37/21	06:36	05:45 18:59-19:48/49	05:30 18:56-20:05/69	05:56 19:12-19:55/43	06:43	07:32 08:03-08:20/17	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41 07:16-07:37/21	06:34	05:44 18:58-19:49/51	05:30 18:56-20:05/69	05:58 19:13-19:54/41	06:44	07:33 08:04-08:19/15	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39 07:15-07:35/20	06:32	05:43 18:58-19:50/52	05:31 18:56-20:05/69	05:59 19:15-19:53/38	06:46	07:35 08:06-08:16/10	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37 07:16-07:35/19	06:30	05:42 18:57-19:51/54	05:31 18:57-20:05/68	06:00 19:16-19:51/35	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34 07:16-07:34/18	06:28	05:41 18:57-19:52/55	05:31 18:56-20:05/69	06:02 19:18-19:49/31	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32 07:16-07:32/16	06:26	05:40 18:56-19:52/56	05:32 18:57-20:06/69	06:03 19:21-19:47/26	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30 08:18-08:30/12	06:24	05:39 18:55-19:53/58	05:32 18:57-20:05/68	06:05 19:24-19:44/20	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28 08:21-08:27/6	06:22	05:38 18:56-19:55/59	05:33 18:58-20:06/68	06:06 19:28-19:38/10	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37 18:55-19:55/60		06:08	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	208	0	799	2018	1556	0	207	0	0	0

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March		April		May		June	
1	08:50	08:24	07:32	08:20-08:33/13	07:23	19:02-19:30/28	06:20		05:36	06:04-06:06/2
	16:48	17:35	18:25		20:17		21:06		21:51	
2	08:50	08:23	07:30	08:18-08:35/17	07:21	19:02-19:31/29	06:18	20:20-20:26/6	05:36	06:04-06:07/3
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28	08:16-08:37/21	07:19	19:01-19:31/30	06:16	20:17-20:29/12	05:35	06:03-06:06/3
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26	08:14-08:39/25	07:17	19:01-19:31/30	06:15	20:16-20:31/15	05:34	06:02-06:06/4
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24	08:11-08:39/28	07:14	19:01-19:31/30	06:13	20:14-20:32/18	05:33	06:02-06:06/4
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21	08:10-08:40/30	07:12	19:01-19:30/29	06:11	20:13-20:33/20	05:33	06:01-06:05/4
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19	08:09-08:41/32	07:10	19:01-19:29/28	06:09	20:12-20:34/22	05:32	06:01-06:05/4
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	08:09-08:41/32	07:08	19:02-19:28/26	06:08	20:11-20:34/23	05:32	06:02-06:05/3
	16:56	17:47	18:37		20:29		21:17		21:57	
9	08:48	08:11	07:15	08:08-08:41/33	07:05	19:02-19:28/26	06:06	20:11-20:35/24	05:31	
	16:57	17:49	18:39		20:30		21:19		21:58	
10	08:47	08:09	07:13	08:07-08:41/34	07:03	19:03-19:26/23	06:04	20:10-20:35/25	05:31	
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:46	08:08	07:10	08:07-08:41/34	07:01	19:04-19:24/20	06:03	20:11-20:36/25	05:31	
	17:00	17:53	18:42		20:33		21:22		22:00	
12	08:46	08:06	07:08	08:07-08:40/33	06:59	19:06-19:22/16	06:01	20:10-20:36/26	05:30	
	17:02	17:54	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	08:07-08:40/33	06:57	19:08-19:20/12	05:59	20:11-20:36/25	05:30	
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	08:07-08:39/32	06:55		05:58	20:10-20:36/26	05:30	
	17:05	17:58	18:47		20:38		21:27		22:02	
15	08:44	08:00	07:02	08:07-08:38/31	06:52		05:56	20:11-20:36/25	05:30	
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	08:08-08:37/29	06:50		05:55	20:11-20:36/25	05:29	
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	08:08-08:35/27	06:48		05:53	20:11-20:35/24	05:29	
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	08:09-08:33/24	06:46		05:52	20:12-20:35/23	05:29	
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:53	08:11-08:31/20	06:44		05:51	20:12-20:35/23	05:29	
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50	08:13-08:29/16	06:42		05:49	20:13-20:34/21	05:30	
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48	08:15-08:24/9	06:40		05:48	20:13-20:33/20	05:30	
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46		06:38		05:47	20:14-20:32/18	05:30	
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:44		06:36		05:46	20:16-20:32/16	05:30	
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41		06:34		05:44	20:17-20:31/14	05:30	
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:41	06:39		06:32		05:43	20:18-20:30/12	05:31	
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37	18:15-18:22/7	06:30		05:42	20:20-20:28/8	05:31	
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34	18:11-18:25/14	06:28		05:41	20:22-20:26/4	05:32	
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32	18:08-18:26/18	06:26		05:40		05:32	
	17:28	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	19:06-19:28/22	06:24		05:39		05:33	
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	19:05-19:30/25	06:22		05:38		05:33	
	17:31		20:14		21:05		21:48		22:04	
31	08:26		07:25	19:04-19:31/27			05:37	06:05-06:06/1		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	666		327		501		27	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34	06:09 20:21-20:46/25	06:57 19:04-19:24/20	07:44 08:46-09:19/33	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:10 20:20-20:45/25	06:59 19:01-19:24/23	07:46 08:46-09:19/33	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12 20:21-20:46/25	07:00 19:00-19:26/26	07:48 08:45-09:19/34	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13 20:21-20:45/24	07:02 18:59-19:25/26	07:49 08:45-09:18/33	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:11/4	06:15 20:22-20:45/23	07:03 18:58-19:26/28	07:51 08:46-09:18/32	07:44	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:11/4	06:16 20:22-20:43/21	07:05 18:57-19:26/29	07:53 08:45-09:17/32	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:12/4	06:18 20:23-20:43/20	07:06 18:57-19:26/29	07:54 08:46-09:16/30	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20 20:24-20:41/17	07:08 18:55-19:25/30	07:56 08:47-09:15/28	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21 20:25-20:39/14	07:10 18:56-19:25/29	07:57 08:47-09:13/26	07:50	08:36
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:14/3	06:23 20:27-20:37/10	07:11 18:55-19:24/29	07:59 08:49-09:12/23	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:14/2	06:24	07:13 18:55-19:23/28	08:01 08:51-09:11/20	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:15/2	06:26	07:14 18:55-19:22/27	08:02 08:53-09:09/16	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:15/1	06:27	07:16 18:56-19:21/25	08:04 08:56-09:04/8	07:57	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 18:56-19:19/23	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 18:58-19:17/19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 18:59-19:14/15	08:09	08:02	08:43
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49 20:30-20:37/7	06:33	07:22 19:02-19:11/9	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 20:28-20:39/11	06:35	07:24	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51 20:27-20:40/13	06:37	07:25	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 20:26-20:41/15	06:38	07:27	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 20:26-20:43/17	06:40	07:28	08:18	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 20:24-20:43/19	06:41	07:30 09:03-09:07/4	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 20:23-20:44/21	06:43	07:32 08:57-09:11/14	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 20:22-20:44/22	06:44	07:33 08:55-09:14/19	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 20:23-20:45/22	06:46	07:35 08:52-09:15/23	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 20:22-20:45/23	06:48	07:36 08:51-09:17/26	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 20:21-20:46/25	06:49	07:38 08:50-09:18/28	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 20:22-20:46/24	06:51	07:40 08:48-09:18/30	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 20:21-20:46/25	06:52	07:41 08:48-09:19/31	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 20:20-20:46/26	06:54 19:09-19:21/12	07:43 08:46-09:19/33	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 20:21-20:47/26	06:55 19:05-19:22/17		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	323	233	623	348	0	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:50 10:51-11:38/47 16:48	08:24 11:17-11:28/11 17:35	07:32 18:25	07:23 19:39-19:49/10 20:17	06:20 19:47-20:12/25 21:06	05:36 21:51
2	08:50 10:51-11:38/47 16:49	08:23 17:36	07:30 18:26	07:21 19:38-19:51/13 20:19	06:18 19:47-20:11/24 21:08	05:36 06:04-06:06/2 21:52
3	08:49 10:52-11:39/47 16:50	08:21 17:38	07:28 18:28	07:19 19:37-19:52/15 20:20	06:16 19:47-20:10/23 21:10	05:35 06:03-06:06/3 21:53
4	08:49 10:52-11:39/47 16:51	08:19 17:40	07:26 18:30	07:17 19:36-19:53/17 20:22	06:15 19:49-20:10/21 21:11	05:34 06:02-06:06/4 21:54
5	08:49 10:52-11:40/48 16:52	08:18 17:42	07:24 18:32	07:14 19:36-19:53/17 20:24	06:13 19:50-20:09/19 21:13	05:33 06:02-06:06/4 21:55
6	08:49 10:52-11:40/48 16:54	08:16 17:44	07:21 17:59-18:02/3 18:33	07:12 19:34-19:52/18 20:25	06:11 19:50-20:07/17 21:14	05:33 06:01-06:06/5 21:56
7	08:48 10:53-11:41/48 16:55	08:15 17:45	07:19 17:56-18:06/10 18:35	07:10 19:35-19:51/16 20:27	06:09 19:53-20:06/13 21:16	05:32 06:01-06:07/6 21:56
8	08:48 10:53-11:41/48 16:56	08:13 17:47	07:17 17:54-18:08/14 18:37	07:08 19:35-19:51/16 20:29	06:08 19:54-20:04/10 21:17	05:32 06:01-06:07/6 21:57
9	08:48 10:54-11:42/48 16:58	08:11 17:49	07:15 17:52-18:08/16 18:39	07:05 19:36-19:50/14 20:30	06:06 21:19	05:31 06:00-06:07/7 21:58
10	08:47 10:54-11:42/48 16:59	08:09 17:51	07:13 17:51-18:09/18 18:40	07:03 19:38-19:48/10 20:32	06:04 21:21	05:31 06:00-06:07/7 21:59
11	08:46 10:54-11:42/48 17:00	08:08 17:53	07:10 17:51-18:09/18 18:42	07:01 19:39-19:44/5 20:34	06:03 21:22	05:31 06:00-06:08/8 22:00
12	08:46 10:56-11:43/47 17:02	08:06 17:54	07:08 17:51-18:09/18 18:44	06:59 20:35	06:01 21:24	05:30 05:59-06:07/8 22:00
13	08:45 10:56-11:43/47 17:03	08:04 17:56	07:06 17:50-18:08/18 18:45	06:57 20:37	05:59 21:25	05:30 05:59-06:07/8 22:01
14	08:44 10:56-11:43/47 17:05	08:02 17:58	07:04 17:51-18:08/17 18:47	06:55 20:38	05:58 21:27	05:30 05:59-06:08/9 22:02
15	08:44 10:57-11:43/46 17:06	08:00 18:00	07:02 17:52-18:07/15 18:49	06:52 20:40	05:56 21:28	05:30 05:59-06:08/9 22:02
16	08:43 10:57-11:43/46 17:08	07:58 18:02	06:59 17:53-18:06/13 18:50	06:50 20:42	05:55 21:30	05:29 05:59-06:08/9 22:03
17	08:42 10:58-11:44/46 17:09	07:57 18:03	06:57 17:55-18:02/7 18:52	06:48 20:43	05:53 21:31	05:29 05:59-06:08/9 22:03
18	08:41 10:58-11:44/46 17:11	07:55 18:05	06:55 18:54	06:46 20:45	05:52 21:33	05:29 05:59-06:08/9 22:03
19	08:40 10:59-11:44/45 17:12	07:53 18:07	06:53 18:55	06:44 19:56-20:06/10 20:47	05:51 21:34	05:29 05:59-06:08/9 22:04
20	08:39 11:00-11:44/44 17:14	07:51 18:09	06:50 18:57	06:42 19:53-20:09/16 20:48	05:49 21:35	05:30 05:59-06:08/9 22:04
21	08:38 11:00-11:43/43 17:16	07:49 18:11	06:48 18:59	06:40 19:52-20:10/18 20:50	05:48 21:37	05:30 05:59-06:08/9 22:04
22	08:37 11:01-11:43/42 17:17	07:47 18:12	06:46 19:00	06:38 19:50-20:11/21 20:52	05:47 21:38	05:30 06:00-06:09/9 22:05
23	08:36 11:02-11:43/41 17:19	07:45 18:14	06:44 19:02	06:36 19:49-20:12/23 20:53	05:46 21:40	05:30 06:00-06:09/9 22:05
24	08:35 11:03-11:43/40 17:21	07:43 18:16	06:41 19:04	06:34 19:48-20:13/25 20:55	05:44 21:41	05:30 06:00-06:09/9 22:05
25	08:34 11:03-11:41/38 17:22	07:41 18:18	06:39 19:05	06:32 19:47-20:13/26 20:57	05:43 21:42	05:31 06:01-06:10/9 22:05
26	08:32 11:05-11:41/36 17:24	07:38 18:19	06:37 19:07	06:30 19:47-20:13/26 20:58	05:42 21:43	05:31 06:01-06:10/9 22:05
27	08:31 11:06-11:39/33 17:26	07:36 18:21	06:35 19:09	06:28 19:46-20:13/27 21:00	05:41 21:45	05:32 06:02-06:11/9 22:05
28	08:30 11:07-11:39/32 17:28	07:34 18:23	06:32 19:10	06:26 19:46-20:13/27 21:01	05:40 21:46	05:32 06:02-06:11/9 22:05
29	08:28 11:08-11:37/29 17:29		07:30 20:12	06:24 19:47-20:13/26 21:03	05:39 21:47	05:33 06:03-06:11/8 22:05
30	08:27 11:11-11:35/24 17:31		07:28 20:14	06:22 19:47-20:13/26 21:05	05:38 21:48	05:33 06:03-06:11/8 22:04
31	08:26 11:13-11:32/19 17:33		07:25 19:44-19:47/3 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1315	11	170	422	152	219

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 06:04-06:12/8 22:04	06:09 21:34	06:57 19:39-19:44/5 20:33	07:44 18:30-18:48/18 19:25	07:37 17:21	08:26 10:36-11:24/48 16:42
2	05:34 06:04-06:12/8 22:04	06:10 21:32	06:59 19:36-19:46/10 20:31	07:46 18:30-18:48/18 19:23	07:38 17:19	08:27 10:37-11:25/48 16:41
3	05:35 06:05-06:12/7 22:04	06:12 21:30	07:00 19:34-19:48/14 20:29	07:48 18:29-18:47/18 19:21	07:40 17:17	08:29 10:37-11:25/48 16:41
4	05:36 06:06-06:13/7 22:03	06:13 20:07-20:11/4 21:29	07:02 19:32-19:48/16 20:27	07:49 18:30-18:46/16 19:19	07:42 17:16	08:30 10:38-11:26/48 16:40
5	05:37 06:07-06:13/6 22:03	06:15 20:04-20:15/11 21:27	07:03 19:32-19:48/16 20:24	07:51 18:30-18:45/15 19:16	07:44 17:14	08:31 10:38-11:26/48 16:40
6	05:37 06:07-06:12/5 22:02	06:17 20:01-20:16/15 21:25	07:05 19:31-19:48/17 20:22	07:53 18:31-18:43/12 19:14	07:45 17:12	08:33 10:38-11:26/48 16:39
7	05:38 06:08-06:13/5 22:02	06:18 20:00-20:18/18 21:24	07:06 19:31-19:48/17 20:20	07:54 18:33-18:41/8 19:12	07:47 17:11	08:34 10:39-11:27/48 16:39
8	05:39 06:09-06:13/4 22:01	06:20 19:59-20:19/20 21:22	07:08 19:30-19:47/17 20:18	07:56 19:10	07:49 17:09	08:35 10:40-11:27/47 16:39
9	05:40 06:10-06:13/3 22:00	06:21 19:57-20:19/22 21:20	07:10 19:31-19:46/15 20:15	07:57 19:08	07:50 17:07	08:36 10:40-11:27/47 16:38
10	05:41 06:11-06:13/2 22:00	06:23 19:57-20:20/23 21:18	07:11 19:31-19:44/13 20:13	07:59 19:05	07:52 10:48-10:59/11 17:06	08:37 10:40-11:28/48 16:38
11	05:42 06:12-06:13/1 21:59	06:24 19:55-20:20/25 21:16	07:13 19:32-19:43/11 20:11	08:01 19:03	07:54 10:45-11:04/19 17:04	08:38 10:41-11:28/47 16:38
12	05:43 21:58	06:26 19:55-20:21/26 21:14	07:14 19:34-19:39/5 20:09	08:02 19:01	07:56 10:42-11:06/24 17:03	08:39 10:41-11:28/47 16:38
13	05:44 21:57	06:27 19:54-20:20/26 21:13	07:16 20:06	08:04 18:59	07:57 10:40-11:09/29 17:01	08:40 10:42-11:29/47 16:38
14	05:45 21:56	06:29 19:54-20:21/27 21:11	07:17 20:04	08:06 18:57	07:59 10:39-11:11/32 17:00	08:41 10:42-11:29/47 16:38
15	05:46 21:56	06:30 19:54-20:20/26 21:09	07:19 20:02	08:07 18:55	08:01 10:38-11:12/34 16:59	08:42 10:43-11:30/47 16:38
16	05:48 21:55	06:32 19:54-20:20/26 21:07	07:21 20:00	08:09 18:52	08:02 10:38-11:14/36 16:57	08:43 10:44-11:30/46 16:38
17	05:49 21:54	06:34 19:53-20:19/26 21:05	07:22 19:57	08:11 18:50	08:04 10:37-11:15/38 16:56	08:44 10:44-11:31/47 16:38
18	05:50 21:52	06:35 19:54-20:19/25 21:03	07:24 19:55	08:12 18:48	08:06 10:37-11:17/40 16:55	08:45 10:44-11:30/46 16:39
19	05:51 21:51	06:37 19:54-20:18/24 21:01	07:25 19:53	08:14 18:46	08:07 10:36-11:17/41 16:53	08:45 10:45-11:31/46 16:39
20	05:52 21:50	06:38 19:55-20:18/23 20:59	07:27 19:50	08:16 18:44	08:09 10:36-11:18/42 16:52	08:46 10:46-11:32/46 16:39
21	05:54 21:49	06:40 19:55-20:16/21 20:57	07:28 19:48	08:18 18:42	08:11 10:36-11:19/43 16:51	08:47 10:46-11:32/46 16:40
22	05:55 21:48	06:41 19:56-20:14/18 20:55	07:30 19:46	08:19 18:40	08:12 10:36-11:20/44 16:50	08:47 10:47-11:33/46 16:40
23	05:56 21:47	06:43 19:57-20:12/15 20:53	07:32 19:44	08:21 18:38	08:14 10:35-11:20/45 16:49	08:48 10:47-11:33/46 16:41
24	05:58 21:45	06:44 20:00-20:10/10 20:50	07:33 19:41	08:23 18:36	08:16 10:35-11:21/46 16:48	08:48 10:47-11:33/46 16:41
25	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 10:36-11:22/46 16:47	08:48 10:48-11:34/46 16:42
26	06:00 21:43	06:48 20:46	07:36 18:39-18:44/5 19:37	07:26 17:32	08:19 10:35-11:22/47 16:46	08:49 10:48-11:35/47 16:43
27	06:02 21:41	06:49 20:44	07:38 18:36-18:47/11 19:34	07:28 17:30	08:20 10:36-11:22/46 16:45	08:49 10:48-11:35/47 16:43
28	06:03 21:40	06:51 20:42	07:40 18:33-18:47/14 19:32	07:30 17:28	08:22 10:36-11:23/47 16:44	08:49 10:49-11:35/46 16:44
29	06:05 21:38	06:52 20:40	07:41 18:32-18:48/16 19:30	07:31 17:26	08:23 10:36-11:23/47 16:43	08:49 10:49-11:36/47 16:45
30	06:06 21:37	06:54 20:38	07:43 18:30-18:48/18 19:28	07:33 17:25	08:25 10:37-11:24/47 16:43	08:50 10:50-11:36/46 16:46
31	06:08 21:35	06:55 20:35		07:35 17:23		08:50 10:50-11:37/47 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	56	431	220	105	804	1454

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:50 09:20-09:31/11	08:24 16:56-17:06/10	07:32 08:12-08:29/17	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:32/12	08:23 16:55-17:07/12	07:30 08:13-08:28/15	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 09:20-09:33/13	08:21 16:55-17:08/13	07:28 08:14-08:26/12	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:19-09:33/14	08:19 16:56-17:09/13	07:26 08:17-08:23/6	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:54/5	20:22	21:11	21:54
5	08:49 09:19-09:34/15	08:18 16:56-17:08/12	07:24 07:47-07:56/9	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 09:18-09:35/17	08:16 16:57-17:07/10	07:21 07:44-07:56/12	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 09:18-09:36/18	08:15 16:58-17:06/8	07:19 07:43-07:57/14	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:36/19	08:13 17:03-17:04/1	07:17 07:42-07:57/15	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:18-09:37/19	08:11	07:15 07:42-07:57/15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:18-09:38/20	08:09	07:13 07:42-07:55/13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 09:18-09:38/20	08:08	07:10 07:43-07:54/11	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 09:20-09:39/19	08:06	07:08 07:44-07:52/8	06:59 07:22-07:23/1	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:21-09:39/18	08:04	07:06 07:29-07:32/3	06:57 07:19-07:22/3	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:22-09:40/18	08:02	07:04 07:26-07:32/6	06:55 07:17-07:21/4	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:22-09:40/18	08:00	07:02 07:24-07:31/7	06:52 07:15-07:19/4	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:23-09:40/17	07:58	06:59 07:23-07:30/7	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 09:24-09:40/16	07:56	06:57 07:25-07:28/3	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:24-09:40/16	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 09:25-09:40/15	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:26-09:40/14	07:51 08:19-08:25/6	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:27-09:38/11	07:49 08:16-08:27/11	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:29-09:37/8	07:47 08:15-08:29/14	06:46 18:29-18:34/5	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 09:32-09:35/3	07:45 08:13-08:30/17	06:44 18:26-18:36/10	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:13-08:31/18	06:41 18:24-18:37/13	06:34	05:44	05:31
	17:21	18:16 17:48-17:50/2	19:04	20:55	21:41	22:05
25	08:34	07:41 08:12-08:31/19	06:39 18:23-18:38/15	06:32	05:43	05:31
	17:22	18:18 17:48-17:52/4	19:05	20:56	21:42	22:05
26	08:32	07:38 08:12-08:31/19	06:37 18:22-18:38/16	06:30	05:42	05:31
	17:24	18:19 17:48-17:54/6	19:07	20:58	21:43	22:05
27	08:31	07:36 08:12-08:31/19	06:35 18:22-18:38/16	06:28	05:41	05:32
	17:26	18:21 17:47-17:55/8	19:09	21:00	21:45	22:05
28	08:30	07:34 08:11-08:30/19	06:32 18:22-18:37/15	06:26	05:40	05:32
	17:28	18:23 17:49-17:54/5	19:10	21:01	21:46	22:05
29	08:28 16:58-16:59/1		07:30 19:22-19:36/14	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:57-17:01/4		07:28 19:23-19:35/12	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 16:56-17:03/7		07:26 19:25-19:34/9		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	363	246	303	12	0	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August		September		October		November		December	
1	05:34	06:09		06:57		07:44	08:24-08:30/6	07:37		08:26	09:00-09:20/20
	22:04	21:34		20:33		19:25	08:09-08:11/2	17:21		16:42	
2	05:34	06:11		06:59		07:46	08:22-08:32/10	07:38		08:27	09:01-09:21/20
	22:04	21:32		20:31		19:23		17:19		16:42	
3	05:35	06:12		07:00		07:48	08:20-08:33/13	07:40	16:30-16:34/4	08:29	09:01-09:20/19
	22:03	21:30		20:29		19:21		17:17		16:41	
4	05:36	06:14		07:02		07:49	08:19-08:33/14	07:42	16:28-16:36/8	08:30	09:02-09:21/19
	22:03	21:29		20:27		19:19		17:16		16:40	
5	05:37	06:15		07:03		07:51	08:19-08:34/15	07:43	16:27-16:37/10	08:31	09:03-09:21/18
	22:03	21:27		20:24		19:16		17:14		16:40	
6	05:38	06:17		07:05		07:53	08:18-08:33/15	07:45	16:26-16:38/12	08:33	09:04-09:21/17
	22:02	21:25		20:22		19:14		17:12		16:40	
7	05:38	06:18		07:07		07:54	08:19-08:32/13	07:47	16:26-16:39/13	08:34	09:06-09:21/15
	22:02	21:24		20:20		19:12		17:11		16:39	
8	05:39	06:20		07:08		07:56	08:21-08:32/11	07:49	16:26-16:39/13	08:35	09:07-09:21/14
	22:01	21:22		20:18		19:10		17:09		16:39	
9	05:40	06:21		07:10		07:57	08:22-08:29/7	07:50	16:26-16:38/12	08:36	09:08-09:21/13
	22:00	21:20		20:15		19:08		17:07		16:39	
10	05:41	06:23		07:11		07:59	08:50-08:59/9	07:52	16:27-16:36/9	08:37	09:09-09:21/12
	22:00	21:18		20:13		19:05	08:24-08:26/2	17:06		16:38	
11	05:42	06:24		07:13		08:01	08:48-09:01/13	07:54	16:27-16:34/7	08:38	09:10-09:21/11
	21:59	21:16		20:11		19:03		17:04		16:38	
12	05:43	06:26		07:14	19:17-19:25/8	08:02	08:47-09:02/15	07:56	16:28-16:32/4	08:39	09:11-09:21/10
	21:58	21:14		20:09		19:01		17:03		16:38	
13	05:44	06:27		07:16	19:15-19:26/11	08:04	08:45-09:02/17	07:57	16:30-16:31/1	08:40	09:12-09:21/9
	21:57	21:13		20:06		18:59	18:24-18:25/1	17:01		16:38	
14	05:45	06:29		07:18	19:13-19:27/14	08:06	08:44-09:03/19	07:59		08:41	09:13-09:21/8
	21:56	21:11		20:04		18:57	18:21-18:28/7	17:00		16:38	
15	05:47	06:30		07:19	19:12-19:27/15	08:07	08:44-09:03/19	08:01		08:42	09:14-09:21/7
	21:55	21:09		20:02		18:55	18:20-18:27/7	16:59		16:38	
16	05:48	06:32		07:21	19:11-19:27/16	08:09	08:44-09:03/19	08:02		08:43	09:15-09:21/6
	21:54	21:07		20:00		18:53	18:19-18:24/5	16:57		16:38	
17	05:49	06:34		07:22	19:11-19:27/16	08:11	08:44-09:02/18	08:04		08:44	09:16-09:21/5
	21:53	21:05		19:57		18:50	18:19-18:22/3	16:56		16:39	
18	05:50	06:35		07:24	19:10-19:25/15	08:12	08:44-09:02/18	08:06		08:45	09:16-09:20/4
	21:52	21:03		19:55		18:48		16:55		16:39	
19	05:51	06:37		07:25	19:11-19:25/14	08:14	08:45-09:01/16	08:07	09:05-09:09/4	08:45	09:17-09:18/1
	21:51	21:01		19:53		18:46		16:53		16:39	
20	05:53	06:38		07:27	19:12-19:23/11	08:16	08:46-09:00/14	08:09	09:04-09:12/8	08:46	
	21:50	20:59		19:50		18:44		16:52		16:39	
21	05:54	06:40		07:29	19:13-19:20/7	08:18	08:48-08:57/9	08:11	09:03-09:14/11	08:47	
	21:49	20:57		19:48		18:42		16:51		16:40	
22	05:55	06:41		07:30		08:19		08:12	09:02-09:16/14	08:47	
	21:48	20:55		19:46		18:40		16:50		16:40	
23	05:56	06:43		07:32		08:21		08:14	09:01-09:16/15	08:48	
	21:47	20:53		19:44		18:38		16:49		16:41	
24	05:58	06:45		07:33		08:23		08:16	09:01-09:17/16	08:48	09:19-09:20/1
	21:45	20:50		19:41		18:36		16:48		16:41	
25	05:59	06:46		07:35		07:24		08:17	09:02-09:18/16	08:48	09:22-09:24/2
	21:44	20:48		19:39		17:34		16:47		16:42	09:20-09:21/1
26	06:01	06:48		07:36		07:26		08:19	09:01-09:18/17	08:49	09:20-09:25/5
	21:43	20:46		19:37		17:32		16:46		16:43	
27	06:02	06:49		07:38	08:05-08:12/7	07:28		08:20	09:02-09:19/17	08:49	09:20-09:26/6
	21:41	20:44		19:34		17:30		16:45		16:43	
28	06:03	06:51	07:17-07:21/4	07:40	08:04-08:12/8	07:30		08:22	09:02-09:20/18	08:49	09:20-09:26/6
	21:40	20:42		19:32		17:28		16:44		16:44	
29	06:05	06:52	07:18-07:22/4	07:41	08:06-08:12/6	07:31		08:23	09:01-09:19/18	08:49	09:20-09:27/7
	21:38	20:40		19:30		17:27		16:44		16:45	
30	06:06	06:54	07:20-07:23/3	07:43	08:08-08:12/4	07:33		08:25	09:01-09:20/19	08:49	09:20-09:28/8
	21:37	20:38		19:28		17:25		16:43		16:46	
31	06:08	06:56	07:21-07:22/1			07:35				08:50	09:20-09:29/9
	21:35	20:35				17:23				16:47	
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	12		152		317		266		273	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:50 15:29-15:53/24 16:48	08:24 08:57-09:09/12 17:35	07:32 17:35-17:51/16 18:25	07:23 20:17	06:20 21:06	05:36 06:16-06:35/19 21:50 20:17-20:40/23
2	08:49 15:30-15:54/24 16:49	08:22 08:58-09:08/10 17:36	07:30 17:35-17:51/16 18:26	07:21 20:19	06:18 21:08	05:36 06:17-06:36/19 21:52 20:17-20:42/25
3	08:49 15:29-15:54/25 16:50	08:21 08:59-09:06/7 17:38	07:28 17:36-17:50/14 18:28	07:19 20:20	06:16 21:09	05:35 06:16-06:35/19 21:53 20:16-20:43/27
4	08:49 15:30-15:55/25 16:51	08:19 17:40	07:26 17:37-17:49/12 18:30	07:17 20:22	06:15 21:11	05:34 06:16-06:35/19 21:54 20:15-20:43/28
5	08:49 15:30-15:56/26 16:53	08:18 17:42	07:24 17:39-17:46/7 18:32	07:14 20:24	06:13 21:13	05:34 06:17-06:35/18 21:55 20:15-20:44/29
6	08:49 15:30-15:56/26 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 06:17-06:35/18 21:55 20:14-20:45/31
7	08:48 15:31-15:57/26 16:55	08:14 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 06:18-06:35/17 21:56 20:14-20:46/32
8	08:48 15:31-15:57/26 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 21:17	05:32 06:19-06:36/17 21:57 20:13-20:46/33
9	08:47 15:32-15:58/26 16:58	08:11 17:49	07:15 18:39	07:05 20:30	06:06 21:19	05:31 06:18-06:35/17 21:58 20:14-20:47/33
10	08:47 15:32-15:58/26 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 06:19-06:35/16 21:59 20:14-20:48/34
11	08:46 15:32-15:58/26 17:00	08:08 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 06:20-06:35/15 22:00 20:14-20:49/35
12	08:46 15:32-15:59/27 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:24	05:30 06:19-06:35/16 22:00 20:13-20:48/35
13	08:45 15:33-16:00/27 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 06:20-06:35/15 22:01 20:13-20:49/36
14	08:44 15:34-16:00/26 17:05	08:02 08:26-08:28/2 17:58	07:04 18:47	06:55 20:38	05:58 21:27	05:30 06:20-06:35/15 22:01 20:14-20:49/35
15	08:44 15:34-16:00/26 17:06	08:00 08:24-08:27/3 18:00	07:02 18:49	06:52 20:40	05:56 21:28	05:30 06:21-06:35/14 22:02 20:14-20:50/36
16	08:43 15:35-16:00/25 17:08	07:58 08:22-08:26/4 18:02	06:59 18:50	06:50 20:42	05:55 21:30	05:30 06:21-06:35/14 22:03 20:14-20:50/36
17	08:42 15:35-16:00/25 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 06:22-06:35/13 22:03 20:14-20:51/37
18	08:41 15:36-16:00/24 17:11	07:55 18:05	06:55 07:17-07:19/2 18:54	06:46 20:45	05:52 21:32	05:29 06:22-06:35/13 22:03 20:14-20:51/37
19	08:40 15:37-16:00/23 17:12	07:53 18:07	06:53 07:15-07:20/5 18:55	06:44 20:47	05:51 06:21-06:29/8 21:34	05:30 06:22-06:35/13 22:04 20:14-20:51/37
20	08:39 15:37-15:59/22 17:14	07:51 18:09	06:50 07:13-07:20/7 18:57	06:42 20:48	05:49 06:20-06:30/10 21:35	05:30 06:22-06:35/13 22:04 20:14-20:51/37
21	08:38 15:38-15:59/21 17:16	07:49 18:11	06:48 07:10-07:19/9 18:59	06:40 20:50	05:48 06:19-06:32/13 21:37	05:30 06:22-06:35/13 22:04 20:14-20:51/37
22	08:37 15:40-15:59/19 17:17	07:47 08:10-08:11/1 18:12	06:46 07:08-07:18/10 19:00	06:38 20:52	05:47 06:17-06:32/15 21:38	05:30 06:23-06:36/13 22:04 20:15-20:52/37
23	08:36 15:41-15:59/18 17:19 09:03-09:04/1	07:45 17:41-17:46/5 18:14 08:08-08:12/4	06:44 07:10-07:17/7 19:02 07:06-07:09/3	06:36 20:53	05:46 06:17-06:32/15 21:39	05:30 06:23-06:36/13 22:05 20:15-20:52/37
24	08:35 15:43-15:57/14 17:21 09:02-09:06/4	07:43 17:39-17:49/10 18:16 08:06-08:12/6	06:41 07:04-07:09/5 19:04	06:34 20:55	05:44 06:16-06:33/17 21:41	05:30 06:23-06:36/13 22:05 20:15-20:52/37
25	08:34 15:46-15:56/10 17:22 09:00-09:06/6	07:40 17:37-17:51/14 18:18 08:04-08:12/8	06:39 07:01-07:07/6 19:05	06:32 20:56	05:43 06:16-06:34/18 21:42	05:31 06:24-06:37/13 22:05 20:16-20:53/37
26	08:32 15:51-15:52/1 17:24 08:59-09:08/9	07:38 17:36-17:52/16 18:19 08:02-08:12/10	06:37 07:02-07:04/2 19:07	06:30 20:58	05:42 06:16-06:34/18 21:43	05:31 06:23-06:37/14 22:05 20:16-20:53/37
27	08:31 08:57-09:08/11 17:26	07:36 17:35-17:51/16 18:21 08:03-08:11/8	06:34 19:09	06:28 21:00	05:41 06:15-06:34/19 21:45 20:25-20:31/6	05:32 06:24-06:38/14 22:05 20:16-20:52/36
28	08:30 08:56-09:09/13 17:28	07:34 17:35-17:51/16 18:23 08:04-08:08/4	06:32 19:10	06:26 21:01	05:40 06:15-06:34/19 21:46 20:22-20:34/12	05:32 06:24-06:38/14 22:05 20:17-20:53/36
29	08:28 08:55-09:09/14 17:29		07:30 20:12	06:24 21:03	05:39 06:16-06:35/19 21:47 20:21-20:37/16	05:33 06:24-06:39/15 22:05 20:16-20:52/36
30	08:27 08:55-09:09/14 17:31		07:28 20:14	06:22 21:05	05:38 06:16-06:35/19 21:48 20:19-20:38/19	05:33 06:24-06:39/15 22:04 20:17-20:53/36
31	08:25 08:56-09:09/13 17:33		07:25 20:15		05:37 06:16-06:35/19 21:49 20:18-20:39/21	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	673	156	121	0	283	1479

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 06:24-06:40/16	06:09	06:57	07:44	07:36	08:26 15:14-15:40/26
	22:04 20:18-20:53/35	21:34	20:33	19:25	17:21	16:42
2	05:34 06:23-06:39/16	06:11	06:59	07:46	07:38	08:27 15:15-15:41/26
	22:04 20:18-20:52/34	21:32	20:31	19:23	17:19	16:41
3	05:35 06:24-06:40/16	06:12	07:00	07:48	07:40	08:29 15:15-15:41/26
	22:03 20:19-20:52/33	21:30	20:29	19:21	17:17	16:41
4	05:36 06:24-06:41/17	06:14	07:02	07:49	07:42	08:30 15:16-15:42/26
	22:03 20:20-20:52/32	21:29	20:27	19:19	17:16	16:40
5	05:37 06:24-06:41/17	06:15	07:03	07:51	07:43	08:31 15:16-15:42/26
	22:03 20:19-20:51/32	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:41/18	06:17	07:05	07:53	07:45	08:33 15:16-15:42/26
	22:02 20:20-20:51/31	21:25	20:22	19:14	17:12	16:39
7	05:38 06:24-06:42/18	06:18	07:06	07:54	07:47	08:34 15:16-15:42/26
	22:02 20:21-20:51/30	21:23	20:20	19:12	17:11	16:39
8	05:39 06:24-06:42/18	06:20	07:08	07:56 18:17-18:20/3	07:49 08:29-08:37/8	08:35 15:18-15:43/25
	22:01 20:22-20:51/29	21:22	20:18	19:10	17:09	16:39
9	05:40 06:24-06:43/19	06:21	07:10	07:57 18:12-18:22/10	07:50 08:28-08:39/11	08:36 15:18-15:43/25
	22:00 20:23-20:50/27	21:20	20:15	19:08	17:07	16:39
10	05:41 06:24-06:43/19	06:23	07:11	07:59 18:11-18:24/13	07:52 08:28-08:40/12	08:37 15:19-15:43/24
	22:00 20:24-20:50/26	21:18	20:13	19:05	17:06	16:38
11	05:42 06:24-06:43/19	06:24	07:13	08:01 18:10-18:25/15	07:54 08:27-08:41/14	08:38 15:19-15:43/24
	21:59 20:25-20:49/24	21:16	20:11	19:03	17:04	16:38
12	05:43 06:24-06:44/20	06:26	07:14	08:02 18:08-18:24/16	07:56 08:26-08:40/14	08:39 15:20-15:43/23
	21:58 20:26-20:48/22	21:14	20:09	19:01	17:03	16:38
13	05:44 06:24-06:44/20	06:27	07:16	08:04 18:08-18:25/17	07:57 08:27-08:41/14	08:40 15:20-15:44/24
	21:57 20:27-20:47/20	21:12	20:06	18:59	17:01	16:38
14	05:45 06:24-06:44/20	06:29	07:17	08:06 18:08-18:25/17	07:59 08:28-08:41/13	08:41 15:21-15:44/23
	21:56 20:28-20:46/18	21:11	20:04	18:57 08:36-08:42/6	17:00	16:38
15	05:46 06:25-06:44/19	06:30	07:19	08:07 18:08-18:24/16	08:01 08:30-08:41/11	08:42 15:22-15:44/22
	21:55 20:30-20:45/15	21:09	20:02	18:55 08:34-08:44/10	16:59	16:38
16	05:48 06:25-06:44/19	06:32	07:21	08:09 18:08-18:22/14	08:02 15:23-15:25/2	08:43 15:22-15:45/23
	21:54 20:32-20:42/10	21:07	20:00	18:52 08:35-08:44/9	16:57 08:32-08:41/9	16:38
17	05:49 06:25-06:44/19	06:34	07:22	08:11 18:09-18:21/12	08:04 15:19-15:30/11	08:44 15:23-15:46/23
	21:53	21:05	19:57	18:50 08:36-08:44/8	16:56 08:34-08:40/6	16:38
18	05:50 06:25-06:43/18	06:35	07:24 07:49-07:55/6	08:12 18:11-18:19/8	08:06 15:17-15:31/14	08:45 15:23-15:45/22
	21:52	21:03	19:55	18:48 08:38-08:44/6	16:55 08:36-08:40/4	16:39
19	05:51 06:25-06:43/18	06:37	07:25 07:50-07:55/5	08:14 08:40-08:43/3	08:07 15:15-15:33/18	08:45 15:24-15:46/22
	21:51	21:01	19:53	18:46	16:53 08:37-08:38/1	16:39
20	05:52 06:27-06:43/16	06:38	07:27 07:57-08:03/6	08:16	08:09 15:15-15:34/19	08:46 15:25-15:47/22
	21:50	20:59	19:50 07:52-07:55/3	18:44	16:52	16:39
21	05:54 06:27-06:43/16	06:40	07:28 07:55-08:04/9	08:17	08:11 15:14-15:35/21	08:46 15:25-15:47/22
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:28-06:42/14	06:41	07:30 07:55-08:05/10	08:19	08:12 15:14-15:36/22	08:47 15:26-15:48/22
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:41/12	06:43	07:32 07:56-08:04/8	08:21	08:14 15:13-15:36/23	08:48 15:26-15:48/22
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:40/9	06:44	07:33 07:58-08:04/6	08:23	08:15 15:13-15:37/24	08:48 15:26-15:48/22
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:38/5	06:46	07:35 08:00-08:03/3	07:24	08:17 15:13-15:38/25	08:48 15:27-15:49/22
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:57/4	08:19 15:13-15:38/25	08:49 15:27-15:49/22
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 07:54-07:57/3	08:20 15:13-15:39/26	08:49 15:27-15:50/23
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 07:56-07:58/2	08:22 15:14-15:40/26	08:49 15:27-15:50/23
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23 15:13-15:40/27	08:49 15:28-15:51/23
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25 15:14-15:41/27	08:49 15:28-15:51/23
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:49 15:28-15:52/24
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	836	0	57	192	427	732

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January		February		March		April		May	June
1	08:50		08:24	16:12-16:51/39	07:32		07:23	19:38-19:51/13	06:20	05:36
	16:48		17:35		18:25		20:17		21:06	21:51
2	08:50		08:23	16:11-16:51/40	07:30		07:21	19:39-19:53/14	06:18	05:36
	16:49		17:36		18:26		20:19		21:08	21:52
3	08:49		08:21	16:11-16:52/41	07:28		07:19	19:41-19:55/14	06:16	05:35
	16:50		17:38		18:28		20:20		21:10	21:53
4	08:49		08:19	16:11-16:53/42	07:26		07:17	19:47-19:57/10	06:15	05:34
	16:51		17:40		18:30		20:22		21:11	21:54
5	08:49		08:18	16:11-16:53/42	07:24		07:14	19:46-19:58/12	06:13	05:33
	16:53		17:42		18:32		20:24		21:13	21:55
6	08:49		08:16	16:10-16:53/43	07:21		07:12	19:44-19:59/15	06:11	05:33
	16:54		17:44		18:33		20:25		21:14	21:56
7	08:48		08:15	16:10-16:53/43	07:19		07:10	19:44-20:01/17	06:09	05:32
	16:55		17:45		18:35		20:27		21:16	21:57
8	08:48		08:13	16:11-16:54/43	07:17		07:08	19:44-20:03/19	06:08	05:32
	16:56		17:47		18:37		20:29		21:17	21:57
9	08:48		08:11	16:11-16:54/43	07:15		07:05	19:44-20:03/19	06:06	05:31
	16:58		17:49		18:39		20:30		21:19	21:58
10	08:47		08:09	16:11-16:54/43	07:13		07:03	19:44-20:03/19	06:04	05:31
	16:59		17:51		18:40		20:32		21:21	21:59
11	08:47		08:08	16:11-16:53/42	07:11	18:14-18:17/3	07:01	19:44-20:01/17	06:03	05:31
	17:00		17:53		18:42		20:34		21:22	22:00
12	08:46		08:06	16:12-16:53/41	07:08	18:13-18:19/6	06:59	19:45-19:59/14	06:01	05:30
	17:02		17:54		18:44		20:35		21:24	22:00
13	08:45		08:04	16:12-16:52/40	07:06	18:11-18:20/9	06:57	19:47-19:58/11	05:59	05:30
	17:03		17:56		18:45		20:37		21:25	22:01
14	08:45		08:02	16:13-16:52/39	07:04	18:11-18:22/11	06:55	19:50-19:54/4	05:58	05:30
	17:05		17:58		18:47		20:38		21:27	22:02
15	08:44		08:00	16:13-16:51/38	07:02	18:11-18:24/13	06:52		05:56	05:30
	17:06		18:00		18:49		20:40		21:28	22:02
16	08:43		07:58	16:14-16:50/36	06:59	18:11-18:26/15	06:50		05:55	05:30
	17:08		18:02		18:50		20:42		21:30	22:03
17	08:42		07:57	16:15-16:49/34	06:57	18:11-18:25/14	06:48		05:53	05:29
	17:09		18:03		18:52		20:43		21:31	22:03
18	08:41		07:55	16:17-16:48/31	06:55	18:13-18:24/11	06:46		05:52	05:29
	17:11		18:05		18:54		20:45		21:33	22:04
19	08:40		07:53	16:18-16:47/29	06:53	18:15-18:22/7	06:44		05:51	05:29
	17:12		18:07		18:55		20:47		21:34	22:04
20	08:39		07:51	16:21-16:45/24	06:50		06:42		05:49	05:30
	17:14		18:09		18:57		20:48		21:35	22:04
21	08:38	16:22-16:33/11	07:49	16:23-16:43/20	06:48		06:40		05:48	05:30
	17:16		18:11		18:59		20:50		21:37	22:04
22	08:37	16:20-16:36/16	07:47	16:26-16:40/14	06:46		06:38		05:47	05:30
	17:17		18:12		19:00		20:52		21:38	22:05
23	08:36	16:19-16:39/20	07:45		06:44		06:36		05:46	05:30
	17:19		18:14		19:02		20:53		21:40	22:05
24	08:35	16:18-16:41/23	07:43		06:41		06:34		05:44	05:30
	17:21		18:16		19:04		20:55		21:41	22:05
25	08:34	16:16-16:42/26	07:41		06:39		06:32		05:43	05:31
	17:22		18:18		19:05		20:57		21:42	22:05
26	08:32	16:15-16:44/29	07:39		06:37		06:30		05:42	05:31
	17:24		18:19		19:07		20:58		21:43	22:05
27	08:31	16:14-16:45/31	07:36		06:35	18:40-18:44/4	06:28		05:41	05:32
	17:26		18:21		19:09		21:00		21:45	22:05
28	08:30	16:14-16:47/33	07:34		06:32	18:38-18:45/7	06:26		05:40	05:32
	17:28		18:23		19:10		21:01		21:46	22:05
29	08:28	16:13-16:48/35			07:30	19:38-19:47/9	06:24		05:39	05:33
	17:29				20:12		21:03		21:47	22:05
30	08:27	16:13-16:49/36			07:28	19:38-19:49/11	06:22		05:38	05:33
	17:31				20:14		21:05		21:48	22:05
31	08:26	16:12-16:50/38			07:26	19:38-19:50/12			05:37	
	17:33				20:15				21:49	
Potential sun hours	262		279		367		415		482	495
Sum of minutes with flicker	298		807		132		198		0	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August		September		October		November		December
1	05:34	06:09		06:57	19:44-20:01/17	07:44	18:52-18:58/6	07:37	15:41-16:23/42	08:26
	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59	19:42-20:01/19	07:46	18:52-18:56/4	07:38	15:41-16:23/42	08:27
	22:04	21:32		20:31		19:23		17:19		16:41
3	05:35	06:12		07:00	19:42-20:01/19	07:48	18:53-18:54/1	07:40	15:41-16:24/43	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02	19:41-20:00/19	07:49		07:42	15:40-16:23/43	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03	19:41-19:58/17	07:51		07:44	15:40-16:23/43	08:31
	22:03	21:27		20:24		19:16		17:14		16:40
6	05:37	06:17		07:05	19:40-19:55/15	07:53		07:45	15:41-16:23/42	08:33
	22:02	21:25		20:22		19:14		17:12		16:39
7	05:38	06:18		07:07	19:41-19:54/13	07:54		07:47	15:41-16:22/41	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20		07:08	19:41-19:51/10	07:56		07:49	15:42-16:22/40	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21		07:10	19:35-19:49/14	07:57		07:51	15:42-16:22/40	08:36
	22:00	21:20		20:15		19:08		17:07		16:39
10	05:41	06:23		07:11	19:32-19:46/14	07:59		07:52	15:43-16:22/39	08:37
	22:00	21:18		20:13		19:05		17:06		16:38
11	05:42	06:24		07:13	19:31-19:44/13	08:01		07:54	15:44-16:21/37	08:38
	21:59	21:16		20:11		19:03		17:04		16:38
12	05:43	06:26		07:14	19:29-19:42/13	08:02		07:56	15:44-16:20/36	08:39
	21:58	21:14		20:09		19:01		17:03		16:38
13	05:44	06:27		07:16	19:29-19:40/11	08:04		07:57	15:45-16:19/34	08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29		07:18	19:28-19:37/9	08:06		07:59	15:46-16:19/33	08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30		07:19	19:29-19:35/6	08:07		08:01	15:47-16:18/31	08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32		07:21	19:28-19:33/5	08:09		08:03	15:48-16:17/29	08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34		07:22	19:30-19:31/1	08:11		08:04	15:50-16:16/26	08:44
	21:54	21:05		19:57		18:50		16:56		16:38
18	05:50	06:35		07:24		08:12		08:06	15:52-16:15/23	08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37		07:25		08:14	17:02-17:07/5	08:08	15:53-16:13/20	08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:52	06:38		07:27		08:16	16:56-17:12/16	08:09	15:55-16:11/16	08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40		07:29		08:18	16:53-17:14/21	08:11	15:58-16:09/11	08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41		07:30		08:19	16:50-17:16/26	08:12		08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43		07:32		08:21	16:48-17:18/30	08:14		08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45		07:33	18:59-19:04/5	08:23	16:47-17:19/32	08:16		08:48
	21:45	20:50		19:41		18:36		16:48		16:41
25	05:59	06:46		07:35	18:56-19:06/10	07:24	15:46-16:20/34	08:17		08:48
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:00	06:48		07:36	18:54-19:07/13	07:26	15:45-16:21/36	08:19		08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49		07:38	18:53-19:08/15	07:28	15:43-16:21/38	08:20		08:49
	21:41	20:44		19:34		17:30		16:45		16:43
28	06:03	06:51		07:40	18:52-19:05/13	07:30	15:42-16:21/39	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52	19:50-19:56/6	07:41	18:52-19:03/11	07:31	15:42-16:22/40	08:23		08:49
	21:38	20:40		19:30		17:26		16:43		16:45
30	06:06	06:54	19:48-19:59/11	07:43	18:51-19:00/9	07:33	15:41-16:23/42	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56	19:45-19:59/14			07:35	15:41-16:23/42			08:50
	21:35	20:35				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	31		291		412		711		0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 17:51-17:59/8 18:25	07:23 20:17	06:20 20:36-20:38/2 21:06	05:36 20:33-20:56/23 21:51
2	08:50 16:14-16:15/1 16:49	08:23 17:36	07:30 17:52-18:01/9 18:27	07:21 20:19	06:18 20:35-20:40/5 21:08	05:36 20:35-20:56/21 21:52
3	08:49 16:13-16:17/4 16:50	08:21 17:38	07:28 17:53-18:01/8 18:28	07:19 20:20	06:16 20:34-20:41/7 21:10	05:35 20:35-20:56/21 21:53
4	08:49 16:12-16:17/5 16:51	08:19 17:40	07:26 18:30	07:17 20:22	06:15 20:34-20:43/9 21:11	05:34 20:35-20:55/20 21:54
5	08:49 16:12-16:19/7 16:53	08:18 17:42	07:24 18:32	07:14 20:24	06:13 20:34-20:44/10 21:13	05:34 20:37-20:55/18 21:55
6	08:49 16:11-16:20/9 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 20:34-20:45/11 21:14	05:33 20:37-20:54/17 21:56
7	08:48 16:11-16:22/11 16:55	08:15 17:45	07:19 18:35	07:10 20:27	06:09 20:34-20:47/13 21:16	05:32 20:38-20:54/16 21:57
8	08:48 16:10-16:23/13 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 20:34-20:48/14 21:18	05:32 20:38-20:53/15 21:57
9	08:48 16:11-16:25/14 16:58	08:11 17:49	07:15 18:39	07:06 20:30	06:06 20:34-20:50/16 21:19	05:31 20:40-20:53/13 21:58
10	08:47 16:10-16:26/16 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 20:32-20:51/19 21:21	05:31 20:41-20:53/12 21:59
11	08:47 16:10-16:27/17 17:00	08:08 17:53	07:11 18:15-18:17/2 18:42	07:01 20:34	06:03 20:32-20:53/21 21:22	05:31 20:42-20:53/11 22:00
12	08:46 16:11-16:29/18 17:02	08:06 17:55	07:08 18:15-18:19/4 18:44	06:59 20:35	06:01 20:31-20:54/23 21:24	05:30 20:42-20:52/10 22:00
13	08:45 16:11-16:31/20 17:03	08:04 17:56	07:06 18:14-18:20/6 18:45	06:57 20:37	05:59 20:30-20:56/26 21:25	05:30 20:43-20:51/8 22:01
14	08:45 16:10-16:32/22 17:05	08:02 17:58	07:04 18:14-18:22/8 18:47	06:55 20:38	05:58 20:29-20:57/28 21:27	05:30 20:45-20:51/6 22:02
15	08:44 16:10-16:34/24 17:06	08:00 18:00	07:02 18:14-18:24/10 18:49	06:52 20:40	05:56 20:29-20:59/30 21:28	05:30 20:46-20:50/4 22:02
16	08:43 16:11-16:35/24 17:08	07:58 18:02	06:59 18:14-18:26/12 18:50	06:50 20:42	05:55 20:29-21:00/31 21:30	05:30 22:03
17	08:42 16:11-16:35/24 17:09	07:57 18:04	06:57 18:14-18:27/13 18:52	06:48 20:43	05:54 20:29-21:01/32 21:31	05:29 22:03
18	08:41 16:11-16:36/25 17:11	07:55 18:05	06:55 18:14-18:28/14 18:54	06:46 20:45	05:52 20:29-21:02/33 21:33	05:29 22:04
19	08:40 16:11-16:36/25 17:12	07:53 18:07	06:53 18:16-18:27/11 18:55	06:44 20:47	05:51 20:29-21:04/35 21:34	05:30 22:04
20	08:39 16:12-16:37/25 17:14	07:51 18:09	06:50 18:18-18:25/7 18:57	06:42 20:48	05:49 20:29-21:06/37 21:35	05:30 22:04
21	08:38 16:11-16:36/25 17:16	07:49 18:11	06:48 18:59	06:40 20:50	05:48 20:28-21:06/38 21:37	05:30 22:04
22	08:37 16:12-16:37/25 17:17	07:47 18:12	06:46 19:00	06:38 20:52	05:47 20:59-21:06/7 21:38 20:29-20:58/29	05:30 22:05
23	08:36 16:13-16:37/24 17:19	07:45 18:14	06:44 19:02	06:36 20:53	05:46 21:01-21:04/3 21:40 20:29-20:58/29	05:30 22:05
24	08:35 16:14-16:37/23 17:21	07:43 18:16	06:41 19:04	06:34 20:55	05:44 20:29-20:58/29 21:41	05:30 22:05
25	08:34 16:14-16:37/23 17:22	07:41 18:18	06:39 19:05	06:32 20:57	05:43 20:30-20:58/28 21:42	05:31 22:05
26	08:32 16:15-16:37/22 17:24	07:39 17:52-17:54/2 18:20	06:37 19:07	06:30 20:58	05:42 20:30-20:58/28 21:43	05:31 22:05
27	08:31 16:15-16:36/21 17:26	07:36 17:52-17:56/4 18:21	06:35 19:09	06:28 21:00	05:41 20:31-20:57/26 21:45	05:32 20:49-20:51/2 22:05
28	08:30 16:17-16:36/19 17:28	07:34 17:51-17:57/6 18:23	06:32 19:10	06:26 21:01	05:40 20:31-20:57/26 21:46	05:32 20:48-20:53/5 22:05
29	08:28 16:18-16:34/16 17:29		07:30 20:12	06:24 21:03	05:39 20:32-20:58/26 21:47	05:33 20:47-20:54/7 22:05
30	08:27 16:20-16:34/14 17:31		07:28 20:14	06:22 21:05	05:38 20:33-20:57/24 21:48	05:33 20:47-20:55/8 22:05
31	08:26 16:22-16:31/9 17:33		07:26 20:15		05:37 20:33-20:57/24 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	525	12	112	0	719	237

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 20:47-20:57/10 22:04	06:09 20:41-21:04/23 21:34	06:57 20:33	07:44 18:54-18:58/4 19:25	07:37 17:21	08:26 15:52-16:09/17 16:42
2	05:34 20:45-20:57/12 22:04	06:11 20:43-21:03/20 21:32	06:59 20:31	07:46 18:54-18:56/2 19:23	07:38 17:19	08:27 15:54-16:09/15 16:41
3	05:35 20:45-20:58/13 22:04	06:12 20:43-21:01/18 21:30	07:00 20:29	07:48 19:21	07:40 17:17	08:29 15:54-16:08/14 16:41
4	05:36 20:45-20:59/14 22:03	06:14 20:44-20:59/15 21:29	07:02 20:27	07:49 19:19	07:42 17:16	08:30 15:56-16:08/12 16:40
5	05:37 20:44-20:59/15 22:03	06:15 20:45-20:58/13 21:27	07:03 20:24	07:51 19:16	07:44 17:14	08:31 15:56-16:07/11 16:40
6	05:37 20:44-21:00/16 22:02	06:17 20:44-20:56/12 21:25	07:05 20:22	07:53 19:14	07:45 17:12	08:33 15:57-16:06/9 16:39
7	05:38 20:43-21:01/18 22:02	06:18 20:44-20:55/11 21:24	07:07 20:20	07:54 19:12	07:47 17:11	08:34 15:59-16:06/7 16:39
8	05:39 20:43-21:02/19 22:01	06:20 20:43-20:53/10 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 16:00-16:05/5 16:39
9	05:40 20:43-21:03/20 22:00	06:21 20:43-20:51/8 21:20	07:10 20:15	07:58 19:08	07:51 17:07	08:36 16:01-16:05/4 16:39
10	05:41 20:42-21:04/22 22:00	06:23 20:44-20:50/6 21:18	07:11 20:13	07:59 18:29-18:34/5 19:05	07:52 17:06	08:37 16:03-16:05/2 16:38
11	05:42 20:42-21:04/22 21:59	06:24 20:44-20:48/4 21:16	07:13 20:11	08:01 18:26-18:36/10 19:03	07:54 15:54-16:03/9 17:04	08:38 16:38
12	05:43 20:42-21:05/23 21:58	06:26 20:45-20:46/1 21:14	07:14 20:09	08:02 18:24-18:33/9 19:01	07:56 15:51-16:05/14 17:03	08:39 16:38
13	05:44 20:41-21:05/24 21:57	06:27 21:13	07:16 20:06	08:04 18:24-18:31/7 18:59	07:57 15:50-16:06/16 17:01	08:40 16:38
14	05:45 20:41-21:06/25 21:57	06:29 21:11	07:18 20:04	08:06 18:24-18:29/5 18:57	07:59 15:49-16:08/19 17:00	08:41 16:38
15	05:46 20:41-21:06/25 21:56	06:30 21:09	07:19 20:02	08:07 18:24-18:27/3 18:55	08:01 15:48-16:09/21 16:59	08:42 16:38
16	05:48 20:40-21:07/27 21:55	06:32 21:07	07:21 20:00	08:09 18:53	08:03 15:48-16:10/22 16:57	08:43 16:38
17	05:49 20:40-21:07/27 21:54	06:34 21:05	07:22 19:57	08:11 18:50	08:04 15:48-16:11/23 16:56	08:44 16:38
18	05:50 20:39-21:07/28 21:53	06:35 21:03	07:24 19:55	08:12 18:48	08:06 15:48-16:11/23 16:55	08:45 16:39
19	05:51 20:39-21:07/28 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:08 15:47-16:11/24 16:53	08:45 16:39
20	05:52 20:40-21:08/28 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 15:47-16:12/25 16:52	08:46 16:39
21	05:54 21:10-21:16/6 21:49 20:39-21:08/29	06:40 20:57	07:29 19:48	08:18 18:42	08:11 15:47-16:12/25 16:51	08:47 16:40
22	05:55 21:09-21:17/8 21:48 20:39-21:08/29	06:41 20:55	07:30 19:46	08:19 18:40	08:12 15:48-16:13/25 16:50	08:47 16:40
23	05:56 20:39-21:16/37 21:47	06:43 20:53	07:32 19:02-19:08/6 19:44	08:21 18:38	08:14 15:47-16:12/25 16:49	08:48 16:41
24	05:58 20:39-21:14/35 21:45	06:45 20:50	07:33 19:00-19:10/10 19:41	08:23 18:36	08:16 15:48-16:13/25 16:48	08:48 16:41
25	05:59 20:39-21:14/35 21:44	06:46 20:48	07:35 18:57-19:11/14 19:39	07:24 17:34	08:17 15:49-16:13/24 16:47	08:48 16:42
26	06:00 20:39-21:12/33 21:43	06:48 20:46	07:36 18:57-19:10/13 19:37	07:26 17:32	08:19 15:49-16:13/24 16:46	08:49 16:43
27	06:02 20:39-21:11/32 21:41	06:49 20:44	07:38 18:56-19:08/12 19:34	07:28 17:30	08:20 15:49-16:13/24 16:45	08:49 16:43
28	06:03 20:40-21:10/30 21:40	06:51 20:42	07:40 18:55-19:05/10 19:32	07:30 17:28	08:22 15:51-16:12/21 16:44	08:49 16:44
29	06:05 20:40-21:08/28 21:38	06:52 20:40	07:41 18:55-19:03/8 19:30	07:31 17:27	08:23 15:51-16:11/20 16:44	08:49 16:45
30	06:06 20:40-21:07/27 21:37	06:54 20:38	07:43 18:54-19:00/6 19:28	07:33 17:25	08:25 15:52-16:10/18 16:43	08:50 16:46
31	06:08 20:41-21:06/25 21:35	06:56 20:35		07:35 17:23		08:50 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	770	141	79	45	427	96

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:50 16:48	08:24 15:46-16:59/73 17:35	07:32 18:25	07:23 20:17	06:20 18:40-19:55/75 21:06 07:06-07:47/41	05:37 18:43-19:58/75 21:51 20:58-21:19/21
2	08:50 16:49	08:23 15:46-16:58/72 17:37	07:30 18:27	07:21 20:19	06:18 18:40-19:56/76 21:08 07:06-07:46/40	05:36 18:45-19:58/73 21:52 20:59-21:20/21
3	08:49 16:50	08:21 15:46-16:58/72 17:38	07:28 18:28	07:19 20:20	06:17 18:40-19:57/77 21:10 07:07-07:47/40	05:35 18:45-19:58/73 21:53 20:59-21:21/22
4	08:49 16:51	08:19 15:47-16:58/71 17:40	07:26 18:30	07:17 20:22	06:15 18:39-19:57/78 20:42-20:43/1 21:11 07:07-07:46/39	05:34 18:45-19:57/72 21:54 20:58-21:21/23
5	08:49 16:53	08:18 15:47-16:58/71 17:42	07:24 18:32	07:14 20:24	06:13 18:38-19:57/79 20:41-20:44/3 21:13 07:07-07:45/38	05:34 18:46-19:58/72 21:55 20:59-21:22/23
6	08:49 16:54	08:16 15:47-16:57/70 17:44	07:22 18:33	07:12 20:25	06:11 18:39-19:58/79 20:40-20:46/6 21:14 07:07-07:45/38	05:33 18:46-19:57/71 21:56 20:59-21:21/22
7	08:48 16:55	08:15 16:36-16:56/20 17:46 15:47-16:35/48	07:19 18:35	07:10 20:27	06:09 18:38-19:58/80 20:39-20:47/8 21:16 07:07-07:44/37	05:32 18:47-19:58/71 21:56 20:59-21:22/23
8	08:48 16:56	08:13 16:38-16:56/18 17:47 15:48-16:35/47	07:17 18:37	07:08 20:01-20:03/2 20:29	06:08 18:38-19:57/79 20:39-20:48/9 21:17 07:08-07:43/35	05:32 18:48-19:58/70 21:57 21:00-21:23/23
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10	08:47 15:58-16:08/10 16:59	08:09 16:42-16:51/9 17:51 15:49-16:34/45	07:13 18:40	07:03 20:02-20:06/4 20:32	06:04 18:37-19:58/81 20:39-20:51/12 21:21 07:09-07:42/33	05:31 18:48-19:58/70 21:59 21:00-21:23/23
11	08:46 15:56-16:11/15 17:00	08:08 15:50-16:34/44 17:53	07:11 18:15-18:17/2 18:42	07:01 20:03-20:08/5 20:34	06:03 18:38-19:58/80 20:39-20:53/14 21:22 07:10-07:41/31	05:31 18:49-19:58/69 22:00 21:00-21:23/23
12	08:46 15:55-16:14/19 17:02	08:06 15:50-16:33/43 17:55	07:08 18:15-18:19/4 18:44	06:59 20:04-20:07/3 20:35	06:01 18:37-19:58/81 20:39-20:54/15 21:24 07:10-07:39/29	05:30 18:48-19:58/70 22:00 21:00-21:22/22
13	08:45 15:54-16:15/21 17:03	08:04 15:51-16:32/41 17:56	07:06 18:15-18:20/5 18:45	06:57 19:17-19:24/7 20:37	06:00 18:38-19:58/80 20:40-20:54/14 21:25 07:12-07:39/27	05:30 18:49-19:58/69 22:01 21:00-21:23/23
14	08:45 15:53-16:17/24 17:05	08:02 15:52-16:31/39 17:58	07:04 18:18-18:21/3 18:47	06:55 19:09-19:32/23 20:39	05:58 18:37-19:58/81 20:41-20:52/11 21:27 07:12-07:37/25	05:30 18:50-19:58/68 22:02 21:01-21:23/22
15	08:44 15:52-16:19/27 17:06	08:00 15:53-16:30/37 18:00	07:02 18:49	06:53 19:05-19:36/31 20:40	05:57 18:38-19:58/80 20:42-20:52/10 21:28 07:14-07:36/22	05:30 18:50-19:58/68 22:02 21:01-21:23/22
16	08:43 15:51-16:20/29 17:08	07:58 15:55-16:29/34 18:02	06:59 18:51	06:50 19:02-19:38/36 20:42 07:26-07:35/9	05:55 18:38-19:59/81 20:44-20:51/7 21:30 07:16-07:35/19	05:30 18:50-19:58/68 22:03 21:01-21:24/23
17	08:42 15:50-16:22/32 17:09	07:57 15:57-16:27/30 18:04	06:57 18:52	06:48 18:59-19:41/42 20:43 07:22-07:39/17	05:54 18:38-19:58/80 21:31 07:17-07:32/15	05:30 18:51-19:59/68 22:03 21:02-21:24/22
18	08:41 15:50-16:23/33 17:11	07:55 15:59-16:26/27 18:05	06:55 18:54	06:46 18:57-19:43/46 20:45 07:19-07:41/22	05:52 18:38-19:58/80 21:33 07:20-07:29/9	05:30 18:51-19:59/68 22:03 21:02-21:24/22
19	08:40 15:49-16:25/36 17:12	07:53 16:02-16:23/21 18:07	06:53 18:56	06:44 18:55-19:44/49 20:47 07:17-07:42/25	05:51 18:39-19:59/80 21:34	05:30 18:51-19:59/68 22:04 21:02-21:24/22
20	08:39 16:39-16:43/4 17:14 15:49-16:26/37	07:51 16:05-16:20/15 18:09	06:50 18:57	06:42 18:53-19:46/53 20:48 07:15-07:44/29	05:49 18:39-19:59/80 21:35	05:30 18:51-19:59/68 22:04 21:02-21:24/22
21	08:38 16:36-16:44/8 17:16 15:48-16:26/38	07:49 17:42-17:44/2 18:11	06:48 18:59	06:40 18:51-19:47/56 20:50 07:13-07:45/32	05:48 18:40-19:59/79 21:37	05:30 18:51-19:59/68 22:04 21:02-21:24/22
22	08:37 16:35-16:46/11 17:17 15:48-16:28/40	07:47 17:42-17:46/4 18:12	06:46 19:01	06:38 18:49-19:49/60 20:52 07:12-07:45/33	05:47 18:39-19:58/79 21:38 21:04-21:07/3	05:30 18:52-20:00/68 22:05 21:03-21:25/22
23	08:36 16:35-16:48/13 17:19 15:48-16:29/41	07:45 17:42-17:48/6 18:14	06:44 19:02	06:36 18:48-19:50/62 20:53 07:11-07:46/35	05:46 18:40-19:58/78 21:40 21:02-21:09/7	05:30 18:52-20:00/68 22:05 21:03-21:25/22
24	08:35 16:34-16:50/16 17:21 15:48-16:30/42	07:43 17:43-17:50/7 18:16	06:41 19:04	06:34 18:47-19:51/64 20:55 07:10-07:46/36	05:44 18:40-19:58/78 21:41 21:01-21:10/9	05:31 18:52-20:00/68 22:05 21:03-21:25/22
25	08:34 16:33-16:51/18 17:22 15:47-16:30/43	07:41 17:45-17:50/5 18:18	06:39 19:06	06:32 18:45-19:51/66 20:57 07:09-07:47/38	05:43 18:40-19:58/78 21:42 21:01-21:11/10	05:31 18:53-20:01/68 22:05 21:04-21:26/22
26	08:32 16:33-16:54/21 17:24 15:47-16:32/45	07:39 18:20	06:37 19:07	06:30 18:44-19:52/68 20:58 07:08-07:47/39	05:42 18:41-19:58/77 21:43 21:00-21:12/12	05:31 18:52-20:00/68 22:05 21:04-21:26/22
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28	08:30 15:46-16:57/71 17:28	07:34 18:23	06:32 19:10	06:26 18:43-19:54/71 21:01 07:08-07:48/40	05:40 18:42-19:58/76 21:46 20:59-21:14/15	05:32 18:53-20:01/68 22:05 21:04-21:26/22
29	08:28 15:46-16:59/73 17:29		07:30 20:12	06:24 18:42-19:55/73 21:03 07:07-07:48/41	05:39 18:43-19:58/75 21:47 20:59-21:16/17	05:33 18:53-20:02/69 22:05 21:05-21:27/22
30	08:27 15:46-16:59/73 17:31		07:28 20:14	06:22 18:41-19:55/74 21:05 07:07-07:47/40	05:38 18:43-19:58/75 21:48 20:59-21:17/18	05:33 18:53-20:02/69 22:04 21:04-21:27/23
31	08:26 15:46-16:58/72 17:33		07:26 20:15		05:37 18:43-19:58/75 21:49 20:59-21:18/19	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	981	1031	14	1445	3231	2752

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 18:53-20:02/69 22:04 21:05-21:27/22	06:09 18:48-20:08/80 20:50-21:04/14 21:34 07:20-07:50/30	06:57 20:01-20:07/6 20:33	07:45 18:54-18:58/4 19:25	07:37 16:11-16:22/11 17:21 15:19-16:04/45	08:26 15:38-15:53/15 16:42
2	05:35 18:52-20:02/70 22:04 21:04-21:27/23	06:11 18:48-20:09/81 20:50-21:03/13 21:32 07:20-07:52/32	06:59 20:00-20:04/4 20:31	07:46 18:54-18:56/2 19:23	07:38 16:09-16:24/15 17:19 15:18-16:05/47	08:27 15:41-15:52/11 16:42
3	05:35 18:53-20:03/70 22:04 21:05-21:27/22	06:12 18:48-20:08/80 20:49-21:01/12 21:30 07:19-07:52/33	07:00 19:59-20:03/4 20:29	07:48 18:53-18:54/1 19:21	07:40 16:08-16:26/18 17:18 15:18-16:05/47	08:29 16:41
4	05:36 18:53-20:03/70 22:03 21:05-21:28/23	06:14 18:47-20:07/80 20:49-20:59/10 21:29 07:19-07:54/35	07:02 19:58-20:00/2 20:27	07:49 19:19	07:42 15:17-16:26/69 17:16	08:30 16:40
5	05:37 18:53-20:04/71 22:03 21:06-21:28/22	06:15 18:48-20:08/80 20:49-20:58/9 21:27 07:18-07:54/36	07:03 20:24	07:51 19:17	07:44 15:17-16:27/70 17:14	08:31 16:40
6	05:38 18:52-20:04/72 22:02 21:05-21:28/23	06:17 18:48-20:07/79 20:49-20:56/7 21:25 07:17-07:54/37	07:05 20:22	07:53 19:14	07:45 15:17-16:28/71 17:12	08:33 16:40
7	05:38 18:52-20:04/72 22:02 21:05-21:28/23	06:18 18:48-20:07/79 20:50-20:55/5 21:24 07:17-07:55/38	07:07 20:20	07:54 19:12	07:47 15:17-16:28/71 17:11	08:34 16:39
8	05:39 18:52-20:05/73 22:01 21:06-21:28/22	06:20 18:48-20:06/78 20:50-20:53/3 21:22 07:16-07:55/39	07:08 20:18	07:56 19:10	07:49 15:17-16:29/72 17:09	08:35 16:39
9	05:40 18:52-20:05/73 22:00 21:06-21:28/22	06:21 18:49-20:06/77 21:20 07:16-07:56/40	07:10 20:15	07:58 19:08	07:51 15:17-16:29/72 17:08	08:36 16:39
10	05:41 18:52-20:05/73 22:00 21:06-21:28/22	06:23 18:48-20:05/77 21:18 07:15-07:55/40	07:11 20:13	07:59 19:05	07:52 15:17-16:30/73 17:06	08:37 16:38
11	05:42 18:52-20:06/74 21:59 21:07-21:27/20	06:24 18:49-20:05/76 21:16 07:16-07:56/40	07:13 20:11	08:01 19:03	07:54 15:18-16:30/72 17:04	08:38 16:38
12	05:43 18:52-20:06/74 21:58 21:07-21:27/20	06:26 18:49-20:04/75 21:14 07:15-07:55/40	07:14 20:09	08:02 19:01	07:56 15:17-16:30/73 17:03	08:39 16:38
13	05:44 18:52-20:06/74 21:57 21:07-21:26/19	06:27 18:49-20:03/74 21:13 07:14-07:55/41	07:16 20:06	08:04 18:59	07:57 15:18-16:31/73 17:01	08:40 16:38
14	05:45 18:51-20:07/76 21:56 21:08-21:25/17	06:29 18:50-20:02/72 21:11 07:15-07:55/40	07:18 20:04	08:06 18:57	07:59 15:18-16:29/71 17:00	08:41 16:38
15	05:47 18:51-20:07/76 21:56 21:08-21:24/16	06:31 18:50-20:01/71 21:09 07:14-07:54/40	07:19 20:02	08:07 18:55	08:01 15:19-16:28/69 16:59	08:42 16:38
16	05:48 18:51-20:07/76 21:55 21:09-21:23/14	06:32 18:51-20:00/69 21:07 07:15-07:54/39	07:21 20:00	08:09 18:53	08:03 16:06-16:27/21 16:57 15:20-16:05/45	08:43 16:38
17	05:49 18:51-20:07/76 21:54 21:09-21:22/13	06:34 18:51-19:59/68 21:05 07:15-07:53/38	07:22 19:57	08:11 18:15-18:22/7 18:50	08:04 16:07-16:25/18 16:56 15:21-16:04/43	08:44 16:39
18	05:50 18:50-20:07/77 21:53 21:10-21:21/11	06:35 18:52-19:58/66 21:03 07:16-07:53/37	07:24 19:55	08:13 18:14-18:20/6 18:48	08:06 16:08-16:24/16 16:55 15:22-16:04/42	08:45 16:39
19	05:51 18:50-20:07/77 21:51 21:10-21:20/10	06:37 18:53-19:56/63 21:01 07:16-07:52/36	07:25 19:53	08:14 18:13-18:18/5 18:46	08:08 16:09-16:22/13 16:54 15:22-16:03/41	08:45 16:39
20	05:53 18:50-20:09/79 21:50 21:12-21:20/8	06:38 18:54-19:55/61 20:59 07:17-07:52/35	07:27 19:50	08:16 18:13-18:17/4 18:44	08:09 16:10-16:21/11 16:52 15:23-16:03/40	08:46 16:39
21	05:54 18:50-20:08/78 21:49 21:13-21:18/5	06:40 18:54-19:53/59 20:57 07:17-07:50/33	07:29 19:48	08:18 18:12-18:14/2 18:42 16:40-16:46/6	08:11 16:12-16:20/8 16:51 15:24-16:02/38	08:47 16:40
22	05:55 18:50-20:08/78 21:48 21:15-21:17/2	06:41 18:56-19:52/56 20:55 07:18-07:49/31	07:30 19:46	08:19 16:34-16:51/17 18:40	08:12 16:15-16:19/4 16:50 15:25-16:02/37	08:47 16:40
23	05:56 18:49-20:08/79 21:47	06:43 18:57-19:49/52 20:53 07:19-07:47/28	07:32 19:44	08:21 16:31-16:54/23 18:38	08:14 15:26-16:01/35 16:49	08:48 16:41
24	05:58 18:50-20:09/79 21:45	06:45 18:59-19:48/49 20:50 07:21-07:46/25	07:33 19:41	08:23 16:29-16:57/28 18:36	08:16 15:27-16:00/33 16:48	08:48 16:41
25	05:59 18:49-20:09/80 21:44 07:34-07:37/3	06:46 19:00-19:45/45 20:48 07:22-07:43/21	07:35 19:39	07:24 15:27-15:58/31 17:34	08:17 15:28-16:00/32 16:47	08:48 16:42
26	06:01 18:49-20:09/80 21:43 07:29-07:41/12	06:48 19:02-19:43/41 20:46 07:25-07:41/16	07:37 19:37	07:26 15:25-16:00/35 17:32	08:19 15:29-15:58/29 16:46	08:49 16:43
27	06:02 18:48-20:08/80 20:55-20:59/4 21:41 07:28-07:44/16	06:49 19:04-19:40/36 20:44 07:28-07:36/8	07:38 19:35	07:28 15:23-16:00/37 17:30	08:20 15:31-15:58/27 16:45	08:49 16:44
28	06:03 18:49-20:09/80 20:54-21:02/8 21:40 07:26-07:46/20	06:51 19:07-19:37/30 20:42	07:40 19:32	07:30 15:22-16:01/39 17:28	08:22 15:33-15:57/24 16:44	08:49 16:44
29	06:05 18:48-20:09/81 20:52-21:03/11 21:38 07:24-07:47/23	06:52 19:10-19:32/22 20:40	07:41 19:30	07:31 15:21-16:02/41 17:27	08:23 15:34-15:56/22 16:44	08:49 16:45
30	06:06 18:48-20:08/80 20:51-21:03/12 21:37 07:23-07:49/26	06:54 19:19-19:24/5 20:38	07:43 18:56-19:00/4 19:28	07:33 15:20-16:03/43 17:25	08:25 15:36-15:55/19 16:43	08:50 16:46
31	06:08 18:48-20:09/81 20:50-21:04/14 21:35 07:22-07:50/28	06:56 20:04-20:07/3 20:35		07:35 15:19-16:04/45 17:23		08:50 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	2904	2865	20	376	1637	26

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:50 14:50-15:34/44	08:24 08:58-09:29/31	07:32	07:23 19:36-19:52/16	06:20 07:00-07:25/25	05:37
	16:48 12:37-13:24/47	17:35 17:03-17:05/2	18:25	20:17	21:06	21:51
2	08:50 14:51-15:35/44	08:23 08:57-09:29/32	07:30	07:21 19:34-19:53/19	06:18 07:00-07:24/24	05:36
	16:49 12:38-13:24/46	17:37 17:04-17:07/3	18:27	20:19	21:08	21:52
3	08:49 14:52-15:35/43	08:21 08:56-09:29/33	07:28	07:19 19:33-19:55/22	06:17 07:02-07:24/22	05:35
	16:50 12:39-13:25/46	17:38 17:06-17:07/1	18:28	20:20	21:10	21:53
4	08:49 14:52-15:35/43	08:19 08:57-09:31/34	07:26	07:17 19:33-19:57/24	06:15 07:02-07:22/20	05:34
	16:51 12:39-13:24/45	17:40	18:30	20:22	21:11	21:54
5	08:49 14:53-15:36/43	08:18 08:56-09:31/35	07:24	07:14 19:33-19:58/25	06:13 07:03-07:20/17	05:34
	16:53 12:40-13:24/44	17:42	18:32	20:24	21:13	21:55
6	08:49 14:53-15:35/42	08:16 08:56-09:31/35	07:22	07:12 19:32-19:56/24	06:11 07:06-07:19/13	05:33
	16:54 12:41-13:24/43	17:44	18:33	20:25	21:14	21:56
7	08:48 14:54-15:36/42	08:15 08:55-09:31/36	07:19	07:10 19:32-19:55/23	06:09 07:08-07:16/8	05:32
	16:55 12:42-13:24/42	17:46	18:35	20:27	21:16	21:56
8	08:48 14:54-15:36/42	08:13 08:56-09:32/36	07:17	07:08 19:32-19:54/22	06:08	05:32
	16:56 12:43-13:23/40	17:47	18:37	20:29	21:17	21:57
9	08:48 14:55-15:37/42	08:11 08:56-09:32/36	07:15	07:06 19:33-19:53/20	06:06	05:32
	16:58 12:45-13:24/39	17:49	18:39	20:30	21:19	21:58
10	08:47 14:55-15:37/42	08:09 08:56-09:31/35	07:13	07:03 19:34-19:52/18	06:04	05:31
	16:59 12:46-13:23/37	17:51	18:40	20:32	21:21	21:59
11	08:46 14:56-15:37/41	08:08 08:56-09:31/35	07:11	07:01 19:35-19:51/16	06:03	05:31
	17:00 12:47-13:22/35	17:53	18:42	20:34	21:22	22:00
12	08:46 14:57-15:37/40	08:06 08:57-09:31/34	07:08	06:59 19:36-19:48/12	06:01	05:30
	17:02 12:49-13:22/33	17:55	18:44	20:35	21:24	22:00
13	08:45 14:58-15:37/39	08:04 08:57-09:30/33	07:06	06:57 19:40-19:44/4	06:00	05:30
	17:03 12:51-13:21/30	17:56	18:45	20:37	21:25	22:01
14	08:44 14:58-15:37/39	08:02 08:58-09:29/31	07:04	06:55	05:58	05:30
	17:05 12:53-13:20/27	17:58	18:47	20:38	21:27	22:02
15	08:44 14:59-15:37/38	08:00 08:58-09:28/30	07:02	06:53	05:57	05:30
	17:06 12:55-13:18/23	18:00	18:49	20:40	21:28	22:02
16	08:43 15:00-15:37/37	07:58 08:59-09:27/28	06:59 18:25-18:26/1	06:50	05:55	05:30
	17:08 12:58-13:15/17	18:02	18:51	20:42	21:30	22:03
17	08:42 15:01-15:37/36	07:57 09:00-09:26/26	06:57 18:24-18:27/3	06:48 07:11-07:22/11	05:54	05:30
	17:09 13:07-13:10/3	18:04	18:52	20:43	21:31	22:03
18	08:41 15:02-15:37/35	07:55 09:02-09:24/22	06:55 18:25-18:29/4	06:46 07:09-07:24/15	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 15:03-15:36/33	07:53 09:04-09:21/17	06:53 18:26-18:31/5	06:44 07:07-07:25/18	05:51	05:30
	17:13	18:07	18:56	20:47	21:34	22:04
20	08:39 15:05-15:36/31	07:51 09:07-09:18/11	06:50	06:42 07:05-07:26/21	05:49	05:30
	17:14	18:09 17:40-17:42/2	18:57	20:48	21:35	22:04
21	08:38 15:05-15:35/30	07:49 17:42-17:44/2	06:48	06:40 07:03-07:27/24	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 15:07-15:34/27	07:47	06:46	06:38 07:02-07:27/25	05:47	05:30
	17:17	18:13	19:01	20:52	21:38	22:05
23	08:36 15:09-15:33/24	07:45	06:44	06:36 07:01-07:28/27	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 15:12-15:32/20	07:43	06:41	06:34 07:00-07:28/28	05:45	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 15:14-15:30/16	07:41	06:39	06:32 07:00-07:28/28	05:43	05:31
	17:23 09:06-09:17/11	18:18	19:06	20:57	21:42	22:05
26	08:32 15:19-15:27/8	07:39	06:37	06:30 06:59-07:27/28	05:42	05:31
	17:24 09:04-09:20/16	18:20	19:07	20:58	21:43	22:05
27	08:31 09:02-09:22/20	07:36	06:35	06:28 06:59-07:27/28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 09:01-09:24/23	07:34	06:32	06:26 07:00-07:28/28	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:00-09:25/25		07:30 19:42-19:47/5	06:24 07:00-07:27/27	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 08:59-09:27/28		07:28 19:39-19:49/10	06:22 07:00-07:26/26	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:26 08:58-09:27/29		07:26 19:37-19:50/13		05:37	
	17:33 17:01-17:03/2		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1672	620	41	579	129	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August		September		October		November		December	
1	05:34	06:09		06:57	19:34-19:50/16	07:45		07:37	08:26-09:01/35	08:26	14:38-15:19/41
	22:04	21:34		20:33		19:25		17:21		16:42	12:29-13:04/35
2	05:35	06:11		06:59	19:32-19:50/18	07:46		07:38	08:26-09:01/35	08:27	14:38-15:20/42
	22:04	21:32		20:31		19:23		17:19		16:42	12:29-13:06/37
3	05:35	06:12		07:00	19:31-19:52/21	07:48		07:40	08:26-09:02/36	08:29	14:38-15:20/42
	22:04	21:30		20:29		19:21		17:18		16:41	12:28-13:07/39
4	05:36	06:14		07:02	19:29-19:51/22	07:49		07:42	08:25-09:01/36	08:30	14:39-15:21/42
	22:03	21:29		20:27		19:19		17:16		16:40	12:28-13:08/40
5	05:37	06:15		07:03	19:29-19:52/23	07:51		07:44	08:25-09:01/36	08:31	14:39-15:21/42
	22:03	21:27		20:24		19:17		17:14		16:40	12:27-13:09/42
6	05:38	06:17	07:16-07:26/10	07:05	19:28-19:52/24	07:53		07:45	08:26-09:01/35	08:33	14:39-15:21/42
	22:02	21:25		20:22		19:14		17:12		16:40	12:27-13:10/43
7	05:38	06:18	07:14-07:29/15	07:07	19:28-19:53/25	07:54		07:47	08:26-09:00/34	08:34	14:40-15:23/43
	22:02	21:24		20:20		19:12		17:11		16:39	12:27-13:11/44
8	05:39	06:20	07:12-07:30/18	07:08	19:27-19:51/24	07:56		07:49	08:27-09:00/33	08:35	14:40-15:23/43
	22:01	21:22		20:18		19:10		17:09	16:36-16:39/3	16:39	12:27-13:12/45
9	05:40	06:21	07:12-07:32/20	07:10	19:28-19:49/21	07:58		07:50	08:28-09:00/32	08:36	14:40-15:23/43
	22:00	21:20		20:15		19:08		17:08	16:34-16:38/4	16:39	12:27-13:13/46
10	05:41	06:23	07:10-07:32/22	07:11	19:27-19:46/19	07:59		07:52	08:29-08:59/30	08:37	14:40-15:24/44
	22:00	21:18		20:13		19:05		17:06	16:33-16:36/3	16:38	12:27-13:13/46
11	05:42	06:24	07:10-07:34/24	07:13	19:28-19:45/17	08:01		07:54	08:30-08:59/29	08:38	14:40-15:24/44
	21:59	21:16		20:11		19:03		17:04	16:33-16:35/2	16:38	12:27-13:14/47
12	05:43	06:26	07:08-07:34/26	07:14	19:28-19:42/14	08:02		07:56	08:31-08:58/27	08:39	14:41-15:24/43
	21:58	21:14		20:09		19:01		17:03		16:38	12:27-13:15/48
13	05:44	06:27	07:08-07:35/27	07:16	19:30-19:40/10	08:04		07:57	08:32-08:57/25	08:40	14:41-15:25/44
	21:57	21:13		20:06		18:59		17:01		16:38	12:27-13:16/49
14	05:45	06:29	07:07-07:35/28	07:18	19:32-19:37/5	08:06		07:59	08:33-08:56/23	08:41	14:42-15:25/43
	21:56	21:11		20:04		18:57		17:00		16:38	12:27-13:16/49
15	05:47	06:31	07:06-07:34/28	07:19		08:07		08:01	08:35-08:55/20	08:42	14:42-15:26/44
	21:56	21:09		20:02		18:55		16:59		16:38	12:28-13:17/49
16	05:48	06:32	07:07-07:35/28	07:21		08:09		08:02	14:52-15:00/8	08:43	14:43-15:27/44
	21:55	21:07		20:00		18:53		16:57	08:37-08:53/16	16:38	12:28-13:18/50
17	05:49	06:34	07:06-07:34/28	07:22		08:11		08:04	14:48-15:04/16	08:44	14:43-15:27/44
	21:54	21:05		19:57		18:50		16:56	08:40-08:51/11	16:39	12:29-13:19/50
18	05:50	06:35	07:06-07:34/28	07:24		08:12		08:06	14:46-15:06/20	08:45	14:43-15:27/44
	21:52	21:03		19:55		18:48		16:55		16:39	12:28-13:18/50
19	05:51	06:37	07:06-07:33/27	07:25		08:14		08:07	14:43-15:07/24	08:45	14:44-15:28/44
	21:51	21:01		19:53		18:46		16:54		16:39	12:29-13:19/50
20	05:53	06:38	07:07-07:33/26	07:27		08:16	18:15-18:17/2	08:09	14:42-15:09/27	08:46	14:45-15:29/44
	21:50	20:59		19:50		18:44		16:52		16:40	12:30-13:20/50
21	05:54	06:40	07:07-07:32/25	07:29		08:18	18:11-18:14/3	08:11	14:41-15:11/30	08:47	14:45-15:29/44
	21:49	20:57		19:48		18:42		16:51		16:40	12:30-13:20/50
22	05:55	06:41	07:08-07:32/24	07:30		08:19	09:36-09:50/14	08:12	14:41-15:12/31	08:47	14:46-15:30/44
	21:48	20:55		19:46		18:40	18:10-18:12/2	16:50		16:40	12:31-13:21/50
23	05:57	06:43	07:09-07:30/21	07:32		08:21	09:34-09:52/18	08:14	14:39-15:12/33	08:48	14:46-15:30/44
	21:47	20:53		19:44		18:38		16:49		16:41	12:31-13:21/50
24	05:58	06:45	07:11-07:29/18	07:33	19:10-19:15/5	08:23	09:32-09:55/23	08:16	14:39-15:14/35	08:48	14:46-15:30/44
	21:45	20:50		19:41		18:36		16:48		16:41	12:31-13:21/50
25	05:59	06:46	07:12-07:26/14	07:35	19:08-19:12/4	07:24	08:31-08:56/25	08:17	14:39-15:15/36	08:48	14:47-15:31/44
	21:44	20:48		19:39		17:34		16:47	12:46-12:47/1	16:42	12:32-13:22/50
26	06:01	06:48	07:14-07:24/10	07:37	19:07-19:10/3	07:26	08:29-08:58/29	08:19	14:38-15:15/37	08:49	14:47-15:31/44
	21:43	20:46		19:37		17:32		16:46	12:36-12:53/17	16:43	12:33-13:23/50
27	06:02	06:49		07:38	19:07-19:08/1	07:28	08:28-08:58/30	08:20	14:38-15:16/38	08:49	14:48-15:32/44
	21:41	20:44		19:35		17:30		16:45	12:34-12:57/23	16:44	12:33-13:23/50
28	06:03	06:51		07:40		07:30	08:27-08:59/32	08:22	14:38-15:17/39	08:49	14:48-15:32/44
	21:40	20:42		19:32		17:28		16:44	12:33-12:59/26	16:44	12:34-13:23/49
29	06:05	06:52		07:41		07:31	08:26-09:00/34	08:23	14:38-15:17/39	08:49	14:48-15:32/44
	21:38	20:40		19:30		17:27		16:44	12:31-13:01/30	16:45	12:34-13:23/49
30	06:06	06:54	19:41-19:45/4	07:43		07:33	08:26-09:00/34	08:25	14:38-15:19/41	08:50	14:49-15:33/44
	21:37	20:38		19:28		17:25		16:43	12:30-13:03/33	16:46	12:35-13:23/48
31	06:08	06:56	19:36-19:48/12			07:35	08:26-09:01/35			08:50	14:49-15:33/44
	21:35	20:35				17:23				16:47	12:36-13:24/48
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	483		272		281		1089		2799	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	08:12-08:31/19	06:20		05:36	
	16:48	17:35	18:25		20:17		21:06		21:51	
2	08:50	08:22	07:30		07:21	08:15-08:28/13	06:18		05:36	
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28		07:19		06:16		05:35	
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26		07:16		06:15		05:34	
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24		07:14		06:13		05:33	
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21		07:12		06:11		05:33	
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19		07:10		06:09		05:32	
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17		07:08		06:08		05:32	
	16:56	17:47	18:37		20:29		21:17		21:57	
9	08:47	08:11	07:15		07:05		06:06		05:31	
	16:57	17:49	18:38		20:30		21:19		21:58	
10	08:47	08:09	07:13		07:03		06:04		05:31	
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:46	08:08	07:10		07:01		06:03	06:28-06:29/1	05:30	06:00-06:01/1
	17:00	17:53	18:42		20:33		21:22		22:00	
12	08:46	08:06	07:08	07:31-07:32/1	06:59		06:01	06:26-06:29/3	05:30	05:59-06:00/1
	17:02	17:54	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	07:29-07:37/8	06:57		05:59	06:25-06:29/4	05:30	05:59-06:00/1
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	07:26-07:38/12	06:55		05:58	06:23-06:28/5	05:30	05:59-06:00/1
	17:05	17:58	18:47		20:38		21:27		22:02	
15	08:44	08:00	07:02	07:24-07:40/16	06:52		05:56	06:22-06:28/6	05:30	05:59-06:00/1
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:22-07:42/20	06:50		05:55	06:21-06:28/7	05:29	05:59-06:00/1
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	07:19-07:42/23	06:48		05:53	06:19-06:27/8	05:29	05:59-06:00/1
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	07:17-07:43/26	06:46		05:52	06:18-06:26/8	05:29	05:59-06:00/1
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:53	07:15-07:43/28	06:44		05:51	06:17-06:25/8	05:29	05:59-06:00/1
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50	07:13-07:44/31	06:42		05:49	06:19-06:24/5	05:29	05:59-06:00/1
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48	07:10-07:43/33	06:40		05:48		05:30	06:00-06:01/1
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46	07:08-07:43/35	06:38		05:47		05:30	06:00-06:01/1
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:43	07:08-07:43/35	06:36		05:45		05:30	06:00-06:01/1
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41	07:08-07:43/35	06:34		05:44		05:30	06:00-06:01/1
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:40	06:39	07:08-07:42/34	06:32		05:43		05:31	06:01-06:02/1
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37	07:08-07:41/33	06:30		05:42		05:31	06:01-06:02/1
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34	07:08-07:40/32	06:28		05:41		05:31	06:02-06:03/1
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32	07:08-07:39/31	06:26		05:40		05:32	06:02-06:03/1
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	08:09-08:37/28	06:24		05:39		05:32	06:03-06:04/1
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	08:10-08:36/26	06:22		05:38		05:33	06:03-06:04/1
	17:31		20:14		21:05		21:48		22:04	
31	08:25		07:25	08:12-08:34/22			05:37			
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	509		32		55		20	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 06:04-06:05/1	06:09 06:37-06:39/2	06:57	07:44 08:09-08:14/5	07:36	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:05/1	06:10	06:59	07:46	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02	07:49	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05	07:52	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:19	07:08	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57	07:50	08:36
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41	06:23	07:11 08:09-08:21/12	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 08:06-08:24/18	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 08:03-08:25/22	08:02	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 08:02-08:27/25	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 08:00-08:28/28	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 07:59-08:29/30	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 07:57-08:29/32	08:09	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 07:56-08:29/33	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 07:55-08:29/34	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 07:55-08:29/34	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 07:55-08:30/35	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 07:54-08:29/35	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 07:55-08:29/34	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 07:56-08:27/31	08:21	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:35/6	06:44	07:33 07:58-08:27/29	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:36/8	06:46	07:35 07:59-08:25/26	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:37/8	06:48	07:36 08:01-08:25/24	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:38/8	06:49	07:38 08:03-08:24/21	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:39/7	06:51	07:40 08:04-08:22/18	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:39/6	06:52	07:41 08:06-08:20/14	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:39/5	06:54	07:43 08:07-08:17/10	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:07 06:36-06:39/3	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	53	2	545	5	0	0

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:50 13:56-14:53/57 09:36-10:09/33 16:48 11:31-12:19/48	08:24 13:51-15:19/88 17:35	07:32 14:09-15:06/57 07:58-08:14/16 18:25 08:22-08:39/17	07:23 07:46-08:10/24 20:17 18:12-18:47/35	06:20 21:06	05:36 06:14-06:46/32 21:50
2	08:49 13:56-14:54/58 09:37-10:10/33 16:49 11:31-12:19/48	08:22 13:51-15:19/88 17:36	07:30 14:11-15:04/53 07:59-08:13/14 18:26 08:24-08:37/13	07:21 07:43-08:09/26 20:19 18:14-18:46/32	06:18 21:08	05:36 06:14-06:47/33 21:52
3	08:49 13:55-14:54/59 09:37-10:10/33 16:50 11:31-12:19/48	08:21 13:51-15:19/88 17:38	07:28 14:15-15:02/47 08:00-08:12/12 18:28 08:29-08:31/2	07:19 07:43-08:08/25 20:20 18:16-18:43/27	06:16 21:09	05:35 06:14-06:47/33 21:53
4	08:49 13:55-14:55/60 09:37-10:10/33 16:51 11:32-12:19/47	08:19 13:51-15:20/89 17:40	07:26 17:34-17:39/5 08:02-08:10/8 18:30 14:18-14:59/41	07:17 07:43-08:07/24 20:22 18:19-18:41/22	06:15 21:11	05:34 06:13-06:46/33 21:54
5	08:49 13:56-14:57/61 09:38-10:11/33 16:53 11:34-12:19/45	08:18 13:51-15:20/89 17:42	07:24 17:27-17:45/18 07:46-07:50/4 18:32 14:22-14:55/33	07:14 07:44-08:06/22 20:24 18:23-18:37/14	06:13 21:13	05:34 06:14-06:47/33 21:55
6	08:49 13:55-14:57/62 09:38-10:11/33 16:54 11:34-12:19/45	08:16 13:51-15:20/89 17:44	07:21 17:23-17:48/25 07:44-07:53/9 18:33 14:28-14:50/22	07:12 07:44-08:03/19 20:25	06:11 21:14	05:33 06:14-06:47/33 21:55
7	08:48 13:55-14:58/63 09:38-10:12/34 16:55 11:35-12:19/44	08:14 13:51-15:20/89 17:45	07:19 17:21-17:51/30 18:35 07:42-07:55/13	07:10 07:46-08:01/15 20:27	06:09 21:16	05:32 06:14-06:48/34 21:56
8	08:48 13:55-14:59/64 09:38-10:12/34 16:56 11:36-12:19/43	08:13 13:52-15:21/89 17:47	07:17 17:19-17:53/34 18:37 07:40-07:56/16	07:08 20:29	06:08 21:17	05:32 06:15-06:48/33 21:57
9	08:47 13:55-15:01/66 09:39-10:13/34 16:58 11:37-12:19/42	08:11 13:51-15:20/89 17:49	07:15 17:16-17:53/37 18:39 07:38-07:57/19	07:05 20:30	06:06 21:19	05:31 06:14-06:48/34 21:58
10	08:47 13:55-15:01/66 09:40-10:13/33 16:59 11:38-12:19/41	08:09 13:51-15:20/89 17:51	07:13 17:15-17:55/40 18:40 07:35-07:56/21	07:03 20:32	06:04 21:20	05:31 06:15-06:48/33 21:59
11	08:46 13:54-15:02/68 09:40-10:13/33 17:00 11:39-12:18/39	08:08 13:52-15:20/88 17:53	07:10 17:14-17:56/42 18:42 07:34-07:56/22	07:01 20:33	06:03 21:22	05:31 06:15-06:49/34 22:00
12	08:46 13:54-15:03/69 09:41-10:14/33 17:02 11:40-12:17/37	08:06 13:52-15:20/88 17:54	07:08 17:13-17:57/44 18:44 07:34-07:56/22	06:59 20:35	06:01 21:24	05:30 06:15-06:48/33 22:00
13	08:45 13:54-15:04/70 09:41-10:14/33 17:03 11:42-12:18/36	08:04 13:52-15:20/88 17:56 08:28-08:36/8	07:06 17:11-17:57/46 18:45 07:34-07:56/22	06:57 20:37	05:59 21:25	05:30 06:15-06:49/34 22:01
14	08:44 13:54-15:05/71 09:42-10:14/32 17:05 11:43-12:17/34	08:02 13:52-15:19/87 17:58 08:26-08:39/13	07:04 17:10-17:58/48 18:47 07:34-07:54/20	06:55 20:38	05:58 21:27	05:30 06:15-06:49/34 22:01
15	08:44 13:54-15:06/72 09:42-10:14/32 17:06 11:45-12:16/31	08:00 13:53-15:19/86 18:00 08:24-08:41/17	07:02 17:10-17:59/49 18:49 07:35-07:54/19	06:52 20:40	05:56 21:28	05:30 06:16-06:49/33 22:02
16	08:43 13:54-15:07/73 09:43-10:14/31 17:08 11:46-12:15/29	07:58 13:53-15:19/86 18:02 08:22-08:42/20	06:59 17:09-17:59/50 18:50 07:36-07:52/16	06:50 20:42	05:55 21:30	05:30 06:16-06:49/33 22:02
17	08:42 13:53-15:08/75 09:44-10:14/30 17:09 11:48-12:13/25	07:56 13:54-15:18/84 18:03 08:21-08:43/22	06:57 17:08-17:59/51 18:52 07:37-07:51/14	06:48 07:11-07:14/3 20:43	05:53 06:28-06:29/1 21:31	05:29 06:16-06:50/34 22:03
18	08:41 13:53-15:09/76 09:44-10:14/30 17:11 11:51-12:11/20	07:55 13:54-15:18/84 18:05 08:20-08:44/24	06:55 17:07-17:59/52 18:54 07:39-07:47/8	06:46 07:09-07:14/5 20:45	05:52 06:23-06:34/11 21:32	05:29 06:16-06:50/34 22:03
19	08:40 13:53-15:10/77 09:45-10:14/29 17:12 11:54-12:08/14	07:53 13:55-15:17/82 18:07 08:19-08:45/26	06:53 17:07-17:59/52 18:55	06:44 07:07-07:14/7 20:47	05:51 06:21-06:37/16 21:34	05:29 06:16-06:50/34 22:04
20	08:39 13:52-15:10/78 17:14 09:46-10:14/28	07:51 13:56-15:17/81 18:09 08:18-08:45/27	06:50 17:07-17:59/52 18:57	06:42 07:05-07:13/8 20:48	05:49 06:20-06:38/18 21:35	05:30 06:16-06:50/34 22:04
21	08:38 13:52-15:11/79 17:16 09:46-10:13/27	07:49 13:57-15:16/79 18:11 08:18-08:45/27	06:48 17:06-17:58/52 18:59	06:40 07:03-07:12/9 20:50	05:48 06:19-06:40/21 21:37	05:30 06:16-06:50/34 22:04
22	08:37 13:52-15:12/80 17:17 09:48-10:12/24	07:47 13:58-15:15/77 08:10-08:12/2 18:12 08:18-08:45/27	06:46 17:07-17:58/51 19:00	06:38 07:02-07:11/9 20:52	05:47 06:17-06:40/23 21:38	05:30 06:17-06:51/34 22:04
23	08:36 13:52-15:13/81 17:19 09:49-10:12/23	07:45 13:59-15:14/75 08:08-08:14/6 18:14 08:18-08:45/27	06:44 17:07-17:58/51 19:02	06:36 07:04-07:08/4 20:53	05:46 06:16-06:41/25 21:39	05:30 06:17-06:51/34 22:05
24	08:35 13:51-15:13/82 17:21 09:51-10:11/20	07:43 14:00-15:14/74 08:06-08:15/9 18:16 08:18-08:45/27	06:41 17:06-17:56/50 19:04	06:34 20:55	05:44 06:16-06:42/26 21:41	05:30 06:17-06:51/34 22:05
25	08:33 13:52-15:14/82 17:22 09:52-10:09/17	07:40 14:02-15:13/71 08:04-08:15/11 18:18 08:19-08:44/25	06:39 07:01-07:04/3 19:05 17:07-17:56/49	06:32 20:56	05:43 06:15-06:42/27 21:42	05:31 06:18-06:52/34 22:05
26	08:32 13:52-15:15/83 17:24 09:55-10:07/12	07:38 14:03-15:11/68 08:02-08:16/14 18:19 08:19-08:44/25	06:37 06:59-07:07/8 19:07 17:07-17:55/48	06:30 20:58	05:42 06:15-06:43/28 21:43	05:31 06:18-06:52/34 22:05
27	08:31 13:51-15:15/84 17:26 09:58-10:03/5	07:36 14:04-15:09/65 08:00-08:16/16 18:21 08:20-08:43/23	06:34 06:57-07:09/12 19:09 17:08-17:55/47	06:28 21:00	05:41 06:14-06:44/30 21:45	05:32 06:19-06:52/33 22:05
28	08:30 13:51-15:16/85 17:28	07:34 14:06-15:08/62 07:57-08:15/18 18:23 08:20-08:41/21	06:32 06:55-07:10/15 19:10 17:08-17:53/45	06:26 21:01	05:40 06:14-06:44/30 21:46	05:32 06:18-06:52/34 22:05
29	08:28 13:51-15:16/85 17:29		07:30 07:52-08:10/18 20:12 18:09-18:52/43	06:24 21:03	05:39 06:15-06:45/30 21:47	05:33 06:19-06:53/34 22:05
30	08:27 13:51-15:18/87 17:31		07:28 07:50-08:10/20 20:14 18:10-18:51/41	06:22 21:05	05:38 06:14-06:45/31 21:48	05:33 06:19-06:52/33 22:04
31	08:25 13:51-15:18/87 17:33		07:25 07:48-08:10/22 20:15 18:11-18:50/39		05:37 06:14-06:46/32 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	3748	2747	1849	330	349	1006

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 06:19-06:53/34 22:04	06:09 21:34	06:57 20:33	07:44 17:51-18:36/45 19:25 08:13-08:35/22	07:36 13:21-14:50/89 17:21	08:26 13:36-14:44/68 09:22-09:55/33 16:42 11:21-12:00/39
2	05:34 06:19-06:53/34 22:04	06:11 21:32	06:59 20:31	07:46 17:52-18:36/44 19:23 08:13-08:35/22	07:38 13:21-14:50/89 17:19	08:27 13:38-14:44/66 09:23-09:56/33 16:41 11:21-12:02/41
3	05:35 06:19-06:53/34 22:03	06:12 21:30	07:00 20:29	07:48 17:52-18:33/41 19:21 08:12-08:34/22	07:40 13:20-14:49/89 17:17	08:29 13:38-14:44/66 09:23-09:56/33 16:41 11:20-12:02/42
4	05:36 06:20-06:54/34 22:03	06:13 21:29	07:02 20:27	07:49 17:54-18:32/38 19:19 08:14-08:34/20	07:42 13:20-14:49/89 17:16	08:30 13:40-14:44/64 09:23-09:57/34 16:40 11:21-12:04/43
5	05:37 06:20-06:54/34 22:03	06:15 21:27	07:03 07:43-07:58/15 20:24	07:51 17:55-18:30/35 19:16 08:16-08:33/17	07:43 13:20-14:49/89 17:14	08:31 13:40-14:44/64 09:24-09:57/33 16:40 11:20-12:04/44
6	05:37 06:20-06:53/33 22:02	06:17 21:25	07:05 07:40-07:59/19 20:22	07:52 17:56-18:28/32 19:14 08:17-08:31/14	07:45 13:21-14:49/88 17:12	08:33 13:41-14:43/62 09:24-09:57/33 16:39 11:20-12:05/45
7	05:38 06:20-06:54/34 22:02	06:18 21:23	07:06 07:39-08:01/22 20:20 18:18-18:32/14	07:54 17:58-18:25/27 08:19-08:30/11 19:12 15:09-15:22/13	07:47 13:21-14:49/88 17:11	08:34 13:42-14:43/61 09:25-09:58/33 16:39 11:21-12:07/46
8	05:39 06:21-06:54/33 22:01	06:20 21:22	07:08 07:37-08:01/24 20:18 18:13-18:35/22	07:56 18:01-18:23/22 08:21-08:28/7 19:10 15:01-15:29/28	07:49 13:21-14:49/88 17:09	08:35 13:43-14:43/60 09:25-09:58/33 16:39 11:21-12:07/46
9	05:40 06:21-06:54/33 22:00	06:21 21:20	07:10 07:37-08:02/25 20:15 18:10-18:37/27	07:57 18:04-18:18/14 08:38-08:41/3 19:08 14:55-15:32/37	07:50 13:22-14:49/87 17:07	08:36 13:44-14:43/59 09:25-09:58/33 16:39 11:21-12:08/47
10	05:41 06:21-06:54/33 22:00	06:23 21:18	07:11 07:36-08:02/26 20:13 18:07-18:39/32	07:59 14:51-15:35/44 19:05 08:35-08:45/10	07:52 13:22-14:49/87 17:06	08:37 13:45-14:43/58 09:26-09:59/33 16:38 11:21-12:08/47
11	05:42 06:22-06:54/32 21:59	06:24 21:16	07:13 07:38-08:02/24 20:11 18:06-18:40/34	08:01 14:47-15:37/50 08:33-08:47/14 19:03 09:00-09:09/9	07:54 13:22-14:48/86 17:04	08:38 13:46-14:43/57 09:26-09:59/33 16:38 11:21-12:09/48
12	05:43 06:22-06:54/32 21:58	06:26 21:14	07:14 07:39-08:01/22 20:09 18:03-18:41/38	08:02 14:43-15:38/55 08:32-08:48/16 19:01 08:57-09:12/15	07:56 13:22-14:48/86 17:03	08:39 13:46-14:43/57 09:27-09:59/32 16:38 11:21-12:09/48
13	05:44 06:23-06:54/31 21:57	06:27 21:12	07:16 07:41-08:01/20 20:06 18:02-18:42/40	08:04 14:41-15:40/59 08:31-08:48/17 18:59 08:54-09:13/19	07:57 13:23-14:48/85 17:01	08:40 13:47-14:43/56 09:27-10:00/33 16:38 11:21-12:10/49
14	05:45 06:23-06:54/31 21:56	06:29 21:11	07:17 07:42-08:00/18 20:04 17:59-18:42/43	08:06 14:39-15:42/63 08:31-08:48/17 18:57 08:53-09:14/21	07:59 13:23-14:48/85 17:00	08:41 13:48-14:43/55 09:28-10:00/32 16:38 11:21-12:11/50
15	05:46 06:23-06:54/31 21:55	06:30 21:09	07:19 07:44-07:59/15 20:02 17:58-18:43/45	08:07 14:37-15:43/66 08:33-08:48/15 18:55 08:52-09:15/23	08:01 13:24-14:48/84 16:59 09:31-09:37/6	08:42 13:49-14:43/54 09:28-10:01/33 16:38 11:22-12:12/50
16	05:48 06:24-06:53/29 21:54	06:32 21:07	07:21 07:45-07:57/12 19:59 17:57-18:43/46	08:09 14:34-15:43/69 08:35-08:48/13 18:52 08:51-09:16/25	08:02 13:25-14:48/83 16:57 09:28-09:41/13	08:43 13:50-14:43/53 09:29-10:01/32 16:38 11:22-12:12/50
17	05:49 06:24-06:53/29 21:53	06:34 21:05	07:22 07:47-07:56/9 19:57 17:56-18:44/48	08:11 14:32-15:44/72 08:36-08:46/10 18:50 08:50-09:16/26	08:04 13:26-14:48/82 16:56 09:26-09:43/17	08:44 13:51-14:44/53 09:30-10:02/32 16:38 11:23-12:13/50
18	05:50 06:25-06:52/27 21:52	06:35 21:03	07:24 07:49-07:53/4 19:55 17:54-18:43/49	08:12 14:31-15:45/74 08:38-08:46/8 18:48 08:49-09:16/27	08:06 13:25-14:47/82 16:55 09:24-09:44/20	08:45 13:51-14:43/52 09:29-10:02/33 16:39 11:23-12:13/50
19	05:51 06:25-06:52/27 21:51	06:37 21:01	07:25 17:54-18:44/50 19:53	08:14 14:30-15:46/76 08:40-08:45/5 18:46 08:49-09:17/28	08:07 13:26-14:47/81 16:53 09:23-09:46/23	08:45 13:52-14:44/52 09:30-10:02/32 16:39 11:23-12:14/51
20	05:52 06:27-06:52/25 21:50	06:38 07:09-07:15/6 20:59	07:27 17:53-18:44/51 19:50	08:16 14:29-15:47/78 18:44 08:49-09:17/28	08:09 13:27-14:47/80 16:52 09:23-09:47/24	08:46 13:53-14:45/52 09:31-10:03/32 16:39 11:24-12:15/51
21	05:54 06:27-06:51/24 21:49	06:40 07:07-07:16/9 20:57	07:28 17:52-18:43/51 19:48	08:17 14:27-15:47/80 18:42 08:49-09:16/27	08:11 13:28-14:47/79 16:51 09:22-09:49/27	08:46 13:53-14:45/52 09:31-10:03/32 16:40 11:24-12:15/51
22	05:55 06:28-06:50/22 21:48	06:41 07:08-07:17/9 20:55	07:30 17:52-18:44/52 19:46	08:19 14:26-15:47/81 18:40 08:49-09:15/26	08:12 13:29-14:47/78 16:50 09:22-09:50/28	08:47 13:54-14:46/52 09:32-10:04/32 16:40 11:25-12:16/51
23	05:56 06:29-06:49/20 21:46	06:43 07:09-07:17/8 20:52	07:32 17:51-18:43/52 19:44	08:21 14:25-15:48/83 18:38 08:50-09:15/25	08:14 13:29-14:46/77 09:21-09:50/29 16:49 11:30-11:44/14	08:48 13:54-14:46/52 09:32-10:04/32 16:41 11:25-12:16/51
24	05:58 06:31-06:48/17 21:45	06:44 07:11-07:18/7 20:50	07:33 17:51-18:43/52 19:41	08:23 14:25-15:48/83 18:36 08:50-09:14/24	08:15 13:30-14:46/76 09:21-09:51/30 16:48 11:28-11:48/20	08:48 13:54-14:46/52 09:32-10:04/32 16:41 11:25-12:16/51
25	05:59 06:33-06:46/13 21:44	06:46 07:12-07:17/5 20:48	07:35 17:50-18:42/52 19:39 08:24-08:27/3	07:24 13:24-14:49/85 17:34 07:51-08:14/23	08:17 13:31-14:46/75 09:22-09:52/30 16:47 11:26-11:51/25	08:48 13:55-14:47/52 09:33-10:05/32 16:42 11:27-12:17/50
26	06:00 06:35-06:43/8 21:42	06:48 07:14-07:17/3 20:46	07:36 17:50-18:41/51 19:37 08:20-08:31/11	07:26 13:22-14:48/86 17:32 07:53-08:12/19	08:19 13:32-14:45/73 09:21-09:52/31 16:46 11:24-11:53/29	08:49 13:55-14:48/53 09:34-10:06/32 16:43 11:27-12:17/50
27	06:02 21:41	06:49 20:44	07:38 17:51-18:41/50 19:34 08:18-08:33/15	07:28 13:22-14:49/87 17:30 07:54-08:10/16	08:20 13:33-14:45/72 09:21-09:53/32 16:45 11:24-11:55/31	08:49 13:55-14:48/53 09:34-10:06/32 16:43 11:27-12:17/50
28	06:03 21:40	06:51 20:42	07:40 17:50-18:40/50 19:32 08:16-08:34/18	07:30 13:22-14:49/87 17:28 07:56-08:08/12	08:22 13:34-14:45/71 09:22-09:54/32 16:44 11:23-11:57/34	08:49 13:55-14:49/54 09:34-10:06/32 16:44 11:28-12:17/49
29	06:05 21:38	06:52 20:40	07:41 17:51-18:39/48 19:30 08:15-08:35/20	07:31 13:21-14:49/88 17:26 07:59-08:04/5	08:23 13:34-14:45/71 09:21-09:54/33 16:43 11:22-11:58/36	08:49 13:55-14:50/55 09:34-10:07/33 16:45 11:28-12:18/50
30	06:06 21:37	06:54 20:38	07:43 17:50-18:37/47 19:28 08:14-08:36/22	07:33 13:21-14:50/89 17:25	08:25 13:36-14:45/69 09:22-09:55/33 16:43 11:22-11:59/37	08:49 13:55-14:50/55 09:35-10:07/32 16:46 11:29-12:18/49
31	06:08 21:35	06:55 20:35		07:35 13:21-14:50/89 17:23		08:49 13:55-14:51/56 09:35-10:08/33 16:47 11:30-12:18/48
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	734	47	1388	2681	3092	4251

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:50 13:21-14:39/78 16:48	08:24 13:49-14:35/46 17:35	07:32 17:40-17:59/19 18:25	07:23 19:11-19:50/39 20:17	06:20 21:06	05:36 21:51
2	08:50 13:21-14:40/79 16:49	08:23 13:51-14:32/41 17:36	07:30 17:39-18:01/22 18:26	07:21 19:11-19:50/39 20:19	06:18 21:08	05:36 21:52
3	08:49 13:22-14:40/78 16:50	08:21 13:54-14:30/36 17:38	07:28 17:39-18:03/24 18:28	07:19 19:10-19:51/41 20:20	06:16 21:10	05:35 06:03-06:05/2 21:53
4	08:49 13:22-14:40/78 16:51	08:19 13:58-14:28/30 17:40	07:26 17:38-18:05/27 18:30	07:17 19:10-19:51/41 20:22	06:15 21:11	05:34 06:02-06:06/4 21:54
5	08:49 13:23-14:41/78 16:52	08:18 14:03-14:24/21 17:42	07:24 17:37-18:06/29 18:32	07:14 19:10-19:50/40 20:24	06:13 21:13	05:33 06:02-06:07/5 21:55
6	08:49 13:23-14:41/78 16:54	08:16 14:12-14:15/3 17:44	07:21 17:37-18:07/30 18:33	07:12 19:09-19:49/40 20:25	06:11 21:14	05:33 06:01-06:07/6 21:56
7	08:48 13:24-14:41/77 16:55	08:15 17:45	07:19 17:37-18:07/30 18:35	07:10 19:09-19:49/40 20:27	06:09 21:16	05:32 06:01-06:08/7 21:56
8	08:48 13:24-14:41/77 16:56	08:13 17:47	07:17 17:37-18:07/30 18:37	07:08 19:10-19:48/38 20:29	06:08 21:17	05:32 06:01-06:10/9 21:57
9	08:48 13:25-14:42/77 16:58	08:11 17:49	07:15 17:37-18:06/29 18:39	07:05 19:10-19:48/38 20:30	06:06 21:19	05:31 06:00-06:09/9 21:58
10	08:47 13:25-14:42/77 16:59	08:09 17:51	07:13 17:37-18:05/28 18:40	07:03 19:11-19:47/36 20:32	06:04 21:21	05:31 06:00-06:10/10 21:59
11	08:46 13:26-14:42/76 17:00	08:08 17:53	07:10 17:38-18:04/26 18:42	07:01 19:11-19:45/34 20:34	06:03 21:22	05:31 06:00-06:11/11 22:00
12	08:46 13:27-14:43/76 17:02	08:06 17:54	07:08 17:39-18:03/24 18:44	06:59 19:11-19:44/33 20:35	06:01 21:24	05:30 05:59-06:11/12 22:00
13	08:45 13:28-14:43/75 17:03	08:04 17:56	07:06 17:40-18:01/21 18:45	06:57 19:13-19:43/30 20:37	05:59 21:25	05:30 05:59-06:11/12 22:01
14	08:45 13:28-14:43/75 17:05	08:02 17:58	07:04 17:42-17:59/17 18:47	06:55 19:14-19:41/27 20:38	05:58 21:27	05:30 05:59-06:12/13 22:02
15	08:44 13:29-14:43/74 17:06	08:00 18:00	07:02 17:45-17:56/11 18:49	06:52 19:16-19:40/24 20:40	05:56 21:28	05:30 05:59-06:12/13 22:02
16	08:43 13:29-14:43/74 17:08	07:58 18:02	06:59 18:50	06:50 19:18-19:37/19 20:42	05:55 21:30	05:30 05:59-06:13/14 22:03
17	08:42 13:30-14:43/73 17:09	07:57 18:03	06:57 18:21-18:27/6 18:52	06:48 19:20-19:34/14 20:43	05:53 21:31	05:29 05:59-06:13/14 22:03
18	08:41 13:31-14:43/72 17:11	07:55 18:05	06:55 18:19-18:29/10 18:54	06:46 20:45	05:52 21:33	05:29 05:59-06:13/14 22:03
19	08:40 13:32-14:43/71 17:12	07:53 18:07	06:53 18:17-18:31/14 18:55	06:44 20:47	05:51 21:34	05:29 05:59-06:13/14 22:04
20	08:39 13:33-14:43/70 17:14	07:51 18:09	06:50 18:16-18:32/16 18:57	06:42 20:48	05:49 21:35	05:30 05:59-06:13/14 22:04
21	08:38 13:33-14:42/69 17:16	07:49 18:11	06:48 18:14-18:33/19 18:59	06:40 20:50	05:48 21:37	05:30 05:59-06:14/15 22:04
22	08:37 13:34-14:42/68 17:17	07:47 18:12	06:46 18:13-18:35/22 19:00	06:38 20:52	05:47 21:38	05:30 06:00-06:14/14 22:05
23	08:36 13:36-14:42/66 17:19	07:45 18:14	06:44 18:13-18:37/24 19:02	06:36 20:53	05:46 21:40	05:30 06:00-06:14/14 22:05
24	08:35 13:37-14:42/65 17:21	07:43 18:16	06:41 18:12-18:38/26 19:04	06:34 20:55	05:44 21:41	05:30 06:00-06:14/14 22:05
25	08:34 13:37-14:41/64 17:22	07:41 17:48-17:52/4 18:18	06:39 18:11-18:40/29 19:05	06:32 20:57	05:43 21:42	05:31 06:01-06:15/14 22:05
26	08:32 13:39-14:41/62 17:24	07:38 17:46-17:54/8 18:19	06:37 18:12-18:42/30 19:07	06:30 20:58	05:42 21:43	05:31 06:01-06:15/14 22:05
27	08:31 13:40-14:39/59 17:26	07:36 17:44-17:56/12 18:21	06:35 18:12-18:44/32 19:09	06:28 21:00	05:41 21:45	05:32 06:02-06:15/13 22:05
28	08:30 13:42-14:39/57 17:28	07:34 17:41-17:57/16 18:23	06:32 18:11-18:45/34 19:10	06:26 21:01	05:40 21:46	05:32 06:02-06:15/13 22:05
29	08:28 13:43-14:38/55 17:29		07:30 19:12-19:47/35 20:12	06:24 21:03	05:39 21:47	05:33 06:03-06:16/13 22:05
30	08:27 13:45-14:37/52 17:31		07:28 19:12-19:49/37 20:14	06:22 21:05	05:38 21:48	05:33 06:03-06:15/12 22:04
31	08:26 13:46-14:35/49 17:33		07:26 19:13-19:50/37 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	2179	217	738	573	0	319

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 06:04-06:15/11	06:09	06:57 19:10-19:45/35	07:44 18:19-18:42/23	07:37	08:26 13:08-14:24/76
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:15/11	06:11	06:59 19:09-19:45/36	07:46 18:17-18:43/26	07:38	08:27 13:09-14:25/76
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:15/10	06:12	07:00 19:08-19:46/38	07:48 18:16-18:43/27	07:40	08:29 13:08-14:25/77
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:15/9	06:14	07:02 19:07-19:45/38	07:49 18:15-18:43/28	07:42	08:30 13:09-14:26/77
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:15/8	06:15	07:03 19:07-19:46/39	07:51 18:14-18:44/30	07:44 13:39-13:47/8	08:31 13:09-14:26/77
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:14/7	06:17	07:05 19:05-19:45/40	07:53 18:13-18:43/30	07:45 13:32-13:54/22	08:33 13:09-14:27/78
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:14/6	06:18	07:07 19:05-19:46/41	07:54 18:13-18:43/30	07:47 13:27-13:58/31	08:34 13:10-14:28/78
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20	07:08 19:04-19:45/41	07:56 18:13-18:43/30	07:49 13:24-14:01/37	08:35 13:10-14:28/78
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21	07:10 19:05-19:45/40	07:57 18:12-18:40/28	07:50 13:22-14:03/41	08:36 13:10-14:28/78
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:12/1	06:23	07:11 19:04-19:44/40	07:59 18:13-18:38/25	07:52 13:20-14:06/46	08:37 13:10-14:29/79
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 19:04-19:43/39	08:01 18:13-18:36/23	07:54 13:18-14:07/49	08:38 13:11-14:29/78
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:04-19:42/38	08:02 18:13-18:33/20	07:56 13:16-14:08/52	08:39 13:11-14:30/79
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:04-19:40/36	08:04 18:14-18:31/17	07:57 13:15-14:10/55	08:40 13:11-14:30/79
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 19:02-19:37/35	08:06 18:15-18:29/14	07:59 13:14-14:11/57	08:41 13:12-14:31/79
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 19:02-19:35/33	08:07 18:17-18:27/10	08:01 13:13-14:12/59	08:42 13:12-14:31/79
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 19:00-19:33/33	08:09 18:18-18:24/6	08:02 13:12-14:14/62	08:43 13:13-14:32/79
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49	06:34	07:22 19:00-19:31/31	08:11 18:21-18:22/1	08:04 13:11-14:15/64	08:44 13:14-14:33/79
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 18:59-19:28/29	08:12	08:06 13:11-14:16/65	08:45 13:13-14:32/79
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 18:59-19:26/27	08:14	08:08 13:10-14:16/66	08:45 13:14-14:33/79
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 18:59-19:24/25	08:16	08:09 13:09-14:17/68	08:46 13:15-14:34/79
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29 18:59-19:21/22	08:18	08:11 13:09-14:18/69	08:47 13:15-14:34/79
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 19:00-19:20/20	08:19	08:12 13:09-14:19/70	08:47 13:16-14:35/79
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 18:59-19:17/18	08:21	08:14 13:08-14:19/71	08:48 13:16-14:35/79
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 19:01-19:15/14	08:23	08:16 13:08-14:20/72	08:48 13:16-14:35/79
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 19:29-19:31/2	07:35 19:01-19:12/11	07:24	08:17 13:08-14:21/73	08:48 13:17-14:36/79
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 19:23-19:37/14	07:36 19:03-19:10/7	07:26	08:19 13:08-14:21/73	08:49 13:18-14:37/79
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 19:19-19:39/20	07:38 19:07-19:08/1	07:28	08:20 13:08-14:22/74	08:49 13:18-14:37/79
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51 19:17-19:42/25	07:40 18:27-18:36/9	07:30	08:22 13:08-14:23/75	08:49 13:18-14:37/79
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:15-19:42/27	07:41 18:23-18:39/16	07:31	08:23 13:08-14:23/75	08:49 13:19-14:38/79
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:13-19:44/31	07:43 18:20-18:40/20	07:33	08:25 13:08-14:24/76	08:50 13:19-14:38/79
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:11-19:44/33		07:35		08:50 13:20-14:38/78
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	70	152	852	368	1510	2431

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:49	08:24 09:18-09:25/7	07:32 08:04-08:08/4	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49	08:22 08:48-08:49/1	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49	08:21 08:46-08:48/2	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49	08:19 08:45-08:46/1	07:26	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49	08:18 08:43-08:46/3	07:23	07:14	06:13	05:33
	16:52	17:42	18:32	20:23	21:12	21:54
6	08:48	08:16 08:41-08:45/4	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13 08:41-08:42/1	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:07	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:20/6	08:04	07:06	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:22/9	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:26	22:01
15	08:43 09:12-09:23/11	08:00 08:24-08:26/2	07:01	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:24/13	07:58 08:22-08:25/3	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56 08:20-08:25/5	06:57	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:10-09:26/16	07:54 08:18-08:23/5	06:55	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:27/17	07:52 08:16-08:25/9	06:52	06:44	05:51	05:29
	17:12	18:07	18:55	20:46	21:34	22:04
20	08:39 09:09-09:27/18	07:50 08:14-08:25/11	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:09-09:28/19	07:48 08:12-08:26/14	06:48	06:40	05:48	05:30
	17:16 09:05-09:06/1	18:11	18:59	20:50	21:37	22:04
22	08:37 09:09-09:29/20	07:46 08:10-08:26/16	06:46	06:38	05:47	05:30
	17:17 09:04-09:07/3	18:12	19:00	20:51	21:38	22:04
23	08:36 09:10-09:30/20	07:44 08:08-08:26/18	06:43	06:36	05:46	05:30
	17:19 09:03-09:07/4	18:14	19:02	20:53	21:39	22:04
24	08:35 09:09-09:29/20	07:42 08:06-08:25/19	06:41	06:34	05:44	05:30
	17:21 09:02-09:08/6	18:16	19:04	20:55	21:41	22:05
25	08:33 09:10-09:30/20	07:40 08:04-08:24/20	06:39	06:32	05:43	05:31
	17:22 09:00-09:07/7	18:18	19:05	20:56	21:42	22:05
26	08:32 09:11-09:30/19	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24 09:00-09:06/6	18:19 08:14-08:22/8	19:07	20:58	21:43	22:05
27	08:31 09:11-09:29/18	07:36 08:02-08:13/11	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:44	22:05
28	08:29 09:12-09:30/18	07:34 08:02-08:11/9	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:12-09:29/17		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 09:14-09:28/14		07:28	06:22	05:38	05:33
	17:31		20:14	21:04	21:48	22:04
31	08:25 09:15-09:27/12		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	329	185	4	0	0	0

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

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

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:10	06:59	07:46		07:38		08:27	
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:10-08:12/2	08:29	
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:13	07:02	07:49		07:42	08:09-08:14/5	08:30	
	22:03	21:28	20:26	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:15/4	08:31	
	22:02	21:27	20:24	19:16		17:14		16:40	
6	05:37	06:16	07:05	07:52		07:45	08:13-08:15/2	08:32	
	22:02	21:25	20:22	19:14		17:12		16:39	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:17/2	08:34	
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:19/2	08:35	
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	
	22:00	21:20	20:15	19:07		17:07		16:38	
10	05:41	06:23	07:11	07:59		07:52	08:48-08:56/8	08:37	
	21:59	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:46-08:58/12	08:38	
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:55	08:45-08:59/14	08:39	
	21:58	21:14	20:08	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04	08:36-08:43/7	07:57	08:44-09:01/17	08:40	
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06	08:34-08:44/10	07:59	08:44-09:02/18	08:41	
	21:56	21:10	20:04	18:57		17:00		16:38	
15	05:46	06:30	07:19	08:07	08:34-08:45/11	08:01	08:44-09:02/18	08:42	
	21:55	21:08	20:02	18:55	08:47-08:53/6	16:59		16:38	
16	05:48	06:32	07:21	08:09	08:34-08:54/20	08:02	08:44-09:03/19	08:43	
	21:54	21:07	19:59	18:52		16:57	08:33-08:39/6	16:38	
17	05:49	06:33	07:22	08:11	08:36-08:56/20	08:04	08:44-09:04/20	08:44	
	21:53	21:05	19:57	18:50		16:56	08:34-08:41/7	16:38	
18	05:50	06:35	07:24	08:12	08:38-08:57/19	08:06	08:43-09:03/20	08:44	
	21:52	21:03	19:55	18:48		16:55	08:36-08:42/6	16:39	
19	05:51	06:37	07:25	08:14	08:40-08:57/17	08:07	08:44-09:04/20	08:45	09:24-09:26/2
	21:51	21:01	19:53	18:46		16:53	08:37-08:41/4	16:39	
20	05:52	06:38	07:27	08:16	08:42-08:57/15	08:09	08:44-09:04/20	08:46	09:25-09:27/2
	21:50	20:59	19:50	18:44		16:52	08:39-08:42/3	16:39	
21	05:54	06:40	07:28	08:17	08:43-08:56/13	08:11	08:45-09:04/19	08:46	09:25-09:27/2
	21:49	20:56	19:48	18:42		16:51	08:41-08:42/1	16:40	
22	05:55	06:41	07:30	08:19	08:45-08:56/11	08:12	08:45-09:03/18	08:47	09:26-09:28/2
	21:48	20:54	19:46	18:40		16:50		16:40	
23	05:56	06:43	07:32	08:21	08:47-08:55/8	08:14	08:46-09:03/17	08:47	09:26-09:28/2
	21:46	20:52	19:43	18:38		16:49		16:41	
24	05:58	06:44	07:33	08:22	08:49-08:54/5	08:15	08:47-09:04/17	08:48	09:26-09:28/2
	21:45	20:50	19:41	18:36		16:48		16:41	
25	05:59	06:46	07:35	07:24	07:51-07:56/5	08:17	08:48-09:04/16	08:48	09:28-09:29/1
	21:44	20:48	19:39	17:34		16:47		16:42	
26	06:00	06:48	07:36	07:26	07:53-07:56/3	08:18	08:49-09:02/13	08:49	
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28	07:54-07:55/1	08:20	08:51-09:02/11	08:49	
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:39	07:29		08:21	08:53-09:02/9	08:49	
	21:39	20:42	19:32	17:28		16:44		16:44	
29	06:05	06:52	07:41	07:31		08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:43		16:45	
30	06:06	06:54	07:43	07:33		08:24		08:49	
	21:36	20:37	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35				08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	171		356		13	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: MVZ_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 08:50-08:56/6	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:55/7	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:55/9	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:46-08:55/9	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:47-08:53/6	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45 08:16-08:23/7	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:25/10	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:26/9	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50 08:19-08:26/7	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:21-08:27/6	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:23-08:27/4	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:24-08:26/2	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:27/1	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:38-08:45/7	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:37-08:47/10	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02 08:37-08:48/11	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04 08:36-08:49/13	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41 09:09-09:13/4	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06 08:35-08:49/14	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 09:08-09:14/6	07:52	06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:50/13	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:06-09:14/8	07:50	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09 08:39-08:50/11	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:14/9	07:48	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:50/9	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:40
22	08:37 09:04-09:15/11	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:51/8	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:03-09:16/13	07:44	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:50/6	08:47
	17:19	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:01-09:15/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15 08:46-08:50/4	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:02-09:15/13	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:04-09:15/11	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:04-09:14/10	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:06-09:13/7	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:21	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 08:54-08:55/1		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 08:51-08:55/4		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	115	37	0	0	0	0	0	0	0	0	154	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: MVZ_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 16:48	08:24 08:50-08:57/7 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:36 21:50	05:34 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 08:04-08:10/6 17:21	08:26 16:42
2	08:49 16:49	08:22 08:48-08:57/9 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51	05:34 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 08:06-08:11/5 17:19	08:27 16:41
3	08:49 16:50	08:21 08:46-08:56/10 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52	05:35 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:07-08:10/3 17:17	08:29 16:41
4	08:49 16:51	08:19 08:46-08:56/10 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53	05:36 22:03	06:13 21:28	07:02 20:26	07:49 19:19	07:42 08:09-08:10/1 17:16	08:30 16:40
5	08:49 16:53	08:18 08:47-08:55/8 17:42	07:23 18:32	07:14 20:23	06:13 21:12	05:34 21:54	05:37 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 08:18-08:23/5 17:14	08:31 16:40
6	08:48 16:54	08:16 08:49-08:53/4 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 21:55	05:37 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 08:17-08:25/8 17:12	08:32 16:39
7	08:48 16:55	08:14 08:39-08:40/1 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:56	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 08:16-08:26/10 17:11	08:34 16:39
8	08:48 16:56	08:13 08:38-08:41/3 17:47	07:17 18:37	07:08 20:28	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 08:17-08:27/10 17:09	08:35 16:39
9	08:47 16:58	08:11 08:36-08:41/5 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58	05:40 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 08:19-08:28/9 17:07	08:36 16:39
10	08:47 16:59	08:09 08:34-08:40/6 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59	05:41 21:59	06:23 21:18	07:11 20:13	07:59 19:05	07:52 08:21-08:28/7 17:06	08:37 16:38
11	08:46 17:00	08:07 08:32-08:39/7 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 08:22-08:27/5 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:23	05:30 22:00	05:43 21:58	06:26 21:14	07:14 20:08	08:02 19:01	07:55 08:24-08:27/3 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01	05:44 21:57	06:27 21:12	07:16 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:26	05:30 22:01	05:45 21:56	06:29 21:10	07:17 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:43 17:06	08:00 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02	05:46 21:55	06:30 21:08	07:19 20:02	08:07 18:55	08:01 16:59	08:42 16:38
16	08:43 17:08	07:58 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02	05:48 21:54	06:32 21:07	07:21 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03	05:49 21:53	06:33 21:05	07:22 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:54 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:29 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 16:55	08:44 16:39
19	08:40 17:12	07:52 18:07	06:52 18:55	06:44 20:46	05:51 21:34	05:30 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:50 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04	05:52 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:16	07:48 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:56	07:28 19:48	08:17 18:42	08:11 16:51	08:46 16:40
22	08:37 17:17	07:46 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04	05:55 21:48	06:41 20:54	07:30 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:04	05:56 21:46	06:43 20:52	07:32 19:43	08:21 18:38	08:14 16:49	08:47 16:41
24	08:35 17:21	07:42 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05	05:58 21:45	06:44 20:50	07:33 19:41	08:22 18:36	08:15 16:48	08:48 16:41
25	08:33 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:00 21:42	06:48 20:46	07:36 19:37	07:26 17:32	08:18 16:46	08:48 16:43
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 21:44	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:29 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:39	06:51 20:42	07:39 19:32	07:29 17:28	08:21 16:44	08:49 16:44
29	08:28 08:54-08:55/1 17:29		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04	06:05 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 08:53-08:56/3 17:31		07:28 20:14	06:22 21:04	05:38 21:48	05:33 22:04	06:06 21:36	06:54 20:37	07:43 19:28	07:33 08:04-08:06/2 17:25	08:24 16:43	08:49 16:46
31	08:25 08:51-08:56/5 17:33		07:25 20:15		05:37 21:49		06:08 21:35	06:55 20:35		07:35 08:02-08:09/7 17:23		08:49 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	9	70	0	0	0	0	0	0	0	9	72	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:49 09:20-09:26/6	08:24 08:50-08:54/4	07:32 07:55-08:17/22	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:27/7	08:22 08:48-08:52/4	07:30 07:53-08:18/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:27/7	08:21	07:28 07:51-07:52/1	07:19	06:16	05:35
	16:50	17:38	18:28 07:53-08:19/26	20:20	21:09	21:53
4	08:49 09:19-09:26/7	08:19	07:26 07:49-08:19/30	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:20-09:26/6	08:18	07:24 07:46-08:18/32	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:20-09:25/5	08:16	07:21 07:44-08:18/34	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:23-09:24/1	08:14	07:19 07:42-08:18/36	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13	07:17 07:40-08:18/38	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15 07:38-08:17/39	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13 07:37-08:15/38	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08	07:10 07:38-08:14/36	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08 07:39-07:52/13	06:59	06:01	05:30
	17:02	17:54	18:44 07:54-08:13/19	20:35	21:24	22:00
13	08:45	08:04	07:06 07:40-07:50/10	06:57	05:59	05:30
	17:03	17:56	18:45 07:56-08:10/14	20:37	21:25	22:01
14	08:44	08:02	07:04 07:58-08:06/8	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:23/3	06:57	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:22/4	06:55	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40	07:53 08:16-08:21/5	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 08:16-08:19/3	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:15/15	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:16/19	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	44	75	421	0	0	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:18-08:30/12	07:36	08:26
	22:04	21:33	20:33	19:25 08:33-08:51/18	17:21	16:42
2	05:34	06:11	06:59	07:46 08:17-08:52/35	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:15-08:53/38	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:15-08:54/39	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:54/38	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05	07:52 08:17-08:54/37	07:45	08:33 09:06-09:11/5
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:54/35	07:47	08:34 09:07-09:13/6
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:54/33	07:49	08:35 09:07-09:14/7
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:53/31	07:50 08:19-08:23/4	08:36 09:08-09:15/7
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:24-08:53/29	07:52 08:21-08:25/4	08:37 09:09-09:16/7
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:27-08:52/25	07:54 08:23-08:26/3	08:38 09:10-09:16/6
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 08:27-08:51/24	07:56 08:24-08:26/2	08:39 09:11-09:17/6
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:29-08:50/21	07:57	08:40 09:12-09:18/6
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 08:31-08:49/18	07:59	08:41 09:13-09:18/5
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07 08:33-08:47/14	08:01	08:42 09:14-09:19/5
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21	08:09 08:34-08:43/9	08:02	08:43 09:15-09:20/5
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04	08:44 09:16-09:20/4
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 08:38-08:39/1	08:06	08:44 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:21/4
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09	08:46 09:18-09:22/4
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17	08:11	08:46 09:18-09:22/4
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:45-08:50/5	08:12	08:47 09:19-09:23/4
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:47-08:52/5	08:14	08:47 09:19-09:23/4
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 08:49-08:53/4	08:15	08:48 09:19-09:23/4
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 07:51-07:54/3	08:17	08:48 09:20-09:24/4
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:54/1	08:19	08:49 09:20-09:24/4
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:25/5
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:29	08:22	08:49 09:20-09:25/5
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:41-08:45/4	07:31	08:23	08:49 09:20-09:25/5
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43 08:20-08:28/8	07:33	08:24	08:49 09:20-09:25/5
	21:37	20:38	19:28 08:35-08:48/13	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:20-09:26/6
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	25	477	13	131

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: NES_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50 16:48	08:24 16:55-17:06/11 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:37 21:51	05:34 22:04	06:09 21:34	06:57 20:33	07:45 19:26	07:37 17:21	08:26 15:57-16:09/12 16:42
2	08:50 16:49	08:23 16:55-17:07/12 17:37	07:30 18:27	07:21 20:19	06:18 21:08	05:36 21:52	05:35 22:04	06:11 21:32	06:59 20:31	07:46 19:23	07:38 17:19	08:27 15:58-16:09/11 16:42
3	08:49 16:50	08:21 16:55-17:09/14 17:38	07:28 18:28	07:19 20:20	06:17 21:10	05:35 21:53	05:35 22:04	06:12 21:30	07:00 20:29	07:48 19:21	07:40 17:18	08:29 15:58-16:08/10 16:41
4	08:49 16:16-16:18/2 16:52	08:19 16:56-17:11/15 17:40	07:26 18:30	07:17 20:22	06:15 21:11	05:34 21:54	05:36 22:03	06:14 21:29	07:02 20:27	07:49 19:19	07:42 16:30-16:33/3 17:16 16:39-16:45/6	08:30 16:00-16:08/8 16:41
5	08:49 16:16-16:19/3 16:53	08:18 16:57-17:07/10 17:42 17:08-17:13/5	07:24 18:32	07:14 20:24	06:13 21:13	05:34 21:55	05:37 22:03	06:15 21:27	07:04 20:24	07:51 19:17	07:44 16:27-16:36/9 17:14 16:38-16:44/6	08:31 16:00-16:07/7 16:40
6	08:49 16:15-16:20/5 16:54	08:16 16:58-17:06/8 17:44 17:09-17:15/6	07:22 18:34	07:12 20:25	06:11 21:14	05:33 21:56	05:38 22:02	06:17 21:25	07:05 20:22	07:53 19:14	07:45 16:26-16:37/11 17:12 16:38-16:43/5	08:33 16:01-16:06/5 16:40
7	08:48 16:15-16:22/7 16:55	08:15 17:10-17:15/5 17:46	07:19 18:35	07:10 20:27	06:10 21:16	05:33 21:56	05:39 22:02	06:18 21:24	07:07 20:20	07:54 19:12	07:47 16:26-16:41/15 17:11	08:34 16:03-16:06/3 16:39
8	08:48 16:15-16:23/8 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 16:25-16:39/14 17:09	08:35 16:04-16:06/2 16:39
9	08:47 16:15-16:25/10 16:58	08:11 17:49	07:15 18:39	07:06 20:30	06:06 21:19	05:32 21:58	05:40 22:00	06:21 21:20	07:10 20:16	07:58 19:08	07:50 16:25-16:38/13 17:08	08:36 16:39
10	08:47 16:15-16:26/11 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 21:59	05:41 22:00	06:23 21:18	07:11 20:13	07:59 19:06	07:52 16:26-16:36/10 17:06	08:37 16:39
11	08:46 16:14-16:27/13 17:01	08:08 17:53	07:11 18:42	07:01 20:34	06:03 21:22	05:31 22:00	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 16:25-16:34/9 17:05	08:38 16:38
12	08:46 16:14-16:29/15 17:02	08:06 17:55	07:08 18:44	06:59 20:35	06:01 21:24	05:31 22:00	05:43 21:58	06:26 21:14	07:14 20:09	08:02 19:01	07:56 16:26-16:32/6 17:03	08:39 16:38
13	08:45 16:15-16:31/16 17:03	08:04 17:56	07:06 18:45	06:57 20:37	06:00 21:25	05:30 22:01	05:44 21:57	06:27 21:13	07:16 20:06	08:04 18:59	07:57 16:27-16:31/4 17:02	08:40 16:38
14	08:44 16:15-16:32/17 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:27	05:30 22:02	05:46 21:56	06:29 21:11	07:18 20:04	08:06 18:57	07:59 16:28-16:29/1 17:00	08:41 16:38
15	08:44 16:15-16:34/19 17:06	08:00 18:00	07:02 18:49	06:53 20:40	05:57 21:28	05:30 22:02	05:47 21:55	06:31 21:09	07:19 20:02	08:07 18:55	08:01 16:59	08:42 16:38
16	08:43 16:16-16:32/16 17:08 16:33-16:36/3	07:58 18:02	06:59 18:51	06:50 20:42	05:55 21:30	05:30 22:03	05:48 21:55	06:32 21:07	07:21 20:00	08:09 18:53	08:02 16:57	08:43 16:38
17	08:42 16:16-16:33/17 17:09 16:34-16:37/3	07:57 18:04	06:57 18:52	06:48 20:43	05:54 21:31	05:30 22:03	05:49 21:54	06:34 21:05	07:22 19:57	08:11 18:51	08:04 16:56	08:44 16:39
18	08:41 16:17-16:33/16 17:11	07:55 18:05	06:55 18:54	06:46 20:45	05:52 21:33	05:30 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 15:57-16:04/7 16:55	08:45 16:39
19	08:40 16:17-16:33/16 17:13	07:53 18:07	06:53 18:56	06:44 20:47	05:51 21:34	05:30 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 15:55-16:06/11 16:54	08:45 16:39
20	08:39 16:18-16:33/15 17:14	07:51 18:09	06:50 18:57	06:42 20:48	05:50 21:35	05:30 22:04	05:53 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 15:55-16:07/12 16:52	08:46 16:40
21	08:38 16:18-16:32/14 17:16	07:49 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:57	07:29 19:48	08:18 18:42	08:11 15:54-16:08/14 16:51	08:47 16:40
22	08:37 16:20-16:32/12 17:18	07:47 18:13	06:46 19:01	06:38 20:52	05:47 21:38	05:30 22:05	05:55 21:48	06:42 20:55	07:30 19:46	08:19 18:40	08:12 15:54-16:09/15 16:50	08:47 16:40
23	08:36 16:21-16:32/11 17:19	07:45 18:14	06:44 19:02	06:36 20:53	05:46 21:40	05:30 22:05	05:57 21:47	06:43 20:53	07:32 19:44	08:21 18:38	08:14 15:53-16:09/16 16:49	08:48 16:41
24	08:35 16:23-16:30/7 17:21	07:43 18:16	06:41 19:04	06:34 20:55	05:45 21:41	05:31 22:05	05:58 21:45	06:45 20:50	07:33 19:41	08:23 18:36	08:16 15:54-16:10/16 16:48	08:48 16:42
25	08:34 17:23	07:41 18:18	06:39 19:06	06:32 20:57	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 15:54-16:11/17 16:47 16:12-16:15/3	08:48 16:42
26	08:32 17:24	07:39 18:20	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:01 21:43	06:48 20:46	07:37 19:37	07:26 17:32	08:19 15:54-16:10/16 16:46 16:11-16:14/3	08:49 16:43
27	08:31 17:26	07:36 18:21	06:35 19:09	06:28 21:00	05:41 21:45	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:35	07:28 17:30	08:20 15:55-16:13/18 16:45	08:49 16:44
28	08:30 16:56-16:58/2 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:40	06:51 20:42	07:40 19:32	07:30 17:29	08:22 15:55-16:12/17 16:44	08:49 16:44
29	08:28 16:55-16:59/4 17:30		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:05	06:05 21:38	06:53 20:40	07:41 19:30	07:31 17:27	08:23 15:55-16:11/16 16:44	08:49 16:45
30	08:27 16:55-17:02/7 17:31		07:28 20:14	06:22 21:05	05:38 21:48	05:33 22:04	06:06 21:37	06:54 20:38	07:43 19:28	07:33 17:25	08:25 15:56-16:11/15 16:43	08:49 16:46
31	08:26 16:54-17:03/9 17:33		07:26 20:15		05:37 21:49		06:08 21:35	06:56 20:35		07:35 17:23		08:50 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	278	86	0	0	0	0	0	0	0	0	308	58

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January		February		March		April	May	June
1	08:49		08:24	08:50-08:57/7	07:32		07:23	06:20	05:36
	16:48		17:35	09:06-09:28/22	18:25		20:17	21:06	21:50
2	08:49		08:22	08:48-08:56/8	07:30		07:21	06:18	05:36
	16:49		17:36	09:07-09:27/20	18:26		20:19	21:08	21:51
3	08:49		08:21	08:46-08:55/9	07:28		07:19	06:16	05:35
	16:50		17:38	09:08-09:26/18	18:28		20:20	21:09	21:52
4	08:49		08:19	08:45-08:55/10	07:26		07:16	06:15	05:34
	16:51		17:40	09:10-09:25/15	18:30		20:22	21:11	21:53
5	08:49		08:18	08:43-08:55/12	07:24		07:14	06:13	05:34
	16:53		17:42	09:13-09:22/9	18:32		20:24	21:13	21:54
6	08:49		08:16	08:41-08:56/15	07:21		07:12	06:11	05:33
	16:54		17:44		18:33		20:25	21:14	21:55
7	08:48		08:14	08:39-08:56/17	07:19	07:42-07:43/1	07:10	06:09	05:32
	16:55		17:45		18:35		20:27	21:16	21:56
8	08:48		08:13	08:38-08:56/18	07:17	07:40-07:41/1	07:08	06:08	05:32
	16:56		17:47		18:37		20:28	21:17	21:57
9	08:47	09:17-09:18/1	08:11	08:36-08:56/20	07:15		07:05	06:06	05:31
	16:58		17:49		18:38		20:30	21:19	21:58
10	08:47	09:16-09:18/2	08:09	08:34-08:55/21	07:13		07:03	06:04	05:31
	16:59		17:51		18:40		20:32	21:20	21:59
11	08:46	09:15-09:18/3	08:07	08:37-08:55/18	07:10		07:01	06:03	05:31
	17:00		17:53		18:42		20:33	21:22	21:59
12	08:46	09:14-09:19/5	08:06	08:38-08:54/16	07:08		06:59	06:01	05:30
	17:02		17:54		18:44		20:35	21:23	22:00
13	08:45	09:14-09:19/5	08:04	08:39-08:52/13	07:06		06:57	05:59	05:30
	17:03		17:56		18:45		20:37	21:25	22:01
14	08:44	09:13-09:21/8	08:02	08:42-08:50/8	07:04		06:55	05:58	05:30
	17:05		17:58		18:47		20:38	21:27	22:01
15	08:44	09:12-09:22/10	08:00		07:01		06:52	05:56	05:30
	17:06		18:00		18:49		20:40	21:28	22:02
16	08:43	09:11-09:23/12	07:58	08:22-08:23/1	06:59		06:50	05:55	05:30
	17:08		18:02		18:50		20:42	21:29	22:02
17	08:42	09:10-09:24/14	07:56	08:20-08:22/2	06:57		06:48	05:53	05:30
	17:09		18:03		18:52		20:43	21:31	22:03
18	08:41	09:09-09:25/16	07:54	08:18-08:19/1	06:55		06:46	05:52	05:30
	17:11		18:05		18:54		20:45	21:32	22:03
19	08:40	09:08-09:26/18	07:53		06:53		06:44	05:51	05:30
	17:12		18:07		18:55		20:47	21:34	22:04
20	08:39	09:06-09:26/20	07:51		06:50		06:42	05:49	05:30
	17:14		18:09		18:57		20:48	21:35	22:04
21	08:38	09:05-09:27/22	07:49		06:48		06:40	05:48	05:30
	17:16		18:11		18:59		20:50	21:37	22:04
22	08:37	09:04-09:28/24	07:47		06:46		06:38	05:47	05:30
	17:17		18:12		19:00		20:51	21:38	22:04
23	08:36	09:03-09:28/25	07:45		06:43		06:36	05:46	05:30
	17:19		18:14		19:02		20:53	21:39	22:05
24	08:35	09:02-09:28/26	07:42		06:41		06:34	05:44	05:30
	17:21		18:16		19:04		20:55	21:41	22:05
25	08:33	09:02-09:29/27	07:40		06:39		06:32	05:43	05:31
	17:22		18:18		19:05		20:56	21:42	22:05
26	08:32	09:03-09:29/26	07:38		06:37		06:30	05:42	05:31
	17:24		18:19		19:07		20:58	21:43	22:05
27	08:31	09:03-09:29/26	07:36		06:34		06:28	05:41	05:32
	17:26		18:21		19:09		21:00	21:45	22:05
28	08:30	08:56-08:57/1	07:34		06:32		06:26	05:40	05:32
	17:28	09:03-09:30/27	18:23		19:10		21:01	21:46	22:05
29	08:28	08:54-08:57/3			07:30		06:24	05:39	05:33
	17:29	09:03-09:29/26			20:12		21:03	21:47	22:04
30	08:27	08:53-08:58/5			07:28		06:22	05:38	05:33
	17:31	09:05-09:29/24			20:14		21:05	21:48	22:04
31	08:25	08:51-08:57/6			07:25			05:37	
	17:33	09:05-09:28/23			20:15			21:49	
Potential sun hours	262		279		367		414	482	494
Sum of minutes with flicker	405		280		2		0	0	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36	08:04-08:25/21	08:26	08:57-09:00/3
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:11	06:59	07:46		07:38	08:06-08:26/20	08:27	08:59-09:01/2
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:07-08:25/18	08:29	09:00-09:01/1
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:25/16	08:30	
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:25/14	08:31	
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52	08:17-08:18/1	07:45	08:13-08:25/12	08:32	
	22:02	21:25	20:22	19:14		17:12	08:42-08:52/10	16:39	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:25/10	08:34	
	22:01	21:23	20:20	19:12		17:11	08:40-08:55/15	16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:26/9	08:35	
	22:01	21:22	20:18	19:10		17:09	08:39-08:57/18	16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:27/8	08:36	
	22:00	21:20	20:15	19:08		17:07	08:38-08:58/20	16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:28/7	08:37	
	22:00	21:18	20:13	19:05		17:06	08:37-08:59/22	16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:29/6	08:38	
	21:59	21:16	20:11	19:03		17:04	08:36-08:59/23	16:38	
12	05:43	06:26	07:14	08:02		07:55	08:24-08:29/5	08:39	
	21:58	21:14	20:09	19:01		17:03	08:35-09:00/25	16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:29/3	08:40	
	21:57	21:12	20:06	18:59		17:01	08:35-09:01/26	16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:29/1	08:41	
	21:56	21:10	20:04	18:57		17:00	08:35-09:01/26	16:38	
15	05:46	06:30	07:19	08:07		08:01	08:36-09:02/26	08:42	
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09		08:02	08:36-09:02/26	08:43	
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-09:03/27	08:44	
	21:53	21:05	19:57	18:50		16:56		16:38	
18	05:50	06:35	07:24	08:12		08:06	08:36-09:02/26	08:44	
	21:52	21:03	19:55	18:48		16:55		16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-09:02/25	08:45	
	21:51	21:01	19:53	18:46		16:53		16:39	
20	05:52	06:38	07:27	08:16		08:09	08:39-09:03/24	08:46	
	21:50	20:59	19:50	18:44		16:52		16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-09:03/22	08:46	
	21:49	20:57	19:48	18:42		16:51		16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-09:03/20	08:47	
	21:48	20:54	19:46	18:40		16:50		16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-09:02/18	08:47	
	21:46	20:52	19:43	18:38		16:49		16:41	
24	05:58	06:44	07:33	08:23	08:49-08:51/2	08:15	08:46-09:02/16	08:48	
	21:45	20:50	19:41	18:36		16:48		16:41	
25	05:59	06:46	07:35	07:24	07:51-07:53/2	08:17	08:48-09:02/14	08:48	
	21:44	20:48	19:39	17:34		16:47		16:42	
26	06:00	06:48	07:36	07:26	07:53-07:54/1	08:19	08:49-09:01/12	08:49	
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28		08:20	08:51-09:01/10	08:49	
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:40	07:29	08:11-08:20/9	08:22	08:53-09:01/8	08:49	
	21:40	20:42	19:32	17:28		16:44		16:44	
29	06:05	06:52	07:41	07:31	08:09-08:22/13	08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:44		16:45	
30	06:06	06:54	07:43	07:33	08:08-08:23/15	08:24	08:56-09:00/4	08:49	
	21:37	20:38	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35	08:07-08:24/17			08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	60		619		6	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:31-09:50/19	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26 08:57-08:58/1
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42 09:23-09:30/7
2	08:49 09:32-09:51/19	08:22	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27 09:22-09:32/10
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49 09:31-09:50/19	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40 08:08-08:09/1	08:29 09:21-09:33/12
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49 09:33-09:51/18	08:19	07:26	07:16	06:15	05:34	05:36	06:14	07:02	07:49	07:42 08:09-08:10/1	08:30 09:21-09:35/14
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49 09:34-09:51/17	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31 09:21-09:36/15
	16:53	17:42	18:32	20:24	21:13	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:49 09:34-09:50/16	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:52	07:45	08:32 09:20-09:36/16
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48 09:35-09:51/16	08:14 08:39-08:40/1	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34 09:20-09:37/17
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:36-09:50/14	08:13 08:38-08:39/1	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35 09:21-09:39/18
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:38-09:50/12	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36 09:21-09:39/18
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47 09:39-09:49/10	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:21-09:40/19
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46 09:15-09:16/1	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:21-09:40/19
	17:00 09:41-09:48/7	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:14-09:17/3	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55	08:39 09:21-09:41/20
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 09:14-09:18/4	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:30/4	08:40 09:21-09:41/20
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:13-09:19/6	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:28-08:32/4	08:41 09:22-09:42/20
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44 09:12-09:20/8	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:30-08:33/3	08:42 09:22-09:43/21
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59 08:44-08:50/6	16:38
16	08:43 09:11-09:20/9	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:35-08:36/1	08:02 08:32-08:34/2	08:43 09:23-09:44/21
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57 08:42-08:52/10	16:38 09:17-09:19/2
17	08:42 09:10-09:21/11	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04 08:42-08:54/12	08:44 09:23-09:44/21
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39 09:17-09:20/3
18	08:41 09:09-09:21/12	07:54	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 08:40-08:54/14	08:44 09:23-09:44/21
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39 09:16-09:21/5
19	08:40 09:08-09:22/14	07:52	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:40-08:56/16	08:45 09:24-09:45/21
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39 09:17-09:22/5
20	08:39 09:07-09:22/15	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09 08:40-08:56/16	08:46 09:25-09:46/21
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39 09:18-09:23/5
21	08:38 09:05-09:21/16	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:57/16	08:46 09:24-09:46/22
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40 09:18-09:23/5
22	08:37 09:05-09:21/16	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:58/15	08:47 09:25-09:47/22
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40 09:19-09:24/5
23	08:36 09:06-09:22/16	07:45	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:58/14	08:47 09:26-09:47/21
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41 09:19-09:24/5
24	08:35 09:06-09:20/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:15 08:46-08:58/12	08:48 09:26-09:47/21
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41 09:19-09:24/5
25	08:33 09:08-09:20/12	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:59/11	08:48 09:27-09:48/21
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42 09:20-09:25/5
26	08:32 08:59-09:01/2	07:38 08:02-08:03/1	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18 08:49-08:58/9	08:49 09:27-09:48/21
	17:24 09:09-09:19/10	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43 09:20-09:25/5
27	08:31 08:57-09:00/3	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 08:51-08:59/8	08:49 09:27-09:48/21
	17:26 09:11-09:17/6	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43 09:21-09:24/3
28	08:30 08:56-09:00/4	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22 08:53-08:59/6	08:49 09:28-09:49/21
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44 09:23-09:24/1
29	08:28 08:54-08:58/4		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 08:54-08:59/5	08:49 09:28-09:49/21
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 08:56-08:59/3	08:49 09:29-09:49/20
	17:31		20:14	21:04	21:48	22:04	21:37	20:37	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:55		07:35		08:49 09:30-09:50/20
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	353	3	0	0	0	0	0	0	0	1	188	637

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:49 09:20-09:48/28	08:24	07:32 07:55-07:59/4	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:49/29	08:22	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:49/29	08:21 08:46-08:47/1	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49 09:19-09:50/31	08:19 08:45-08:48/3	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49 09:19-09:50/31	08:18 08:43-08:47/4	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:18-09:50/32	08:16 08:41-08:46/5	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:51/33	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:51/34	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:17-09:52/35	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:17-09:51/34	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:18-09:51/33	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:20-09:51/31	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 09:21-09:28/7	08:04	07:06	06:57	05:59	05:30
	17:03 09:30-09:52/22	17:56	18:45	20:37	21:25	22:01
14	08:44 09:23-09:27/4	08:02	07:04	06:55	05:58	05:30
	17:05 09:31-09:52/21	17:58	18:47	20:38	21:27	22:01
15	08:44 09:31-09:51/20	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:32-09:51/19	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:54	05:30
	17:09 09:34-09:50/16	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:12/3	07:54	06:55	06:46	05:52	05:30
	17:11 09:35-09:49/14	18:05	18:54	20:45	21:32	22:03
19	08:40 09:08-09:13/5	07:53	06:53	06:44	05:51	05:30
	17:12 09:37-09:48/11	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:13/6	07:51	06:50	06:42	05:49	05:30
	17:14 09:40-09:46/6	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:12/7	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:04-09:12/8	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:12/9	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:02-09:12/10	07:43	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:02-09:10/8	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 09:06-09:08/2	07:38 08:02-08:04/2	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:03/3	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:01/4	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	580	27	4	0	0	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	09:00-09:33/33
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	09:00-09:34/34
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40		08:29	09:00-09:35/35
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:14/5	08:30	09:02-09:36/34
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:16/5	08:31	09:03-09:36/33
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52		07:45	08:13-08:17/4	08:33	09:04-09:36/32
	22:02	21:25	20:22	19:14		17:12		16:40	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:18/3	08:34	09:06-09:37/31
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:18/1	08:35	09:07-09:38/31
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	09:08-09:38/30
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52		08:37	09:09-09:38/29
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54		08:38	09:10-09:39/29
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:56		08:39	09:11-09:39/28
	21:58	21:14	20:09	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04	08:29-08:33/4	07:57		08:40	09:12-09:39/27
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06	08:31-08:35/4	07:59		08:41	09:13-09:40/27
	21:56	21:11	20:04	18:57		17:00		16:38	
15	05:47	06:30	07:19	08:07	08:33-08:36/3	08:01		08:42	09:14-09:40/26
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09	08:35-08:36/1	08:02	08:38-08:42/4	08:43	09:15-09:41/26
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-08:44/8	08:44	09:16-09:42/26
	21:53	21:05	19:57	18:50		16:56		16:39	
18	05:50	06:35	07:24	08:12		08:06	08:36-08:46/10	08:44	09:16-09:41/25
	21:52	21:03	19:55	18:48		16:55		16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-08:46/9	08:45	09:17-09:42/25
	21:51	21:01	19:53	18:46		16:53		16:39	
20	05:53	06:38	07:27	08:16		08:09	08:39-08:47/8	08:46	09:18-09:43/25
	21:50	20:59	19:50	18:44		16:52		16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-08:48/7	08:46	09:18-09:43/25
	21:49	20:57	19:48	18:42		16:51		16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-08:49/6	08:47	09:19-09:44/25
	21:48	20:55	19:46	18:40		16:50	09:16-09:22/6	16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-08:49/5	08:47	09:19-09:44/25
	21:46	20:52	19:44	18:38		16:49	09:13-09:24/11	16:41	
24	05:58	06:45	07:33	08:23		08:15	08:46-08:49/3	08:48	09:19-09:44/25
	21:45	20:50	19:41	18:36		16:48	09:12-09:26/14	16:41	
25	05:59	06:46	07:35	07:24		08:17	08:48-08:50/2	08:48	09:20-09:45/25
	21:44	20:48	19:39	17:34		16:47	09:12-09:28/16	16:42	
26	06:01	06:48	07:36	07:26		08:19	09:11-09:29/18	08:49	09:20-09:46/26
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28		08:20	09:11-09:30/19	08:49	09:20-09:46/26
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:40	07:29		08:22	09:04-09:06/2	08:49	09:20-09:46/26
	21:40	20:42	19:32	17:28		16:44	09:11-09:32/21	16:44	
29	06:05	06:52	07:41	07:31		08:23	09:01-09:08/7	08:49	09:20-09:47/27
	21:38	20:40	19:30	17:26		16:44	09:10-09:32/22	16:45	
30	06:06	06:54	07:43	07:33		08:24	09:01-09:33/32	08:49	09:20-09:47/27
	21:37	20:38	19:28	17:25		16:43		16:46	
31	06:08	06:56		07:35				08:49	09:20-09:48/28
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	12		248		871	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT01 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14 07:37-07:38/1	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06 07:32-07:33/1	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57 07:19-07:21/2	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:22/5	05:58	05:30	05:45	06:29 06:59-07:05/6	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52 07:15-07:22/7	05:56	05:29	05:46	06:30 06:57-07:06/9	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:21/8	05:55	05:29	05:47	06:32 06:59-07:07/8	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:12-07:20/8	05:53	05:29	05:48	06:33 07:00-07:07/7	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46 07:13-07:18/5	05:52	05:29	05:50	06:35 07:02-07:07/5	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51 06:20-06:22/2	06:36 07:03-07:06/3	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52 06:21-06:23/2	06:38 07:05-07:06/1	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48 06:14-06:15/1	05:29	05:53 06:23-06:25/2	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:47 06:13-06:15/2	05:30	05:55 06:24-06:26/2	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36 06:59-07:01/2	05:45 06:12-06:14/2	05:30	05:56 06:25-06:26/1	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:34 06:57-07:00/3	05:44 06:11-06:13/2	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32 06:55-07:00/5	05:43	05:30	05:59	06:46 07:16-07:21/5	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30 06:53-07:00/7	05:42	05:31	06:00	06:47 07:14-07:23/9	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28 06:51-06:59/8	05:41	05:31	06:02	06:49 07:15-07:23/8	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26 06:49-06:58/9	05:40	05:32	06:03	06:51 07:17-07:23/6	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:51-06:57/6	05:39	05:32	06:04	06:52 07:18-07:23/5	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54 07:20-07:22/2	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	76	7	0	9	74	1	0	0	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:49	08:24 08:58-09:13/15	07:32	07:23 07:45-07:53/8	06:20 06:44-06:47/3	05:36
	16:48	17:35	18:25	20:17	21:06 06:53-07:23/30	21:50
2	08:49	08:22 08:59-09:12/13	07:30	07:21 07:43-07:55/12	06:18 06:42-06:46/4	05:35
	16:49	17:36	18:26	20:19	21:08 06:53-07:22/29	21:51
3	08:49	08:21 09:01-09:10/9	07:28	07:19 07:41-07:55/14	06:16 06:41-06:46/5	05:35
	16:50	17:38	18:28	20:20	21:09 06:53-07:22/29	21:52
4	08:49	08:19 09:04-09:08/4	07:26	07:16 07:39-07:56/17	06:14 06:39-06:44/5	05:34
	16:51	17:40 08:45-08:46/1	18:30	20:22	21:11 06:53-07:22/29	21:53
5	08:49	08:18 08:43-08:46/3	07:23	07:14 07:37-07:56/19	06:13 06:53-07:21/28	05:33
	16:52	17:42	18:32	20:23	21:13	21:54
6	08:49	08:16 08:41-08:46/5	07:21	07:12 07:35-07:55/20	06:11 06:53-07:20/27	05:33
	16:54	17:43	18:33	20:25	21:14	21:55
7	08:48 09:18-09:19/1	08:14 08:39-08:47/8	07:19	07:10 07:35-07:55/20	06:09 06:54-07:20/26	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13 08:38-08:48/10	07:17	07:08 07:35-07:54/19	06:07 06:32-06:33/1	05:32
	16:56	17:47	18:37	20:28	21:17 06:55-07:19/24	21:57
9	08:47 09:17-09:21/4	08:11 08:36-08:48/12	07:15 07:38-07:39/1	07:05 07:28-07:29/1	06:06 06:31-06:34/3	05:31
	16:57	17:49	18:38	20:30 07:35-07:53/18	21:19 06:56-07:18/22	21:58
10	08:47 09:16-09:21/5	08:09 08:34-08:48/14	07:13 07:35-07:39/4	07:03 07:36-07:52/16	06:04 06:29-06:34/5	05:31
	16:59	17:51	18:40	20:32	21:20 06:57-07:17/20	21:59
11	08:46 09:15-09:22/7	08:07 08:32-08:47/15	07:10 07:33-07:39/6	07:01 07:37-07:49/12	06:02 06:28-06:36/8	05:30
	17:00	17:53	18:42	20:33	21:22 06:58-07:16/18	21:59
12	08:46 09:15-09:23/8	08:06 08:33-08:46/13	07:08 07:31-07:38/7	06:59 07:39-07:46/7	06:01 06:26-06:36/10	05:30
	17:02	17:54	18:44	20:35	21:23 06:59-07:14/15	22:00
13	08:45 09:14-09:24/10	08:04 08:34-08:45/11	07:06 07:28-07:37/9	06:57	05:59 06:25-06:37/12	05:30
	17:03	17:56	18:45	20:37	21:25 07:02-07:12/10	22:01
14	08:44 09:13-09:24/11	08:02 08:35-08:43/8	07:04 07:26-07:34/8	06:54	05:58 06:23-06:36/13	05:30
	17:04	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:01 07:24-07:31/7	06:52	05:56 06:22-06:37/15	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:25/14	07:58	06:59 07:22-07:32/10	06:50	05:55 06:21-06:37/16	05:29
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56	06:57 07:19-07:31/12	06:48	05:53 06:19-06:36/17	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:25/16	07:54	06:55 07:17-07:31/14	06:46	05:52 06:19-06:36/17	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:25/15	07:52	06:52 07:15-07:31/16	06:44	05:51 06:19-06:36/17	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:09/2	07:50	06:50 07:16-07:30/14	06:42 07:08-07:13/5	05:49 06:20-06:36/16	05:29
	17:14 09:11-09:25/14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:09/4	07:49	06:48 07:16-07:27/11	06:40 07:04-07:17/13	05:48 06:19-06:35/16	05:30
	17:16 09:11-09:24/13	18:10	18:59	20:50	21:37	22:04
22	08:37 09:04-09:11/7	07:46	06:46 07:18-07:25/7	06:38 07:01-07:19/18	05:47 06:20-06:35/15	05:30
	17:17 09:12-09:24/12	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:12/9	07:44	06:43 07:06-07:08/2	06:36 06:59-07:20/21	05:45 06:21-06:34/13	05:30
	17:19 09:14-09:23/9	18:14	19:02	20:53	21:39	22:05
24	08:35 09:01-09:12/11	07:42	06:41 07:04-07:07/3	06:34 06:58-07:21/23	05:44 06:22-06:33/11	05:30
	17:21 09:15-09:21/6	18:16	19:04	20:55	21:41	22:05
25	08:33 09:00-09:13/13	07:40	06:39 07:01-07:05/4	06:32 06:56-07:22/26	05:43 06:23-06:32/9	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 08:59-09:14/15	07:38	06:37	06:30 06:55-07:22/27	05:42 06:25-06:30/5	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 08:57-09:14/17	07:36	06:34	06:28 06:54-07:22/28	05:41	05:31
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 08:56-09:14/18	07:34	06:32	06:26 06:54-07:22/28	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28 08:56-09:14/18		07:30	06:24 06:54-07:23/29	05:39	05:32
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:57-09:14/17		07:28 07:50-07:51/1	06:22 06:46-06:47/1	05:38	05:33
	17:31		20:14	21:04 06:54-07:23/29	21:48	22:04
31	08:25 08:57-09:13/16		07:25 07:48-07:52/4		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	322	141	140	431	543	0

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

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

Licensed user:
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34	06:09 06:37-06:46/9	06:57 07:37-07:49/12	07:44 08:09-08:17/8	07:36 08:04-08:17/13	08:26 08:57-09:04/7
	22:04	21:33 07:09-07:25/16	20:33	19:25	17:21	16:42
2	05:34	06:10 06:39-06:46/7	06:59 07:34-07:50/16	07:46 08:11-08:17/6	07:38 08:06-08:17/11	08:27 08:59-09:05/6
	22:04	21:32 07:07-07:26/19	20:31	19:23	17:19	16:41
3	05:35	06:12 06:40-06:44/4	07:00 07:26-07:27/1	07:48 08:12-08:17/5	07:40 08:07-08:16/9	08:29 09:00-09:04/4
	22:03	21:30 07:07-07:28/21	20:29 07:33-07:51/18	19:21	17:17	16:41
4	05:36	06:13 06:41-06:43/2	07:02 07:32-07:51/19	07:49 08:14-08:16/2	07:42 08:09-08:16/7	08:30 09:02-09:05/3
	22:03	21:29 07:05-07:28/23	20:26	19:19	17:16	16:40
5	05:37	06:15 07:05-07:30/25	07:03 07:32-07:52/20	07:51	07:43 08:11-08:16/5	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16 07:04-07:30/26	07:05 07:31-07:51/20	07:52	07:45 08:13-08:15/2	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18 07:04-07:31/27	07:06 07:32-07:51/19	07:54	07:47 08:34-08:38/4	08:34
	22:01	21:23	20:20	19:12	17:10 08:15-08:16/1	16:39
8	05:39	06:19 07:03-07:31/28	07:08 07:33-07:50/17	07:56	07:49 08:31-08:41/10	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21 06:49-06:54/5	07:10 07:35-07:50/15	07:57	07:50 08:30-08:43/13	08:36
	22:00	21:20 07:02-07:31/29	20:15	19:07	17:07	16:38
10	05:41	06:23 06:50-06:55/5	07:11 07:36-07:48/12	07:59	07:52 08:29-08:44/15	08:37
	22:00	21:18 07:02-07:31/29	20:13	19:05	17:06	16:38
11	05:42	06:24 06:51-06:55/4	07:13 07:38-07:47/9	08:01	07:54 08:29-08:45/16	08:38
	21:59	21:16 07:01-07:31/30	20:11	19:03	17:04	16:38
12	05:43	06:26 06:53-06:55/2	07:14 07:39-07:44/5	08:02	07:55 08:28-08:45/17	08:39
	21:58	21:14 07:02-07:31/29	20:08	19:01	17:03	16:38
13	05:44	06:27 06:54-06:55/1	07:16 07:41-07:42/1	08:04	07:57 08:28-08:46/18	08:40
	21:57	21:12 07:01-07:31/30	20:06	18:59	17:01	16:38
14	05:45	06:29 07:02-07:31/29	07:17	08:06	07:59 08:28-08:46/18	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46	06:30 07:01-07:30/29	07:19	08:07	08:01 08:30-08:46/16	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47	06:32 07:02-07:30/28	07:20	08:09	08:02 08:32-08:47/15	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:02-07:29/27	07:22	08:11	08:04 08:34-08:47/13	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:34-06:41/7	06:35 07:03-07:28/25	07:24 07:49-07:53/4	08:12	08:06 08:35-08:46/11	08:44
	21:52	21:03	19:55	18:48	16:54 08:49-08:55/6	16:39
19	05:51 06:32-06:42/10	06:37 07:04-07:26/22	07:25 07:50-07:54/4	08:14	08:07 08:37-08:46/9	08:45
	21:51	21:01	19:53	18:46	16:53 08:48-08:57/9	16:39
20	05:52 06:32-06:44/12	06:38 07:05-07:26/21	07:27 07:52-07:55/3	08:16	08:09 08:39-08:46/7	08:46
	21:50	20:59	19:50	18:44	16:52 08:47-08:59/12	16:39
21	05:54 06:31-06:45/14	06:40 07:06-07:23/17	07:28 08:05-08:10/5	08:17	08:11 08:41-08:45/4	08:46
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51 08:47-09:00/13	16:40
22	05:55 06:30-06:45/15	06:41 07:09-07:21/12	07:30 08:02-08:12/10	08:19	08:12 08:43-08:45/2	08:47
	21:48	20:54	19:46	18:40	16:50 08:47-09:01/14	16:40
23	05:56 06:30-06:46/16	06:43	07:32 08:00-08:13/13	08:21	08:14 08:46-09:01/15	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:46/17	06:44	07:33 07:59-08:14/15	08:23	08:15 08:46-09:02/16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:29-06:47/18	06:46	07:35 07:59-08:14/15	07:24	08:17 08:48-09:03/15	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:47/18	06:48	07:36 08:01-08:14/13	07:26	08:19 08:49-09:03/14	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:47/17	06:49	07:38 08:03-08:14/11	07:28 08:07-08:10/3	08:20 08:51-09:04/13	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:48/16	06:51	07:39 08:04-08:12/8	07:29 08:04-08:13/9	08:22 08:53-09:04/11	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:47/14	06:52	07:41 08:06-08:13/7	07:31 08:03-08:15/12	08:23 08:54-09:04/10	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:47/13	06:54	07:43 08:07-08:15/8	07:33 08:02-08:16/14	08:24 08:56-09:04/8	08:49
	21:37 07:14-07:20/6	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:47/11	06:55 07:39-07:47/8		07:35 08:02-08:17/15		08:49
	21:35 07:11-07:23/12	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	216	589	301	74	392	21

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

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

Licensed user:
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:49 09:26-09:43/17	08:24	07:32	07:23 07:46-07:50/4	06:20 06:44-07:03/19	05:36
	16:48	17:35	18:25	20:17 08:19-09:15/56	21:06	21:50
2	08:49 09:26-09:43/17	08:22	07:30	07:21 07:43-07:45/2	06:18 06:42-07:04/22	05:36
	16:49	17:36	18:26	20:19 08:19-09:14/55	21:08	21:51
3	08:49 09:27-09:44/17	08:21	07:28 07:52-08:03/11	07:19 08:19-09:14/55	06:16 06:41-07:05/24	05:35
	16:50 09:20-09:21/1	17:38	18:28	20:20	21:09	21:52
4	08:49 09:27-09:43/16	08:19	07:26 07:50-08:06/16	07:16 08:19-09:14/55	06:15 06:39-07:05/26	05:34
	16:51 09:19-09:21/2	17:40	18:30	20:22	21:11	21:53
5	08:49 09:28-09:44/16	08:18	07:23 07:47-08:06/19	07:14 08:19-09:13/54	06:13 06:37-07:05/28	05:33
	16:52 09:19-09:22/3	17:42	18:32	20:23	21:13	21:54
6	08:49 09:29-09:43/14	08:16	07:21 07:45-08:08/23	07:12 08:18-09:12/54	06:11 06:36-07:05/29	05:33
	16:54 09:18-09:22/4	17:44	18:33	20:25	21:14	21:55
7	08:48 09:30-09:43/13	08:14	07:19 07:44-08:09/25	07:10 08:18-09:11/53	06:09 06:34-07:06/32	05:32
	16:55 09:18-09:22/4	17:45	18:35	20:27	21:16	21:56
8	08:48 09:31-09:43/12	08:13	07:17 07:43-08:10/27	07:08 08:19-09:10/51	06:08 06:34-07:05/31	05:32
	16:56 09:17-09:22/5	17:47	18:37 07:40-07:42/2	20:28	21:17	21:57
9	08:47 09:32-09:43/11	08:11	07:15 07:38-08:09/31	07:05 08:19-09:09/50	06:06 06:35-07:06/31	05:31
	16:57 09:17-09:23/6	17:49	18:38	20:30	21:19	21:58
10	08:47 09:33-09:42/9	08:09	07:13 07:35-08:10/35	07:03 08:20-09:08/48	06:04 06:36-07:05/29	05:31
	16:59 09:16-09:23/7	17:51	18:40	20:32	21:20	21:59
11	08:46 09:35-09:40/5	08:07	07:10 07:33-08:10/37	07:01 08:19-09:06/47	06:03 06:38-07:05/27	05:31
	17:00 09:15-09:23/8	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08 07:41-08:10/29	06:59 08:20-09:05/45	06:01 06:39-07:05/26	05:30
	17:02	17:54	18:44 07:31-07:39/8	20:35	21:23	22:00
13	08:45 09:15-09:23/8	08:04	07:06 07:40-08:09/29	06:57 08:21-09:03/42	05:59 06:40-07:05/25	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:16-09:22/6	08:02 08:26-08:30/4	07:04 07:40-08:08/28	06:54 08:22-09:02/40	05:58 06:39-07:03/24	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00 08:24-08:32/8	07:01 07:41-08:08/27	06:52 08:23-09:00/37	05:56 06:40-07:03/23	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:33/11	06:59 07:41-08:07/26	06:50 08:25-08:58/33	05:55 06:41-07:03/22	05:29
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:34/14	06:57 07:39-08:05/26	06:48 08:26-08:55/29	05:53 06:41-07:01/20	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:34/16	06:55 07:36-08:08/32	06:46 08:28-08:53/25	05:52 06:43-07:00/17	05:29
	17:11	18:05	18:54 07:17-07:19/2	20:45	21:32	22:03
19	08:40	07:52 08:16-08:35/19	06:52 07:34-08:10/36	06:44 08:31-08:49/18	05:51 06:44-07:00/16	05:29
	17:12	18:07	18:55 07:15-07:19/4	20:47	21:34	22:04
20	08:39	07:51 08:14-08:35/21	06:50 07:32-08:12/40	06:42 08:37-08:43/6	05:49 06:46-06:58/12	05:30
	17:14	18:09	18:57 07:13-07:18/5	20:48	21:35	22:04
21	08:38	07:49 08:12-08:35/23	06:48 07:30-08:12/42	06:40 07:03-07:05/2	05:48 06:47-06:56/9	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47 08:10-08:35/25	06:46 07:28-08:13/45	06:38 07:01-07:05/4	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:44 08:10-08:34/24	06:43 07:27-08:14/47	06:36 06:59-07:05/6	05:45	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:42 08:12-08:33/21	06:41 07:25-08:14/49	06:34 06:57-07:05/8	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:16-08:32/16	06:39 07:24-08:15/51	06:32 06:55-07:04/9	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:17-08:31/14	06:37 07:23-08:15/52	06:30 06:53-07:03/10	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:20-08:28/8	06:34 07:23-08:16/53	06:28 06:52-07:02/10	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32 07:21-08:15/54	06:26 06:49-07:00/11	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30 07:52-07:53/1	06:24 06:48-07:01/13	05:39	05:33
	17:29		20:12 08:21-09:15/54	21:03	21:47	22:04
30	08:27		07:28 07:50-07:52/2	06:22 06:46-07:02/16	05:38	05:33
	17:31		20:14 08:20-09:16/56	21:05	21:48	22:04
31	08:25		07:25 07:48-07:52/4		05:37	
	17:33		20:15 08:20-09:16/56		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	209	224	1084	948	492	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 22:04	06:09 06:49-07:15/26 21:33	06:57 08:19-09:06/47 20:33	07:44 08:20-08:49/29 19:25 08:11-08:17/6	07:36 17:21	08:26 09:17-09:22/5 16:42 08:57-09:05/8
2	05:34 22:04	06:10 06:48-07:16/28 21:32	06:59 08:18-09:06/48 20:31	07:46 08:20-08:49/29 19:23 08:11-08:19/8	07:38 17:19	08:27 09:17-09:25/8 16:41 08:59-09:06/7
3	05:35 22:03	06:12 06:46-07:16/30 21:30	07:00 08:17-09:07/50 20:29	07:48 08:12-08:48/36 19:21	07:40 17:17	08:29 09:16-09:26/10 16:41 09:00-09:06/6
4	05:36 22:03	06:13 06:45-07:15/30 21:29	07:02 08:16-09:07/51 20:26	07:49 08:14-08:47/33 19:19	07:42 17:16	08:30 09:16-09:28/12 16:40 09:02-09:07/5
5	05:37 22:03	06:15 06:45-07:16/31 21:27	07:03 08:15-09:08/53 20:24	07:51 08:16-08:47/31 19:16	07:43 17:14	08:31 09:15-09:28/13 16:40 09:03-09:07/4
6	05:37 22:02	06:16 06:44-07:15/31 21:25	07:05 08:14-09:08/54 20:22	07:52 08:19-08:45/26 19:14 08:17-08:18/1	07:45 17:12	08:33 09:15-09:29/14 16:39 09:04-09:08/4
7	05:38 22:01	06:18 06:46-07:16/30 21:23	07:06 08:14-09:08/54 20:20	07:54 08:20-08:44/24 19:12	07:47 17:11	08:34 09:16-09:31/15 16:39 09:06-09:09/3
8	05:39 22:01	06:19 06:47-07:15/28 21:22	07:08 08:13-09:08/55 20:18	07:56 08:22-08:43/21 19:10	07:49 17:09	08:35 09:15-09:31/16 16:39 09:07-09:09/2
9	05:40 22:00	06:21 06:49-07:15/26 21:20	07:10 08:13-09:08/55 20:15	07:57 08:23-08:41/18 19:07	07:50 17:07	08:36 09:15-09:32/17 16:38 09:08-09:09/1
10	05:41 22:00	06:23 06:50-07:13/23 21:18	07:11 07:36-07:37/1 20:13 08:12-09:08/56	07:59 08:25-08:38/13 19:05	07:52 17:06	08:37 09:15-09:32/17 16:38
11	05:42 21:59	06:24 06:51-07:12/21 21:16	07:13 07:38-07:42/4 20:11 08:12-09:08/56	08:01 08:29-08:34/5 19:03	07:54 17:04	08:38 09:16-09:33/17 16:38
12	05:43 21:58	06:26 06:53-07:12/19 21:14	07:14 07:39-07:43/4 20:09 08:11-09:07/56	08:02 19:01	07:55 17:03	08:39 09:16-09:33/17 16:38
13	05:44 21:57	06:27 06:54-07:10/16 21:12	07:16 07:41-07:44/3 20:06 08:12-09:07/55	08:04 18:59	07:57 17:01	08:40 09:16-09:34/18 16:38
14	05:45 21:56	06:29 06:56-07:08/12 21:10	07:17 07:42-07:43/1 20:04 08:11-09:06/55	08:06 08:55-08:57/2 18:57	07:59 17:00	08:41 09:17-09:34/17 16:38
15	05:46 21:55	06:30 06:57-07:08/11 21:09	07:19 08:11-09:06/55 20:02	08:07 08:51-09:02/11 18:55	08:01 16:58	08:42 09:17-09:35/18 16:38
16	05:48 21:54	06:32 06:59-07:10/11 21:07	07:21 08:11-09:04/53 19:59	08:09 08:48-09:03/15 18:52	08:02 16:57	08:43 09:18-09:36/18 16:38
17	05:49 21:53	06:33 07:00-07:10/10 21:05	07:22 08:12-09:04/52 19:57	08:11 08:45-09:04/19 18:50	08:04 16:56	08:44 09:18-09:36/18 16:38
18	05:50 21:52	06:35 07:02-07:11/9 21:03	07:24 08:11-09:02/51 19:55	08:12 08:43-09:05/22 18:48	08:06 16:55	08:44 09:18-09:36/18 16:39
19	05:51 21:51	06:37 07:03-07:10/7 21:01	07:25 08:12-09:02/50 19:53	08:14 08:41-09:06/25 18:46	08:07 16:53	08:45 09:19-09:37/18 16:39
20	05:52 21:50	06:38 07:05-07:11/6 20:59	07:27 08:13-09:01/48 19:50	08:16 08:42-09:06/24 18:44	08:09 16:52	08:46 09:20-09:38/18 16:39
21	05:54 21:49	06:40 07:06-07:10/4 20:57	07:28 08:14-08:59/45 19:48	08:17 08:43-09:05/22 18:42	08:11 16:51	08:46 09:20-09:38/18 16:40
22	05:55 06:59-07:05/6 21:48	06:41 07:08-07:09/1 20:54	07:30 08:15-08:58/43 19:46	08:19 08:45-09:05/20 18:40	08:12 16:50	08:47 09:21-09:39/18 16:40
23	05:56 06:56-07:07/11 21:46	06:43 08:39-08:48/9 20:52	07:32 08:16-08:56/40 19:43 07:56-08:01/5	08:21 08:47-09:05/18 18:38	08:14 16:49	08:47 09:21-09:39/18 16:41
24	05:58 06:54-07:08/14 21:45	06:44 08:35-08:54/19 20:50	07:33 08:17-08:54/37 19:41 07:58-08:02/4	08:23 08:49-09:05/16 18:36	08:15 16:48	08:48 09:21-09:39/18 16:41
25	05:59 06:54-07:10/16 21:44	06:46 08:31-08:56/25 20:48	07:35 08:18-08:51/33 19:39 07:59-08:02/3	07:24 07:51-08:04/13 17:34	08:17 16:47	08:48 09:22-09:40/18 16:42
26	06:00 06:53-07:11/18 21:42	06:48 08:29-08:59/30 20:46	07:36 08:21-08:49/28 19:37 08:01-08:02/1	07:26 07:52-08:02/10 17:32	08:19 16:46	08:49 09:22-09:40/18 16:43
27	06:02 06:52-07:12/20 21:41	06:49 08:26-09:00/34 20:44	07:38 08:23-08:48/25 19:34	07:28 07:54-08:01/7 17:30	08:20 16:45	08:49 09:23-09:41/18 16:43
28	06:03 06:51-07:14/23 21:40	06:51 08:25-09:02/37 20:42	07:40 08:22-08:48/26 19:32	07:29 07:56-07:59/3 17:28	08:22 08:56-09:02/6 16:44	08:49 09:23-09:41/18 16:44
29	06:05 06:50-07:14/24 21:38	06:52 08:23-09:03/40 20:40	07:41 08:21-08:49/28 19:30	07:31 17:26	08:23 08:55-09:03/8 16:43	08:49 09:23-09:41/18 16:45
30	06:06 06:50-07:14/24 21:37	06:54 08:22-09:04/42 20:37	07:43 08:20-08:48/28 19:28	07:33 17:25	08:24 08:56-09:04/8 16:43	08:49 09:24-09:42/18 16:46
31	06:07 06:50-07:15/25 21:35	06:55 08:20-09:05/45 20:35	 	07:35 17:23	 	08:49 09:25-09:42/17 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	181	691	1413	507	22	541

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February		March		April		May		June	
1	08:50	08:24		07:32	08:03-08:38/35	07:23		06:20	06:44-06:45/1	05:36	06:27-06:48/21
	16:48	17:35		18:25		20:17		21:06	06:47-06:53/6	21:50	
2	08:49	08:22		07:30	08:04-08:40/36	07:21		06:18	06:42-06:44/2	05:35	06:28-06:49/21
	16:49	17:36		18:26		20:19		21:08		21:52	
3	08:49	08:21		07:28	08:07-08:41/34	07:19		06:16		05:35	06:28-06:48/20
	16:50	17:38		18:28		20:20		21:09		21:53	
4	08:49	08:19	08:57-09:04/7	07:26	08:07-08:42/35	07:16		06:14		05:34	06:29-06:47/18
	16:51	17:40		18:30		20:22		21:11		21:54	
5	08:49	08:18	08:53-09:08/15	07:24	08:05-08:42/37	07:14		06:13		05:33	06:30-06:47/17
	16:52	17:42		18:32		20:24		21:13		21:55	
6	08:49	08:16	08:51-09:10/19	07:21	08:04-08:42/38	07:12		06:11	06:36-06:38/2	05:33	06:30-06:46/16
	16:54	17:44		18:33		20:25		21:14		21:55	
7	08:48	08:14	08:49-09:11/22	07:19	08:04-08:43/39	07:10		06:09	06:34-06:37/3	05:32	06:31-06:47/16
	16:55	17:45		18:35		20:27		21:16		21:56	
8	08:48	08:13	08:48-09:13/25	07:17	08:03-08:43/40	07:08		06:07	06:32-06:36/4	05:32	06:31-06:46/15
	16:56	17:47		18:37		20:28		21:17		21:57	
9	08:47	08:11	08:47-09:14/27	07:15	08:02-08:42/40	07:05		06:06	06:31-06:43/12	05:31	06:33-06:45/12
	16:57	17:49		18:38		20:30		21:19		21:58	
10	08:47	08:09	08:46-09:15/29	07:13	08:02-08:42/40	07:03		06:04	06:29-06:44/15	05:31	06:34-06:45/11
	16:59	17:51		18:40	07:44-07:47/3	20:32		21:20		21:59	
11	08:46	08:08	08:45-09:16/31	07:10	08:02-08:42/40	07:01	07:24-07:29/5	06:02	06:28-06:46/18	05:30	06:35-06:45/10
	17:00	17:53		18:42	07:39-07:52/13	20:33		21:22		22:00	
12	08:46	08:06	08:45-09:16/31	07:08	08:02-08:42/40	06:59	07:21-07:29/8	06:01	06:26-06:47/21	05:30	06:35-06:44/9
	17:02	17:54		18:44	07:36-07:55/19	20:35		21:24		22:00	
13	08:45	08:04	08:44-09:17/33	07:06	08:02-08:40/38	06:57	07:19-07:30/11	05:59	06:25-06:48/23	05:30	06:36-06:43/7
	17:03	17:56		18:45	07:34-07:55/21	20:37		21:25		22:01	
14	08:44	08:02	08:44-09:17/33	07:04	08:02-08:40/38	06:54	07:17-07:31/14	05:58	06:25-06:48/23	05:30	06:38-06:43/5
	17:04	17:58		18:47	07:32-07:56/24	20:38		21:27		22:01	
15	08:44	08:00	08:43-09:17/34	07:01	08:03-08:39/36	06:52	07:15-07:31/16	05:56	06:25-06:49/24	05:30	06:39-06:42/3
	17:06	18:00		18:49	07:31-07:57/26	20:40		21:28		22:02	
16	08:43	07:58	08:43-09:17/34	06:59	08:03-08:38/35	06:50	07:13-07:31/18	05:55	06:25-06:50/25	05:29	
	17:08	18:02		18:50	07:30-07:58/28	20:42		21:30		22:02	
17	08:42	07:56	08:43-09:17/34	06:57	08:03-08:36/33	06:48	07:13-07:31/18	05:53	06:24-06:49/25	05:29	
	17:09	18:03		18:52	07:29-07:58/29	20:43		21:31		22:03	
18	08:41	07:54	08:43-09:17/34	06:55	08:04-08:35/31	06:46	07:13-07:30/17	05:52	06:24-06:50/26	05:29	
	17:11	18:05		18:54	07:29-07:58/29	20:45		21:32		22:03	
19	08:40	07:53	08:44-09:16/32	06:52	08:06-08:33/27	06:44	07:13-07:29/16	05:51	06:24-06:50/26	05:29	
	17:12	18:07		18:55	07:28-07:58/30	20:47		21:34		22:04	
20	08:39	07:51	08:44-09:16/32	06:50	08:07-08:31/24	06:42	07:14-07:28/14	05:49	06:24-06:51/27	05:29	
	17:14	18:09		18:57	07:28-07:58/30	20:48		21:35		22:04	
21	08:38	07:49	08:45-09:15/30	06:48	08:09-08:27/18	06:40	07:15-07:27/12	05:48	06:23-06:50/27	05:30	
	17:16	18:11	08:12-08:16/4	18:59	07:28-07:56/28	20:50	07:03-07:05/2	21:37		22:04	
22	08:37	07:47	08:45-09:14/29	06:46	08:12-08:23/11	06:38	07:17-07:24/7	05:47	06:23-06:50/27	05:30	
	17:17	18:12	08:10-08:18/8	19:00	07:28-07:56/28	20:51	07:01-07:06/5	21:38		22:04	
23	08:36	07:45	08:46-09:13/27	06:43	07:28-07:55/27	06:36	06:59-07:06/7	05:45	06:24-06:50/26	05:30	
	17:19	18:14	08:08-08:19/11	19:02		20:53		21:39		22:05	
24	08:35	07:42	08:48-09:11/23	06:41	07:28-07:53/25	06:34	06:57-07:06/9	05:44	06:24-06:50/26	05:30	
	17:21	18:16	08:06-08:19/13	19:04		20:55		21:41		22:05	
25	08:33	07:40	08:49-09:10/21	06:39	07:29-07:52/23	06:32	06:55-07:06/11	05:43	06:24-06:50/26	05:31	
	17:22	18:18	08:04-08:20/16	19:05		20:56		21:42		22:05	
26	08:32	07:38	08:02-08:33/31	06:37	07:31-07:50/19	06:30	06:53-07:05/12	05:42	06:24-06:50/26	05:31	
	17:24	18:19	08:51-09:07/16	19:07		20:58		21:43		22:05	
27	08:31	07:36	08:03-08:36/33	06:34	07:32-07:48/16	06:28	06:51-07:04/13	05:41	06:25-06:50/25	05:31	
	17:26	18:21	08:55-09:04/9	19:09		21:00		21:45		22:05	
28	08:30	07:34	08:02-08:37/35	06:32	07:34-07:44/10	06:26	06:50-07:03/13	05:40	06:25-06:49/24	05:32	06:41-06:45/4
	17:27	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24	06:48-07:02/14	05:39	06:26-06:50/24	05:32	06:40-06:46/6
	17:29			20:12		21:03		21:47		22:05	
30	08:27			07:28		06:22	06:46-06:55/9	05:38	06:26-06:50/24	05:33	06:40-06:48/8
	17:31			20:14		21:05		21:48		22:04	
31	08:25			07:25				05:37	06:27-06:49/22		
	17:33			20:15				21:49			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	778		1173		251		560		219	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 06:39-06:49/10 22:04	06:09 06:37-06:57/20 21:33	06:57 07:23-07:28/5 20:33	07:44 08:41-09:20/39 19:25 08:14-08:34/20	07:36 08:16-08:44/28 17:21	08:26 16:42
2	05:34 06:38-06:49/11 22:04	06:10 06:39-06:56/17 21:32	06:59 20:31	07:46 08:41-09:21/40 19:23 08:17-08:32/15	07:38 08:17-08:44/27 17:19	08:27 16:41
3	05:35 06:38-06:50/12 22:03	06:12 06:40-06:54/14 21:30	07:00 20:29	07:48 08:40-09:20/40 19:21 08:19-08:28/9	07:40 08:17-08:42/25 17:17	08:29 16:41
4	05:36 06:38-06:52/14 22:03	06:13 06:41-06:51/10 21:29	07:02 20:27	07:49 08:40-09:20/40 19:19	07:42 08:19-08:41/22 17:16	08:30 16:40
5	05:37 06:37-06:52/15 22:03	06:15 06:43-06:47/4 21:27	07:03 20:24	07:51 08:40-09:20/40 19:16	07:43 08:21-08:39/18 17:14	08:31 16:40
6	05:37 06:37-06:53/16 22:02	06:16 06:44-06:47/3 21:25	07:05 20:22	07:52 08:40-09:19/39 19:14	07:45 08:23-08:37/14 17:12	08:33 16:39
7	05:38 06:36-06:53/17 22:02	06:18 06:46-06:47/1 21:23	07:06 20:20	07:54 08:40-09:18/38 19:12	07:47 08:27-08:33/6 17:11	08:34 16:39
8	05:39 06:36-06:54/18 22:01	06:19 21:22	07:08 20:18	07:56 08:41-09:18/37 19:10	07:49 17:09	08:35 16:39
9	05:40 06:36-06:55/19 22:00	06:21 21:20	07:10 20:15	07:57 08:40-09:16/36 19:07	07:50 17:07	08:36 16:38
10	05:41 06:36-06:56/20 22:00	06:23 21:18	07:11 20:13	07:59 08:41-09:16/35 19:05	07:52 17:06	08:37 16:38
11	05:42 06:36-06:57/21 21:59	06:24 06:52-06:54/2 21:16	07:13 20:11	08:01 08:40-09:15/35 19:03	07:54 17:04	08:38 16:38
12	05:43 06:35-06:57/22 21:58	06:26 06:53-06:54/1 21:14 06:55-07:02/7	07:14 20:09	08:02 08:38-09:12/34 19:01	07:56 17:03	08:39 16:38
13	05:44 06:35-06:58/23 21:57	06:27 06:54-07:03/9 21:12	07:16 20:06	08:04 08:36-09:11/35 18:59	07:57 17:01	08:40 16:38
14	05:45 06:35-06:58/23 21:56	06:29 06:56-07:10/14 21:11	07:17 20:04	08:06 08:35-09:09/34 18:57	07:59 17:00	08:41 16:38
15	05:46 06:35-06:59/24 21:55	06:30 06:57-07:11/14 21:09	07:19 08:26-08:34/8 20:02	08:07 08:35-09:07/32 18:54 09:25-09:38/13	08:01 16:58	08:42 16:38
16	05:47 06:34-06:59/25 21:54	06:32 06:59-07:12/13 21:07	07:21 08:21-08:36/15 19:59	08:09 08:35-09:02/27 18:52 09:22-09:39/17	08:02 16:57	08:43 16:38
17	05:49 06:34-06:59/25 21:53	06:33 07:00-07:12/12 21:05	07:22 08:19-08:38/19 19:57	08:11 09:20-09:42/22 18:50 08:36-08:51/15	08:04 16:56	08:44 16:38
18	05:50 06:34-07:00/26 21:52	06:35 07:02-07:13/11 21:03	07:24 08:17-08:39/22 19:55	08:12 09:18-09:43/25 18:48 08:38-08:50/12	08:06 16:55	08:45 16:39
19	05:51 06:34-07:00/26 21:51	06:37 07:03-07:12/9 21:01	07:25 08:16-08:40/24 19:53	08:14 09:17-09:45/28 18:46 08:40-08:50/10	08:07 16:53	08:45 16:39
20	05:52 06:33-07:00/27 21:50	06:38 07:05-07:12/7 20:59	07:27 08:15-08:42/27 19:50	08:16 09:16-09:46/30 18:44 08:42-08:48/6	08:09 16:52	08:46 16:39
21	05:54 06:34-07:01/27 21:49	06:40 07:21-07:30/9 20:57 07:06-07:11/5	07:28 09:00-09:07/7 19:48 08:14-08:41/27	08:17 09:15-09:46/31 18:42 08:43-08:46/3	08:11 16:51	08:46 16:40
22	05:55 06:34-07:01/27 21:48	06:41 07:19-07:32/13 20:55 07:08-07:10/2	07:30 08:55-09:12/17 19:46 08:13-08:42/29	08:19 09:14-09:46/32 18:40	08:12 16:50	08:47 16:40
23	05:56 06:34-07:00/26 21:46	06:43 07:17-07:32/15 20:52	07:32 08:52-09:14/22 19:43 08:12-08:41/29	08:21 09:14-09:47/33 18:38	08:14 16:49	08:48 16:41
24	05:58 06:34-07:00/26 21:45	06:44 07:17-07:33/16 20:50	07:33 08:50-09:16/26 19:41 08:12-08:41/29	08:23 09:14-09:47/33 18:36	08:15 16:48	08:48 16:41
25	05:59 06:34-07:01/27 21:44	06:46 07:16-07:33/17 20:48	07:35 08:47-09:17/30 19:39 08:11-08:40/29	07:24 08:14-08:47/33 17:34	08:17 16:47	08:48 16:42
26	06:00 06:34-07:00/26 21:42	06:48 07:16-07:34/18 20:46	07:36 08:46-09:18/32 19:37 08:11-08:40/29	07:26 08:14-08:47/33 17:32	08:19 16:46	08:49 16:43
27	06:02 06:34-07:00/26 21:41	06:49 07:15-07:33/18 20:44	07:38 08:45-09:19/34 19:34 08:12-08:40/28	07:28 08:13-08:46/33 17:30	08:20 16:45	08:49 16:43
28	06:03 06:36-07:00/24 21:40	06:51 07:17-07:33/16 20:42	07:40 08:44-09:19/35 19:32 08:12-08:38/26	07:29 08:13-08:46/33 17:28	08:22 16:44	08:49 16:44
29	06:05 06:36-06:59/23 21:38	06:52 07:18-07:32/14 20:40	07:41 08:43-09:20/37 19:30 08:13-08:38/25	07:31 08:14-08:46/32 17:26	08:23 16:43	08:49 16:45
30	06:06 06:35-06:58/23 21:37	06:54 07:20-07:31/11 20:38	07:43 08:41-09:20/39 19:28 08:13-08:36/23	07:33 08:14-08:46/32 17:24	08:25 16:43	08:49 16:46
31	06:07 06:36-06:58/22 21:35	06:55 07:21-07:29/8 20:35		07:35 08:15-08:45/30 17:23		08:49 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	671	330	673	1161	140	0

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:50 09:47-10:30/43	08:24 08:52-09:29/37	07:32	07:23 07:48-07:54/6	06:20	05:36 06:23-06:34/11
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:48-10:30/42	08:22 08:52-09:29/37	07:30	07:21 07:51-08:00/9	06:18	05:36 06:22-06:37/15
	16:49	17:36	18:26	20:19 07:43-07:46/3	21:08	21:52
3	08:49 09:49-10:30/41	08:21 08:52-09:29/37	07:28	07:19 07:41-08:03/22	06:16	05:35 06:20-06:38/18
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:48-10:29/41	08:19 08:54-09:30/36	07:26	07:16 07:39-08:06/27	06:15	05:34 06:19-06:39/20
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:49-10:30/41	08:18 08:55-09:30/35	07:24	07:14 07:37-08:07/30	06:13	05:33 06:19-06:40/21
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 09:49-10:29/40	08:16 08:57-09:30/33	07:21	07:12 07:34-08:07/33	06:11	05:33 06:17-06:41/24
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:50-10:28/38	08:14 09:00-09:30/30	07:19	07:10 07:32-08:08/36	06:09	05:32 06:01-06:02/1
	16:55	17:45	18:35	20:27	21:16	21:56 06:17-06:42/25
8	08:48 09:50-10:27/37	08:13 09:01-09:30/29	07:17	07:08 07:32-08:09/37	06:08	05:32 06:01-06:03/2
	16:56	17:47	18:37	20:28	21:17	21:57 06:16-06:42/26
9	08:47 09:51-10:28/37	08:11 09:01-09:30/29	07:15	07:05 07:33-08:09/36	06:06	05:31 06:00-06:03/3
	16:57	17:49	18:38	20:30 07:28-07:30/2	21:19	21:58 06:16-06:43/27
10	08:47 09:51-10:28/37	08:09 09:02-09:29/27	07:13	07:03 07:34-08:09/35	06:04	05:31 06:00-06:04/4
	16:59	17:51	18:40	20:32 07:26-07:31/5	21:20	21:59 06:16-06:44/28
11	08:46 09:51-10:28/37	08:08 09:02-09:28/26	07:10	07:01 07:37-08:09/32	06:03	05:30 06:00-06:04/4
	17:00	17:53	18:42	20:33 07:24-07:31/7	21:22	22:00 06:16-06:45/29
12	08:46 09:51-10:28/37	08:06 09:03-09:27/24	07:08	06:59 07:35-08:08/33	06:01	05:30 05:59-06:04/5
	17:02	17:54	18:44	20:35 07:21-07:30/9	21:24	22:00 06:16-06:45/29
13	08:45 09:53-10:29/36	08:04 09:04-09:25/21	07:06	06:57 07:35-08:08/33	05:59	05:30 05:59-06:05/6
	17:03	17:56	18:45	20:37 07:19-07:29/10	21:25	22:01 06:16-06:46/30
14	08:44 09:53-10:30/37	08:02 09:06-09:24/18	07:04	06:55 07:35-08:08/33	05:58	05:30 05:59-06:05/6
	17:05	17:58	18:47	20:38 07:17-07:28/11	21:27	22:01 06:16-06:46/30
15	08:44 09:53-10:30/37	08:00 09:08-09:21/13	07:01	06:52 07:35-08:07/32	05:56	05:30 05:59-06:05/6
	17:06	18:00	18:49	20:40 07:18-07:26/8	21:28	22:02 06:16-06:47/31
16	08:43 09:54-10:30/36	07:58 09:12-09:17/5	06:59	06:50 07:35-08:07/32	05:55	05:29 05:59-06:06/7
	17:08	18:02	18:50	20:42	21:30	22:02 06:16-06:47/31
17	08:42 09:55-10:30/35	07:56	06:57 07:19-07:25/6	06:48 07:36-08:06/30	05:53	05:29 05:59-06:06/7
	17:09	18:03	18:52	20:43	21:31	22:03 06:16-06:48/32
18	08:41 09:55-10:30/35	07:54	06:55 07:17-07:27/10	06:46 07:36-08:05/29	05:52	05:29 05:59-06:06/7
	17:11	18:05	18:54	20:45	21:32	22:03 06:16-06:48/32
19	08:40 09:56-10:30/34	07:53	06:52 07:15-07:29/14	06:44 07:07-07:09/2	05:51	05:29 05:59-06:06/7
	17:12	18:07	18:55	20:47 07:37-08:04/27	21:34	22:04 06:16-06:48/32
20	08:39 09:57-10:30/33	07:51	06:50 07:13-07:29/16	06:42 07:05-07:08/3	05:49	05:29 05:59-06:07/8
	17:14	18:09	18:57	20:48 07:38-08:02/24	21:35	22:04 06:16-06:48/32
21	08:38 09:57-10:29/32	07:49	06:48 07:10-07:29/19	06:40 07:03-07:06/3	05:48	05:30 05:59-06:07/8
	17:16	18:11	18:59	20:50 07:39-08:00/21	21:37	22:04 06:16-06:48/32
22	08:37 09:58-10:28/30	07:47	06:46 07:09-07:29/20	06:38 07:01-07:03/2	05:47	05:30 06:00-06:08/8
	17:17	18:12	19:00	20:51 07:40-07:58/18	21:38	22:04 06:17-06:49/32
23	08:36 10:00-10:28/28	07:45	06:43 07:09-07:29/20	06:36 06:59-07:03/4	05:45	05:30 06:00-06:07/7
	17:19 09:10-09:16/6	18:14	19:02	20:53 07:43-07:55/12	21:39	22:05 06:17-06:49/32
24	08:35 10:00-10:27/27 09:02-09:04/2	07:42	06:41 07:09-07:29/20	06:34 06:57-07:02/5	05:44	05:30 06:00-06:07/7
	17:21 09:06-09:18/12	18:16	19:04	20:55 07:48-07:49/1	21:41	22:05 06:17-06:49/32
25	08:33 10:02-10:26/24	07:40	06:39 07:08-07:27/19	06:32 06:55-07:02/7	05:43	05:31 06:01-06:08/7
	17:22 09:00-09:21/21	18:18	19:05	20:56	21:42	22:05 06:18-06:50/32
26	08:32 10:04-10:25/21	07:38	06:37 07:09-07:26/17	06:30 06:53-07:01/8	05:42	05:31 06:01-06:08/7
	17:24 08:59-09:23/24	18:19	19:07	20:58	21:43	22:05 06:18-06:49/31
27	08:31 10:05-10:23/18	07:36	06:34 07:10-07:25/15	06:28 06:51-07:00/9	05:41	05:31 06:02-06:09/7
	17:26 08:57-09:24/27	18:21	19:09	21:00	21:45	22:05 06:18-06:49/31
28	08:30 10:08-10:21/13	07:34	06:32 07:11-07:22/11	06:26 06:51-07:00/9	05:40	05:32 06:02-06:08/6
	17:27 08:56-09:25/29	18:23	19:10 06:55-06:58/3	21:01	21:46	22:05 06:19-06:49/30
29	08:28 10:12-10:16/4		07:30 08:15-08:18/3	06:24 06:53-06:58/5	05:39	05:32 06:03-06:09/6
	17:29 08:54-09:26/32		20:12 07:52-07:57/5	21:03	21:47	22:05 06:19-06:49/30
30	08:27 08:53-09:27/34		07:28 07:50-07:56/6	06:22	05:38	05:33 06:03-06:08/5
	17:31		20:14	21:05	21:48	22:04 06:20-06:49/29
31	08:25 08:51-09:28/37		07:25 07:48-07:56/8		05:37 06:26-06:31/5	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1175	437	212	740	5	975

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 06:04-06:09/5	06:09	06:57 07:36-08:08/32	07:44	07:36 08:31-08:59/28	08:26 09:33-10:10/37
	22:04 06:21-06:50/29	21:33	20:33 07:23-07:30/7	19:25	17:21	16:42
2	05:34 06:04-06:08/4	06:10	06:59 07:32-08:07/35	07:46	07:38 08:31-08:59/28	08:27 09:34-10:11/37
	22:04 06:20-06:49/29	21:32	20:31 07:24-07:29/5	19:23	17:19	16:41
3	05:35 06:05-06:08/3	06:12	07:00 07:31-08:07/36	07:48	07:40 08:29-08:59/30	08:29 09:34-10:11/37
	22:03 06:21-06:49/28	21:30	20:29 07:26-07:28/2	19:21	17:17	16:41
4	05:36 06:06-06:08/2	06:13	07:02 07:29-08:06/37	07:49	07:42 08:29-08:59/30	08:30 09:35-10:12/37
	22:03 06:22-06:49/27	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:09/2	06:15	07:03 07:29-08:05/36	07:51	07:43 08:26-09:00/34	08:31 09:35-10:13/38
	22:03 06:22-06:48/26	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:47/24	06:16	07:05 07:30-08:03/33	07:52	07:45 08:25-09:00/35	08:33 09:35-10:15/40
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:25-06:47/22	06:18	07:06 07:32-08:02/30	07:54	07:47 08:24-09:00/36	08:34 09:36-10:17/41
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39 06:26-06:47/21	06:19	07:08 07:33-08:00/27	07:56	07:49 08:23-09:00/37	08:35 09:36-10:17/41
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:27-06:46/19	06:21	07:10 07:35-07:58/23	07:57	07:50 08:23-09:00/37	08:36 09:37-10:18/41
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:28-06:45/17	06:23	07:11 07:43-07:54/11	07:59	07:52 08:23-09:00/37	08:37 09:37-10:19/42
	22:00	21:18	20:13 07:36-07:39/3	19:05	17:06	16:38
11	05:42 06:30-06:43/13	06:24	07:13 07:40-07:46/6	08:01	07:54 08:23-09:00/37	08:38 09:37-10:20/43
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:33-06:41/8	06:26	07:14 07:39-07:47/8	08:02	07:56 08:24-08:58/34	08:39 09:38-10:20/42
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 07:41-07:48/7	08:04	07:57 09:44-09:49/5	08:40 09:38-10:21/43
	21:57	21:12	20:06	18:59	17:01 08:26-08:58/32	16:38
14	05:45	06:29 07:00-07:06/6	07:17 07:42-07:47/5	08:06	07:59 09:40-09:53/13	08:41 09:39-10:22/43
	21:56	21:11	20:04	18:57	17:00 08:28-08:57/29	16:38
15	05:46	06:30 06:57-07:07/10	07:19 08:02-08:12/10	08:07	08:01 09:38-09:56/18	08:42 09:40-10:23/43
	21:55	21:09	20:02 07:44-07:47/3	18:55	16:58 08:30-08:57/27	16:38
16	05:47	06:32 06:59-07:08/9	07:21 07:59-08:13/14	08:09	08:02 09:37-09:58/21	08:43 09:40-10:24/44
	21:54	21:07	19:59 07:45-07:46/1	18:52	16:57 08:32-08:56/24	16:38
17	05:49	06:33 07:00-07:08/8	07:22 07:58-08:15/17	08:11	08:04 09:36-10:00/24	08:44 09:41-10:24/43
	21:53	21:05	19:57	18:50	16:56 08:34-08:55/21	16:38
18	05:50	06:35 07:02-07:08/6	07:24 07:56-08:15/19	08:12	08:06 09:34-10:01/27 08:36-08:38/2	08:45 09:41-10:24/43
	21:52	21:03	19:55	18:48	16:55 08:40-08:52/12	16:39
19	05:51	06:37 07:03-07:08/5	07:25 07:56-08:15/19	08:14	08:07 09:34-10:02/28	08:45 09:42-10:25/43
	21:51	21:01 07:52-07:57/5	19:53	18:46	16:53 08:44-08:50/6	16:39
20	05:52	06:38 07:05-07:09/4	07:27 07:55-08:16/21	08:16	08:09 09:33-10:03/30	08:46 09:43-10:26/43
	21:50	20:59 07:48-08:02/14	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:08/2	07:28 07:54-08:15/21	08:17	08:11 09:33-10:05/32	08:46 09:43-10:26/43
	21:49	20:57 07:45-08:03/18	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:11/3	07:30 07:55-08:15/20	08:19	08:12 09:33-10:06/33	08:47 09:44-10:27/43
	21:48	20:55 07:43-08:05/22	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:12/3	07:32 07:56-08:13/17	08:21	08:14 09:32-10:06/34	08:47 09:44-10:27/43
	21:46	20:52 07:41-08:06/25	19:43	18:38	16:49	16:41
24	05:58	06:44 07:11-07:13/2	07:33 07:58-08:13/15	08:23	08:15 09:32-10:07/35	08:48 09:44-10:27/43
	21:45	20:50 07:41-08:07/26	19:41	18:36	16:48	16:41
25	05:59	06:46 07:39-08:08/29	07:35 07:59-08:10/11	07:24	08:17 09:33-10:08/35	08:48 09:45-10:28/43
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 07:39-08:09/30	07:36 08:01-08:09/8	07:26 08:41-08:49/8	08:19 09:32-10:08/36	08:49 09:45-10:28/43
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:37-08:09/32	07:38 08:03-08:05/2	07:28 08:37-08:51/14	08:20 09:33-10:09/36	08:49 09:45-10:29/44
	21:41	20:44 07:23-07:25/2	19:34	17:30	16:45	16:43
28	06:03	06:51 07:37-08:09/32	07:40	07:29 08:35-08:54/19	08:22 09:33-10:10/37	08:49 09:46-10:29/43
	21:40	20:42 07:20-07:28/8	19:32	17:28	16:44	16:44
29	06:05	06:52 07:36-08:09/33	07:41	07:31 08:33-08:55/22	08:23 09:33-10:10/37	08:49 09:46-10:29/43
	21:38	20:40 07:18-07:29/11	19:30	17:26	16:43	16:45
30	06:06	06:54 07:36-08:09/33	07:43	07:33 08:32-08:57/25	08:25 09:33-10:10/37	08:49 09:46-10:29/43
	21:37	20:38 07:20-07:30/10	19:28	17:25	16:43	16:46
31	06:07	06:55 07:35-08:08/33		07:35 08:32-08:58/26		08:49 09:47-10:29/42
	21:35	20:35 07:21-07:29/8		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	279	429	541	114	1074	1294

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March		April		May		June	
1	08:49	08:24	07:32		07:23		06:20		05:36	06:04-06:13/9
	16:48	17:34	18:25		20:17		21:06		21:50	
2	08:49	08:22	07:30		07:21		06:18	06:42-06:43/1	05:35	06:04-06:14/10
	16:49	17:36	18:26		20:18		21:08		21:51	
3	08:49	08:21	07:28		07:19		06:16	06:40-06:43/3	05:35	06:03-06:14/11
	16:50	17:38	18:28		20:20		21:09		21:52	
4	08:49	08:19	07:26		07:16		06:14	06:39-06:43/4	05:34	06:02-06:14/12
	16:51	17:40	18:30		20:22		21:11		21:53	
5	08:49	08:18	07:23		07:14		06:13	06:37-06:43/6	05:33	06:02-06:14/12
	16:52	17:42	18:31		20:23		21:13		21:54	
6	08:49	08:16	07:21	07:44-07:47/3	07:12	07:34-07:35/1	06:11	06:35-06:42/7	05:33	06:01-06:14/13
	16:53	17:43	18:33		20:25		21:14		21:55	
7	08:48	08:14	07:19	07:42-07:47/5	07:10	07:32-07:34/2	06:09	06:34-06:42/8	05:32	06:01-06:14/13
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	07:40-07:47/7	07:07	07:30-07:32/2	06:07	06:32-06:41/9	05:32	06:00-06:14/14
	16:56	17:47	18:37		20:28		21:17		21:57	
9	08:47	08:11	07:15	07:37-07:46/9	07:05		06:06	06:31-06:41/10	05:31	06:00-06:14/14
	16:57	17:49	18:38		20:30		21:19		21:58	
10	08:47	08:09	07:12	07:35-07:45/10	07:03		06:04	06:33-06:38/5	05:31	06:00-06:14/14
	16:59	17:51	18:40		20:32		21:20		21:59	
11	08:46	08:07	07:10	07:34-07:44/10	07:01		06:02		05:30	05:59-06:14/15
	17:00	17:52	18:42		20:33		21:22		21:59	
12	08:46	08:06	07:08	07:36-07:42/6	06:59		06:01		05:30	05:59-06:14/15
	17:01	17:54	18:43		20:35		21:23		22:00	
13	08:45	08:04	07:06		06:57		05:59		05:30	05:59-06:14/15
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04		06:54		05:58		05:30	05:59-06:14/15
	17:04	17:58	18:47		20:38		21:26		22:01	
15	08:44	08:00	07:01	07:24-07:26/2	06:52		05:56		05:29	05:59-06:15/16
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:22-07:27/5	06:50	07:13-07:15/2	05:55		05:29	05:59-06:15/16
	17:07	18:01	18:50		20:42		21:29		22:02	
17	08:42	07:56	06:57	07:19-07:26/7	06:48	07:11-07:15/4	05:53		05:29	05:59-06:15/16
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:54	06:55	07:17-07:26/9	06:46	07:09-07:14/5	05:52		05:29	05:59-06:15/16
	17:11	18:05	18:54		20:45		21:32		22:03	
19	08:40	07:52	06:52	07:15-07:26/11	06:44	07:07-07:13/6	05:50		05:29	05:59-06:15/16
	17:12	18:07	18:55		20:46		21:34		22:04	
20	08:39	07:50	06:50	07:13-07:25/12	06:42	07:05-07:11/6	05:49		05:29	05:59-06:15/16
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:48	06:48	07:10-07:22/12	06:40		05:48		05:30	05:59-06:15/16
	17:15	18:10	18:59		20:50		21:37		22:04	
22	08:37	07:46	06:46	07:08-07:20/12	06:38		05:47		05:30	06:00-06:16/16
	17:17	18:12	19:00		20:51		21:38		22:04	
23	08:36	07:44	06:43	07:06-07:14/8	06:36		05:45		05:30	06:00-06:16/16
	17:19	18:14	19:02		20:53		21:39		22:05	
24	08:35	07:42	06:41	07:03-07:11/8	06:34		05:44		05:30	06:00-06:16/16
	17:20	18:16	19:04		20:55		21:41		22:05	
25	08:33	07:40	06:39		06:32		05:43	06:10-06:11/1	05:31	06:01-06:17/16
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37		06:30		05:42	06:09-06:11/2	05:31	06:01-06:17/16
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34		06:28		05:41	06:08-06:12/4	05:31	06:01-06:17/16
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	06:07-06:12/5	05:32	06:02-06:17/15
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30		06:24		05:39	06:06-06:12/6	05:32	06:02-06:17/15
	17:29		20:12		21:03		21:47		22:04	
30	08:27		07:28		06:22		05:38	06:06-06:13/7	05:33	06:03-06:18/15
	17:31		20:14		21:04		21:48		22:04	
31	08:25		07:25				05:37	06:05-06:13/8		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	136		28		86		435	

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 06:04-06:19/15	06:09	06:57	07:44	07:36	08:26
	22:04	21:33	20:33	19:25	17:21	16:42
2	05:34 06:04-06:19/15	06:10	06:58	07:46 08:14-08:22/8	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:19/14	06:12 06:42-06:50/8	07:00	07:47 08:12-08:23/11	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:20/14	06:13 06:41-06:50/9	07:02 07:27-07:29/2	07:49 08:14-08:24/10	07:42	08:30
	22:03	21:29	20:26	19:18	17:15	16:40
5	05:36 06:06-06:19/13	06:15 06:43-06:52/9	07:03 07:29-07:31/2	07:51 08:16-08:24/8	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:20/13	06:16 06:44-06:52/8	07:05 07:30-07:31/1	07:52 08:17-08:23/6	07:45	08:32
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:20/12	06:18 06:46-06:53/7	07:06	07:54 08:19-08:23/4	07:47	08:34
	22:01	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:21/12	06:19 06:47-06:52/5	07:08	07:56 08:21-08:23/2	07:49	08:35
	22:01	21:22	20:17	19:10	17:09	16:39
9	05:40 06:10-06:21/11	06:21 06:48-06:52/4	07:09	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:21/10	06:22 06:50-06:52/2	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:22/10	06:24	07:13	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:22/9	06:26	07:14	08:02	07:55	08:39
	21:58	21:14	20:08	19:01	17:03	16:38
13	05:44 06:14-06:22/8	06:27	07:16	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:15-06:22/7	06:29	07:17	08:06	07:59	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:22/6	06:30	07:19	08:07	08:01	08:42
	21:55	21:08	20:02	18:54	16:58	16:38
16	05:47 06:17-06:21/4	06:32	07:20	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:21/3	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:21/2	06:35	07:24	08:12	08:06	08:44
	21:52	21:03	19:55	18:48	16:54	16:38
19	05:51	06:36	07:25 07:51-07:58/7	08:14	08:07	08:45
	21:51	21:01	19:52	18:46	16:53	16:39
20	05:52	06:38	07:27 07:52-08:00/8	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 07:53-08:00/7	08:17	08:11	08:46
	21:49	20:56	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 07:55-08:07/12	08:19	08:12	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:15/6	07:31 07:56-08:08/12	08:21	08:14	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:57	06:44 07:11-07:17/6	07:33 07:58-08:09/11	08:22	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 07:12-07:17/5	07:35 07:59-08:09/10	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:47 07:14-07:18/4	07:36 08:01-08:09/8	07:26	08:18	08:49
	21:42	20:46	19:37	17:32	16:46	16:42
27	06:02	06:49 07:15-07:17/2	07:38 08:03-08:09/6	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:39 08:04-08:07/3	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:04	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:24	08:49
	21:37	20:37	19:27	17:24	16:43	16:46
31	06:07	06:55		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	178	75	89	49	0	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT09 - VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT10 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20 06:44-06:49/5	05:36	05:34 06:04-06:12/8	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:42-06:48/6	05:35	05:34 06:04-06:12/8	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:41-06:47/6	05:35 06:03-06:04/1	05:35 06:05-06:12/7	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:45/6	05:34 06:02-06:04/2	05:36 06:06-06:12/6	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:02-06:05/3	05:36 06:06-06:12/6	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:05/4	05:37 06:07-06:12/5	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:06/5	05:38 06:08-06:12/4	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32 06:00-06:06/6	05:39 06:09-06:12/3	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31 06:00-06:07/7	05:40 06:10-06:12/2	06:21 06:49-06:55/6	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:07/7	05:41 06:11-06:12/1	06:22 06:50-06:56/6	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 05:59-06:07/8	05:42	06:24 06:51-06:56/5	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 05:59-06:07/8	05:43	06:26 06:53-06:57/4	07:14	08:02	07:56	08:39
	17:01	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:08/9	05:44	06:27 06:54-06:57/3	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 05:59-06:08/9	05:45	06:29 06:56-06:58/2	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 05:59-06:09/10	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 05:59-06:09/10	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 05:59-06:09/10	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29 05:59-06:09/10	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44	05:50	05:29 05:59-06:09/10	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 05:59-06:10/11	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:29 05:59-06:10/11	05:54	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:00-06:11/11	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:00-06:11/11	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34	05:44	05:30 06:00-06:10/10	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43	05:31 06:00-06:10/10	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:01-06:11/10	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31 06:01-06:11/10	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32 06:02-06:11/9	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:48-06:50/2	05:39	05:32 06:02-06:11/9	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22 06:46-06:49/3	05:38	05:33 06:03-06:12/9	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	5	23	230	50	26	0	0	0	0

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June
1	08:49 16:48	08:24 08:50-09:14/24 17:35	07:32 18:25	07:23 07:46-08:07/21 20:17	06:20 06:56-07:17/21 21:06	05:36 06:04-06:24/20 21:50
2	08:49 16:49	08:22 08:48-09:14/26 17:36	07:30 18:26	07:21 07:43-08:05/22 20:19	06:18 06:56-07:16/20 21:08	05:35 06:04-06:25/21 21:51
3	08:49 16:50	08:21 08:48-09:13/25 17:38	07:28 18:28	07:19 07:49-08:04/15 20:20	06:16 06:57-07:14/17 21:09	05:35 06:03-06:25/22 21:53
4	08:49 16:51	08:19 08:49-09:14/25 17:40	07:26 18:30	07:16 07:51-08:02/11 20:22	06:14 06:59-07:13/14 21:11	05:34 06:02-06:26/24 21:54
5	08:49 16:52	08:18 08:49-09:13/24 17:42	07:23 18:32	07:14 07:55-07:57/2 20:23 07:37-07:38/1	06:13 07:02-07:10/8 21:13	05:33 06:02-06:27/25 21:54
6	08:49 16:54	08:16 08:49-09:12/23 17:43	07:21 18:33	07:12 07:34-07:36/2 20:25	06:11 21:14	05:33 06:01-06:27/26 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:50-09:11/21 17:45 08:39-08:41/2	07:19 18:35	07:10 07:32-07:35/3 20:27	06:09 21:16	05:32 06:01-06:28/27 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:52-09:11/19 17:47 08:38-08:42/4	07:17 18:37	07:08 20:28	06:07 21:17	05:32 06:00-06:28/28 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:53-09:10/17 17:49 08:36-08:42/6	07:15 18:38	07:05 20:30	06:06 21:19	05:31 06:00-06:29/29 21:58
10	08:47 09:16-09:22/6 16:59	08:09 08:55-09:08/13 17:51 08:34-08:41/7	07:13 18:40	07:03 20:32	06:04 21:20	05:31 06:00-06:29/29 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:58-09:04/6 17:53 08:32-08:40/8	07:10 18:42	07:01 20:33	06:02 21:22	05:30 05:59-06:29/30 21:59
12	08:46 09:15-09:24/9 17:02	08:06 08:30-08:41/11 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:27/1 21:24	05:30 05:59-06:30/31 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:28-08:41/13 17:56	07:06 18:45	06:57 20:37	05:59 06:25-06:27/2 21:25	05:30 05:59-06:30/31 22:01
14	08:44 09:13-09:25/12 17:04	08:02 08:26-08:41/15 17:58	07:04 18:47	06:54 20:38	05:58 06:23-06:26/3 21:27	05:30 05:59-06:31/32 22:01
15	08:44 09:12-09:26/14 17:06	08:00 08:24-08:41/17 18:00	07:01 18:49	06:52 20:40	05:56 06:22-06:26/4 21:28	05:30 05:59-06:31/32 22:02
16	08:43 09:11-09:26/15 17:08	07:58 08:22-08:41/19 18:02	06:59 07:22-07:24/2 18:50	06:50 07:13-07:16/3 20:42	05:55 06:21-06:26/5 21:30	05:29 05:59-06:32/33 22:02
17	08:42 09:10-09:27/17 17:09	07:56 08:20-08:41/21 18:03	06:57 07:19-07:24/5 18:52	06:48 07:11-07:18/7 20:43	05:53 06:19-06:25/6 21:31	05:29 05:59-06:32/33 22:03
18	08:41 09:09-09:27/18 17:11	07:54 08:20-08:40/20 18:05	06:55 07:17-07:24/7 18:54	06:46 07:09-07:19/10 20:45	05:52 06:18-06:24/6 21:32	05:29 05:59-06:32/33 22:03
19	08:40 09:08-09:27/19 17:12	07:52 08:21-08:39/18 18:07	06:52 07:15-07:24/9 18:55	06:44 07:07-07:20/13 20:47	05:51 06:17-06:23/6 21:34	05:29 05:59-06:32/33 22:04
20	08:39 09:07-09:28/21 17:14	07:51 08:22-08:38/16 18:09	06:50 07:13-07:23/10 18:57	06:42 07:05-07:21/16 20:48	05:49 21:35	05:29 05:59-06:32/33 22:04
21	08:38 09:05-09:27/22 17:16	07:49 08:24-08:36/12 18:10	06:48 07:10-07:21/11 18:59	06:40 07:03-07:21/18 20:50	05:48 21:37	05:30 05:59-06:32/33 22:04
22	08:37 09:04-09:28/24 17:17	07:47 08:27-08:33/6 18:12	06:46 07:10-07:19/9 19:00	06:38 07:01-07:22/21 20:51	05:47 21:38	05:30 06:00-06:33/33 22:04
23	08:36 09:03-09:28/25 17:19	07:44 18:14	06:43 07:13-07:16/3 19:02	06:36 06:59-07:22/23 20:53	05:45 21:39	05:30 06:00-06:33/33 22:05
24	08:35 09:01-09:27/26 17:21	07:42 18:16	06:41 07:03-07:07/4 19:04	06:34 06:57-07:22/25 20:55	05:44 21:41	05:30 06:00-06:33/33 22:05
25	08:33 09:00-09:27/27 17:22	07:40 18:18	06:39 07:01-07:08/7 19:05	06:32 06:55-07:21/26 20:56	05:43 21:42	05:31 06:01-06:34/33 22:05
26	08:32 08:59-09:27/28 17:24	07:38 18:19	06:37 06:59-07:09/10 19:07	06:30 06:54-07:21/27 20:58	05:42 06:09-06:15/6 21:43	05:31 06:01-06:34/33 22:05
27	08:31 08:57-09:25/28 17:26	07:36 18:21	06:34 06:57-07:10/13 19:09	06:28 06:54-07:20/26 21:00	05:41 06:08-06:17/9 21:45	05:31 06:01-06:33/32 22:05
28	08:30 08:56-09:25/29 17:27	07:34 18:23	06:32 06:54-07:09/15 19:10	06:26 06:54-07:20/26 21:01	05:40 06:07-06:19/12 21:46	05:32 06:02-06:34/32 22:05
29	08:28 08:54-09:12/18 17:29 09:13-09:22/9		07:30 07:52-08:09/17 20:12	06:24 06:55-07:20/25 21:03	05:39 06:06-06:20/14 21:47	05:32 06:02-06:33/31 22:04
30	08:27 08:53-09:13/20 17:31		07:28 07:50-08:09/19 20:14	06:22 06:55-07:19/24 21:05	05:38 06:06-06:22/16 21:48	05:33 06:03-06:34/31 22:04
31	08:25 08:51-09:13/22 17:33		07:25 07:48-08:08/20 20:15		05:37 06:05-06:23/18 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	434	418	161	367	188	896

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	July	August	September	October	November	December
1	05:34 06:04-06:34/30 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 08:24-08:38/14 17:21 08:04-08:11/7	08:26 08:57-09:04/7 16:42
2	05:34 06:04-06:34/30 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 08:23-08:40/17 17:19 08:06-08:11/5	08:27 08:59-09:05/6 16:41
3	05:35 06:05-06:34/29 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:21-08:40/19 17:17 08:08-08:12/4	08:29 09:00-09:04/4 16:41
4	05:36 06:06-06:34/28 22:03	06:13 21:29	07:02 20:26	07:49 19:19	07:42 08:20-08:41/21 17:16 08:09-08:11/2	08:30 09:02-09:05/3 16:40
5	05:37 06:06-06:33/27 22:03	06:15 21:27	07:03 07:29-07:32/3 20:24	07:51 19:16	07:43 08:19-08:42/23 17:14	08:31 09:03-09:04/1 16:40
6	05:37 06:07-06:33/26 22:02	06:16 21:25	07:05 07:30-07:32/2 20:22	07:52 19:14	07:45 08:19-08:43/24 17:12	08:33 16:39
7	05:38 06:08-06:33/25 22:02	06:18 21:23	07:06 07:32-07:33/1 20:20	07:54 19:12	07:47 08:19-08:44/25 17:10	08:34 16:39
8	05:39 06:09-06:33/24 22:01	06:19 07:10-07:20/10 21:22	07:08 07:45-07:56/11 20:18	07:56 19:10	07:49 08:18-08:44/26 17:09	08:35 16:39
9	05:40 06:10-06:33/23 22:00	06:21 07:07-07:22/15 21:20	07:10 07:43-07:58/15 20:15	07:57 19:07	07:50 08:19-08:44/25 17:07	08:36 16:38
10	05:41 06:11-06:33/22 22:00	06:23 07:06-07:24/18 21:18	07:11 07:36-07:59/23 20:13	07:59 19:05	07:52 08:21-08:45/24 17:06	08:37 16:38
11	05:42 06:12-06:32/20 21:59	06:24 07:05-07:25/20 21:16	07:13 07:38-08:00/22 20:11	08:01 19:03	07:54 08:23-08:45/22 17:04	08:38 16:38
12	05:43 06:13-06:32/19 21:58	06:26 07:04-07:26/22 21:14	07:14 07:39-07:59/20 20:09	08:02 19:01	07:55 08:24-08:44/20 17:03	08:39 16:38
13	05:44 06:14-06:31/17 21:57	06:27 07:03-07:26/23 21:12	07:16 07:41-08:00/19 20:06	08:04 18:59	07:57 08:26-08:44/18 17:01 08:45-08:54/9	08:40 16:38
14	05:45 06:15-06:30/15 21:56	06:29 07:02-07:27/25 21:10	07:17 07:42-07:59/17 20:04	08:06 18:57	07:59 08:28-08:57/29 17:00	08:41 16:38
15	05:46 06:16-06:29/13 21:55	06:30 07:01-07:27/26 21:09	07:19 07:44-07:59/15 20:02	08:07 18:54	08:01 08:30-08:58/28 16:58	08:42 16:38
16	05:47 06:17-06:28/11 21:54	06:32 07:01-07:28/27 21:07	07:20 07:45-07:58/13 19:59	08:09 18:52	08:02 08:32-09:00/28 16:57	08:43 16:38
17	05:49 06:18-06:26/8 21:53	06:33 07:00-07:28/28 21:05	07:22 07:47-07:58/11 19:57	08:11 18:50	08:04 08:34-09:01/27 16:56	08:44 16:38
18	05:50 06:19-06:23/4 21:52	06:35 07:02-07:28/26 21:03	07:24 07:48-07:56/8 19:55	08:12 18:48	08:06 08:35-09:01/26 16:54	08:44 16:39
19	05:51 21:51	06:37 07:03-07:27/24 21:01	07:25 07:50-07:55/5 19:53	08:14 18:46	08:07 08:37-09:02/25 16:53	08:45 16:39
20	05:52 21:50	06:38 07:05-07:27/22 20:59	07:27 07:52-07:53/1 19:50	08:16 08:57-09:05/8 18:44	08:09 08:39-09:03/24 16:52	08:46 16:39
21	05:54 21:49	06:40 07:06-07:26/20 20:57	07:28 07:56-08:04/8 19:48	08:17 08:54-09:07/13 18:42	08:11 08:41-09:03/22 16:51	08:46 16:40
22	05:55 21:48	06:41 07:08-07:26/18 20:54	07:30 07:55-08:06/11 19:46	08:19 08:52-09:09/17 18:40	08:12 08:43-09:04/21 16:50	08:47 16:40
23	05:56 21:46	06:43 07:09-07:25/16 20:52	07:32 07:56-08:06/10 19:43	08:21 08:51-09:10/19 18:38	08:14 08:44-09:03/19 16:49	08:47 16:41
24	05:58 06:29-06:32/3 21:45	06:44 07:11-07:24/13 20:50	07:33 07:58-08:07/9 19:41	08:23 08:51-09:11/20 18:36	08:15 08:46-09:04/18 16:48	08:48 16:41
25	05:59 06:28-06:34/6 21:44	06:46 07:12-07:22/10 20:48	07:35 07:59-08:06/7 19:39	07:24 07:51-08:11/20 17:34	08:17 08:48-09:05/17 16:47	08:48 16:42
26	06:00 06:29-06:35/6 21:42	06:48 07:14-07:21/7 20:46	07:36 08:01-08:06/5 19:37	07:26 07:53-08:11/18 17:32	08:19 08:49-09:04/15 16:46	08:49 16:43
27	06:02 06:30-06:36/6 21:41	06:49 07:15-07:17/2 20:44	07:38 08:03-08:06/3 19:34	07:28 07:54-08:11/17 17:30	08:20 08:51-09:05/14 16:45	08:49 16:43
28	06:03 06:32-06:37/5 21:40	06:51 20:42	07:39 19:32	07:29 07:56-08:11/15 17:28	08:22 08:53-09:05/12 16:44	08:49 16:44
29	06:05 06:33-06:37/4 21:38	06:52 20:40	07:41 19:30	07:31 07:58-08:10/12 17:26	08:23 08:54-09:05/11 16:43	08:49 16:45
30	06:06 06:34-06:37/3 21:37	06:54 20:37	07:43 19:28	07:33 08:00-08:10/10 17:24	08:24 08:56-09:05/9 16:43	08:49 16:46
31	06:07 06:36-06:38/2 21:35	06:55 20:35		07:35 08:27-08:35/8 17:23 08:02-08:10/8		08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	406	372	239	185	650	21

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: SWB_WT02_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

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

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

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

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

Calculated:
08/04/2026 21:58/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref A WTG: TEN_WT01 - VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	542	598	498	371	354	710	1.313	1.566	877	635	560	8.535

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:04-06:14/10	05:34 06:05-06:23/18	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35 06:04-06:15/11	05:34 06:04-06:23/19	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:03-06:16/13	05:35 06:05-06:23/18	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:02-06:16/14	05:36 06:06-06:24/18	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:02-06:17/15	05:36 06:06-06:23/17	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:17/16	05:37 06:07-06:23/16	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:18/17	05:38 06:08-06:23/15	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32 06:00-06:17/17	05:39 06:09-06:23/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 06:00-06:18/18	05:40 06:10-06:23/13	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:19/19	05:41 06:11-06:23/12	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:01-06:19/18	05:42 06:12-06:23/11	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:00-06:19/19	05:43 06:13-06:22/9	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:00-06:19/19	05:44 06:14-06:22/8	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 06:01-06:19/18	05:45 06:15-06:21/6	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 06:01-06:20/19	05:46 06:16-06:19/3	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 06:01-06:20/19	05:47	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 06:01-06:20/19	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29 06:01-06:20/19	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29 06:02-06:21/19	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 06:02-06:21/19	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30 06:02-06:21/19	05:54	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:03-06:22/19	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:03-06:22/19	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30 06:02-06:22/20	05:58	06:44	07:33	08:23	08:16	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31 06:03-06:22/19	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:03-06:22/19	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31 06:03-06:22/19	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:07-06:08/1	05:32 06:04-06:23/19	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:07-06:12/5	05:32 06:03-06:22/19	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:13/7	05:33 06:04-06:23/19	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:05-06:14/9		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	22	529	197	0	0	0	0	0

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

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

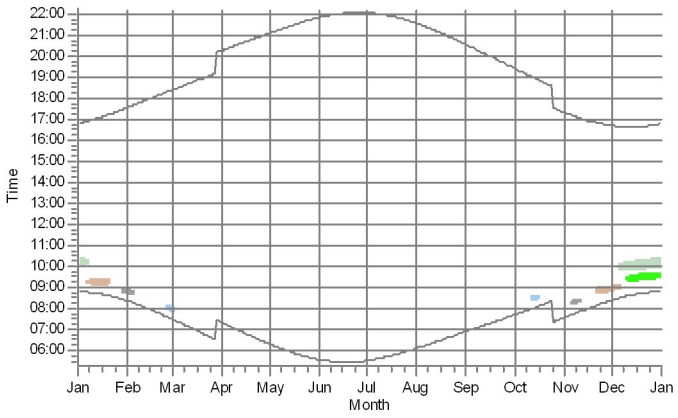
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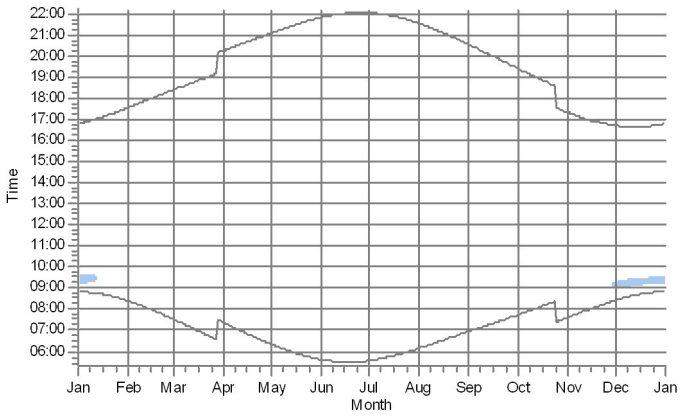
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref A

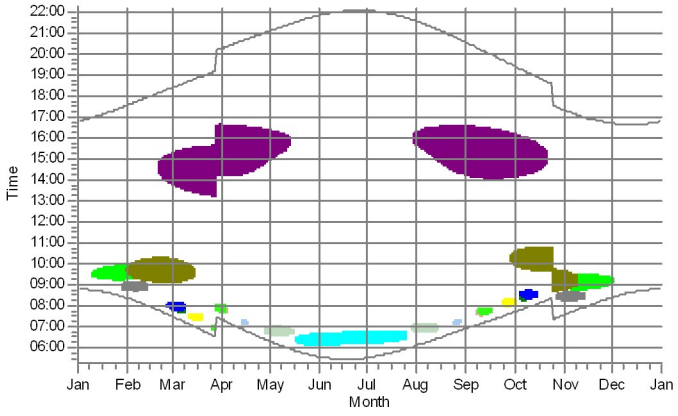
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 1



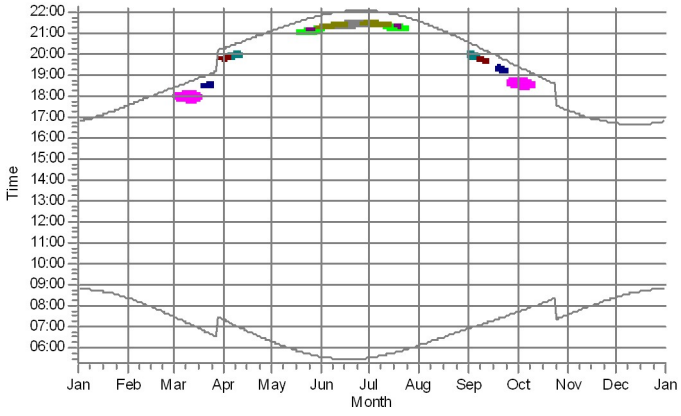
ATS_WT01: NORDEX N149/5.X-pow ercurve 5700 149.0 !O! hub: 156,5 m



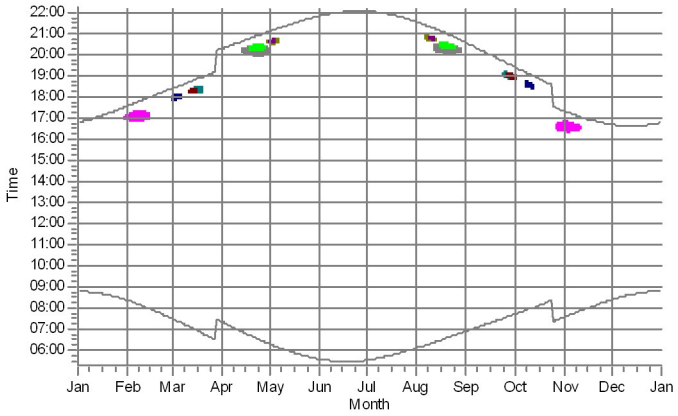
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 r



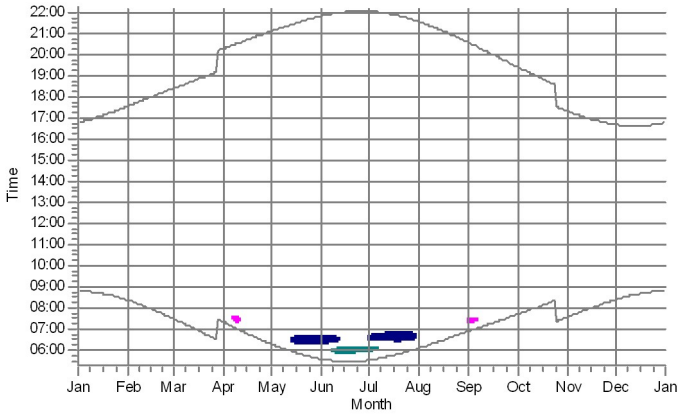
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

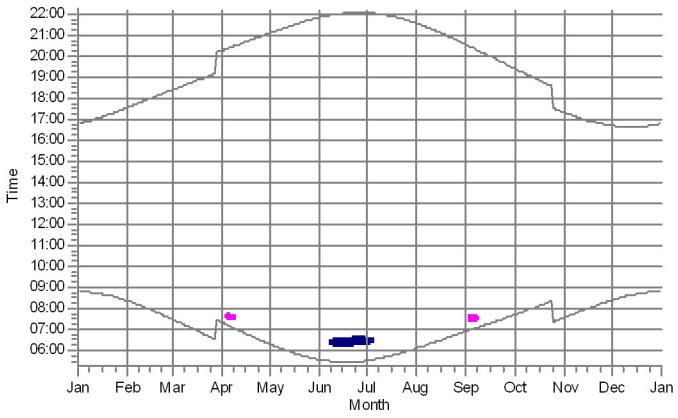
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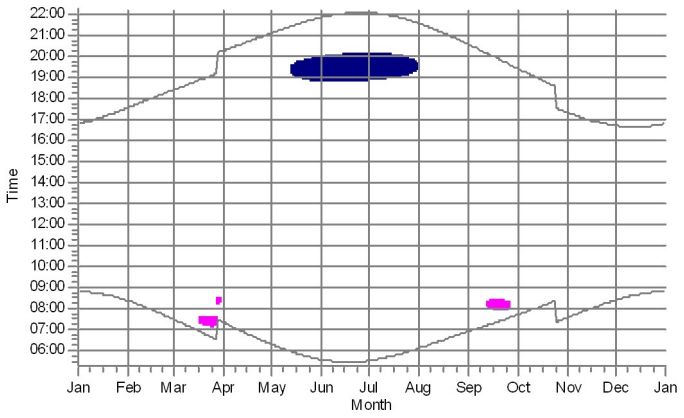
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref A

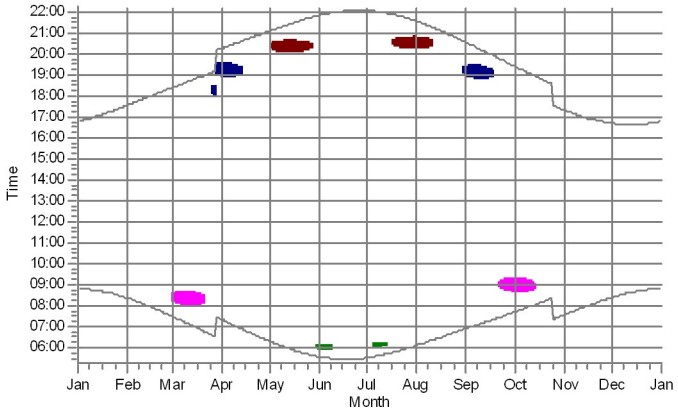
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



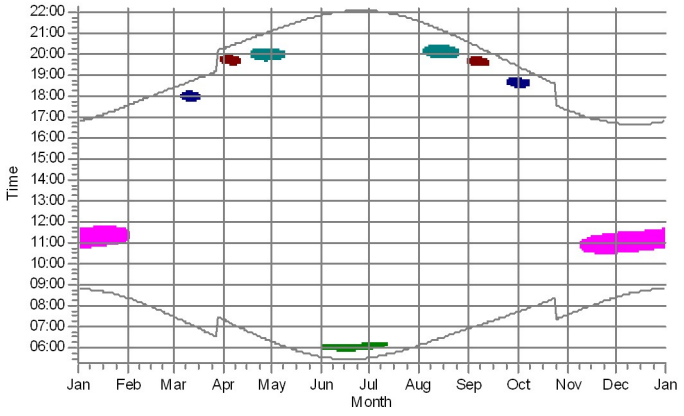
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



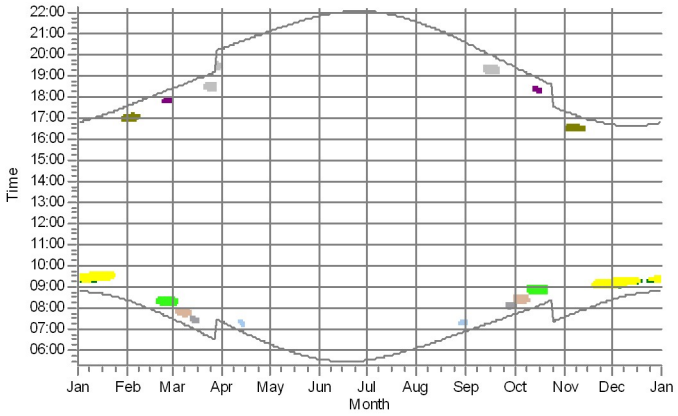
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



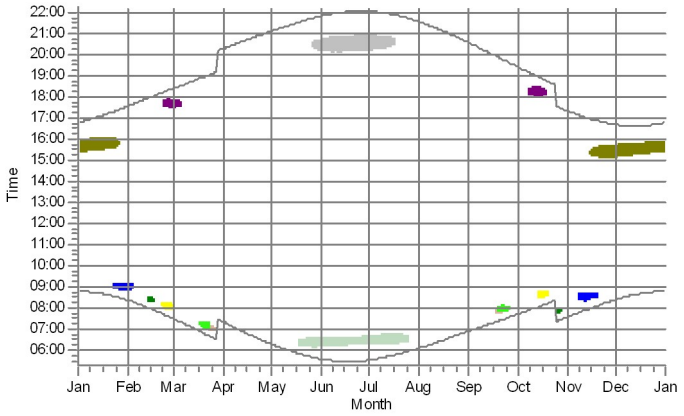
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



Shadow receptors

1: Hoogstraat 54, 9940 Evergem	7: Christoffel Columbuslaan 23, 9042 Gent	14: Abdijdreef 2, 9940 Evergem
2: Pachtgoederen 2, 9940 Evergem	8: Christoffel Columbuslaan 17, 9042 Gent	15: Hageland 14, 9940 Evergem
3: Pachtgoederen 2, 9940 Evergem	10: Willem van Rubroeckstraat 26, 9042 Gent	16: Molendreef 5, 9940 Evergem
5: Pelikaanstraat 60, 9940 Evergem	11: Arbedkaai 3, 9042 Gent	17: Amerigo Vespuccistraat 2A, 9940 Evergem
6: Christoffel Columbuslaan 23, 9042 Gent	12: Terdonkkaai 8, 9042 Gent	18: Pachtgoederen 1, 9940 Evergem

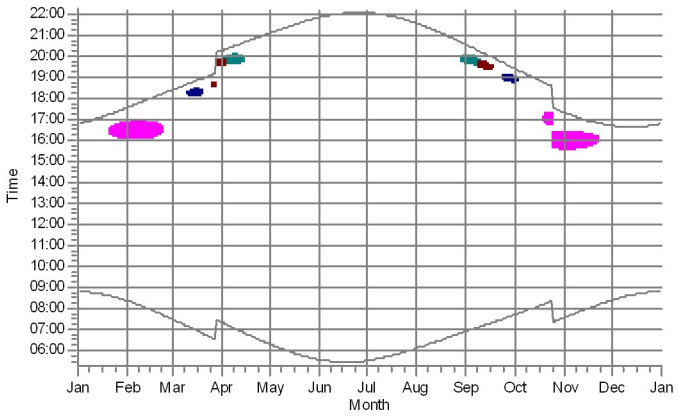
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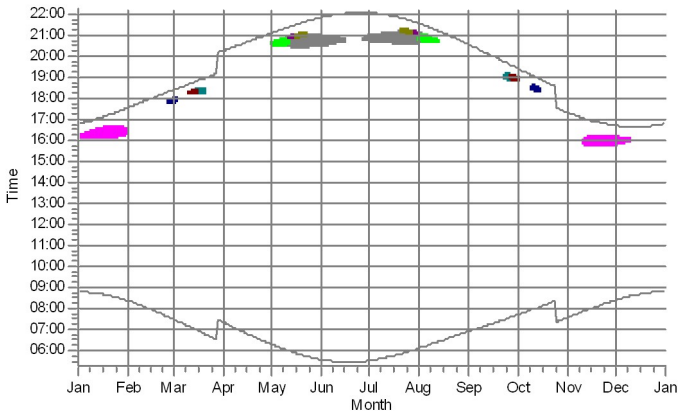
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref A

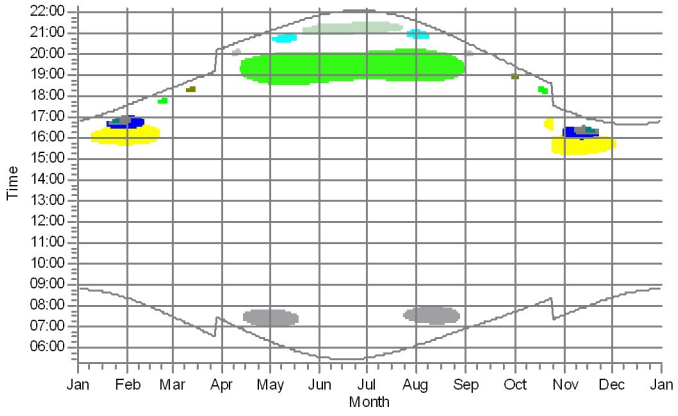
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



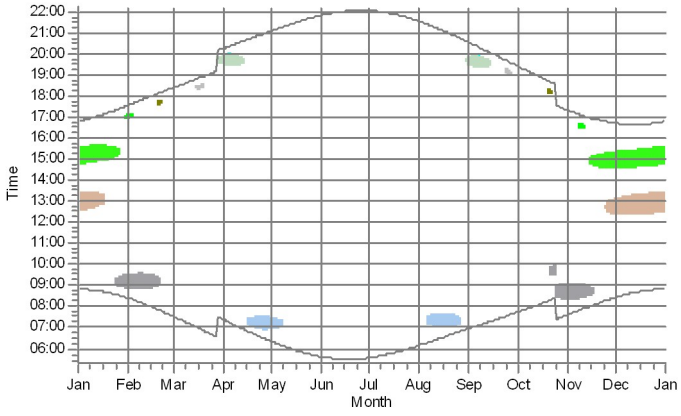
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



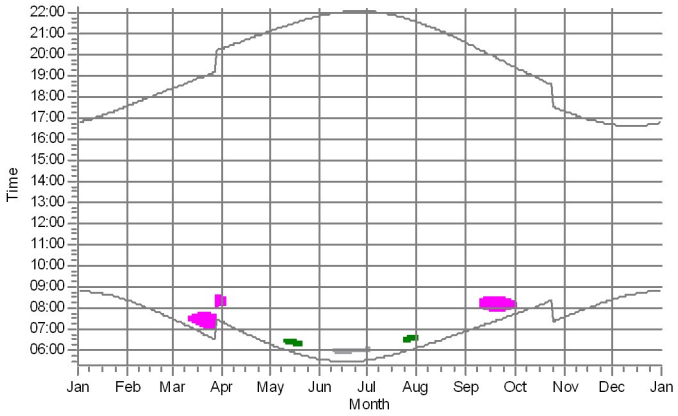
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



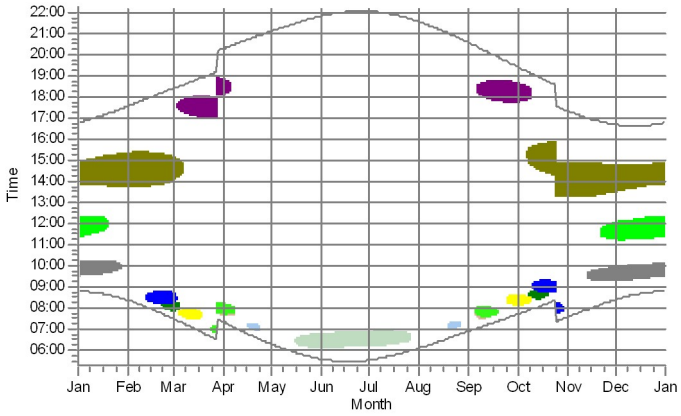
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 25



Shadow receptors

1: Hoogstraat 54, 9940 Evergem	7: Christoffel Columbuslaan 23, 9042 Gent	13: Doornzele Dries 107, 9940 Evergem
2: Pachtgoederen 2, 9940 Evergem	8: Christoffel Columbuslaan 17, 9042 Gent	14: Abdijdreef 2, 9940 Evergem
3: Pachtgoederen 2, 9940 Evergem	9: Willem van Rubroeckstraat 2, 9042 Gent	15: Hageland 14, 9940 Evergem
4: James Cookstraat 10, 9042 Gent	10: Willem van Rubroeckstraat 26, 9042 Gent	16: Molendreef 5, 9940 Evergem
5: Pelikaanstraat 60, 9940 Evergem	11: Arbedkaai 3, 9042 Gent	17: Amerigo Vespuccistraat 2A, 9940 Evergem
6: Christoffel Columbuslaan 23, 9042 Gent	12: Terdonkkaai 8, 9042 Gent	18: Pachtgoederen 1, 9940 Evergem

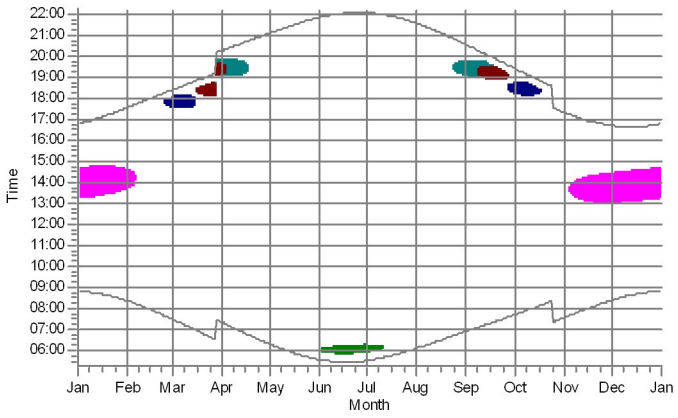
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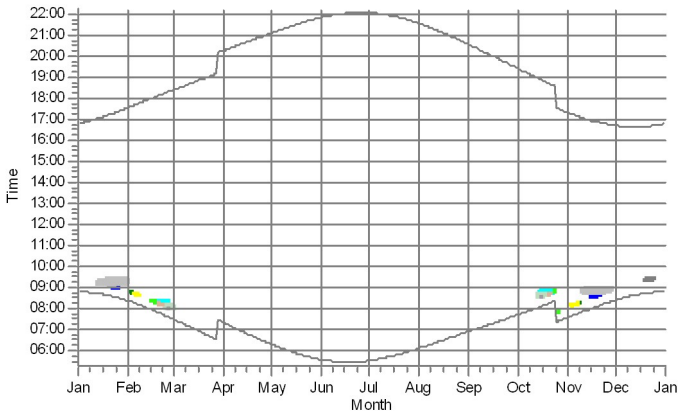
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref A

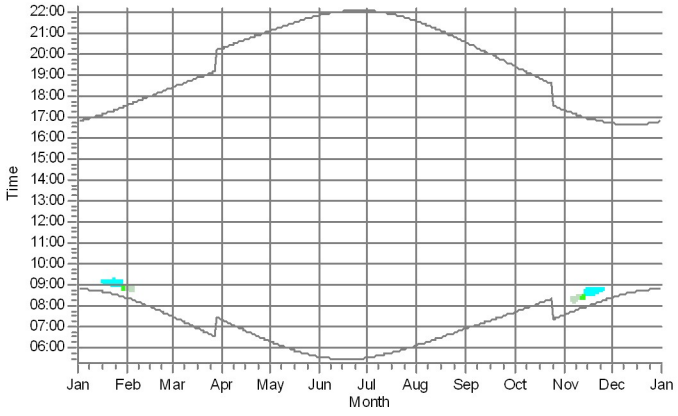
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



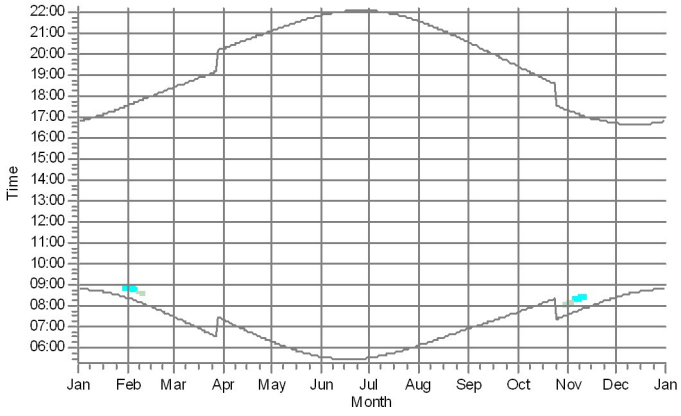
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238



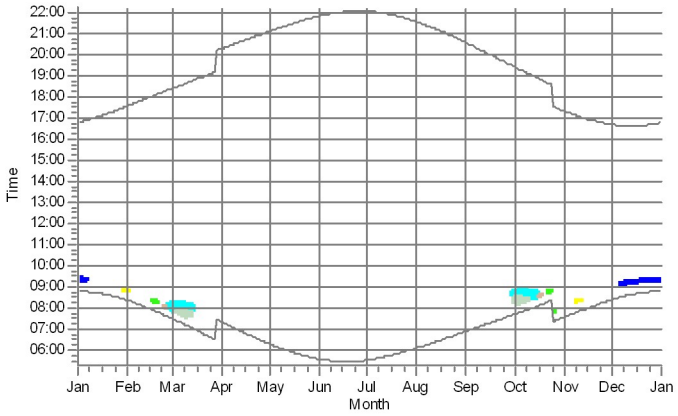
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



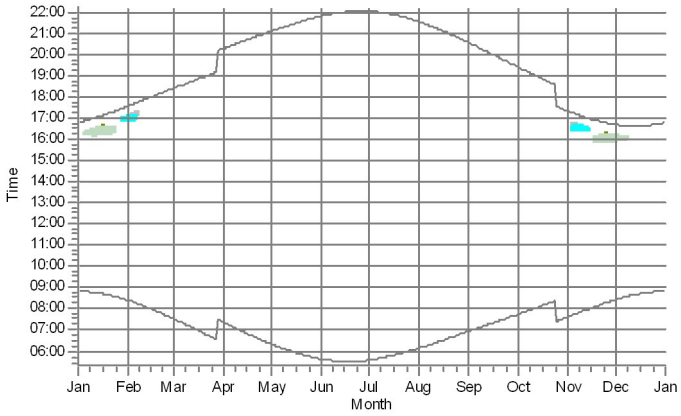
MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 21



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

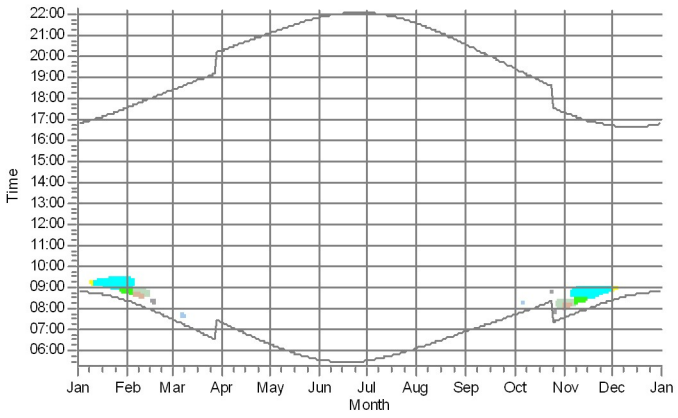
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Calculated:
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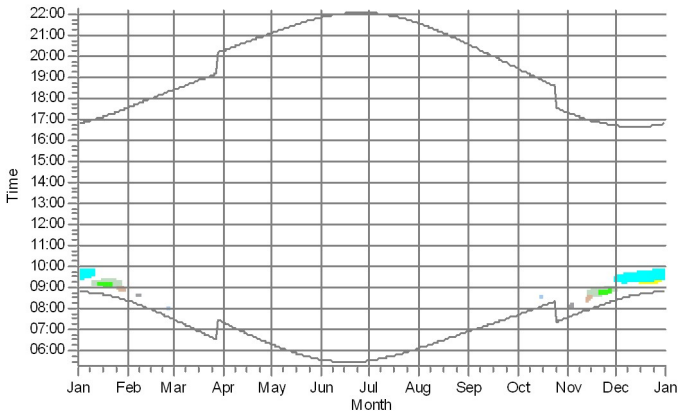
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref A

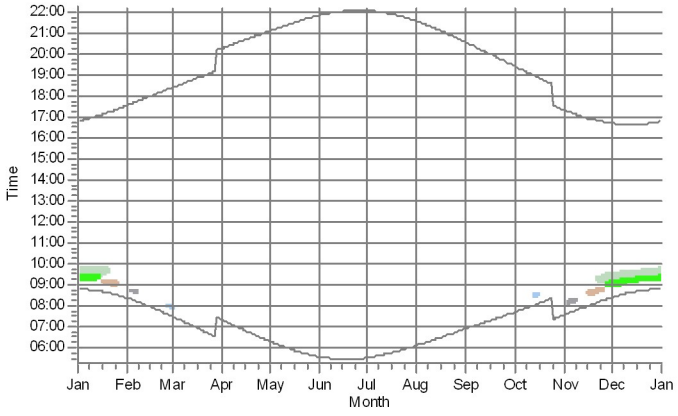
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 19



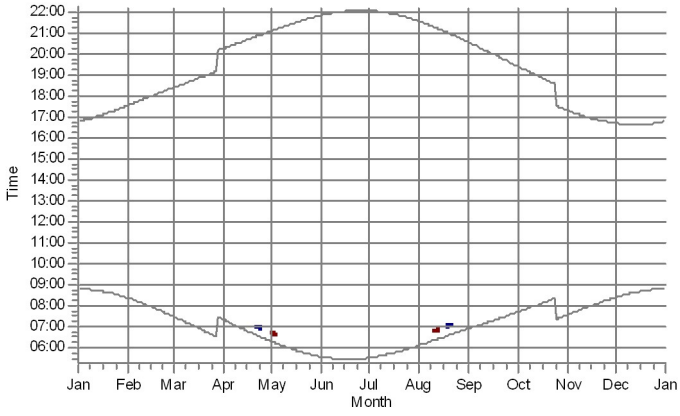
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 19



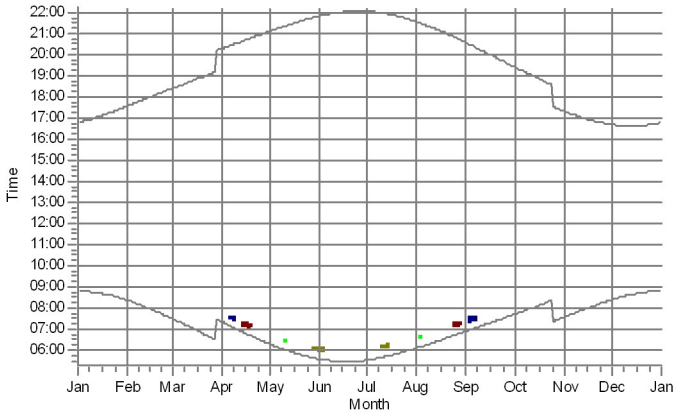
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 19



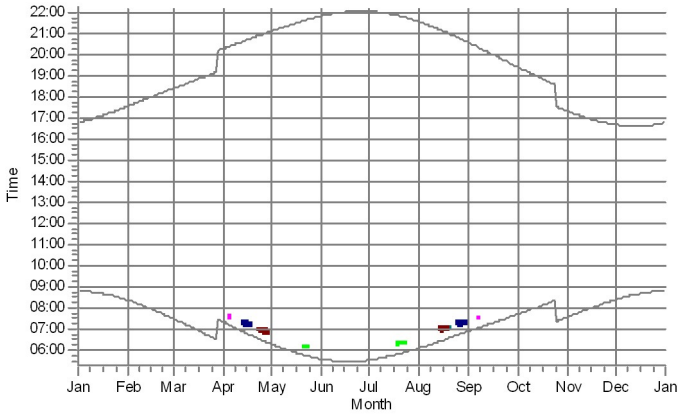
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

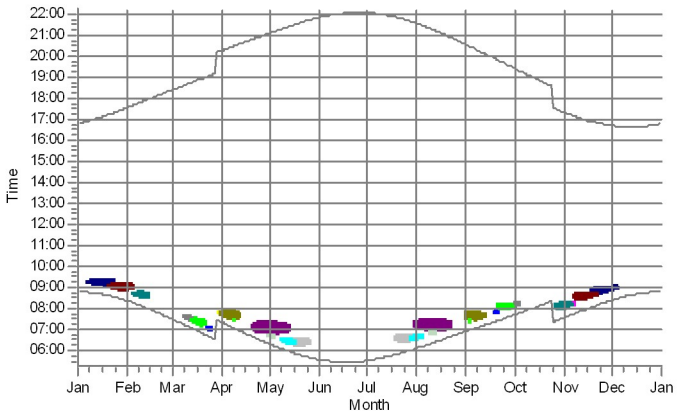
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Calculated:
08/04/2026 21:58/4.1.264

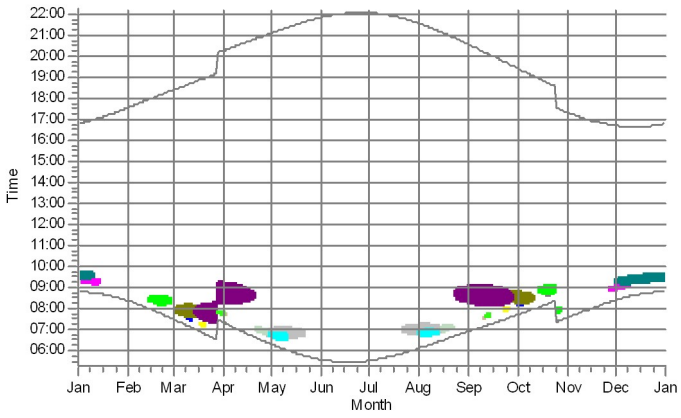
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref A

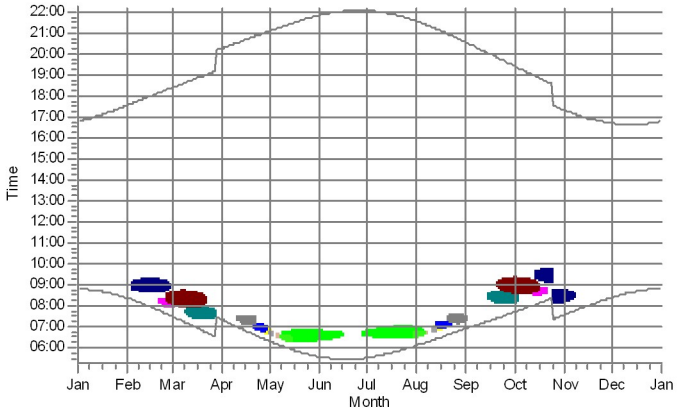
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



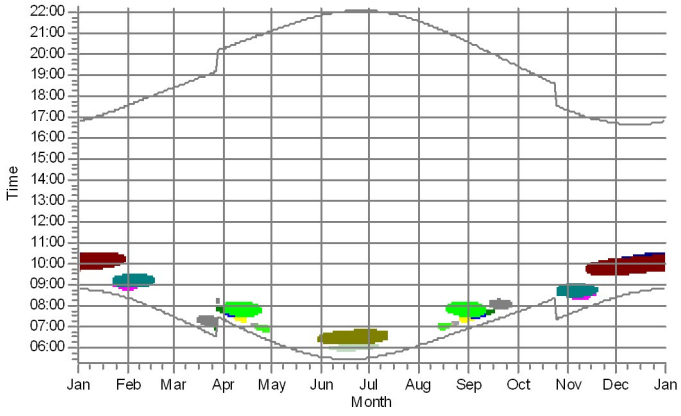
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



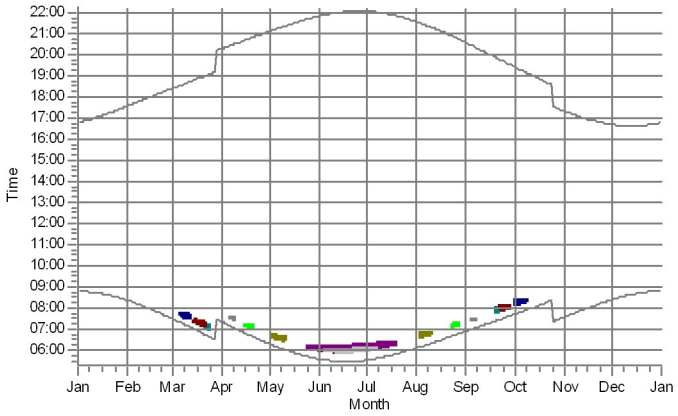
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



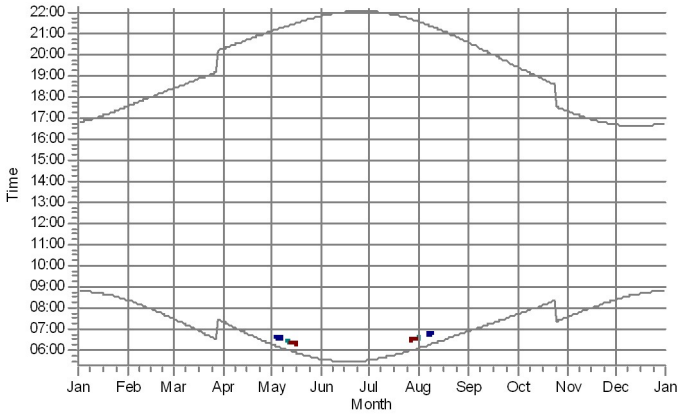
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0



SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

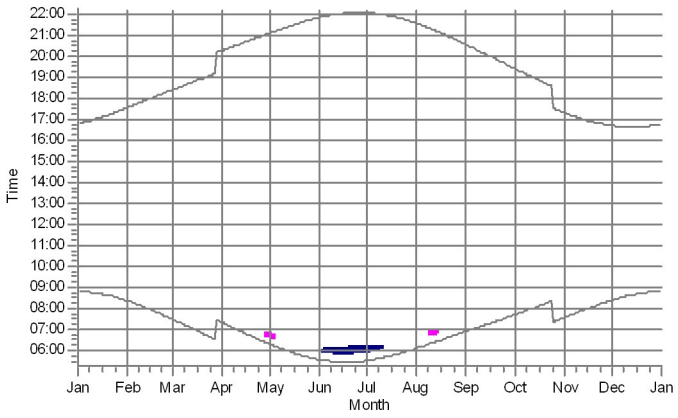
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Calculated:
08/04/2026 21:58/4.1.264

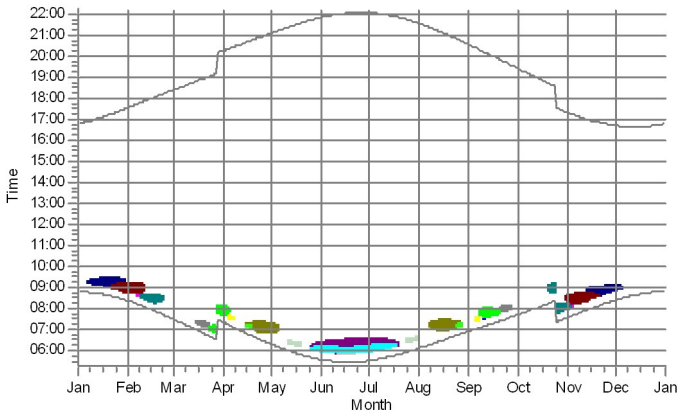
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref A

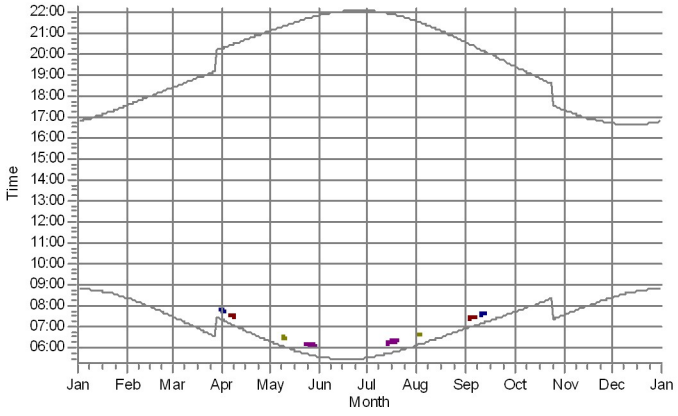
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



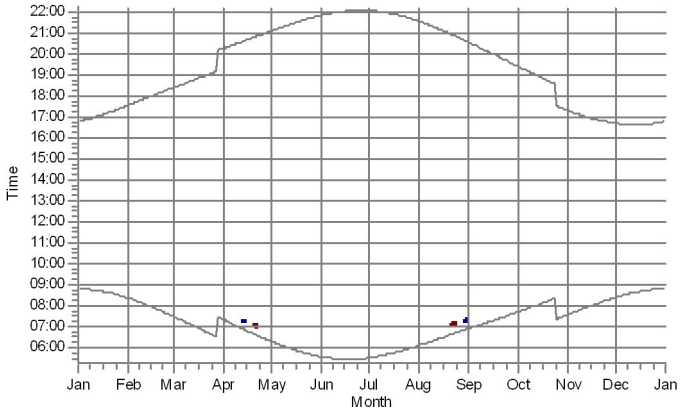
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



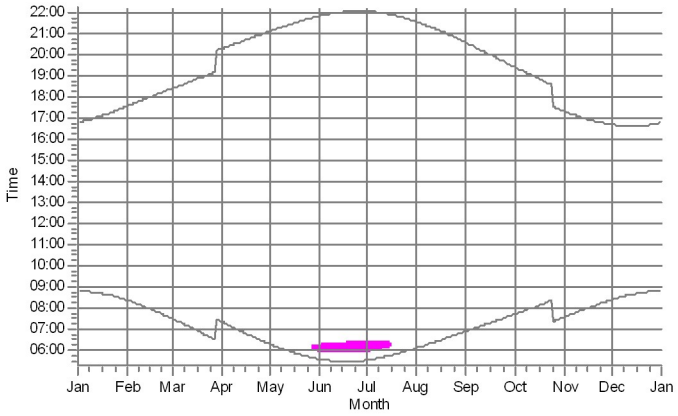
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!



SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!



TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 r



Shadow receptors

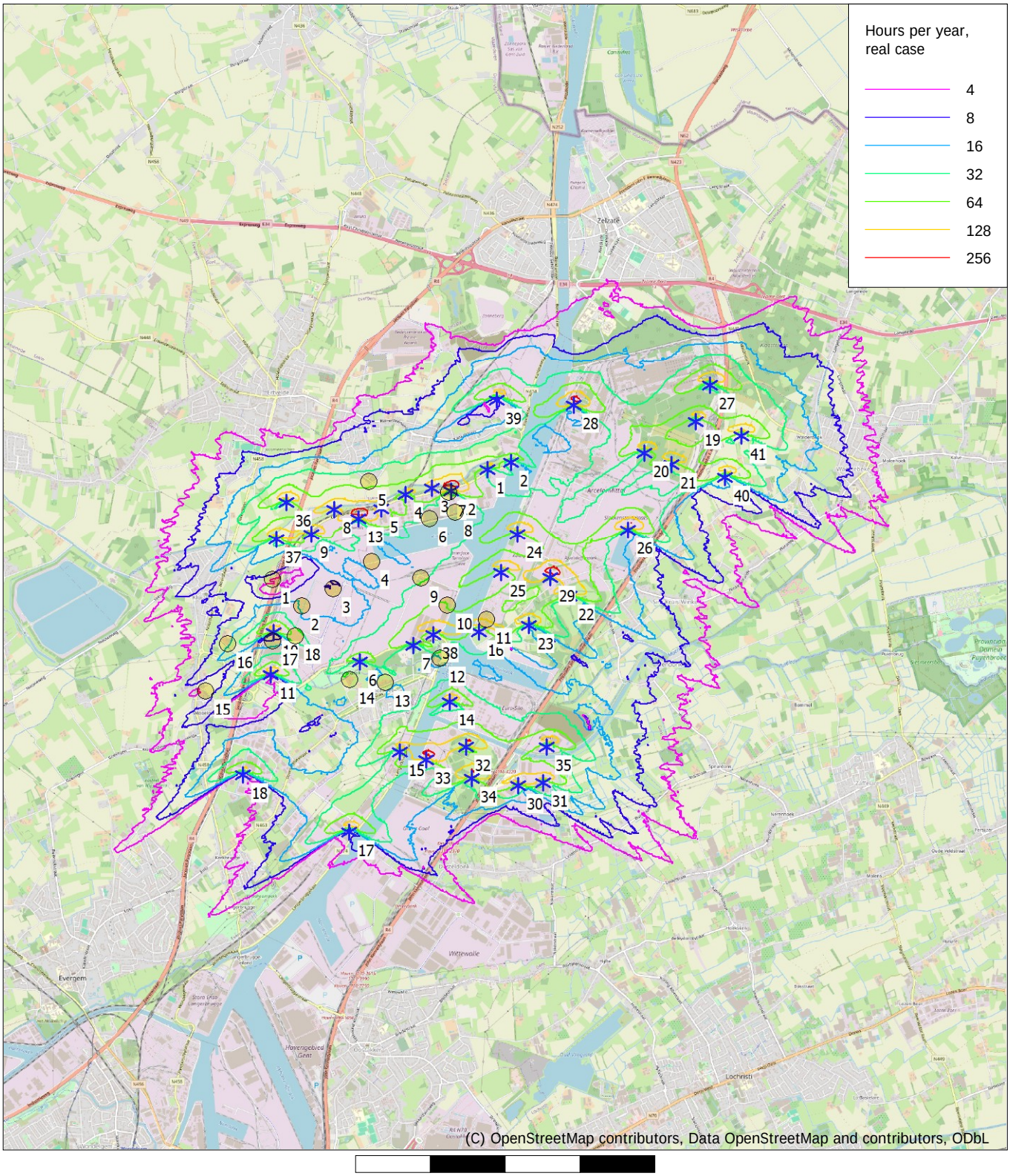
- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
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- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

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SHADOW - Map

Calculation: Slagschaduw Windpark Armasteel - Ref A



Map: EMD OpenStreetMap , Print scale 1:75.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 109.460 North: 205.320

Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Ref B

Assumptions for shadow calculations

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

Sunshine probability S (Average daily sunshine hours) []

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

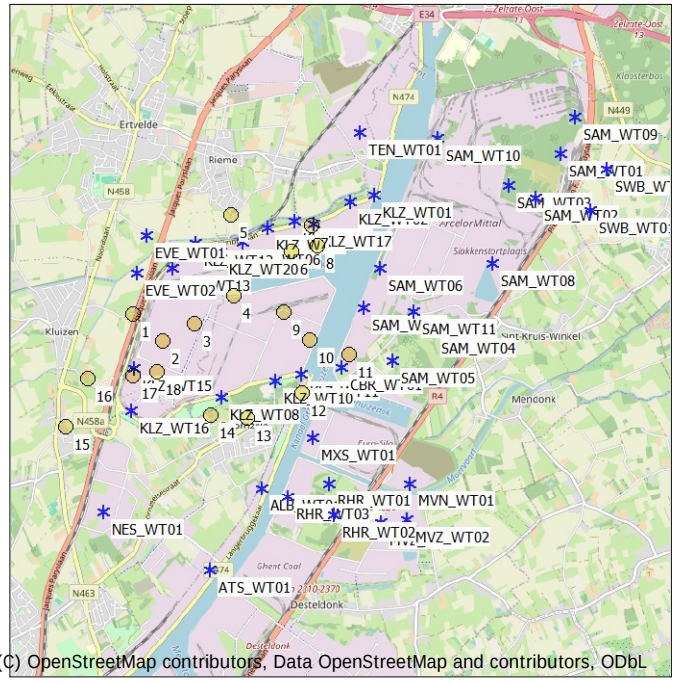
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

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



Scale 1:100.000

Existing WTG Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
ALB_WT01	108.129	203.056	6,8	ENERCON E-115 EP3 E...	No	ENERCON	E-115 EP3 E3-4.200	4.200	115,7	135,0	100.000	12,9
ATS_WT01	107.438	201.986	6,5	NORDEX N149/5.X-po...	Yes	NORDEX	N149/5.X-powercurve-5.700	5.700	149,0	156,5	100.000	10,7
CBR_WT01	109.199	204.660	5,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	165,0	100.000	10,4
EVE_WT01	106.632	206.417	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
EVE_WT02	106.491	205.925	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
KLZ_WT01	109.653	206.929	5,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT02	109.337	206.834	6,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT04	108.595	206.585	5,7	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT05	108.233	206.502	6,1	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT06	107.898	206.322	5,5	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT08	107.596	204.270	7,4	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT10	108.320	204.485	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT11	108.672	204.558	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT12	107.283	206.313	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT13	106.963	205.983	6,4	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT15	106.447	204.659	9,6	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT16	106.409	204.106	5,8	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT17	108.845	206.555	5,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT20	107.601	206.186	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
MVN_WT01	110.103	203.099	14,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	164,0	100.000	10,7
MVZ_WT01	109.715	202.591	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MVZ_WT02	110.052	202.627	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MXS_WT01	108.810	203.720	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
NES_WT01	106.019	202.761	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	147,0	100.000	12,1
RHR_WT01	109.022	203.110	6,7	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT02	109.082	202.694	10,0	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT03	108.481	202.945	6,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
SAM_WT01	112.131	207.449	8,3	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT02	111.799	206.878	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT03	111.438	207.038	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT04	110.414	205.130	10,0	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT05	109.878	204.734	9,9	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT06	109.720	205.956	9,1	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT07	109.509	205.446	5,6	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT08	111.215	206.006	10,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	123,0	100.000	10,4
SAM_WT09	112.321	207.938	9,4	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	149,0	100.000	-

To be continued on next page...

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Ref B

...continued from previous page

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
SAM_WT10	110.490	207.672	5,8	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SAM_WT11	110.164	205.375	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SWB_WT01_RP	112.521	206.699	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
SWB_WT02_RP	112.740	207.253	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
TEN_WT01	109.463	207.750	10,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	165,0	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	James Cookstraat 10, 9042 Gent	107.778	205.604	8,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Pelikaanstraat 60, 9940 Evergem	107.756	206.679	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 17, 9042 Gent	108.899	206.258	5,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Willem van Rubroeckstraat 26, 9042 Gent	108.776	205.017	5,7	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 14, 9940 Evergem	105.526	203.893	6,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow, expected values Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	17:07	160	0:15	4:04
2	Pachtgoederen 2, 9940 Evergem	76:26	201	0:54	14:20
3	Pachtgoederen 2, 9940 Evergem	34:58	174	0:40	6:49
4	James Cookstraat 10, 9042 Gent	72:08	257	0:34	16:31
5	Pelikaanstraat 60, 9940 Evergem	296:36	282	2:30	54:46
6	Christoffel Columbuslaan 23, 9042 Gent	106:42	258	0:57	23:12
7	Christoffel Columbuslaan 23, 9042 Gent	181:57	319	1:37	41:52
8	Christoffel Columbuslaan 17, 9042 Gent	124:20	277	0:52	23:41
9	Willem van Rubroeckstraat 2, 9042 Gent	100:46	278	0:39	23:17
10	Willem van Rubroeckstraat 26, 9042 Gent	171:03	319	1:15	35:27
11	Arbedkaai 3, 9042 Gent	394:29	229	3:15	114:55
12	Terdonkkaai 8, 9042 Gent	68:13	197	0:43	17:06
13	Doornzele Dries 107, 9940 Evergem	96:17	271	0:42	21:43
14	Abdijdreef 2, 9940 Evergem	123:36	300	0:46	26:39
15	Hageland 14, 9940 Evergem	23:59	108	0:28	5:40
16	Molendreef 5, 9940 Evergem	63:54	165	0:42	14:52
17	Amerigo Vespuccistraat 2A, 9940 Evergem	50:47	166	0:50	8:23
18	Pachtgoederen 1, 9940 Evergem	232:51	298	1:28	54:43

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

No.	Name	Worst case [h/year]	Expected [h/year]
ALB_WT01	ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)	17:03	2:13
ATS_WT01	NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)	7:12	0:51
CBR_WT01	VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)	430:39	115:45
EVE_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)	26:19	6:25

To be continued on next page...

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Ref B

...continued from previous page

No.	Name	Worst case [h/year]	Expected [h/year]
EVE_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)	20:46	4:51
KLZ_WT01	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)	18:12	5:32
KLZ_WT02	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)	7:31	2:15
KLZ_WT04	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)	79:48	19:09
KLZ_WT05	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)	50:48	12:10
KLZ_WT06	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)	89:19	16:19
KLZ_WT08	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)	32:24	5:40
KLZ_WT10	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)	82:36	18:36
KLZ_WT11	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)	32:26	6:38
KLZ_WT12	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)	48:00	10:25
KLZ_WT13	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)	52:43	11:43
KLZ_WT15	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)	288:02	71:16
KLZ_WT16	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)	132:45	24:33
KLZ_WT17	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)	20:21	4:59
KLZ_WT20	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)	156:49	31:12
MVN_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)	17:38	2:38
MVZ_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)	5:06	0:43
MVZ_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)	2:40	0:24
MXS_WT01	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)	19:46	3:42
NES_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)	12:10	2:12
RHR_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)	22:52	3:19
RHR_WT02	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)	19:42	2:28
RHR_WT03	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)	29:02	3:37
SAM_WT01	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)	0:22	0:06
SAM_WT02	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)	1:33	0:27
SAM_WT03	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)	2:47	0:49
SAM_WT04	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)	52:50	12:55
SAM_WT05	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)	105:12	24:27
SAM_WT06	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)	99:16	23:12
SAM_WT07	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)	121:15	24:32
SAM_WT08	VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)	17:56	5:08
SAM_WT09	VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)	0:53	0:16
SAM_WT10	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)	5:34	1:42
SAM_WT11	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)	72:17	17:07
SWB_WT01_RP	VESTAS V150-6.0 6000 150.0 !O!	1:23	0:24
SWB_WT02_RP	VESTAS V150-6.0 6000 150.0 !O!	0:13	0:03
TEN_WT01	VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)	12:28	3:49

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

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

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SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	January			February			March			April			May			June		
1	08:50		09:20 (KLZ_WT08)	08:24			07:32			07:23		07:48 (SAM_WT07)	06:20			05:36		06:04 (KLZ_WT05)
	16:48	5	09:25 (KLZ_WT08)	17:35			18:25			20:17	6	07:54 (SAM_WT07)	21:06			21:51	2	06:06 (KLZ_WT05)
2	08:50		09:20 (KLZ_WT08)	08:23		08:48 (MVN_WT01)	07:30		07:53 (CBR_WT01)	07:21			06:18			05:36		06:04 (KLZ_WT05)
	16:49	6	09:26 (KLZ_WT08)	17:37	1	08:49 (MVN_WT01)	18:27	1	07:54 (CBR_WT01)	20:19			21:08			21:52	3	06:07 (KLZ_WT05)
3	08:49		09:20 (KLZ_WT08)	08:21		08:46 (MVN_WT01)	07:28		07:51 (CBR_WT01)	07:19			06:17			05:35		06:03 (KLZ_WT05)
	16:50	7	09:27 (KLZ_WT08)	17:38	2	08:48 (MVN_WT01)	18:28	4	07:55 (CBR_WT01)	20:20			21:10			21:53	3	06:06 (KLZ_WT05)
4	08:49		09:19 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (CBR_WT01)	07:17			06:15			05:34		06:02 (KLZ_WT05)
	16:51	7	09:26 (KLZ_WT08)	17:40	1	08:46 (MVN_WT01)	18:30	6	07:55 (CBR_WT01)	20:22			21:11			21:54	4	06:06 (KLZ_WT05)
5	08:49		09:19 (KLZ_WT08)	08:18			07:24		07:47 (CBR_WT01)	07:14			06:13			05:34		06:02 (KLZ_WT05)
	16:53	8	09:27 (KLZ_WT08)	17:42			18:32	8	07:55 (CBR_WT01)	20:24			21:13			21:55	5	06:07 (KLZ_WT20)
6	08:49		09:18 (KLZ_WT08)	08:16			07:22		07:44 (CBR_WT01)	07:12			06:11			05:33		06:01 (KLZ_WT05)
	16:54	9	09:27 (KLZ_WT08)	17:44			18:33	10	07:54 (CBR_WT01)	20:25			21:14			21:56	6	06:07 (KLZ_WT20)
7	08:48		09:18 (KLZ_WT08)	08:15			07:19		07:43 (CBR_WT01)	07:10			06:09			05:32		06:01 (KLZ_WT05)
	16:55	10	09:28 (KLZ_WT08)	17:46			18:35	10	07:53 (CBR_WT01)	20:27			21:16			21:57	7	06:08 (KLZ_WT20)
8	08:48		09:17 (KLZ_WT08)	08:13			07:17		07:45 (CBR_WT01)	07:08			06:08			05:32		06:01 (KLZ_WT06)
	16:56	11	09:28 (KLZ_WT08)	17:47			18:37	6	07:51 (CBR_WT01)	20:29			21:18			21:57	9	06:10 (KLZ_WT20)
9	08:48		09:18 (KLZ_WT08)	08:11			07:15			07:06			06:06			05:31		06:00 (KLZ_WT06)
	16:58	11	09:29 (KLZ_WT08)	17:49			18:39			20:30			21:19			21:58	9	06:09 (KLZ_WT20)
10	08:47		09:18 (KLZ_WT08)	08:09			07:13		07:35 (SAM_WT05)	07:03			06:04			05:31		06:00 (KLZ_WT06)
	16:59	11	09:29 (KLZ_WT08)	17:51			18:40	1	07:36 (SAM_WT05)	20:32			21:21			21:59	10	06:10 (KLZ_WT20)
11	08:47		09:15 (RHR_WT01)	08:08			07:11		07:33 (SAM_WT05)	07:01		07:24 (SAM_WT06)	06:03		06:28 (KLZ_WT17)	05:31		06:00 (KLZ_WT06)
	17:00	12	09:29 (KLZ_WT08)	17:53			18:42	2	07:35 (SAM_WT05)	20:34	1	07:25 (SAM_WT06)	21:22	1	06:29 (KLZ_WT17)	22:00	11	06:11 (KLZ_WT20)
12	08:46		09:15 (RHR_WT01)	08:06			07:08			06:59		07:21 (SAM_WT06)	06:01		06:26 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:02	11	09:29 (KLZ_WT08)	17:55			18:44			20:35	3	07:24 (SAM_WT06)	21:24	3	06:29 (KLZ_WT17)	22:00	12	06:11 (KLZ_WT20)
13	08:45		09:14 (RHR_WT01)	08:04			07:06			06:57		07:19 (SAM_WT06)	06:00		06:25 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:03	10	09:29 (KLZ_WT08)	17:56			18:45			20:37	5	07:24 (SAM_WT06)	21:25	4	06:29 (KLZ_WT17)	22:01	12	06:11 (KLZ_WT20)
14	08:45		09:13 (RHR_WT01)	08:02		08:26 (KLZ_WT10)	07:04			06:55		07:17 (SAM_WT06)	05:58		06:23 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:05	8	09:28 (KLZ_WT08)	17:58	2	08:28 (KLZ_WT10)	18:47			20:39	6	07:23 (SAM_WT06)	21:27	5	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
15	08:44			08:00		08:24 (KLZ_WT10)	07:02			06:53		07:15 (SAM_WT06)	05:56		06:22 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:06			18:00	3	08:27 (KLZ_WT10)	18:49			20:40	6	07:21 (SAM_WT06)	21:28	6	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
16	08:43			07:58		08:22 (KLZ_WT10)	06:59			06:50			05:55		06:21 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:08			18:02	4	08:26 (KLZ_WT10)	18:51			20:42			21:30	7	06:28 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
17	08:42			07:57			06:57			06:48			05:54		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:09			18:04			18:52			20:43			21:31	8	06:27 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
18	08:41			07:55			06:55			06:46			05:52		06:18 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:11			18:05			18:54			20:45			21:33	8	06:26 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
19	08:40			07:53			06:53			06:44			05:51		06:17 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:12			18:07			18:56			20:47			21:34	8	06:25 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
20	08:39			07:51			06:50			06:42			05:49		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:14			18:09			18:57			20:48			21:35	5	06:24 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
21	08:38			07:49			06:48			06:40			05:48			05:30		05:59 (KLZ_WT06)
	17:16			18:11			18:59			20:50			21:37			22:04	15	06:14 (KLZ_WT20)
22	08:37			07:47			06:46			06:38			05:47			05:30		06:00 (KLZ_WT06)
	17:17			18:12			19:01			20:52			21:38			22:05	14	06:14 (KLZ_WT20)
23	08:36			07:45		08:08 (KLZ_WT11)	06:44			06:36			05:46			05:30		06:00 (KLZ_WT06)
	17:19			18:14	1	08:09 (KLZ_WT11)	19:02			20:53			21:40			22:05	14	06:14 (KLZ_WT20)
24	08:35			07:43			06:41			06:34			05:44			05:31		06:00 (KLZ_WT06)
	17:21			18:16			19:04			20:55			21:41			22:05	14	06:14 (KLZ_WT20)
25	08:34			07:41			06:39			06:32			05:43			05:31		06:01 (KLZ_WT06)
	17:22			18:18			19:06			20:57			21:42			22:05	14	06:15 (KLZ_WT20)
26	08:32			07:39			06:37			06:30			05:42			05:31		06:01 (KLZ_WT06)
	17:24			18:20			19:07			20:58			21:43			22:05	14	06:15 (KLZ_WT20)
27	08:31			07:36			06:35		06:57 (SAM_WT11)	06:28			05:41			05:32		06:02 (KLZ_WT06)
	17:26			18:21			19:09	1	06:58 (SAM_WT11)	21:00			21:45			22:05	13	06:15 (KLZ_WT20)
28	08:30			07:34			06:32		06:55 (SAM_WT07)	06:26			05:40			05:32		06:02 (KLZ_WT06)
	17:28			18:23			19:10	3	06:58 (SAM_WT07)	21:01			21:46			22:05	13	06:15 (KLZ_WT20)
29	08:28						07:30		07:52 (SAM_WT07)	06:24			05:39			05:33		06:03 (KLZ_WT06)
	17:29						20:12	5	07:57 (SAM_WT07)	21:03			21:47			22:05	13	06:16 (KLZ_WT20)
30	08:27						07:28		07:50 (SAM_WT07)	06:22			05:38			05:33		06:03 (KLZ_WT06)
	17:31						20:14	6	07:56 (SAM_WT07)	21:05			21:48			22:05	12	06:15 (KLZ_WT20)
31	08:26						07:26		07:48 (SAM_WT07)				05:37		06:05 (KLZ_WT05)			
	17:33						20:15	8	07:56 (SAM_WT07)				21:49	1	06:06 (KLZ_WT05)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		126			14			71			27			56			325	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,56			0,58			0,64			0,70			0,71	
Total reduction		0,13			0,16			0,21			0,29			0,31			0,31	
Total, real		16			2			15			8			17			100	

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

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

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Calculated:
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SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT06)	06:09		06:37 (KLZ_WT17)	06:57		07:23 (SAM_WT06)	07:45			07:37			08:26		08:57 (RHR_WT01)
	22:04	11	06:15 (KLZ_WT20)	21:34	2	06:39 (KLZ_WT17)	20:33	1	07:24 (SAM_WT06)	19:25			17:21			16:42	12	09:11 (KLZ_WT08)
2	05:35		06:04 (KLZ_WT06)	06:11			06:59			07:46		08:11 (SAM_WT05)	07:38			08:27		09:01 (KLZ_WT08)
	22:04	11	06:15 (KLZ_WT20)	21:32			20:31			19:23	2	08:13 (SAM_WT05)	17:19			16:42	11	09:12 (KLZ_WT08)
3	05:35		06:05 (KLZ_WT06)	06:12			07:00			07:48		08:12 (SAM_WT05)	07:40			08:29		09:01 (KLZ_WT08)
	22:04	10	06:15 (KLZ_WT20)	21:30			20:29			19:21	2	08:14 (SAM_WT05)	17:17			16:41	11	09:12 (KLZ_WT08)
4	05:36		06:06 (KLZ_WT06)	06:14			07:02			07:49			07:42			08:30		09:02 (KLZ_WT08)
	22:03	9	06:15 (KLZ_WT20)	21:29			20:27			19:19			17:16			16:40	11	09:13 (KLZ_WT08)
5	05:37		06:07 (KLZ_WT05)	06:15			07:03			07:51		08:23 (CBR_WT01)	07:44			08:31		09:03 (KLZ_WT08)
	22:03	8	06:15 (KLZ_WT20)	21:27			20:24			19:17	4	08:27 (CBR_WT01)	17:14			16:40	10	09:13 (KLZ_WT08)
6	05:38		06:07 (KLZ_WT05)	06:17			07:05			07:53		08:20 (CBR_WT01)	07:45			08:33		09:04 (KLZ_WT08)
	22:02	7	06:14 (KLZ_WT20)	21:25			20:22			19:14	8	08:28 (CBR_WT01)	17:12			16:40	9	09:13 (KLZ_WT08)
7	05:38		06:08 (KLZ_WT05)	06:18			07:07			07:54		08:19 (CBR_WT01)	07:47		08:15 (MVN_WT01)	08:34		09:06 (KLZ_WT08)
	22:02	6	06:14 (KLZ_WT20)	21:24			20:20			19:12	11	08:30 (CBR_WT01)	17:11	2	08:17 (MVN_WT01)	16:39	8	09:14 (KLZ_WT08)
8	05:39		06:09 (KLZ_WT05)	06:20			07:08			07:56		08:21 (CBR_WT01)	07:49		08:17 (MVN_WT01)	08:35		09:07 (KLZ_WT08)
	22:01	4	06:13 (KLZ_WT05)	21:22			20:18			19:10	9	08:30 (CBR_WT01)	17:09	2	08:19 (MVN_WT01)	16:39	8	09:15 (KLZ_WT08)
9	05:40		06:10 (KLZ_WT05)	06:21			07:10			07:58		08:22 (CBR_WT01)	07:51			08:36		09:08 (KLZ_WT08)
	22:00	3	06:13 (KLZ_WT05)	21:20			20:16			19:08	7	08:29 (CBR_WT01)	17:07			16:39	7	09:15 (KLZ_WT08)
10	05:41		06:11 (KLZ_WT05)	06:23			07:11			07:59		08:24 (CBR_WT01)	07:52			08:37		09:09 (KLZ_WT08)
	22:00	3	06:14 (KLZ_WT05)	21:18			20:13			19:05	5	08:29 (CBR_WT01)	17:06			16:38	6	09:15 (KLZ_WT08)
11	05:42		06:12 (KLZ_WT05)	06:24			07:13		07:40 (SAM_WT07)	08:01		08:26 (CBR_WT01)	07:54			08:38		09:10 (KLZ_WT08)
	21:59	2	06:14 (KLZ_WT05)	21:16			20:11	6	07:46 (SAM_WT07)	19:03	3	08:29 (CBR_WT01)	17:04			16:38	5	09:15 (KLZ_WT08)
12	05:43		06:13 (KLZ_WT05)	06:26			07:14		07:39 (SAM_WT07)	08:02			07:56			08:39		09:11 (KLZ_WT08)
	21:58	2	06:15 (KLZ_WT05)	21:14			20:09	8	07:47 (SAM_WT07)	19:01			17:03			16:38	4	09:15 (KLZ_WT08)
13	05:44		06:14 (KLZ_WT05)	06:27			07:16		07:41 (SAM_WT07)	08:04			07:57			08:40		09:12 (KLZ_WT08)
	21:57	1	06:15 (KLZ_WT05)	21:13			20:06	7	07:48 (SAM_WT07)	18:59			17:01			16:38	4	09:16 (KLZ_WT08)
14	05:45			06:29			07:18		07:42 (SAM_WT07)	08:06			07:59			08:41		09:13 (KLZ_WT08)
	21:57			21:11			20:04	5	07:47 (SAM_WT07)	18:57			17:00			16:38	3	09:16 (KLZ_WT08)
15	05:47			06:30			07:19		07:44 (SAM_WT07)	08:07			08:01			08:42		09:14 (KLZ_WT08)
	21:56			21:09			20:02	3	07:47 (SAM_WT07)	18:55			16:59			16:38	2	09:16 (KLZ_WT08)
16	05:48			06:32			07:21		07:45 (SAM_WT07)	08:09			08:03			08:43		09:15 (KLZ_WT08)
	21:55			21:07			20:00	1	07:46 (SAM_WT07)	18:53			16:57			16:38	2	09:17 (KLZ_WT08)
17	05:49			06:34			07:22			08:11			08:04			08:44		09:16 (KLZ_WT08)
	21:54			21:05			19:57			18:50			16:56			16:39	1	09:17 (KLZ_WT08)
18	05:50			06:35			07:24			08:13		08:38 (KLZ_WT11)	08:06			08:45		09:16 (KLZ_WT08)
	21:53			21:03			19:55			18:48	1	08:39 (KLZ_WT11)	16:55			16:39	1	09:17 (KLZ_WT08)
19	05:51			06:37			07:25			08:14			08:08			08:45		09:17 (KLZ_WT08)
	21:51			21:01			19:53			18:46			16:53			16:39	1	09:18 (KLZ_WT08)
20	05:53			06:38			07:27			08:16			08:09			08:46		
	21:50			20:59			19:50			18:44			16:52			16:39		
21	05:54			06:40			07:29			08:18			08:11			08:47		
	21:49			20:57			19:48			18:42			16:51			16:40		
22	05:55			06:41			07:30			08:19			08:12			08:47		
	21:48			20:55			19:46			18:40			16:50			16:40		
23	05:56			06:43			07:32			08:21			08:14			08:48		
	21:47			20:53			19:44			18:38			16:49			16:41		
24	05:58		06:29 (KLZ_WT17)	06:45			07:33			08:23			08:16			08:48		09:19 (KLZ_WT08)
	21:45	6	06:35 (KLZ_WT17)	20:51			19:41			18:36			16:48			16:41	1	09:20 (KLZ_WT08)
25	05:59		06:28 (KLZ_WT17)	06:46			07:35			07:24			08:17			08:48		09:20 (KLZ_WT08)
	21:44	8	06:36 (KLZ_WT17)	20:48			19:39			17:34			16:47			16:42	1	09:21 (KLZ_WT08)
26	06:01		06:29 (KLZ_WT17)	06:48			07:37			07:26		07:53 (KLZ_WT10)	08:19			08:49		09:20 (KLZ_WT08)
	21:43	8	06:37 (KLZ_WT17)	20:46			19:37			17:32	4	07:57 (KLZ_WT10)	16:46			16:43	1	09:21 (KLZ_WT08)
27	06:02		06:30 (KLZ_WT17)	06:49			07:38			07:28		07:54 (KLZ_WT10)	08:20			08:49		09:20 (KLZ_WT08)
	21:41	8	06:38 (KLZ_WT17)	20:44			19:35			17:30	3	07:57 (KLZ_WT10)	16:45			16:43	2	09:22 (KLZ_WT08)
28	06:03		06:32 (KLZ_WT17)	06:51		07:17 (SAM_WT06)	07:40			07:30		07:56 (KLZ_WT10)	08:22		08:53 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:40	7	06:39 (KLZ_WT17)	20:42	6	07:23 (SAM_WT06)	19:32			17:28	2	07:58 (KLZ_WT10)	16:44	8	09:08 (KLZ_WT08)	16:44	2	09:22 (KLZ_WT08)
29	06:05		06:33 (KLZ_WT17)	06:52		07:18 (SAM_WT06)	07:41			07:31			08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	6	06:39 (KLZ_WT17)	20:40	6	07:24 (SAM_WT06)	19:30			17:27			16:44	10	09:09 (KLZ_WT08)	16:45	3	09:23 (KLZ_WT08)
30	06:06		06:34 (KLZ_WT17)	06:54		07:20 (SAM_WT06)	07:43			07:33			08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	5	06:39 (KLZ_WT17)	20:38	5	07:25 (SAM_WT06)	19:28			17:25			16:43	11	09:10 (KLZ_WT08)	16:46	3	09:23 (KLZ_WT08)
31	06:08		06:36 (KLZ_WT17)	06:56		07:21 (SAM_WT06)				07:35						08:50		09:20 (KLZ_WT08)
	21:35	3	06:39 (KLZ_WT17)	20:36	3	07:24 (SAM_WT06)				17:23						16:47	4	09:24 (KLZ_WT08)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		128			22			31			61			33			133	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,65			0,63			0,56			0,53			0,53	
Total reduction		0,31			0,29			0,26			0,20			0,14			0,12	
Total, real		39			6			8			12			5			15	

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

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

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

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	January			February			March			April			May			June		
1	08:50		09:20 (KLZ_WT08)	08:24		08:50 (MXS_WT01)	07:32			07:23			06:20		06:47 (SAM_WT06)	05:36		
	16:48	11	09:31 (KLZ_WT08)	17:35	53	16:35 (KLZ_WT15)	18:25			20:17			21:06	6	06:53 (SAM_WT06)	21:51		
2	08:50		09:21 (KLZ_WT08)	08:23		08:48 (MXS_WT01)	07:30			07:21			06:18			05:36		
	16:49	11	09:32 (KLZ_WT08)	17:36	53	16:35 (KLZ_WT15)	18:27			20:19			21:08			21:52		
3	08:49		09:21 (KLZ_WT08)	08:21		15:46 (KLZ_WT15)	07:28			07:19			06:17			05:35		
	16:50	12	09:33 (KLZ_WT08)	17:38	49	16:35 (KLZ_WT15)	18:28			20:20			21:10			21:53		
4	08:49		09:20 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (KLZ_WT11)	07:17			06:15			05:34		
	16:51	13	09:33 (KLZ_WT08)	17:40	50	16:36 (KLZ_WT15)	18:30	2	07:51 (KLZ_WT11)	20:22			21:11			21:54		
5	08:49		09:20 (KLZ_WT08)	08:18		08:43 (MVN_WT01)	07:24		07:46 (KLZ_WT11)	07:14		07:37 (SAM_WT11)	06:13			05:34		
	16:53	14	09:34 (KLZ_WT08)	17:42	51	16:35 (KLZ_WT15)	18:32	4	07:50 (KLZ_WT11)	20:24	1	07:38 (SAM_WT11)	21:13			21:55		
6	08:49		09:20 (KLZ_WT08)	08:16		08:41 (MVN_WT01)	07:21		07:44 (KLZ_WT11)	07:12		07:34 (SAM_WT11)	06:11			05:33		
	16:54	15	09:35 (KLZ_WT08)	17:44	52	16:35 (KLZ_WT15)	18:33	5	07:49 (KLZ_WT11)	20:25	2	07:36 (SAM_WT11)	21:14			21:56		
7	08:48		09:20 (KLZ_WT08)	08:15		08:39 (MVN_WT01)	07:19		07:43 (KLZ_WT11)	07:10		07:32 (SAM_WT11)	06:09			05:32		
	16:55	16	09:36 (KLZ_WT08)	17:45	53	16:35 (KLZ_WT15)	18:35	5	07:48 (KLZ_WT11)	20:27	3	07:35 (SAM_WT11)	21:16			21:56		
8	08:48		09:20 (KLZ_WT08)	08:13		08:41 (MVN_WT01)	07:17			07:08			06:08			05:32		
	16:56	16	09:36 (KLZ_WT08)	17:47	48	16:35 (KLZ_WT15)	18:37			20:29			21:17			21:57		
9	08:48		09:17 (RHR_WT01)	08:11		15:49 (KLZ_WT15)	07:15			07:06		07:28 (SAM_WT07)	06:06			05:31		
	16:58	17	09:37 (KLZ_WT08)	17:49	46	16:35 (KLZ_WT15)	18:39			20:30	2	07:30 (SAM_WT07)	21:19			21:58		
10	08:47		09:16 (RHR_WT01)	08:09		15:49 (KLZ_WT15)	07:13			07:03		07:26 (SAM_WT07)	06:04			05:31		
	16:59	29	16:08 (KLZ_WT15)	17:51	45	16:34 (KLZ_WT15)	18:40			20:32	5	07:31 (SAM_WT07)	21:21			21:59		
11	08:46		09:15 (RHR_WT01)	08:08		15:50 (KLZ_WT15)	07:11			07:01		07:24 (SAM_WT07)	06:03			05:31		
	17:00	35	16:11 (KLZ_WT15)	17:53	44	16:34 (KLZ_WT15)	18:42			20:34	7	07:31 (SAM_WT07)	21:22			22:00		
12	08:46		09:15 (RHR_WT01)	08:06		15:50 (KLZ_WT15)	07:08		07:31 (CBR_WT01)	06:59		07:21 (SAM_WT07)	06:01			05:30		
	17:02	40	16:14 (KLZ_WT15)	17:55	43	16:33 (KLZ_WT15)	18:44	4	07:35 (CBR_WT01)	20:35	9	07:30 (SAM_WT07)	21:24			22:00		
13	08:45		09:14 (RHR_WT01)	08:04		15:51 (KLZ_WT15)	07:06		07:29 (CBR_WT01)	06:57		07:19 (SAM_WT07)	06:00			05:30		
	17:03	43	16:15 (KLZ_WT15)	17:56	41	16:32 (KLZ_WT15)	18:45	7	07:36 (CBR_WT01)	20:37	10	07:29 (SAM_WT07)	21:25			22:01		
14	08:45		09:13 (RHR_WT01)	08:02		15:52 (KLZ_WT15)	07:04		07:26 (CBR_WT01)	06:55		07:17 (SAM_WT07)	05:58			05:30		
	17:05	48	16:17 (KLZ_WT15)	17:58	39	16:31 (KLZ_WT15)	18:47	10	07:36 (CBR_WT01)	20:38	11	07:28 (SAM_WT07)	21:27			22:02		
15	08:44		09:12 (RHR_WT01)	08:00		15:53 (KLZ_WT15)	07:02		07:24 (CBR_WT01)	06:53		07:18 (SAM_WT07)	05:56			05:30		
	17:06	51	16:19 (KLZ_WT15)	18:00	37	16:30 (KLZ_WT15)	18:49	12	07:36 (CBR_WT01)	20:40	8	07:26 (SAM_WT07)	21:28			22:02		
16	08:43		09:11 (RHR_WT01)	07:58		15:55 (KLZ_WT15)	06:59		07:22 (CBR_WT01)	06:50			05:55			05:30		
	17:08	53	16:20 (KLZ_WT15)	18:02	34	16:29 (KLZ_WT15)	18:50	14	07:36 (CBR_WT01)	20:42			21:30			22:03		
17	08:42		09:11 (RHR_WT01)	07:57		15:57 (KLZ_WT15)	06:57		07:22 (CBR_WT01)	06:48			05:54			05:30		
	17:09	54	16:22 (KLZ_WT15)	18:04	30	16:27 (KLZ_WT15)	18:52	13	07:35 (CBR_WT01)	20:43			21:31			22:03		
18	08:41		09:13 (RHR_WT01)	07:55		15:59 (KLZ_WT15)	06:55		07:17 (SAM_WT05)	06:46			05:52			05:30		
	17:11	51	16:23 (KLZ_WT15)	18:05	27	16:26 (KLZ_WT15)	18:54	13	07:33 (CBR_WT01)	20:45			21:33			22:03		
19	08:40		09:25 (KLZ_WT08)	07:53		16:02 (KLZ_WT15)	06:53		07:15 (SAM_WT05)	06:44			05:51			05:30		
	17:12	51	16:25 (KLZ_WT15)	18:07	21	16:23 (KLZ_WT15)	18:56	13	07:32 (CBR_WT01)	20:47			21:34			22:04		
20	08:39		09:26 (KLZ_WT08)	07:51		16:05 (KLZ_WT15)	06:50		07:13 (SAM_WT05)	06:42			05:49			05:30		
	17:14	51	16:26 (KLZ_WT15)	18:09	15	16:20 (KLZ_WT15)	18:57	5	07:18 (SAM_WT05)	20:48			21:35			22:04		
21	08:38		09:27 (KLZ_WT08)	07:49			06:48			06:40			05:48			05:30		
	17:16	49	16:26 (KLZ_WT15)	18:11			18:59			20:50			21:37			22:04		
22	08:37		09:29 (KLZ_WT08)	07:47		08:10 (KLZ_WT10)	06:46			06:38			05:47			05:30		
	17:17	48	16:28 (KLZ_WT15)	18:12	1	08:11 (KLZ_WT10)	19:01			20:52			21:38			22:05		
23	08:36		09:32 (KLZ_WT08)	07:45		08:08 (KLZ_WT10)	06:44			06:36			05:46			05:30		
	17:19	44	16:29 (KLZ_WT15)	18:14	4	08:12 (KLZ_WT10)	19:02			20:53			21:40			22:05		
24	08:35		15:48 (KLZ_WT15)	07:43		08:06 (KLZ_WT10)	06:41			06:34			05:44			05:31		
	17:21	42	16:30 (KLZ_WT15)	18:16	6	08:12 (KLZ_WT10)	19:04			20:55			21:41			22:05		
25	08:34		15:47 (KLZ_WT15)	07:41		08:04 (KLZ_WT10)	06:39			06:32		06:55 (SAM_WT06)	05:43			05:31		
	17:22	43	16:30 (KLZ_WT15)	18:18	8	08:12 (KLZ_WT10)	19:05			20:57	2	06:57 (SAM_WT06)	21:42			22:05		
26	08:32		15:47 (KLZ_WT15)	07:39		08:02 (KLZ_WT10)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31		
	17:24	45	16:32 (KLZ_WT15)	18:20	10	08:12 (KLZ_WT10)	19:07			20:58	4	06:57 (SAM_WT06)	21:43			22:05		
27	08:31		15:46 (KLZ_WT15)	07:36		08:03 (KLZ_WT10)	06:35			06:28		06:51 (SAM_WT06)	05:41			05:32		
	17:26	46	16:32 (KLZ_WT15)	18:21	8	08:11 (KLZ_WT10)	19:09			21:00	5	06:56 (SAM_WT06)	21:45			22:05		
28	08:30		15:46 (KLZ_WT15)	07:34		08:04 (KLZ_WT10)	06:32			06:26		06:50 (SAM_WT06)	05:40			05:32		
	17:28	47	16:33 (KLZ_WT15)	18:23	4	08:08 (KLZ_WT10)	19:10			21:01	7	06:57 (SAM_WT06)	21:46			22:05		
29	08:28		15:46 (KLZ_WT15)				07:30			06:24		06:48 (SAM_WT06)	05:39			05:33		
	17:29	47	16:33 (KLZ_WT15)				20:12			21:03	8	06:56 (SAM_WT06)	21:47			22:05		
30	08:27		08:53 (MXS_WT01)				07:28		07:50 (SAM_WT04)	06:22		06:46 (SAM_WT06)	05:38			05:33		
	17:31	50	16:34 (KLZ_WT15)				20:14	1	07:51 (SAM_WT04)	21:05	9	06:55 (SAM_WT06)	21:48			22:04		
31	08:26		08:51 (MXS_WT01)				07:26		07:48 (SAM_WT04)				05:37					
	17:33	51	16:34 (KLZ_WT15)				20:15	1	07:49 (SAM_WT04)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1143			872			109			93			6				
Sun reduction		0,25			0,30			0,38			0,46			0,46				
Oper. time red.		0,97			0,97			0,97			0,97			0,97				
Wind dir. red.		0,65			0,70			0,59			0,65			0,67				
Total reduction		0,16			0,21			0,22			0,29			0,30				
Total, real		180			179			24			27			2				

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

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

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	July		August			September			October			November			December		
1	05:34		06:09			06:57		07:23 (SAM_WT07)	07:44		08:09 (CBR_WT01)	07:37		15:19 (KLZ_WT15)	08:26		08:57 (RHR_WT01)
	22:04		21:34			20:33	7	07:30 (SAM_WT07)	19:25	6	08:15 (CBR_WT01)	17:21	45	16:04 (KLZ_WT15)	16:42	35	15:53 (KLZ_WT15)
2	05:35		06:11			06:59		07:24 (SAM_WT07)	07:46		08:11 (CBR_WT01)	07:38		15:18 (KLZ_WT15)	08:27		08:59 (RHR_WT01)
	22:04		21:32			20:31	5	07:29 (SAM_WT07)	19:23	2	08:13 (CBR_WT01)	17:19	47	16:05 (KLZ_WT15)	16:42	30	15:52 (KLZ_WT15)
3	05:35		06:12			07:00		07:26 (SAM_WT07)	07:48			07:40		08:10 (MVN_WT01)	08:29		09:00 (RHR_WT01)
	22:04		21:30			20:29	2	07:28 (SAM_WT07)	19:21			17:17	49	16:05 (KLZ_WT15)	16:41	17	09:20 (KLZ_WT08)
4	05:36		06:14			07:02			07:49			07:42		08:09 (MVN_WT01)	08:30		09:05 (KLZ_WT08)
	22:03		21:29			20:27			19:19			17:16	53	16:05 (KLZ_WT15)	16:40	16	09:21 (KLZ_WT08)
5	05:37		06:15			07:03		07:29 (SAM_WT11)	07:51			07:44		08:11 (MVN_WT01)	08:31		09:06 (KLZ_WT08)
	22:03		21:27			20:24	3	07:32 (SAM_WT11)	19:16			17:14	52	16:05 (KLZ_WT15)	16:40	15	09:21 (KLZ_WT08)
6	05:38		06:17			07:05		07:30 (SAM_WT11)	07:53			07:45		08:13 (MVN_WT01)	08:33		09:06 (KLZ_WT08)
	22:02		21:25			20:22	2	07:32 (SAM_WT11)	19:14			17:12	50	16:05 (KLZ_WT15)	16:40	15	09:21 (KLZ_WT08)
7	05:38		06:18			07:07		07:32 (SAM_WT11)	07:54		08:19 (KLZ_WT11)	07:47		08:15 (MVN_WT01)	08:34		09:07 (KLZ_WT08)
	22:02		21:24			20:20	1	07:33 (SAM_WT11)	19:12	6	08:25 (KLZ_WT11)	17:11	49	16:05 (KLZ_WT15)	16:39	14	09:21 (KLZ_WT08)
8	05:39		06:20			07:08			07:56		08:21 (KLZ_WT11)	07:49		15:17 (KLZ_WT15)	08:35		09:08 (KLZ_WT08)
	22:01		21:22			20:18			19:10	5	08:26 (KLZ_WT11)	17:09	49	16:06 (KLZ_WT15)	16:39	13	09:21 (KLZ_WT08)
9	05:40		06:21			07:10			07:58		08:22 (KLZ_WT11)	07:50		08:19 (MXS_WT01)	08:36		09:09 (KLZ_WT08)
	22:00		21:20			20:15			19:08	3	08:25 (KLZ_WT11)	17:07	53	16:06 (KLZ_WT15)	16:39	12	09:21 (KLZ_WT08)
10	05:41		06:23			07:11			07:59		08:24 (KLZ_WT11)	07:52		08:21 (MXS_WT01)	08:37		09:10 (KLZ_WT08)
	22:00		21:18			20:13			19:05	1	08:25 (KLZ_WT11)	17:06	53	16:06 (KLZ_WT15)	16:38	11	09:21 (KLZ_WT08)
11	05:42		06:24			07:13			08:01			07:54		08:23 (MXS_WT01)	08:38		09:10 (KLZ_WT08)
	21:59		21:16			20:11			19:03			17:04	51	16:06 (KLZ_WT15)	16:38	11	09:21 (KLZ_WT08)
12	05:43		06:26		06:55 (SAM_WT06)	07:14			08:02			07:56		08:24 (MXS_WT01)	08:39		09:11 (KLZ_WT08)
	21:58		21:14	7	07:02 (SAM_WT06)	20:09			19:01			17:03	50	16:05 (KLZ_WT15)	16:38	10	09:21 (KLZ_WT08)
13	05:44		06:27		06:54 (SAM_WT06)	07:16		07:41 (SAM_WT04)	08:04			07:57		15:18 (KLZ_WT15)	08:40		09:12 (KLZ_WT08)
	21:57		21:13	9	07:03 (SAM_WT06)	20:06	1	07:42 (SAM_WT04)	18:59			17:01	47	16:05 (KLZ_WT15)	16:38	9	09:21 (KLZ_WT08)
14	05:45		06:29		06:56 (SAM_WT06)	07:18			08:06		08:36 (KLZ_WT10)	07:59		15:18 (KLZ_WT15)	08:41		09:13 (KLZ_WT08)
	21:56		21:11	8	07:04 (SAM_WT06)	20:04			18:57	6	08:42 (KLZ_WT10)	17:00	47	16:05 (KLZ_WT15)	16:38	8	09:21 (KLZ_WT08)
15	05:47		06:30		06:57 (SAM_WT06)	07:19			08:07		08:34 (KLZ_WT10)	08:01		15:19 (KLZ_WT15)	08:42		09:15 (KLZ_WT08)
	21:56		21:09	7	07:04 (SAM_WT06)	20:02			18:55	10	08:44 (KLZ_WT10)	16:59	46	16:05 (KLZ_WT15)	16:38	6	09:21 (KLZ_WT08)
16	05:48		06:32		06:59 (SAM_WT06)	07:21			08:09		08:35 (KLZ_WT10)	08:02		15:20 (KLZ_WT15)	08:43		09:16 (KLZ_WT08)
	21:55		21:07	5	07:04 (SAM_WT06)	20:00			18:53	9	08:44 (KLZ_WT10)	16:57	45	16:05 (KLZ_WT15)	16:38	5	09:21 (KLZ_WT08)
17	05:49		06:34		07:00 (SAM_WT06)	07:22			08:11		08:36 (KLZ_WT10)	08:04		15:21 (KLZ_WT15)	08:44		09:17 (RHR_WT02)
	21:54		21:05	3	07:03 (SAM_WT06)	19:57			18:50	8	08:44 (KLZ_WT10)	16:56	43	16:04 (KLZ_WT15)	16:39	4	09:21 (KLZ_WT08)
18	05:50		06:35		07:02 (SAM_WT06)	07:24			08:12		08:38 (KLZ_WT10)	08:06		15:22 (KLZ_WT15)	08:45		09:16 (RHR_WT02)
	21:52		21:03	1	07:03 (SAM_WT06)	19:55			18:48	6	08:44 (KLZ_WT10)	16:55	42	16:04 (KLZ_WT15)	16:39	5	09:21 (RHR_WT02)
19	05:51		06:37			07:25			08:14		08:40 (KLZ_WT10)	08:08		09:05 (KLZ_WT08)	08:45		09:17 (RHR_WT02)
	21:51		21:01			19:53			18:46	3	08:43 (KLZ_WT10)	16:53	45	16:03 (KLZ_WT15)	16:39	5	09:22 (RHR_WT02)
20	05:53		06:38			07:27			08:16			08:09		09:04 (KLZ_WT08)	08:46		09:18 (RHR_WT02)
	21:50		20:59			19:50			18:44			16:52	48	16:03 (KLZ_WT15)	16:39	5	09:23 (RHR_WT02)
21	05:54		06:40			07:29			08:18		16:40 (KLZ_WT15)	08:11		09:03 (KLZ_WT08)	08:47		09:18 (RHR_WT02)
	21:49		20:57			19:48			18:42	6	16:46 (KLZ_WT15)	16:51	49	16:02 (KLZ_WT15)	16:40	5	09:23 (RHR_WT02)
22	05:55		06:41			07:30			08:19		16:34 (KLZ_WT15)	08:12		09:02 (KLZ_WT08)	08:47		09:19 (RHR_WT02)
	21:48		20:55			19:46			18:40	17	16:51 (KLZ_WT15)	16:50	51	16:02 (KLZ_WT15)	16:40	5	09:24 (RHR_WT02)
23	05:56		06:43			07:32		07:56 (SAM_WT05)	08:21		16:31 (KLZ_WT15)	08:14		09:01 (KLZ_WT08)	08:48		09:19 (RHR_WT02)
	21:47		20:53			19:44	5	08:01 (SAM_WT05)	18:38	23	16:54 (KLZ_WT15)	16:49	50	16:01 (KLZ_WT15)	16:41	5	09:24 (RHR_WT02)
24	05:58		06:45			07:33		07:58 (SAM_WT05)	08:23		16:29 (KLZ_WT15)	08:16		08:51 (RHR_WT01)	08:48		09:19 (RHR_WT02)
	21:45		20:50			19:41	10	08:14 (CBR_WT01)	18:36	28	16:57 (KLZ_WT15)	16:48	50	16:00 (KLZ_WT15)	16:41	5	09:24 (RHR_WT02)
25	05:59		06:46			07:35		07:59 (SAM_WT05)	07:24		15:27 (KLZ_WT15)	08:17		08:49 (RHR_WT01)	08:48		09:20 (RHR_WT02)
	21:44		20:48			19:39	14	08:16 (CBR_WT01)	17:34	31	15:58 (KLZ_WT15)	16:47	54	16:00 (KLZ_WT15)	16:42	5	09:25 (RHR_WT02)
26	06:01		06:48			07:36		08:01 (SAM_WT05)	07:26		15:25 (KLZ_WT15)	08:19		08:49 (RHR_WT01)	08:49		09:20 (RHR_WT02)
	21:43		20:46			19:37	14	08:17 (CBR_WT01)	17:32	35	16:00 (KLZ_WT15)	16:46	53	15:58 (KLZ_WT15)	16:43	5	09:25 (RHR_WT02)
27	06:02		06:49		07:23 (SAM_WT07)	07:38		08:03 (CBR_WT01)	07:28		15:23 (KLZ_WT15)	08:20		08:51 (RHR_WT01)	08:49		09:21 (RHR_WT02)
	21:41		20:44	2	07:25 (SAM_WT07)	19:35	15	08:18 (CBR_WT01)	17:30	37	16:00 (KLZ_WT15)	16:45	50	15:58 (KLZ_WT15)	16:43	5	09:26 (KLZ_WT08)
28	06:03		06:51		07:20 (SAM_WT07)	07:40		08:04 (CBR_WT01)	07:30		15:22 (KLZ_WT15)	08:22		08:53 (RHR_WT01)	08:49		09:21 (KLZ_WT08)
	21:40		20:42	8	07:28 (SAM_WT07)	19:32	13	08:17 (CBR_WT01)	17:28	39	16:01 (KLZ_WT15)	16:44	48	15:57 (KLZ_WT15)	16:44	5	09:26 (KLZ_WT08)
29	06:05		06:52		07:18 (SAM_WT07)	07:41		08:06 (CBR_WT01)	07:31		15:21 (KLZ_WT15)	08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38		20:40	11	07:29 (SAM_WT07)	19:30	11	08:17 (CBR_WT01)	17:27	41	16:02 (KLZ_WT15)	16:44	44	15:56 (KLZ_WT15)	16:45	7	09:27 (KLZ_WT08)
30	06:06		06:54		07:20 (SAM_WT07)	07:43		08:08 (CBR_WT01)	07:33		15:20 (KLZ_WT15)	08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37		20:38	10	07:30 (SAM_WT07)	19:28	8	08:16 (CBR_WT01)	17:25	43	16:03 (KLZ_WT15)	16:43	40	15:55 (KLZ_WT15)	16:46	8	09:28 (KLZ_WT08)
31	06:08		06:56		07:21 (SAM_WT07)				07:35		15:19 (KLZ_WT15)				08:50		09:20 (KLZ_WT08)
	21:35		20:35	8	07:29 (SAM_WT07)				17:23	45	16:04 (KLZ_WT15)				16:47	9	09:29 (KLZ_WT08)
Potential sun hours	498		451			380			333			269			248		
Total, worst case				79			111			410			1453			310	
Sun reduction				0,47			0,43			0,36			0,27			0,23	
Oper. time red.				0,97			0,97			0,97			0,97			0,97	
Wind dir. red.				0,65			0,60			0,69			0,68			0,54	
Total reduction				0,30			0,25			0,24			0,18			0,12	
Total, real				23			28			100			259			37	

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

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

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	January			February			March			April			May	June
1	08:50		09:20 (MXS_WT01)	08:24		08:57 (KLZ_WT10)	07:32		07:55 (CBR_WT01)	07:23		07:46 (SAM_WT11)	06:20	05:36
	16:48	6	09:26 (MXS_WT01)	17:35	38	16:59 (KLZ_WT15)	18:25	13	08:08 (CBR_WT01)	20:17	5	07:51 (SAM_WT11)	21:06	21:51
2	08:50		09:20 (MXS_WT01)	08:23		08:58 (KLZ_WT10)	07:30		07:53 (CBR_WT01)	07:21		07:43 (SAM_WT07)	06:18	05:36
	16:49	7	09:27 (MXS_WT01)	17:36	35	16:58 (KLZ_WT15)	18:27	16	08:09 (CBR_WT01)	20:19	6	07:49 (SAM_WT11)	21:08	21:52
3	08:49		09:20 (MXS_WT01)	08:21		08:59 (KLZ_WT10)	07:28		07:51 (CBR_WT01)	07:19		07:41 (SAM_WT07)	06:16	05:35
	16:50	7	09:27 (MXS_WT01)	17:38	32	16:58 (KLZ_WT15)	18:28	18	08:09 (CBR_WT01)	20:20	6	07:47 (SAM_WT07)	21:10	21:53
4	08:49		09:19 (MXS_WT01)	08:19		16:34 (KLZ_WT15)	07:26		07:51 (CBR_WT01)	07:17		07:39 (SAM_WT07)	06:15	05:34
	16:51	7	09:26 (MXS_WT01)	17:40	24	16:58 (KLZ_WT15)	18:30	18	08:09 (CBR_WT01)	20:22	9	07:48 (SAM_WT07)	21:11	21:54
5	08:49		09:20 (MXS_WT01)	08:18		16:34 (KLZ_WT15)	07:24		07:51 (CBR_WT01)	07:14		07:37 (SAM_WT07)	06:13	05:34
	16:53	6	09:26 (MXS_WT01)	17:42	24	16:58 (KLZ_WT15)	18:32	16	08:07 (CBR_WT01)	20:24	11	07:48 (SAM_WT07)	21:13	21:55
6	08:49		09:20 (MXS_WT01)	08:16		16:35 (KLZ_WT15)	07:21		07:51 (CBR_WT01)	07:12		07:34 (SAM_WT07)	06:11	05:33
	16:54	5	09:25 (MXS_WT01)	17:44	22	16:57 (KLZ_WT15)	18:33	16	08:07 (CBR_WT01)	20:25	13	07:47 (SAM_WT07)	21:14	21:56
7	08:48		09:23 (MXS_WT01)	08:15		16:36 (KLZ_WT15)	07:19		07:52 (CBR_WT01)	07:10		07:32 (SAM_WT07)	06:09	05:32
	16:55	1	09:24 (MXS_WT01)	17:45	20	16:56 (KLZ_WT15)	18:35	13	08:05 (CBR_WT01)	20:27	15	07:47 (SAM_WT07)	21:16	21:56
8	08:48			08:13		16:38 (KLZ_WT15)	07:17		07:40 (SAM_WT05)	07:08		07:32 (SAM_WT07)	06:08	05:32
	16:56			17:47	18	16:56 (KLZ_WT15)	18:37	12	08:04 (CBR_WT01)	20:29	14	07:46 (SAM_WT07)	21:17	21:57
9	08:48			08:11		16:40 (KLZ_WT15)	07:15		07:38 (SAM_WT05)	07:06		07:33 (SAM_WT07)	06:06	05:31
	16:58			17:49	14	16:54 (KLZ_WT15)	18:39	5	07:43 (SAM_WT05)	20:30	12	07:45 (SAM_WT07)	21:19	21:58
10	08:47			08:09		16:42 (KLZ_WT15)	07:13		07:35 (SAM_WT05)	07:03		07:34 (SAM_WT07)	06:04	05:31
	16:59			17:51	9	16:51 (KLZ_WT15)	18:40	6	07:41 (SAM_WT05)	20:32	9	07:43 (SAM_WT07)	21:21	21:59
11	08:46			08:08		08:32 (KLZ_WT11)	07:11		07:33 (SAM_WT05)	07:01		07:38 (SAM_WT07)	06:03	05:31
	17:00			17:53	1	08:33 (KLZ_WT11)	18:42	8	07:41 (SAM_WT05)	20:34	1	07:39 (SAM_WT07)	21:22	22:00
12	08:46			08:06		08:30 (KLZ_WT11)	07:08		07:31 (SAM_WT05)	06:59			06:01	05:30
	17:02			17:55	4	08:34 (KLZ_WT11)	18:44	8	07:39 (SAM_WT05)	20:35			21:24	22:00
13	08:45			08:04		08:28 (KLZ_WT11)	07:06			06:57			05:59	05:30
	17:03			17:56	6	08:34 (KLZ_WT11)	18:45			20:37			21:25	22:01
14	08:44			08:02		08:26 (KLZ_WT11)	07:04			06:55			05:58	05:30
	17:05			17:58	8	08:34 (KLZ_WT11)	18:47			20:38			21:27	22:02
15	08:44			08:00		08:24 (KLZ_WT11)	07:02			06:52			05:56	05:30
	17:06			18:00	10	08:34 (KLZ_WT11)	18:49			20:40			21:28	22:02
16	08:43			07:58		08:23 (KLZ_WT11)	06:59			06:50			05:55	05:30
	17:08			18:02	10	08:33 (KLZ_WT11)	18:50			20:42			21:30	22:03
17	08:42			07:57		08:25 (KLZ_WT11)	06:57			06:48			05:54	05:30
	17:09			18:04	6	08:31 (KLZ_WT11)	18:52			20:43			21:31	22:03
18	08:41			07:55			06:55			06:46			05:52	05:29
	17:11			18:05			18:54			20:45			21:33	22:03
19	08:40			07:53			06:53			06:44			05:51	05:30
	17:12			18:07			18:55			20:47			21:34	22:04
20	08:39		16:39 (KLZ_WT15)	07:51			06:50			06:42			05:49	05:30
	17:14	4	16:43 (KLZ_WT15)	18:09			18:57			20:48			21:35	22:04
21	08:38		09:05 (MVN_WT01)	07:49			06:48			06:40		07:03 (SAM_WT06)	05:48	05:30
	17:16	9	16:44 (KLZ_WT15)	18:11			18:59			20:50	2	07:05 (SAM_WT06)	21:37	22:04
22	08:37		09:04 (MVN_WT01)	07:47			06:46			06:38		07:01 (SAM_WT06)	05:47	05:30
	17:17	14	16:46 (KLZ_WT15)	18:12			19:00			20:52	5	07:06 (SAM_WT06)	21:38	22:05
23	08:36		09:03 (KLZ_WT10)	07:45			06:44		07:06 (SAM_WT04)	06:36		06:59 (SAM_WT06)	05:46	05:30
	17:19	17	16:48 (KLZ_WT15)	18:14			19:02	2	07:08 (SAM_WT04)	20:53	7	07:06 (SAM_WT06)	21:40	22:05
24	08:35		09:02 (KLZ_WT10)	07:43			06:41		07:04 (SAM_WT04)	06:34		06:57 (SAM_WT06)	05:44	05:30
	17:21	22	16:50 (KLZ_WT15)	18:16			19:04	3	07:07 (SAM_WT04)	20:55	9	07:06 (SAM_WT06)	21:41	22:05
25	08:34		09:00 (KLZ_WT10)	07:41			06:39		07:01 (SAM_WT04)	06:32		06:55 (SAM_WT06)	05:43	05:31
	17:22	25	16:51 (KLZ_WT15)	18:18			19:05	4	07:05 (SAM_WT04)	20:57	11	07:06 (SAM_WT06)	21:42	22:05
26	08:32		08:59 (KLZ_WT10)	07:38		08:02 (CBR_WT01)	06:37			06:30		06:53 (SAM_WT06)	05:42	05:31
	17:24	30	16:54 (KLZ_WT15)	18:20	2	08:04 (CBR_WT01)	19:07			20:58	12	07:05 (SAM_WT06)	21:43	22:05
27	08:31		08:57 (KLZ_WT10)	07:36		08:00 (CBR_WT01)	06:35			06:28		06:52 (SAM_WT06)	05:41	05:32
	17:26	34	16:55 (KLZ_WT15)	18:21	7	08:07 (CBR_WT01)	19:09			21:00	12	07:04 (SAM_WT06)	21:45	22:05
28	08:30		08:56 (KLZ_WT10)	07:34		07:57 (CBR_WT01)	06:32			06:26		06:53 (SAM_WT06)	05:40	05:32
	17:28	38	16:57 (KLZ_WT15)	18:23	10	08:07 (CBR_WT01)	19:10			21:01	10	07:03 (SAM_WT06)	21:46	22:05
29	08:28		08:55 (KLZ_WT10)				07:30		07:52 (SAM_WT11)	06:24		06:55 (SAM_WT06)	05:39	05:33
	17:29	39	16:57 (KLZ_WT15)				20:12	1	07:53 (SAM_WT11)	21:03	7	07:02 (SAM_WT06)	21:47	22:05
30	08:27		08:55 (KLZ_WT10)				07:28		07:50 (SAM_WT11)	06:22			05:38	05:33
	17:31	40	16:58 (KLZ_WT15)				20:14	3	07:53 (SAM_WT11)	21:05			21:48	22:04
31	08:26		08:56 (KLZ_WT10)				07:26		07:48 (SAM_WT11)				05:37	
	17:33	39	16:58 (KLZ_WT15)				20:15	4	07:52 (SAM_WT11)				21:49	
Potential sun hours	262			279			367			415			482	495
Total, worst case		350			300			166			176			
Sun reduction		0,25			0,30			0,38			0,46			
Oper. time red.		0,97			0,97			0,97			0,97			
Wind dir. red.		0,64			0,66			0,56			0,64			
Total reduction		0,16			0,19			0,21			0,29			
Total, real		54			58			35			51			

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

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

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

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	July		August			September			October			November			December		
1	05:34		06:09			06:57		07:37 (SAM_WT07)	07:44		08:11 (SAM_WT05)	07:37		16:11 (KLZ_WT15)	08:26		
	22:04		21:34			20:33	1	07:38 (SAM_WT07)	19:25	6	08:17 (SAM_WT05)	17:21	11	16:22 (KLZ_WT15)	16:42		
2	05:34		06:11			06:59		07:32 (SAM_WT07)	07:46		08:11 (SAM_WT05)	07:38		16:09 (KLZ_WT15)	08:27		
	22:04		21:32			20:31	9	07:41 (SAM_WT07)	19:23	8	08:19 (SAM_WT05)	17:19	15	16:24 (KLZ_WT15)	16:41		
3	05:35		06:12			07:00		07:31 (SAM_WT07)	07:48		08:12 (SAM_WT05)	07:40		16:08 (KLZ_WT15)	08:29		
	22:04		21:30			20:29	12	07:43 (SAM_WT07)	19:21	7	08:19 (SAM_WT05)	17:17	18	16:26 (KLZ_WT15)	16:41		
4	05:36		06:14			07:02		07:29 (SAM_WT07)	07:49		08:14 (SAM_WT05)	07:42		16:05 (KLZ_WT15)	08:30		
	22:03		21:29			20:27	14	07:43 (SAM_WT07)	19:19	6	08:20 (SAM_WT05)	17:16	21	16:26 (KLZ_WT15)	16:40		
5	05:37		06:15			07:03		07:29 (SAM_WT07)	07:51		08:16 (SAM_WT05)	07:44		16:05 (KLZ_WT15)	08:31		
	22:03		21:27			20:24	15	07:44 (SAM_WT07)	19:16	11	08:39 (CBR_WT01)	17:14	22	16:27 (KLZ_WT15)	16:40		
6	05:38		06:17			07:05		07:30 (SAM_WT07)	07:53		08:17 (SAM_WT05)	07:45		16:04 (KLZ_WT15)	08:33		09:06 (MXS_WT01)
	22:02		21:25			20:22	13	07:43 (SAM_WT07)	19:14	13	08:41 (CBR_WT01)	17:12	24	16:28 (KLZ_WT15)	16:39	5	09:11 (MXS_WT01)
7	05:38		06:18			07:07		07:32 (SAM_WT07)	07:54		08:28 (CBR_WT01)	07:47		16:04 (KLZ_WT15)	08:34		09:07 (MXS_WT01)
	22:02		21:24			20:20	11	07:43 (SAM_WT07)	19:12	14	08:42 (CBR_WT01)	17:11	24	16:28 (KLZ_WT15)	16:39	6	09:13 (MXS_WT01)
8	05:39		06:20			07:08		07:33 (SAM_WT07)	07:56		08:27 (CBR_WT01)	07:49		08:29 (KLZ_WT10)	08:35		09:07 (MXS_WT01)
	22:01		21:22			20:18	9	07:42 (SAM_WT07)	19:10	16	08:43 (CBR_WT01)	17:09	33	16:29 (KLZ_WT15)	16:39	7	09:14 (MXS_WT01)
9	05:40		06:21			07:10		07:35 (SAM_WT07)	07:57		08:25 (CBR_WT01)	07:50		08:28 (KLZ_WT10)	08:36		09:08 (MXS_WT01)
	22:00		21:20			20:15	7	07:42 (SAM_WT07)	19:08	18	08:43 (CBR_WT01)	17:07	36	16:29 (KLZ_WT15)	16:39	7	09:15 (MXS_WT01)
10	05:41		06:23			07:11		07:36 (SAM_WT07)	07:59		08:25 (CBR_WT01)	07:52		08:28 (KLZ_WT10)	08:37		09:09 (MXS_WT01)
	22:00		21:18			20:13	6	07:42 (SAM_WT11)	19:05	18	08:43 (CBR_WT01)	17:06	38	16:30 (KLZ_WT15)	16:38	7	09:16 (MXS_WT01)
11	05:42		06:24			07:13		07:38 (SAM_WT11)	08:01		08:26 (CBR_WT01)	07:54		08:27 (KLZ_WT10)	08:38		09:10 (MXS_WT01)
	21:59		21:16			20:11	6	07:44 (SAM_WT11)	19:03	17	08:43 (CBR_WT01)	17:04	40	16:30 (KLZ_WT15)	16:38	6	09:16 (MXS_WT01)
12	05:43		06:26			07:14		07:39 (SAM_WT11)	08:02		08:28 (CBR_WT01)	07:56		08:26 (KLZ_WT10)	08:39		09:11 (MXS_WT01)
	21:58		21:14			20:09	5	07:44 (SAM_WT11)	19:01	14	08:42 (CBR_WT01)	17:03	40	16:29 (KLZ_WT15)	16:38	6	09:17 (MXS_WT01)
13	05:44		06:27			07:16		07:41 (SAM_WT11)	08:04		08:29 (CBR_WT01)	07:57		08:27 (KLZ_WT10)	08:40		09:12 (MXS_WT01)
	21:57		21:13			20:06	3	07:44 (SAM_WT11)	18:59	12	08:41 (CBR_WT01)	17:01	39	16:29 (KLZ_WT15)	16:38	6	09:18 (MXS_WT01)
14	05:45		06:29		07:02 (SAM_WT06)	07:18		07:42 (SAM_WT11)	08:06		08:31 (CBR_WT01)	07:59		08:28 (KLZ_WT10)	08:41		09:13 (MXS_WT01)
	21:56		21:11	8	07:10 (SAM_WT06)	20:04	1	07:43 (SAM_WT11)	18:57	9	08:40 (CBR_WT01)	17:00	38	16:29 (KLZ_WT15)	16:38	5	09:18 (MXS_WT01)
15	05:46		06:30		07:00 (SAM_WT06)	07:19			08:07		08:33 (CBR_WT01)	08:01		08:30 (KLZ_WT10)	08:42		09:14 (MXS_WT01)
	21:56		21:09	11	07:11 (SAM_WT06)	20:02			18:55	5	08:38 (CBR_WT01)	16:59	34	16:28 (KLZ_WT15)	16:38	5	09:19 (MXS_WT01)
16	05:48		06:32		07:00 (SAM_WT06)	07:21			08:09			08:02		08:32 (KLZ_WT10)	08:43		09:15 (MXS_WT01)
	21:55		21:07	12	07:12 (SAM_WT06)	20:00			18:53			16:57	30	16:27 (KLZ_WT15)	16:38	5	09:20 (MXS_WT01)
17	05:49		06:34		07:00 (SAM_WT06)	07:22			08:11			08:04		08:34 (KLZ_WT10)	08:44		09:16 (MXS_WT01)
	21:54		21:05	12	07:12 (SAM_WT06)	19:57			18:50			16:56	25	16:25 (KLZ_WT15)	16:38	4	09:20 (MXS_WT01)
18	05:50		06:35		07:02 (SAM_WT06)	07:24		07:49 (SAM_WT04)	08:12			08:06		08:36 (KLZ_WT10)	08:45		09:16 (MXS_WT01)
	21:52		21:03	11	07:13 (SAM_WT06)	19:55	4	07:53 (SAM_WT04)	18:48			16:55	22	16:24 (KLZ_WT15)	16:39	4	09:20 (MXS_WT01)
19	05:51		06:37		07:03 (SAM_WT06)	07:25		07:50 (SAM_WT04)	08:14			08:07		08:37 (KLZ_WT10)	08:45		09:17 (MXS_WT01)
	21:51		21:01	9	07:12 (SAM_WT06)	19:53	4	07:54 (SAM_WT04)	18:46			16:53	17	16:22 (KLZ_WT15)	16:39	4	09:21 (MXS_WT01)
20	05:53		06:38		07:05 (SAM_WT06)	07:27		07:52 (SAM_WT04)	08:16			08:09		08:39 (MVN_WT01)	08:46		09:18 (MXS_WT01)
	21:50		20:59	7	07:12 (SAM_WT06)	19:50	3	07:55 (SAM_WT04)	18:44			16:52	14	16:21 (KLZ_WT15)	16:39	4	09:22 (MXS_WT01)
21	05:54		06:40		07:06 (SAM_WT06)	07:29		07:53 (SAM_WT04)	08:18			08:11		08:41 (MVN_WT01)	08:47		09:18 (MXS_WT01)
	21:49		20:57	5	07:11 (SAM_WT06)	19:48	1	07:54 (SAM_WT04)	18:42			16:51	9	16:20 (KLZ_WT15)	16:40	4	09:22 (MXS_WT01)
22	05:55		06:41		07:08 (SAM_WT06)	07:30			08:19			08:12		16:15 (KLZ_WT15)	08:47		09:19 (MXS_WT01)
	21:48		20:55	2	07:10 (SAM_WT06)	19:46			18:40			16:50	4	16:19 (KLZ_WT15)	16:40	4	09:23 (MXS_WT01)
23	05:56		06:43			07:32			08:21			08:14			08:48		09:19 (MXS_WT01)
	21:47		20:53			19:44			18:38			16:49			16:41	4	09:23 (MXS_WT01)
24	05:58		06:45			07:33			08:23		08:57 (KLZ_WT11)	08:16			08:48		09:19 (MXS_WT01)
	21:45		20:50			19:41			18:36	3	09:00 (KLZ_WT11)	16:48			16:41	4	09:23 (MXS_WT01)
25	05:59		06:46			07:35			07:24		07:55 (KLZ_WT11)	08:17			08:48		09:20 (MXS_WT01)
	21:44		20:48			19:39			17:34	7	08:02 (KLZ_WT11)	16:47			16:42	4	09:24 (MXS_WT01)
26	06:00		06:48			07:36			07:26		07:54 (KLZ_WT11)	08:19			08:49		09:20 (MXS_WT01)
	21:43		20:46			19:37			17:32	10	08:04 (KLZ_WT11)	16:46			16:43	4	09:24 (MXS_WT01)
27	06:02		06:49			07:38			07:28		07:54 (KLZ_WT11)	08:20			08:49		09:20 (MXS_WT01)
	21:41		20:44			19:34			17:30	9	08:03 (KLZ_WT11)	16:45			16:43	5	09:25 (MXS_WT01)
28	06:03		06:51			07:40			07:30		07:56 (KLZ_WT11)	08:22			08:49		09:20 (MXS_WT01)
	21:40		20:42			19:32			17:28	8	08:04 (KLZ_WT11)	16:44			16:44	5	09:25 (MXS_WT01)
29	06:05		06:52			07:41			07:31		07:58 (KLZ_WT11)	08:23			08:49		09:20 (MXS_WT01)
	21:38		20:40			19:30			17:27	6	08:04 (KLZ_WT11)	16:44			16:45	5	09:25 (MXS_WT01)
30	06:06		06:54			07:43			07:33		08:00 (KLZ_WT11)	08:25			08:50		09:20 (MXS_WT01)
	21:37		20:38			19:28			17:25	3	08:03 (KLZ_WT11)	16:43			16:46	5	09:25 (MXS_WT01)
31	06:08		06:56						07:35						08:50		09:20 (MXS_WT01)
	21:35		20:35						17:23						16:47	6	09:26 (MXS_WT01)
Potential sun hours	498		451			380			333			269			248		
Total, worst case				77			124			220			554			131	
Sun reduction				0,47			0,43			0,36			0,27			0,23	
Oper. time red.				0,97			0,97			0,97			0,97			0,97	
Wind dir. red.				0,66			0,63			0,55			0,67			0,53	
Total reduction				0,30			0,27			0,20			0,18			0,12	
Total, real				23			33			43			97			15	

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

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

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (CBR_WT01)	07:32			07:23			06:20			05:36		20:33 (KLZ_WT13)
	16:48			17:35	26	16:57 (KLZ_WT15)	18:25			20:17			21:06			21:51	23	20:56 (KLZ_WT13)
2	08:50			08:23		08:48 (CBR_WT01)	07:30			07:21			06:18			05:36		20:35 (KLZ_WT13)
	16:49			17:36	24	16:55 (KLZ_WT15)	18:26			20:19			21:08			21:52	21	20:56 (KLZ_WT13)
3	08:49			08:21		08:48 (CBR_WT01)	07:28			07:19			06:16			05:35		20:35 (KLZ_WT13)
	16:50			17:38	20	09:08 (CBR_WT01)	18:28			20:20			21:09			21:53	21	20:56 (KLZ_WT13)
4	08:49			08:19		08:48 (CBR_WT01)	07:26			07:17			06:15			05:34		20:35 (KLZ_WT13)
	16:51			17:40	21	09:09 (CBR_WT01)	18:30			20:22			21:11			21:54	22	21:21 (EVE_WT01)
5	08:49			08:18		08:48 (CBR_WT01)	07:24			07:14			06:13			05:34		20:37 (KLZ_WT13)
	16:53			17:42	21	09:09 (CBR_WT01)	18:32			20:24			21:13			21:55	22	21:23 (EVE_WT01)
6	08:49			08:16		08:47 (CBR_WT01)	07:21			07:12		07:34 (SAM_WT08)	06:11		20:40 (KLZ_WT13)	05:33		20:37 (KLZ_WT13)
	16:54			17:44	22	09:09 (CBR_WT01)	18:33			20:25	1	07:35 (SAM_WT08)	21:14	5	20:45 (KLZ_WT13)	21:56	22	21:23 (EVE_WT01)
7	08:48			08:15		08:47 (CBR_WT01)	07:19			07:10		07:32 (SAM_WT08)	06:09		20:37 (KLZ_WT13)	05:32		20:38 (KLZ_WT13)
	16:55			17:45	22	09:09 (CBR_WT01)	18:35			20:27	2	07:34 (SAM_WT08)	21:16	10	20:47 (KLZ_WT13)	21:56	22	21:24 (EVE_WT01)
8	08:48			08:13		08:49 (CBR_WT01)	07:17			07:08		07:30 (SAM_WT08)	06:08		20:35 (KLZ_WT13)	05:32		20:38 (KLZ_WT13)
	16:56			17:47	20	09:09 (CBR_WT01)	18:37			20:29	2	07:32 (SAM_WT08)	21:17	13	20:48 (KLZ_WT13)	21:57	22	21:25 (EVE_WT01)
9	08:48			08:11		08:49 (CBR_WT01)	07:15		07:38 (SAM_WT04)	07:05			06:06		20:34 (KLZ_WT13)	05:31		20:40 (KLZ_WT13)
	16:58			17:49	20	09:09 (CBR_WT01)	18:39	1	07:39 (SAM_WT04)	20:30			21:19	16	20:50 (KLZ_WT13)	21:58	21	21:26 (EVE_WT01)
10	08:47			08:09		08:49 (CBR_WT01)	07:13		07:35 (SAM_WT04)	07:03			06:04		20:32 (KLZ_WT13)	05:31		20:41 (KLZ_WT13)
	16:59			17:51	19	09:08 (CBR_WT01)	18:40	4	07:39 (SAM_WT04)	20:32			21:21	19	20:51 (KLZ_WT13)	21:59	21	21:27 (EVE_WT01)
11	08:46			08:08		08:50 (CBR_WT01)	07:10		07:33 (SAM_WT04)	07:01		07:24 (SAM_WT06)	06:03		20:32 (KLZ_WT13)	05:31		20:42 (KLZ_WT13)
	17:00			17:53	17	09:07 (CBR_WT01)	18:42	6	07:39 (SAM_WT04)	20:34	5	07:29 (SAM_WT06)	21:22	21	20:53 (KLZ_WT13)	22:00	21	21:28 (EVE_WT01)
12	08:46			08:06		08:51 (CBR_WT01)	07:08		07:31 (SAM_WT04)	06:59		07:21 (SAM_WT06)	06:01		20:31 (KLZ_WT13)	05:30		20:42 (KLZ_WT13)
	17:02			17:54	15	09:06 (CBR_WT01)	18:44	7	07:38 (SAM_WT04)	20:35	8	07:29 (SAM_WT06)	21:24	23	20:54 (KLZ_WT13)	22:00	20	21:27 (EVE_WT01)
13	08:45			08:04		08:53 (CBR_WT01)	07:06		07:29 (SAM_WT04)	06:57		07:19 (SAM_WT06)	05:59		20:30 (KLZ_WT13)	05:30		20:43 (KLZ_WT13)
	17:03			17:56	10	09:03 (CBR_WT01)	18:45	8	07:37 (SAM_WT04)	20:37	11	07:30 (SAM_WT06)	21:25	26	20:56 (KLZ_WT13)	22:01	19	21:28 (EVE_WT01)
14	08:44			08:02			07:04		07:29 (SAM_WT04)	06:55		07:17 (SAM_WT06)	05:58		20:29 (KLZ_WT13)	05:30		20:45 (KLZ_WT13)
	17:05			17:58			18:47	5	07:34 (SAM_WT04)	20:38	14	07:31 (SAM_WT06)	21:27	27	20:56 (KLZ_WT13)	22:02	17	21:29 (EVE_WT01)
15	08:44			08:00			07:02			06:52		07:15 (SAM_WT06)	05:56		20:29 (KLZ_WT13)	05:30		20:46 (KLZ_WT13)
	17:06			18:00			18:49			20:40	21	20:14 (EVE_WT02)	21:28	28	20:57 (KLZ_WT13)	22:02	15	21:29 (EVE_WT01)
16	08:43			07:58			06:59		07:22 (SAM_WT11)	06:50		07:13 (SAM_WT06)	05:55		20:29 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:08			18:02			18:50	2	07:24 (SAM_WT11)	20:42	26	20:15 (EVE_WT02)	21:30	29	20:58 (KLZ_WT13)	22:03	12	21:30 (EVE_WT01)
17	08:42			07:57		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT07)	06:48		07:13 (SAM_WT06)	05:53		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:09			18:03	2	08:22 (SAM_WT05)	18:52	6	07:25 (SAM_WT07)	20:43	29	20:17 (EVE_WT02)	21:31	29	20:58 (KLZ_WT13)	22:03	12	21:30 (EVE_WT01)
18	08:41			07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT07)	06:46		07:13 (SAM_WT06)	05:52		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:11			18:05	5	08:23 (SAM_WT05)	18:54	10	07:27 (SAM_WT07)	20:45	32	20:19 (EVE_WT02)	21:33	29	20:58 (KLZ_WT13)	22:03	13	21:31 (EVE_WT01)
19	08:40			07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT07)	06:44		07:13 (SAM_WT06)	05:51		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:12			18:07	7	08:23 (SAM_WT05)	18:55	14	07:29 (SAM_WT07)	20:47	32	20:20 (EVE_WT02)	21:34	29	20:58 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
20	08:39			07:51		08:14 (SAM_WT05)	06:50		07:13 (SAM_WT07)	06:42		07:14 (SAM_WT06)	05:49		20:29 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:14			18:09	10	08:24 (SAM_WT05)	18:57	16	07:29 (SAM_WT07)	20:48	33	20:22 (EVE_WT02)	21:35	30	20:59 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
21	08:38		16:43 (KLZ_WT15)	07:49		08:12 (SAM_WT05)	06:48		07:10 (SAM_WT07)	06:40		07:15 (SAM_WT06)	05:48		20:28 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:16	1	16:44 (KLZ_WT15)	18:11	11	08:23 (SAM_WT05)	18:59	19	07:29 (SAM_WT07)	20:50	33	20:23 (EVE_WT02)	21:37	30	20:58 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
22	08:37		16:43 (KLZ_WT15)	07:47		08:10 (SAM_WT05)	06:46		07:09 (SAM_WT07)	06:38		07:17 (SAM_WT06)	05:47		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:17	3	16:46 (KLZ_WT15)	18:12	13	08:23 (SAM_WT05)	19:00	20	07:29 (SAM_WT07)	20:52	30	20:25 (EVE_WT02)	21:38	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
23	08:36		16:43 (KLZ_WT15)	07:45		08:10 (SAM_WT05)	06:44		07:09 (SAM_WT07)	06:36		20:02 (EVE_WT02)	05:46		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:19	5	16:48 (KLZ_WT15)	18:14	12	08:22 (SAM_WT05)	19:02	20	07:29 (SAM_WT07)	20:53	23	20:25 (EVE_WT02)	21:40	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
24	08:35		16:43 (KLZ_WT15)	07:43		08:12 (SAM_WT05)	06:41		07:09 (SAM_WT07)	06:34		20:02 (EVE_WT02)	05:44		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:21	7	16:50 (KLZ_WT15)	18:16	8	08:20 (SAM_WT05)	19:04	20	07:29 (SAM_WT07)	20:55	22	20:24 (EVE_WT02)	21:41	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
25	08:34		16:43 (KLZ_WT15)	07:41			06:39		07:08 (SAM_WT07)	06:32		20:02 (EVE_WT02)	05:43		20:30 (KLZ_WT13)	05:31		21:20 (EVE_WT01)
	17:22	8	16:51 (KLZ_WT15)	18:18			19:05	19	07:27 (SAM_WT07)	20:56	22	20:24 (EVE_WT02)	21:42	28	20:58 (KLZ_WT13)	22:05	13	21:33 (EVE_WT01)
26	08:32		16:43 (KLZ_WT15)	07:38			06:37		07:09 (SAM_WT07)	06:30		20:02 (EVE_WT02)	05:42		20:30 (KLZ_WT13)	05:31		21:20 (EVE_WT01)
	17:24	11	16:54 (KLZ_WT15)	18:19			19:07	17	07:26 (SAM_WT07)	20:58	21	20:23 (EVE_WT02)	21:43	28	20:58 (KLZ_WT13)	22:05	12	21:32 (EVE_WT01)
27	08:31		16:43 (KLZ_WT15)	07:36			06:35		07:10 (SAM_WT07)	06:28		20:03 (EVE_WT02)	05:41		20:31 (KLZ_WT13)	05:32		20:49 (KLZ_WT13)
	17:26	12	16:55 (KLZ_WT15)	18:21			19:09	15	07:25 (SAM_WT07)	21:00	19	20:22 (EVE_WT02)	21:45	26	20:57 (KLZ_WT13)	22:05	14	21:32 (EVE_WT01)
28	08:30		16:44 (KLZ_WT15)	07:34			06:32		07:11 (SAM_WT07)	06:26		20:04 (EVE_WT02)	05:40		20:31 (KLZ_WT13)	05:32		20:48 (KLZ_WT13)
	17:28	13	16:57 (KLZ_WT15)	18:23			19:10	11	07:22 (SAM_WT07)	21:01	16	20:20 (EVE_WT02)	21:46	26	20:57 (KLZ_WT13)	22:05	16	21:32 (EVE_WT01)
29	08:28		08:54 (CBR_WT01)				07:30		08:15 (SAM_WT07)	06:24		20:06 (EVE_WT02)	05:39		20:32 (KLZ_WT13)	05:33		20:47 (KLZ_WT13)
	17:29	23	16:59 (KLZ_WT15)				20:12	3	08:18 (SAM_WT07)	21:03	14	20:20 (EVE_WT02)	21:47	26	20:58 (KLZ_WT13)	22:05	18	21:32 (EVE_WT01)
30	08:27		08:53 (CBR_WT01)				07:28			06:22		20:08 (EVE_WT02)	05:38		20:33 (KLZ_WT13)	05:33		20:47 (KLZ_WT13)
	17:31	25	16:59 (KLZ_WT15)				20:14			21:05	9	20:17 (EVE_WT02)	21:48	24	20:57 (KLZ_WT13)	22:04	19	21:32 (EVE_WT01)
31	08:26		08:51 (CBR_WT01)				07:26						05:37		20:33 (KLZ_WT13)			
	17:33	26	16:58 (KLZ_WT15)				20:15						21:49	24	20:57 (KLZ_WT13)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	134			325			223			425			633			516		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,67			0,56			0,60			0,59			0,56			0,55		
Total reduction	0,16			0,16			0,22			0,27			0,25			0,24		
Total, real	22			53			49			113			157			123		

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

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

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

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	July			August			September			October			November			December		
1	05:34		20:47 (KLZ_WT13)	06:09		20:41 (KLZ_WT13)	06:57		07:23 (SAM_WT06)	07:44		08:09 (SAM_WT04)	07:37		08:19 (CBR_WT01)	08:26		
	22:04	20	21:32 (EVE_WT01)	21:34	23	21:04 (KLZ_WT13)	20:33	5	07:28 (SAM_WT06)	19:25	8	08:17 (SAM_WT04)	17:21	19	08:38 (CBR_WT01)	16:42		
2	05:34		20:45 (KLZ_WT13)	06:11		20:43 (KLZ_WT13)	06:59			07:46		08:11 (SAM_WT04)	07:38		08:18 (CBR_WT01)	08:27		
	22:04	21	21:31 (EVE_WT01)	21:32	20	21:03 (KLZ_WT13)	20:31			19:23	6	08:17 (SAM_WT04)	17:19	21	08:39 (CBR_WT01)	16:41		
3	05:35		20:45 (KLZ_WT13)	06:12		20:43 (KLZ_WT13)	07:00			07:48		08:12 (SAM_WT04)	07:40		08:17 (CBR_WT01)	08:29		
	22:04	21	21:31 (EVE_WT01)	21:30	18	21:01 (KLZ_WT13)	20:29			19:21	5	08:17 (SAM_WT04)	17:17	21	08:38 (CBR_WT01)	16:41		
4	05:36		20:45 (KLZ_WT13)	06:14		20:44 (KLZ_WT13)	07:02		07:27 (SAM_WT08)	07:49		08:14 (SAM_WT04)	07:42		08:17 (CBR_WT01)	08:30		
	22:03	21	21:31 (EVE_WT01)	21:29	15	20:59 (KLZ_WT13)	20:27	2	07:29 (SAM_WT08)	19:19	2	08:16 (SAM_WT04)	17:16	22	08:39 (CBR_WT01)	16:40		
5	05:37		20:44 (KLZ_WT13)	06:15		20:46 (KLZ_WT13)	07:03		07:29 (SAM_WT08)	07:51			07:44		08:17 (CBR_WT01)	08:31		
	22:03	22	21:30 (EVE_WT01)	21:27	12	20:58 (KLZ_WT13)	20:24	2	07:31 (SAM_WT08)	19:16			17:14	22	08:39 (CBR_WT01)	16:40		
6	05:37		20:44 (KLZ_WT13)	06:17		20:48 (KLZ_WT13)	07:05		07:30 (SAM_WT08)	07:53			07:45		08:18 (CBR_WT01)	08:33		
	22:02	22	21:30 (EVE_WT01)	21:25	8	20:56 (KLZ_WT13)	20:22	1	07:31 (SAM_WT08)	19:14			17:12	21	08:39 (CBR_WT01)	16:39		
7	05:38		20:43 (KLZ_WT13)	06:18			07:07			07:54			07:47		08:18 (CBR_WT01)	08:34		
	22:02	22	21:29 (EVE_WT01)	21:24			20:20			19:12			17:11	21	08:39 (CBR_WT01)	16:39		
8	05:39		20:43 (KLZ_WT13)	06:20			07:08			07:56			07:49		08:19 (CBR_WT01)	08:35		
	22:01	22	21:29 (EVE_WT01)	21:22			20:18			19:10			17:09	20	08:39 (CBR_WT01)	16:39		
9	05:40		20:43 (KLZ_WT13)	06:21			07:10			07:57			07:50		08:19 (CBR_WT01)	08:36		
	22:00	21	21:29 (EVE_WT01)	21:20			20:15			19:08			17:07	24	16:26 (KLZ_WT15)	16:39		
10	05:41		20:42 (KLZ_WT13)	06:23			07:11			07:59			07:52		08:21 (CBR_WT01)	08:37		
	22:00	22	21:04 (KLZ_WT13)	21:18			20:13			19:05			17:06	26	16:28 (KLZ_WT15)	16:38		
11	05:42		20:42 (KLZ_WT13)	06:24			07:13			08:01			07:54		08:23 (CBR_WT01)	08:38		
	21:59	22	21:04 (KLZ_WT13)	21:16			20:11			19:03			17:04	26	16:30 (KLZ_WT15)	16:38		
12	05:43		20:42 (KLZ_WT13)	06:26		20:19 (EVE_WT02)	07:14			08:02			07:56		08:24 (CBR_WT01)	08:39		
	21:58	23	21:05 (KLZ_WT13)	21:14	3	20:22 (EVE_WT02)	20:09			19:01			17:03	25	16:30 (KLZ_WT15)	16:38		
13	05:44		20:41 (KLZ_WT13)	06:27		20:15 (EVE_WT02)	07:16			08:04			07:57		08:26 (CBR_WT01)	08:40		
	21:57	24	21:05 (KLZ_WT13)	21:13	10	20:25 (EVE_WT02)	20:06			18:59			17:01	22	16:31 (KLZ_WT15)	16:38		
14	05:45		20:41 (KLZ_WT13)	06:29		20:13 (EVE_WT02)	07:17			08:06			07:59		16:16 (KLZ_WT15)	08:41		
	21:56	25	21:06 (KLZ_WT13)	21:11	15	20:28 (EVE_WT02)	20:04			18:57			17:00	13	16:29 (KLZ_WT15)	16:38		
15	05:46		20:41 (KLZ_WT13)	06:30		20:11 (EVE_WT02)	07:19		08:02 (SAM_WT07)	08:07			08:01		16:16 (KLZ_WT15)	08:42		
	21:56	25	21:06 (KLZ_WT13)	21:09	17	20:28 (EVE_WT02)	20:02	10	08:12 (SAM_WT07)	18:55			16:59	12	16:28 (KLZ_WT15)	16:38		
16	05:48		20:40 (KLZ_WT13)	06:32		20:10 (EVE_WT02)	07:21		07:59 (SAM_WT07)	08:09			08:02		16:16 (KLZ_WT15)	08:43		09:34 (KLZ_WT11)
	21:55	27	21:07 (KLZ_WT13)	21:07	19	20:29 (EVE_WT02)	20:00	14	08:13 (SAM_WT07)	18:52			16:57	11	16:27 (KLZ_WT15)	16:38	2	09:36 (KLZ_WT11)
17	05:49		20:40 (KLZ_WT13)	06:34		20:09 (EVE_WT02)	07:22		07:58 (SAM_WT07)	08:11		08:45 (SAM_WT05)	08:04		16:17 (KLZ_WT15)	08:44		09:34 (KLZ_WT11)
	21:54	27	21:07 (KLZ_WT13)	21:05	21	20:30 (EVE_WT02)	19:57	17	08:15 (SAM_WT07)	18:50	4	08:49 (SAM_WT05)	16:56	8	16:25 (KLZ_WT15)	16:38	3	09:37 (KLZ_WT11)
18	05:50		20:39 (KLZ_WT13)	06:35		20:09 (EVE_WT02)	07:24		07:56 (SAM_WT07)	08:12		08:43 (SAM_WT05)	08:06		16:16 (KLZ_WT15)	08:45		09:33 (KLZ_WT11)
	21:52	28	21:07 (KLZ_WT13)	21:03	21	20:30 (EVE_WT02)	19:55	19	08:15 (SAM_WT07)	18:48	9	08:52 (SAM_WT05)	16:55	7	16:23 (KLZ_WT15)	16:39	5	09:38 (KLZ_WT11)
19	05:51		20:39 (KLZ_WT13)	06:37		20:07 (EVE_WT02)	07:25		07:56 (SAM_WT07)	08:14		08:41 (SAM_WT05)	08:07		16:17 (KLZ_WT15)	08:45		09:24 (MVN_WT01)
	21:51	28	21:07 (KLZ_WT13)	21:01	23	20:30 (EVE_WT02)	19:53	19	08:15 (SAM_WT07)	18:46	12	08:53 (SAM_WT05)	16:53	5	16:22 (KLZ_WT15)	16:39	7	09:39 (KLZ_WT11)
20	05:52		20:40 (KLZ_WT13)	06:38		20:08 (EVE_WT02)	07:27		07:55 (SAM_WT07)	08:16		08:42 (SAM_WT05)	08:09		16:18 (KLZ_WT15)	08:46		09:25 (MVN_WT01)
	21:50	28	21:08 (KLZ_WT13)	20:59	23	20:31 (EVE_WT02)	19:50	21	08:16 (SAM_WT07)	18:44	12	08:54 (SAM_WT05)	16:52	3	16:21 (KLZ_WT15)	16:39	8	09:40 (KLZ_WT11)
21	05:54		20:39 (KLZ_WT13)	06:40		07:21 (SAM_WT06)	07:28		07:54 (SAM_WT07)	08:18		08:43 (SAM_WT05)	08:11		16:19 (KLZ_WT15)	08:47		09:25 (MVN_WT01)
	21:49	29	21:08 (KLZ_WT13)	20:57	31	20:29 (EVE_WT02)	19:48	21	08:15 (SAM_WT07)	18:42	11	08:54 (SAM_WT05)	16:51	1	16:20 (KLZ_WT15)	16:40	8	09:40 (KLZ_WT11)
22	05:55		20:39 (KLZ_WT13)	06:41		07:19 (SAM_WT06)	07:30		07:55 (SAM_WT07)	08:19		08:45 (SAM_WT05)	08:12			08:47		09:26 (MVN_WT01)
	21:48	29	21:08 (KLZ_WT13)	20:55	34	20:28 (EVE_WT02)	19:46	20	08:15 (SAM_WT07)	18:40	9	08:54 (SAM_WT05)	16:50			16:40	8	09:41 (KLZ_WT11)
23	05:56		20:39 (KLZ_WT13)	06:43		07:17 (SAM_WT06)	07:32		07:56 (SAM_WT07)	08:21		08:47 (SAM_WT05)	08:14			08:48		09:26 (MVN_WT01)
	21:47	29	21:08 (KLZ_WT13)	20:53	33	20:25 (EVE_WT02)	19:44	17	08:13 (SAM_WT07)	18:38	7	08:54 (SAM_WT05)	16:49			16:41	8	09:41 (KLZ_WT11)
24	05:58		20:39 (KLZ_WT13)	06:45		07:17 (SAM_WT06)	07:33		07:58 (SAM_WT07)	08:23		08:49 (SAM_WT05)	08:16			08:48		09:26 (MVN_WT01)
	21:45	29	21:08 (KLZ_WT13)	20:50	33	20:24 (EVE_WT02)	19:41	15	08:13 (SAM_WT07)	18:36	4	08:53 (SAM_WT05)	16:48			16:41	7	09:41 (KLZ_WT11)
25	05:59		20:39 (KLZ_WT13)	06:46		07:16 (SAM_WT06)	07:35		07:59 (SAM_WT07)	07:24		07:51 (SAM_WT05)	08:17			08:48		09:28 (MVN_WT01)
	21:44	30	21:09 (KLZ_WT13)	20:48	31	20:21 (EVE_WT02)	19:39	11	08:10 (SAM_WT07)	17:34	2	07:53 (SAM_WT05)	16:47			16:42	6	09:42 (KLZ_WT11)
26	06:00		20:39 (KLZ_WT13)	06:48		07:16 (SAM_WT06)	07:36		08:01 (SAM_WT07)	07:26			08:19			08:49		09:38 (KLZ_WT11)
	21:43	29	21:08 (KLZ_WT13)	20:46	29	20:20 (EVE_WT02)	19:37	8	08:09 (SAM_WT07)	17:32			16:46			16:43	3	09:41 (KLZ_WT11)
27	06:02		20:39 (KLZ_WT13)	06:49		07:15 (SAM_WT06)	07:38		08:03 (SAM_WT07)	07:28			08:20			08:49		09:39 (KLZ_WT11)
	21:41	29	21:08 (KLZ_WT13)	20:44	26	20:17 (EVE_WT02)	19:34	3	08:06 (SAM_WT11)	17:30			16:45			16:43	2	09:41 (KLZ_WT11)
28	06:03		20:40 (KLZ_WT13)	06:51		07:17 (SAM_WT06)	07:40			07:30		08:25 (CBR_WT01)	08:22			08:49		
	21:40	28	21:08 (KLZ_WT13)	20:42	20	20:15 (EVE_WT02)	19:32			17:28	5	08:30 (CBR_WT01)	16:44			16:44		
29	06:05		20:40 (KLZ_WT13)	06:52		07:18 (SAM_WT06)	07:41		08:11 (SAM_WT04)	07:31		08:22 (CBR_WT01)	08:23			08:49		
	21:38	28	21:08 (KLZ_WT13)	20:40	14	07:32 (SAM_WT06)	19:30	2	08:13 (SAM_WT04)	17:26	12	08:34 (CBR_WT01)	16:43			16:45		
30	06:06		20:40 (KLZ_WT13)	06:54		07:20 (SAM_WT06)	07:43		08:07 (SAM_WT04)	07:33		08:21 (CBR_WT01)	08:25			08:50		
	21:37	27	21:07 (KLZ_WT13)	20:38	11	07:31 (SAM_WT06)	19:28	8	08:15 (SAM_WT04)	17:25	14	08:35 (CBR_WT01)	16:43			16:46		
31	06:08		20:41 (KLZ_WT13)	06:56		07:21 (SAM_WT06)				07:35		08:20 (CBR_WT01)				08:50		
	21:35	25	21:06 (KLZ_WT13)	20:35	8	07:29 (SAM_WT06)				17:23	17	08:37 (CBR_WT01)				16:47		
Potential sun hours	498			452			380			333			269			248		
Total, worst case		783			518			215			139			350			67	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,56			0,58			0,60			0,56			0,60			0,54	
Total reduction		0,24			0,27			0,26			0,20			0,16			0,12	
Total, real		190			138			55			27			55			8	

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

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

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	January			February			March			April			May			June		
1	08:50		10:51 (KLZ_WT06)	08:24		08:52 (SAM_WT07)	07:32		08:03 (SAM_WT06)	07:23		08:12 (KLZ_WT17)	06:20		06:44 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:48	125	14:39 (KLZ_WT20)	17:35	119	17:05 (EVE_WT02)	18:25	27	08:33 (KLZ_WT05)	20:17	19	08:31 (KLZ_WT17)	21:06	5	06:49 (SAM_WT10)	21:51	10	06:14 (TEN_WT01)
2	08:50		10:51 (KLZ_WT06)	08:23		08:52 (SAM_WT07)	07:30		08:04 (SAM_WT06)	07:21		08:15 (KLZ_WT17)	06:18		06:42 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:49	127	16:15 (KLZ_WT13)	17:36	107	17:07 (EVE_WT02)	18:26	30	18:01 (EVE_WT01)	20:19	13	08:28 (KLZ_WT17)	21:08	6	06:48 (SAM_WT10)	21:52	11	06:15 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:52 (SAM_WT07)	07:28		08:07 (SAM_WT06)	07:19			06:16		06:41 (SAM_WT10)	05:35		06:03 (TEN_WT01)
	16:50	130	16:17 (KLZ_WT13)	17:38	105	17:09 (EVE_WT02)	18:28	36	18:03 (EVE_WT01)	20:20			21:10	6	06:47 (SAM_WT10)	21:53	13	06:16 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT04)	07:26		08:14 (KLZ_WT05)	07:17		07:39 (KLZ_WT02)	06:15		06:39 (SAM_WT10)	05:34		06:02 (TEN_WT01)
	16:51	132	16:17 (KLZ_WT13)	17:40	101	17:11 (EVE_WT02)	18:30	38	18:05 (EVE_WT01)	20:22	3	07:42 (KLZ_WT02)	21:11	6	06:45 (SAM_WT10)	21:54	14	06:16 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24		08:11 (KLZ_WT05)	07:14		07:37 (KLZ_WT02)	06:13			05:33		06:02 (TEN_WT01)
	16:52	136	16:19 (KLZ_WT13)	17:42	94	17:13 (EVE_WT02)	18:32	45	18:06 (EVE_WT01)	20:24	6	07:43 (KLZ_WT02)	21:13			21:55	15	06:17 (TEN_WT01)
6	08:49		09:18 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21		08:10 (KLZ_WT05)	07:12		07:34 (KLZ_WT02)	06:11			05:33		06:01 (TEN_WT01)
	16:54	139	16:20 (KLZ_WT13)	17:44	76	17:15 (EVE_WT02)	18:33	50	18:08 (EVE_WT01)	20:25	8	07:42 (KLZ_WT02)	21:14			21:56	16	06:17 (TEN_WT01)
7	08:48		09:18 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19		08:09 (KLZ_WT05)	07:10		07:32 (KLZ_WT01)	06:09			05:32		06:01 (TEN_WT01)
	16:55	140	16:22 (KLZ_WT13)	17:45	68	17:16 (EVE_WT02)	18:35	54	18:10 (EVE_WT01)	20:27	10	07:42 (KLZ_WT02)	21:16			21:57	17	06:18 (TEN_WT01)
8	08:48		09:17 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17		08:09 (KLZ_WT05)	07:08		07:30 (KLZ_WT01)	06:08			05:32		06:00 (TEN_WT01)
	16:56	143	16:23 (KLZ_WT13)	17:47	70	17:18 (EVE_WT02)	18:37	57	18:12 (EVE_WT01)	20:29	11	07:41 (KLZ_WT02)	21:17			21:57	17	06:17 (TEN_WT01)
9	08:48		09:17 (SAM_WT05)	08:11		08:36 (SAM_WT11)	07:15		07:38 (SAM_WT08)	07:05		07:28 (KLZ_WT01)	06:06			05:31		06:00 (TEN_WT01)
	16:58	145	16:25 (KLZ_WT13)	17:49	69	17:17 (EVE_WT02)	18:39	59	18:12 (EVE_WT01)	20:30	12	07:40 (KLZ_WT02)	21:19			21:58	18	06:18 (TEN_WT01)
10	08:47		09:16 (SAM_WT05)	08:09		08:34 (SAM_WT11)	07:13		07:35 (SAM_WT08)	07:03		07:26 (KLZ_WT01)	06:04			05:31		06:00 (TEN_WT01)
	16:59	148	16:26 (KLZ_WT13)	17:51	70	17:17 (EVE_WT02)	18:40	62	18:12 (EVE_WT01)	20:32	6	07:32 (KLZ_WT01)	21:21			21:59	19	06:19 (TEN_WT01)
11	08:47		09:15 (SAM_WT05)	08:08		08:32 (SAM_WT11)	07:10		08:07 (KLZ_WT05)	07:01		07:27 (KLZ_WT01)	06:03			05:31		06:01 (TEN_WT01)
	17:00	149	16:27 (KLZ_WT13)	17:53	68	17:16 (EVE_WT02)	18:42	60	18:12 (EVE_WT01)	20:34	3	07:30 (KLZ_WT01)	21:22			22:00	18	06:19 (TEN_WT01)
12	08:46		09:15 (SAM_WT05)	08:06		08:30 (SAM_WT11)	07:08		07:31 (KLZ_WT17)	06:59			06:01			05:30		06:00 (TEN_WT01)
	17:02	149	16:29 (KLZ_WT13)	17:54	66	17:15 (EVE_WT02)	18:44	59	18:11 (EVE_WT01)	20:35			21:24			22:00	19	06:19 (TEN_WT01)
13	08:45		09:15 (SAM_WT05)	08:04		08:32 (SAM_WT11)	07:06		07:29 (KLZ_WT17)	06:57			05:59			05:30		06:00 (TEN_WT01)
	17:03	150	16:31 (KLZ_WT13)	17:56	56	17:13 (EVE_WT02)	18:45	66	18:11 (EVE_WT01)	20:37			21:25			22:01	19	06:19 (TEN_WT01)
14	08:45		09:16 (SAM_WT05)	08:02		16:13 (KLZ_WT12)	07:04		07:26 (KLZ_WT17)	06:55			05:58			05:30		06:01 (TEN_WT01)
	17:05	150	16:32 (KLZ_WT13)	17:58	47	17:11 (EVE_WT02)	18:47	67	18:09 (EVE_WT01)	20:38			21:27			22:02	18	06:19 (TEN_WT01)
15	08:44		10:57 (KLZ_WT06)	08:00		16:13 (KLZ_WT12)	07:02		07:24 (KLZ_WT17)	06:52			05:56			05:30		06:01 (TEN_WT01)
	17:06	144	16:34 (KLZ_WT13)	18:00	38	16:51 (KLZ_WT12)	18:49	68	18:08 (EVE_WT01)	20:40			21:28			22:02	19	06:20 (TEN_WT01)
16	08:43		10:57 (KLZ_WT06)	07:58		16:14 (KLZ_WT12)	06:59		07:22 (KLZ_WT17)	06:50			05:55			05:29		06:01 (TEN_WT01)
	17:08	144	16:35 (KLZ_WT13)	18:02	36	16:50 (KLZ_WT12)	18:50	67	18:07 (EVE_WT01)	20:42			21:30			22:03	19	06:20 (TEN_WT01)
17	08:42		10:58 (KLZ_WT06)	07:57		16:15 (KLZ_WT12)	06:57		07:19 (KLZ_WT17)	06:48			05:53			05:29		06:01 (TEN_WT01)
	17:09	143	16:35 (KLZ_WT13)	18:03	34	16:49 (KLZ_WT12)	18:52	64	18:04 (EVE_WT01)	20:43			21:31			22:03	19	06:20 (TEN_WT01)
18	08:41		10:58 (KLZ_WT06)	07:55		16:17 (KLZ_WT12)	06:55		07:17 (KLZ_WT17)	06:46			05:52			05:29		06:01 (TEN_WT01)
	17:11	143	16:36 (KLZ_WT13)	18:05	31	16:48 (KLZ_WT12)	18:54	58	18:01 (EVE_WT01)	20:45			21:33			22:04	19	06:20 (TEN_WT01)
19	08:40		10:59 (KLZ_WT06)	07:53		16:18 (KLZ_WT12)	06:53		07:15 (KLZ_WT17)	06:44			05:51			05:29		06:02 (TEN_WT01)
	17:12	141	16:36 (KLZ_WT13)	18:07	29	16:47 (KLZ_WT12)	18:55	48	08:31 (KLZ_WT05)	20:47			21:34			22:04	19	06:21 (TEN_WT01)
20	08:39		11:00 (KLZ_WT06)	07:51		16:21 (KLZ_WT12)	06:50		07:13 (KLZ_WT17)	06:42			05:49			05:30		06:02 (TEN_WT01)
	17:14	139	16:37 (KLZ_WT13)	18:09	24	16:45 (KLZ_WT12)	18:57	47	08:29 (KLZ_WT05)	20:48			21:35			22:04	19	06:21 (TEN_WT01)
21	08:38		11:00 (KLZ_WT06)	07:49		08:12 (SAM_WT06)	06:48		07:10 (KLZ_WT17)	06:40			05:48			05:30		06:02 (TEN_WT01)
	17:16	137	16:36 (KLZ_WT13)	18:11	24	16:43 (KLZ_WT12)	18:59	42	08:24 (KLZ_WT05)	20:50			21:37			22:04	19	06:21 (TEN_WT01)
22	08:37		11:01 (KLZ_WT06)	07:47		08:10 (SAM_WT06)	06:46		07:08 (KLZ_WT17)	06:38			05:47			05:30		06:03 (TEN_WT01)
	17:17	135	16:37 (KLZ_WT13)	18:12	22	16:40 (KLZ_WT12)	19:00	35	07:43 (KLZ_WT17)	20:52			21:38			22:05	19	06:22 (TEN_WT01)
23	08:36		11:02 (KLZ_WT06)	07:45		08:08 (SAM_WT06)	06:44		07:08 (KLZ_WT17)	06:36			05:46			05:30		06:03 (TEN_WT01)
	17:19	133	16:39 (KLZ_WT12)	18:14	11	08:19 (SAM_WT06)	19:02	35	07:43 (KLZ_WT17)	20:53			21:40			22:05	19	06:22 (TEN_WT01)
24	08:35		09:02 (SAM_WT07)	07:43		08:06 (SAM_WT06)	06:41		07:08 (KLZ_WT17)	06:34			05:44			05:30		06:02 (TEN_WT01)
	17:21	134	16:41 (KLZ_WT12)	18:16	13	08:19 (SAM_WT06)	19:04	35	07:43 (KLZ_WT17)	20:55			21:41			22:05	20	06:22 (TEN_WT01)
25	08:34		09:00 (SAM_WT07)	07:41		08:04 (SAM_WT06)	06:39		07:08 (KLZ_WT17)	06:32			05:43			05:31		06:03 (TEN_WT01)
	17:22	135	16:42 (KLZ_WT12)	18:18	16	08:20 (SAM_WT06)	19:05	34	07:42 (KLZ_WT17)	20:57			21:42			22:05	19	06:22 (TEN_WT01)
26	08:32		08:59 (SAM_WT07)	07:38		08:02 (SAM_WT06)	06:37		07:08 (KLZ_WT17)	06:30			05:42			05:31		06:03 (TEN_WT01)
	17:24	134	16:44 (KLZ_WT12)	18:19	18	08:20 (SAM_WT06)	19:07	33	07:41 (KLZ_WT17)	20:58			21:43			22:05	19	06:22 (TEN_WT01)
27	08:31		08:57 (SAM_WT07)	07:36		08:03 (SAM_WT06)	06:35		07:08 (KLZ_WT17)	06:28			05:41			05:32		06:03 (TEN_WT01)
	17:26	133	16:45 (KLZ_WT12)	18:21	16	08:19 (SAM_WT06)	19:09	32	07:40 (KLZ_WT17)	21:00			21:45			22:05	19	06:22 (TEN_WT01)
28	08:30		08:56 (SAM_WT07)	07:34		08:02 (SAM_WT06)	06:32		07:08 (KLZ_WT17)	06:26			05:40		06:07 (TEN_WT01)	05:32		06:04 (TEN_WT01)
	17:28	134	16:47 (KLZ_WT12)	18:23	16	08:18 (SAM_WT06)	19:10	31	07:39 (KLZ_WT17)	21:01			21:46	1	06:08 (TEN_WT01)	22:05	19	06:23 (TEN_WT01)
29	08:28		08:54 (SAM_WT07)				07:30		08:09 (KLZ_WT17)	06:24		06:48 (SAM_WT10)	05:39		06:07 (TEN_WT01)	05:33		06:03 (TEN_WT01)
	17:29	133	16:48 (KLZ_WT12)				20:12	28	08:37 (KLZ_WT17)	21:03	2	06:50 (SAM_WT10)	21:47	5	06:12 (TEN_WT01)	22:05	19	06:22 (TEN_WT01)
30	08:27		08:53 (SAM_WT07)				07:28		08:10 (KLZ_WT17)	06:22		06:46 (SAM_WT10)	05:38		06:06 (TEN_WT01)	05:33		06:04 (TEN_WT01)
	17:31	128	16:49 (KLZ_WT12)				20:14	26	08:36 (KLZ_WT17)	21:05	3	06:49 (SAM_WT10)	21:48	7	06:13 (TEN_WT01)	22:04	19	06:23 (TEN_WT01)
31	08:26		08:51 (SAM_WT07)				07:25		08:12 (KLZ_WT17)				05:37		06:05 (TEN_WT01)			
	17:33	127	17:03 (EVE_WT02)				20:15	22	08:34 (KLZ_WT17)				21:49	9	06:14 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		4280			1444			1415			96			45			529	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,67			0,68			0,59			0,63			0,69			0,71	
Total reduction		0,16			0,20			0,22			0,28			0,31			0,31	
Total, real		692			289			309			27			14			162	

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

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

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	July			August			September			October			November			December		
1	05:34		06:05 (TEN_WT01)	06:09			06:57		07:26 (KLZ_WT01)	07:44		08:09 (KLZ_WT17)	07:37		08:04 (SAM_WT11)	08:26		08:57 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:34			20:33	3	07:29 (KLZ_WT01)	19:25	63	18:50 (EVE_WT01)	17:21	69	16:47 (EVE_WT02)	16:42	149	16:09 (KLZ_WT13)
2	05:34		06:04 (TEN_WT01)	06:10			06:59		07:24 (KLZ_WT01)	07:46		08:46 (KLZ_WT05)	07:38		08:06 (SAM_WT11)	08:27		08:59 (SAM_WT05)
	22:04	19	06:23 (TEN_WT01)	21:32			20:31	6	07:30 (KLZ_WT01)	19:23	58	18:50 (EVE_WT01)	17:19	67	16:47 (EVE_WT02)	16:41	146	16:09 (KLZ_WT13)
3	05:35		06:05 (TEN_WT01)	06:12			07:00		07:26 (KLZ_WT01)	07:48		08:12 (SAM_WT08)	07:40		08:08 (SAM_WT04)	08:29		09:00 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:30			20:29	12	07:38 (KLZ_WT02)	19:21	62	18:49 (EVE_WT01)	17:17	70	16:47 (EVE_WT02)	16:41	145	16:08 (KLZ_WT13)
4	05:36		06:06 (TEN_WT01)	06:13			07:02		07:27 (KLZ_WT01)	07:49		08:14 (SAM_WT08)	07:42		08:09 (SAM_WT04)	08:30		09:02 (SAM_WT05)
	22:03	18	06:24 (TEN_WT01)	21:29			20:27	11	07:38 (KLZ_WT02)	19:19	59	18:49 (EVE_WT01)	17:16	69	16:46 (EVE_WT02)	16:40	142	16:08 (KLZ_WT13)
5	05:37		06:06 (TEN_WT01)	06:15			07:03		07:29 (KLZ_WT01)	07:51		08:46 (KLZ_WT05)	07:44		08:11 (SAM_WT04)	08:31		09:03 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:27			20:24	10	07:39 (KLZ_WT02)	19:16	57	18:49 (EVE_WT01)	17:14	81	16:44 (EVE_WT02)	16:40	140	16:07 (KLZ_WT13)
6	05:37		06:07 (TEN_WT01)	06:17			07:05		07:30 (KLZ_WT02)	07:53		08:45 (KLZ_WT05)	07:45		08:13 (SAM_WT04)	08:33		09:04 (SAM_WT05)
	22:02	16	06:23 (TEN_WT01)	21:25			20:22	8	07:38 (KLZ_WT02)	19:14	56	18:47 (EVE_WT01)	17:12	93	16:42 (EVE_WT02)	16:39	139	16:06 (KLZ_WT13)
7	05:38		06:08 (TEN_WT01)	06:18			07:06		07:32 (KLZ_WT02)	07:54		08:46 (KLZ_WT05)	07:47		08:15 (SAM_WT04)	08:34		09:06 (SAM_WT05)
	22:02	15	06:23 (TEN_WT01)	21:24			20:20	6	07:38 (KLZ_WT02)	19:12	51	18:45 (EVE_WT01)	17:11	101	16:41 (EVE_WT02)	16:39	136	16:06 (KLZ_WT13)
8	05:39		06:09 (TEN_WT01)	06:20			07:08		07:33 (KLZ_WT02)	07:56		08:47 (KLZ_WT05)	07:49		08:23 (SAM_WT07)	08:35		09:07 (SAM_WT05)
	22:01	14	06:23 (TEN_WT01)	21:22			20:18	4	07:37 (KLZ_WT02)	19:10	46	18:43 (EVE_WT01)	17:09	105	16:39 (EVE_WT02)	16:39	132	16:05 (KLZ_WT13)
9	05:40		06:10 (TEN_WT01)	06:21		06:49 (SAM_WT10)	07:10			07:57		08:47 (KLZ_WT05)	07:50		08:23 (SAM_WT07)	08:36		09:08 (SAM_WT05)
	22:00	13	06:23 (TEN_WT01)	21:20	6	06:55 (SAM_WT10)	20:15			19:08	41	18:40 (EVE_WT01)	17:07	107	16:38 (EVE_WT02)	16:38	130	16:05 (KLZ_WT13)
10	05:41		06:11 (TEN_WT01)	06:23		06:50 (SAM_WT10)	07:11		08:09 (KLZ_WT17)	07:59		08:49 (KLZ_WT05)	07:52		08:23 (SAM_WT07)	08:37		10:40 (KLZ_WT06)
	22:00	12	06:23 (TEN_WT01)	21:18	6	06:56 (SAM_WT10)	20:13	12	08:21 (KLZ_WT17)	19:05	34	18:38 (EVE_WT01)	17:06	119	16:36 (EVE_WT02)	16:38	129	16:05 (KLZ_WT13)
11	05:42		06:12 (TEN_WT01)	06:24		06:51 (SAM_WT10)	07:13		08:06 (KLZ_WT17)	08:01		08:40 (SAM_WT06)	07:54		08:23 (SAM_WT07)	08:38		10:41 (KLZ_WT06)
	21:59	11	06:23 (TEN_WT01)	21:16	5	06:56 (SAM_WT10)	20:11	18	08:24 (KLZ_WT17)	19:03	34	18:36 (EVE_WT01)	17:04	126	16:35 (EVE_WT02)	16:38	125	14:29 (KLZ_WT20)
12	05:43		06:13 (TEN_WT01)	06:26		06:53 (SAM_WT10)	07:14		08:03 (KLZ_WT17)	08:02		08:38 (SAM_WT06)	07:56		08:24 (SAM_WT07)	08:39		10:41 (KLZ_WT06)
	21:58	9	06:22 (TEN_WT01)	21:14	4	06:57 (SAM_WT10)	20:09	22	08:25 (KLZ_WT17)	19:01	28	09:09 (KLZ_WT05)	17:03	128	16:20 (KLZ_WT12)	16:38	126	14:30 (KLZ_WT20)
13	05:44		06:14 (TEN_WT01)	06:27		06:54 (SAM_WT10)	07:16		08:02 (KLZ_WT17)	08:04		08:36 (SAM_WT06)	07:57		08:26 (SAM_WT07)	08:40		10:42 (KLZ_WT06)
	21:57	8	06:22 (TEN_WT01)	21:13	3	06:57 (SAM_WT10)	20:06	25	08:27 (KLZ_WT17)	18:59	22	09:04 (KLZ_WT05)	17:01	132	16:19 (KLZ_WT12)	16:38	126	14:30 (KLZ_WT20)
14	05:45		06:15 (TEN_WT01)	06:29		06:56 (SAM_WT10)	07:17		08:00 (KLZ_WT17)	08:06		08:35 (SAM_WT06)	07:59		08:28 (SAM_WT07)	08:41		10:42 (KLZ_WT06)
	21:56	6	06:21 (TEN_WT01)	21:11	2	06:58 (SAM_WT10)	20:04	28	08:28 (KLZ_WT17)	18:57	16	08:51 (SAM_WT06)	17:00	134	16:19 (KLZ_WT12)	16:38	126	14:31 (KLZ_WT20)
15	05:46		06:16 (TEN_WT01)	06:30			07:19		07:59 (KLZ_WT17)	08:07		08:35 (SAM_WT06)	08:01		08:30 (SAM_WT07)	08:42		10:43 (KLZ_WT06)
	21:56	3	06:19 (TEN_WT01)	21:09			20:02	30	08:29 (KLZ_WT17)	18:55	17	08:52 (SAM_WT06)	16:59	133	16:18 (KLZ_WT12)	16:38	126	14:31 (KLZ_WT20)
16	05:48			06:32			07:21		07:57 (KLZ_WT17)	08:09		08:35 (SAM_WT06)	08:02		08:32 (SAM_WT07)	08:43		10:44 (KLZ_WT06)
	21:55			21:07			20:00	32	08:29 (KLZ_WT17)	18:52	17	08:52 (SAM_WT06)	16:57	134	16:17 (KLZ_WT12)	16:38	125	14:32 (KLZ_WT20)
17	05:49			06:34			07:22		07:56 (KLZ_WT17)	08:11		08:36 (SAM_WT06)	08:04		08:34 (SAM_WT07)	08:44		10:44 (KLZ_WT06)
	21:54			21:05			19:57	33	08:29 (KLZ_WT17)	18:50	15	08:51 (SAM_WT06)	16:56	135	16:16 (KLZ_WT12)	16:38	126	14:33 (KLZ_WT20)
18	05:50			06:35			07:24		07:55 (KLZ_WT17)	08:12		08:38 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		10:44 (KLZ_WT06)
	21:53			21:03			19:55	34	08:29 (KLZ_WT17)	18:48	12	08:50 (SAM_WT06)	16:55	134	16:15 (KLZ_WT12)	16:39	125	14:32 (KLZ_WT20)
19	05:51			06:37			07:25		07:55 (KLZ_WT17)	08:14		08:40 (SAM_WT06)	08:08		10:36 (KLZ_WT06)	08:45		10:45 (KLZ_WT06)
	21:51			21:01			19:53	34	08:29 (KLZ_WT17)	18:46	15	17:07 (KLZ_WT12)	16:53	133	16:13 (KLZ_WT12)	16:39	125	14:33 (KLZ_WT20)
20	05:52			06:38			07:27		07:55 (KLZ_WT17)	08:16		08:42 (SAM_WT06)	08:09		10:36 (KLZ_WT06)	08:46		10:46 (KLZ_WT06)
	21:50			20:59			19:50	35	08:30 (KLZ_WT17)	18:44	22	17:12 (KLZ_WT12)	16:52	135	16:12 (KLZ_WT13)	16:39	125	14:34 (KLZ_WT20)
21	05:54			06:40			07:28		07:54 (KLZ_WT17)	08:18		08:43 (SAM_WT06)	08:11		10:36 (KLZ_WT06)	08:47		10:46 (KLZ_WT06)
	21:49			20:57			19:48	35	08:29 (KLZ_WT17)	18:42	24	17:14 (KLZ_WT12)	16:51	137	16:12 (KLZ_WT13)	16:40	125	14:34 (KLZ_WT20)
22	05:55			06:41			07:30		07:55 (KLZ_WT17)	08:19		16:50 (KLZ_WT12)	08:12		10:36 (KLZ_WT06)	08:47		10:47 (KLZ_WT06)
	21:48			20:55			19:46	38	09:07 (KLZ_WT05)	18:40	26	17:16 (KLZ_WT12)	16:50	139	16:13 (KLZ_WT13)	16:40	125	14:35 (KLZ_WT20)
23	05:56			06:43			07:32		07:56 (KLZ_WT17)	08:21		16:48 (KLZ_WT12)	08:14		10:35 (KLZ_WT06)	08:48		10:47 (KLZ_WT06)
	21:47			20:53			19:44	45	09:11 (KLZ_WT05)	18:38	30	17:18 (KLZ_WT12)	16:49	141	16:12 (KLZ_WT13)	16:41	125	14:35 (KLZ_WT20)
24	05:58			06:44			07:33		07:58 (KLZ_WT17)	08:23		16:47 (KLZ_WT12)	08:16		10:35 (KLZ_WT06)	08:48		10:47 (KLZ_WT06)
	21:45			20:50			19:41	48	09:14 (KLZ_WT05)	18:36	32	17:19 (KLZ_WT12)	16:48	143	16:13 (KLZ_WT13)	16:41	125	14:35 (KLZ_WT20)
25	05:59			06:46			07:35		07:59 (KLZ_WT17)	07:24		15:46 (KLZ_WT12)	08:17		10:36 (KLZ_WT06)	08:48		10:48 (KLZ_WT06)
	21:44			20:48			19:39	52	18:41 (EVE_WT01)	17:34	34	16:20 (KLZ_WT12)	16:47	143	16:13 (KLZ_WT13)	16:42	125	14:36 (KLZ_WT20)
26	06:00			06:48			07:36		08:01 (KLZ_WT17)	07:26		15:45 (KLZ_WT12)	08:19		10:35 (KLZ_WT06)	08:49		10:48 (KLZ_WT06)
	21:43			20:46			19:37	63	18:46 (EVE_WT01)	17:32	36	16:21 (KLZ_WT12)	16:46	144	16:13 (KLZ_WT13)	16:43	126	14:37 (KLZ_WT20)
27	06:02			06:49			07:38		08:03 (KLZ_WT17)	07:28		15:43 (KLZ_WT12)	08:20		10:36 (KLZ_WT06)	08:49		10:48 (KLZ_WT06)
	21:41			20:44			19:34	66	18:48 (EVE_WT01)	17:30	38	16:21 (KLZ_WT12)	16:45	144	16:13 (KLZ_WT13)	16:43	126	14:37 (KLZ_WT20)
28	06:03			06:51			07:40		08:04 (KLZ_WT17)	07:30		15:42 (KLZ_WT12)	08:22		08:56 (SAM_WT05)	08:49		10:49 (KLZ_WT06)
	21:40			20:42			19:32	67	18:48 (EVE_WT01)	17:28	48	16:41 (EVE_WT02)	16:44	149	16:12 (KLZ_WT13)	16:44	125	14:37 (KLZ_WT20)
29	06:05			06:52			07:41		08:06 (KLZ_WT17)	07:31		08:01 (SAM_WT11)	08:23		08:55 (SAM_WT05)	08:49		10:49 (KLZ_WT06)
	21:38			20:40			19:30	68	18:50 (EVE_WT01)	17:26	59	16:43 (EVE_WT02)	16:43	150	16:11 (KLZ_WT13)	16:45	126	14:38 (KLZ_WT20)
30	06:06			06:54			07:43		08:07 (KLZ_WT17)	07:33		08:00 (SAM_WT11)	08:25		08:56 (SAM_WT05)	08:50		10:50 (KLZ_WT06)
	21:37			20:38			19:28	66	18:49 (EVE_WT01)	17:25	68	16:45 (EVE_WT02)	16:43	149	16:10 (KLZ_WT13)	16:46	125	14:38 (KLZ_WT20)
31	06:08			06:56						07:35		08:02 (SAM_WT11)				08:50		10:50 (KLZ_WT06)
	21:35			20:35						17:23	68	16:46 (EVE_WT02)				16:47	125	14:38 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		197			26			911			1188			3644			4021	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,67			0,60			0,63			0,68			0,66	
Total reduction		0,31			0,31			0,25			0,22			0,18			0,15	
Total, real		61			8			230			266			642			586	

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

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

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

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	January			February			March			April			May			June		
1	08:50		09:26 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32			07:23		19:11 (KLZ_WT20)	06:20		19:47 (KLZ_WT06)	05:36		
	16:48	17	09:43 (SAM_WT05)	17:35	29	09:29 (SAM_WT07)	18:25			20:17	39	19:50 (KLZ_WT20)	21:06	25	20:12 (KLZ_WT06)	21:51		
2	08:50		09:26 (SAM_WT05)	08:23		09:00 (SAM_WT07)	07:30			07:21		19:11 (KLZ_WT20)	06:18		19:47 (KLZ_WT06)	05:36		
	16:49	17	09:43 (SAM_WT05)	17:36	29	09:29 (SAM_WT07)	18:26			20:19	42	19:53 (KLZ_WT12)	21:08	24	20:11 (KLZ_WT06)	21:52		
3	08:49		09:27 (SAM_WT05)	08:21		08:59 (SAM_WT07)	07:28			07:19		19:10 (KLZ_WT20)	06:16		19:47 (KLZ_WT06)	05:35		
	16:50	17	09:44 (SAM_WT05)	17:38	30	09:29 (SAM_WT07)	18:28			20:20	45	19:55 (KLZ_WT12)	21:09	23	20:10 (KLZ_WT06)	21:53		
4	08:49		09:27 (SAM_WT05)	08:19		09:00 (SAM_WT07)	07:26			07:16		19:10 (KLZ_WT20)	06:15		19:49 (KLZ_WT06)	05:34		
	16:51	16	09:43 (SAM_WT05)	17:40	30	09:30 (SAM_WT07)	18:30			20:22	47	19:57 (EVE_WT01)	21:11	21	20:10 (KLZ_WT06)	21:54		
5	08:49		09:28 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24			07:14		19:10 (KLZ_WT20)	06:13		19:50 (KLZ_WT06)	05:33		
	16:52	16	09:44 (SAM_WT05)	17:42	32	09:30 (SAM_WT07)	18:32			20:24	48	19:58 (EVE_WT01)	21:13	19	20:09 (KLZ_WT06)	21:55		
6	08:49		09:29 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21			07:12		19:09 (KLZ_WT20)	06:11		19:50 (KLZ_WT06)	05:33		
	16:54	14	09:43 (SAM_WT05)	17:44	35	09:30 (SAM_WT07)	18:33			20:25	50	19:59 (EVE_WT01)	21:14	17	20:07 (KLZ_WT06)	21:56		
7	08:48		09:30 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19			07:10		19:09 (KLZ_WT20)	06:09		19:53 (KLZ_WT06)	05:32		
	16:55	13	09:43 (SAM_WT05)	17:45	38	09:30 (SAM_WT07)	18:35			20:27	52	20:01 (EVE_WT01)	21:16	13	20:06 (KLZ_WT06)	21:56		
8	08:48		09:31 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17			07:08		07:30 (SWB_WT01_RP)	06:08		19:54 (KLZ_WT06)	05:32		06:00 (KLZ_WT01)
	16:56	12	09:43 (SAM_WT05)	17:47	39	09:30 (SAM_WT07)	18:37			20:29	54	20:03 (EVE_WT01)	21:17	10	20:04 (KLZ_WT06)	21:57	2	06:02 (KLZ_WT01)
9	08:47		09:32 (SAM_WT05)	08:11		08:36 (SAM_WT04)	07:15			07:05		07:28 (SWB_WT01_RP)	06:06			05:31		06:00 (KLZ_WT01)
	16:57	11	09:43 (SAM_WT05)	17:49	41	09:30 (SAM_WT07)	18:39			20:30	57	20:05 (EVE_WT01)	21:19			21:58	3	06:03 (KLZ_WT01)
10	08:47		09:33 (SAM_WT05)	08:09		08:34 (SAM_WT04)	07:13		07:44 (SAM_WT06)	07:03		19:11 (KLZ_WT20)	06:04			05:31		06:00 (KLZ_WT01)
	16:59	9	09:42 (SAM_WT05)	17:51	41	09:29 (SAM_WT07)	18:40	3	07:47 (SAM_WT06)	20:32	55	20:06 (EVE_WT01)	21:21			21:59	4	06:04 (KLZ_WT01)
11	08:46		09:35 (SAM_WT05)	08:08		08:32 (SAM_WT04)	07:10		07:39 (SAM_WT06)	07:01		19:11 (KLZ_WT20)	06:03		06:28 (SAM_WT09)	05:31		05:59 (KLZ_WT01)
	17:00	5	09:40 (SAM_WT05)	17:53	41	09:28 (SAM_WT07)	18:42	13	07:52 (SAM_WT06)	20:33	52	20:03 (EVE_WT01)	21:22	1	06:29 (SAM_WT09)	22:00	5	06:04 (KLZ_WT01)
12	08:46			08:06		08:30 (SAM_WT11)	07:08		07:36 (SAM_WT06)	06:59		19:11 (KLZ_WT20)	06:01		06:26 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:02			17:54	40	09:27 (SAM_WT07)	18:44	20	18:19 (KLZ_WT13)	20:35	49	20:01 (EVE_WT01)	21:24	1	06:27 (SAM_WT09)	22:00	6	06:05 (KLZ_WT01)
13	08:45			08:04		08:28 (SAM_WT11)	07:06		07:34 (SAM_WT06)	06:57		19:13 (KLZ_WT20)	05:59		06:25 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:03			17:56	38	09:25 (SAM_WT07)	18:45	25	18:20 (KLZ_WT13)	20:37	41	19:58 (KLZ_WT12)	21:25	1	06:26 (SAM_WT09)	22:01	7	06:06 (KLZ_WT01)
14	08:44			08:02		08:26 (SAM_WT11)	07:04		07:32 (SAM_WT06)	06:55		19:14 (KLZ_WT20)	05:58			05:30		05:59 (KLZ_WT01)
	17:05			17:58	35	09:24 (SAM_WT07)	18:47	31	18:22 (KLZ_WT13)	20:38	31	19:54 (KLZ_WT12)	21:27			22:02	7	06:06 (KLZ_WT01)
15	08:44			08:00		08:24 (SAM_WT11)	07:02		07:31 (SAM_WT06)	06:52		19:16 (KLZ_WT20)	05:56			05:30		05:59 (KLZ_WT01)
	17:06			18:00	30	09:21 (SAM_WT07)	18:49	36	18:24 (KLZ_WT13)	20:40	24	19:40 (KLZ_WT20)	21:28			22:02	8	06:07 (KLZ_WT01)
16	08:43			07:58		08:22 (SAM_WT11)	06:59		07:30 (SAM_WT06)	06:50		07:13 (SAM_WT02)	05:55			05:29		05:59 (KLZ_WT01)
	17:08			18:02	24	09:17 (SAM_WT07)	18:50	40	18:26 (KLZ_WT13)	20:42	21	19:37 (KLZ_WT20)	21:30			22:03	8	06:07 (KLZ_WT01)
17	08:42			07:56		08:20 (SAM_WT11)	06:57		07:29 (SAM_WT06)	06:48		07:11 (SAM_WT02)	05:53			05:29		05:59 (KLZ_WT01)
	17:09			18:03	21	08:41 (SAM_WT11)	18:52	42	18:27 (KLZ_WT13)	20:43	17	19:34 (KLZ_WT20)	21:31			22:03	8	06:07 (KLZ_WT01)
18	08:41			07:55		08:20 (SAM_WT11)	06:55		07:29 (SAM_WT06)	06:46		07:09 (SAM_WT02)	05:52			05:29		05:59 (KLZ_WT01)
	17:11			18:05	20	08:40 (SAM_WT11)	18:54	43	18:28 (KLZ_WT13)	20:45	3	07:12 (SAM_WT02)	21:33			22:03	8	06:07 (KLZ_WT01)
19	08:40			07:53		08:21 (SAM_WT11)	06:53		07:15 (SAM_WT08)	06:44		19:56 (KLZ_WT06)	05:51			05:29		05:59 (KLZ_WT01)
	17:12			18:07	18	08:39 (SAM_WT11)	18:55	42	18:27 (KLZ_WT13)	20:47	10	20:06 (KLZ_WT06)	21:34			22:04	9	06:08 (KLZ_WT01)
20	08:39			07:51		08:22 (SAM_WT11)	06:50		07:13 (SAM_WT08)	06:42		19:53 (KLZ_WT06)	05:49			05:30		05:59 (KLZ_WT01)
	17:14			18:09	16	08:38 (SAM_WT11)	18:57	40	18:25 (KLZ_WT13)	20:48	16	20:09 (KLZ_WT06)	21:35			22:04	9	06:08 (KLZ_WT01)
21	08:38			07:49		08:24 (SAM_WT11)	06:48		07:10 (SAM_WT08)	06:40		19:52 (KLZ_WT06)	05:48			05:30		05:59 (KLZ_WT01)
	17:16			18:11	12	08:36 (SAM_WT11)	18:59	33	07:56 (SAM_WT06)	20:50	18	20:10 (KLZ_WT06)	21:37			22:04	9	06:08 (KLZ_WT01)
22	08:37			07:47		08:27 (SAM_WT11)	06:46		07:08 (SAM_WT08)	06:38		19:50 (KLZ_WT06)	05:47			05:30		06:00 (KLZ_WT01)
	17:17			18:12	6	08:33 (SAM_WT11)	19:00	35	07:56 (SAM_WT06)	20:52	21	20:11 (KLZ_WT06)	21:38			22:05	9	06:09 (KLZ_WT01)
23	08:36		09:10 (SAM_WT07)	07:45			06:44		07:06 (SAM_WT08)	06:36		06:59 (SAM_WT03)	05:45			05:30		06:00 (KLZ_WT01)
	17:19	7	16:48 (KLZ_WT15)	18:14			19:02	44	18:37 (KLZ_WT20)	20:53	25	20:12 (KLZ_WT06)	21:40			22:05	9	06:09 (KLZ_WT01)
24	08:35		09:06 (SAM_WT07)	07:43			06:41		07:03 (SAM_WT08)	06:34		06:57 (SAM_WT03)	05:44			05:30		06:00 (KLZ_WT01)
	17:21	14	16:49 (KLZ_WT15)	18:16			19:04	48	18:38 (KLZ_WT20)	20:55	28	20:13 (KLZ_WT06)	21:41			22:05	9	06:09 (KLZ_WT01)
25	08:34		09:05 (SAM_WT07)	07:41			06:39		07:29 (SAM_WT06)	06:32		06:55 (SAM_WT03)	05:43			05:31		06:01 (KLZ_WT01)
	17:22	18	16:51 (KLZ_WT15)	18:18			19:05	42	18:40 (KLZ_WT20)	20:56	31	20:13 (KLZ_WT06)	21:42			22:05	8	06:09 (KLZ_WT01)
26	08:32		09:04 (SAM_WT07)	07:38			06:37		07:31 (SAM_WT06)	06:30		06:53 (SAM_WT03)	05:42			05:31		06:01 (KLZ_WT01)
	17:24	20	16:53 (KLZ_WT15)	18:19			19:07	42	18:42 (KLZ_WT20)	20:58	32	20:13 (KLZ_WT06)	21:43			22:05	8	06:09 (KLZ_WT01)
27	08:31		09:02 (SAM_WT07)	07:36			06:34		07:32 (SAM_WT06)	06:28		06:53 (SAM_WT03)	05:41			05:32		06:01 (KLZ_WT01)
	17:26	22	09:24 (SAM_WT07)	18:21			19:09	43	18:44 (KLZ_WT20)	21:00	31	20:13 (KLZ_WT06)	21:45			22:05	8	06:09 (KLZ_WT01)
28	08:30		09:02 (SAM_WT07)	07:34			06:32		07:34 (SAM_WT06)	06:26		19:46 (KLZ_WT06)	05:40			05:32		06:02 (KLZ_WT01)
	17:28	23	09:25 (SAM_WT07)	18:23			19:10	40	18:45 (KLZ_WT20)	21:01	27	20:13 (KLZ_WT06)	21:46			22:05	7	06:09 (KLZ_WT01)
29	08:28		09:01 (SAM_WT07)				07:30		19:14 (KLZ_WT20)	06:24		19:47 (KLZ_WT06)	05:39			05:33		06:02 (KLZ_WT01)
	17:29	25	09:26 (SAM_WT07)				20:12	33	19:47 (KLZ_WT20)	21:03	26	20:13 (KLZ_WT06)	21:47			22:05	7	06:09 (KLZ_WT01)
30	08:27		09:01 (SAM_WT07)				07:28		19:13 (KLZ_WT20)	06:22		19:47 (KLZ_WT06)	05:38			05:33		06:03 (KLZ_WT01)
	17:31	26	09:27 (SAM_WT07)				20:14	36	19:49 (KLZ_WT20)	21:05	26	20:13 (KLZ_WT06)	21:48			22:04	6	06:09 (KLZ_WT01)
31	08:25		09:00 (SAM_WT07)				07:25		19:13 (KLZ_WT20)				05:37					
	17:33	28	09:28 (SAM_WT07)				20:15	37	19:50 (KLZ_WT20)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		330			645			768			1018			155			164	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,54			0,55			0,60			0,60			0,57			0,71	
Total reduction		0,13			0,16			0,22			0,27			0,25			0,31	
Total, real		43			104			171			277			39			50	

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

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

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT01)	06:09		06:37 (SAM_WT09)	06:57		19:10 (KLZ_WT20)	07:44		08:14 (SAM_WT06)	07:36		08:04 (SAM_WT04)	08:26		09:17 (SAM_WT05)
	22:04	6	06:10 (KLZ_WT01)	21:34	1	06:38 (SAM_WT09)	20:33	53	20:03 (EVE_WT01)	19:25	22	18:58 (KLZ_WT13)	17:21	41	08:59 (SAM_WT07)	16:42	5	09:22 (SAM_WT05)
2	05:34		06:04 (KLZ_WT01)	06:10			06:59		19:09 (KLZ_WT20)	07:46		08:17 (SAM_WT06)	07:38		08:06 (SAM_WT04)	08:27		09:17 (SAM_WT05)
	22:04	5	06:09 (KLZ_WT01)	21:32			20:31	54	20:03 (EVE_WT01)	19:23	15	08:32 (SAM_WT06)	17:19	39	08:59 (SAM_WT07)	16:41	8	09:25 (SAM_WT05)
3	05:35		06:05 (KLZ_WT01)	06:12			07:00		07:26 (SWB_WT01_RP)	07:48		08:19 (SAM_WT06)	07:40		08:07 (SAM_WT04)	08:29		09:16 (SAM_WT05)
	22:04	4	06:09 (KLZ_WT01)	21:30			20:29	57	20:03 (EVE_WT01)	19:21	9	08:28 (SAM_WT06)	17:17	39	08:59 (SAM_WT07)	16:41	10	09:26 (SAM_WT05)
4	05:36		06:06 (KLZ_WT01)	06:13		20:07 (KLZ_WT06)	07:02		07:27 (SWB_WT01_RP)	07:49			07:42		08:09 (SAM_WT04)	08:30		09:16 (SAM_WT05)
	22:03	3	06:09 (KLZ_WT01)	21:29	4	20:11 (KLZ_WT06)	20:27	54	20:00 (EVE_WT01)	19:19			17:16	37	08:59 (SAM_WT07)	16:40	12	09:28 (SAM_WT05)
5	05:37		06:06 (KLZ_WT01)	06:15		20:04 (KLZ_WT06)	07:03		19:07 (KLZ_WT20)	07:51			07:43		08:11 (SAM_WT04)	08:31		09:15 (SAM_WT05)
	22:03	1	06:07 (KLZ_WT01)	21:27	11	20:15 (KLZ_WT06)	20:24	51	19:58 (EVE_WT01)	19:16			17:14	36	09:00 (SAM_WT07)	16:40	13	09:28 (SAM_WT05)
6	05:37			06:16		20:01 (KLZ_WT06)	07:05		19:05 (KLZ_WT20)	07:53			07:45		08:13 (SAM_WT04)	08:33		09:15 (SAM_WT05)
	22:02			21:25	15	20:16 (KLZ_WT06)	20:22	50	19:55 (EVE_WT01)	19:14			17:12	32	09:00 (SAM_WT07)	16:39	14	09:29 (SAM_WT05)
7	05:38			06:18		20:00 (KLZ_WT06)	07:06		19:05 (KLZ_WT20)	07:54			07:47		08:30 (SAM_WT07)	08:34		09:16 (SAM_WT05)
	22:02			21:24	18	20:18 (KLZ_WT06)	20:20	49	19:54 (EVE_WT01)	19:12			17:11	30	09:00 (SAM_WT07)	16:39	15	09:31 (SAM_WT05)
8	05:39			06:20		19:59 (KLZ_WT06)	07:08		19:04 (KLZ_WT20)	07:56			07:49		08:30 (SAM_WT07)	08:35		09:15 (SAM_WT05)
	22:01			21:22	20	20:19 (KLZ_WT06)	20:18	47	19:51 (EVE_WT01)	19:10			17:09	30	09:00 (SAM_WT07)	16:39	16	09:31 (SAM_WT05)
9	05:40			06:21		19:57 (KLZ_WT06)	07:10		19:05 (KLZ_WT20)	07:57			07:50		08:31 (SAM_WT07)	08:36		09:15 (SAM_WT05)
	22:00			21:20	22	20:19 (KLZ_WT06)	20:15	44	19:49 (KLZ_WT12)	19:08			17:07	29	09:00 (SAM_WT07)	16:38	17	09:32 (SAM_WT05)
10	05:41			06:23		19:57 (KLZ_WT06)	07:11		19:04 (KLZ_WT20)	07:59			07:52		08:31 (SAM_WT07)	08:37		09:15 (SAM_WT05)
	22:00			21:18	23	20:20 (KLZ_WT06)	20:13	42	19:46 (KLZ_WT12)	19:05			17:06	29	09:00 (SAM_WT07)	16:38	17	09:32 (SAM_WT05)
11	05:42			06:24		19:55 (KLZ_WT06)	07:13		19:04 (KLZ_WT20)	08:01			07:54		08:32 (SAM_WT07)	08:38		09:16 (SAM_WT05)
	21:59			21:16	25	20:20 (KLZ_WT06)	20:11	39	19:43 (KLZ_WT20)	19:03			17:04	28	09:00 (SAM_WT07)	16:38	17	09:33 (SAM_WT05)
12	05:43			06:26		19:55 (KLZ_WT06)	07:14		19:04 (KLZ_WT20)	08:02			07:56		08:32 (SAM_WT07)	08:39		09:16 (SAM_WT05)
	21:58			21:14	26	20:21 (KLZ_WT06)	20:09	38	19:42 (KLZ_WT20)	19:01			17:03	26	08:58 (SAM_WT07)	16:38	17	09:33 (SAM_WT05)
13	05:44			06:27		19:54 (KLZ_WT06)	07:16		19:05 (KLZ_WT20)	08:04			07:57		08:33 (SAM_WT07)	08:40		09:16 (SAM_WT05)
	21:57			21:12	26	20:20 (KLZ_WT06)	20:06	35	19:40 (KLZ_WT20)	18:59			17:01	25	08:58 (SAM_WT07)	16:38	18	09:34 (SAM_WT05)
14	05:45			06:29		19:54 (KLZ_WT06)	07:17		19:04 (KLZ_WT20)	08:06			07:59		08:34 (SAM_WT07)	08:41		09:17 (SAM_WT05)
	21:56			21:11	27	20:21 (KLZ_WT06)	20:04	33	19:37 (KLZ_WT20)	18:57			17:00	23	08:57 (SAM_WT07)	16:38	17	09:34 (SAM_WT05)
15	05:46			06:30		19:54 (KLZ_WT06)	07:19		08:26 (SAM_WT06)	08:07			08:01		08:35 (SAM_WT07)	08:42		09:17 (SAM_WT05)
	21:56			21:09	26	20:20 (KLZ_WT06)	20:02	38	19:35 (KLZ_WT20)	18:55			16:58	22	08:57 (SAM_WT07)	16:38	18	09:35 (SAM_WT05)
16	05:48			06:32		07:00 (SAM_WT03)	07:21		08:21 (SAM_WT06)	08:09			08:02		08:37 (SAM_WT07)	08:43		09:18 (SAM_WT05)
	21:55			21:07	31	20:20 (KLZ_WT06)	19:59	42	19:33 (KLZ_WT20)	18:52			16:57	21	16:26 (KLZ_WT15)	16:38	18	09:36 (SAM_WT05)
17	05:49			06:33		07:00 (SAM_WT03)	07:22		08:19 (SAM_WT06)	08:11			08:04		08:39 (SAM_WT07)	08:44		09:18 (SAM_WT05)
	21:54			21:05	31	20:19 (KLZ_WT06)	19:57	43	19:31 (KLZ_WT20)	18:50			16:56	18	16:25 (KLZ_WT15)	16:38	18	09:36 (SAM_WT05)
18	05:50			06:35		07:02 (SAM_WT03)	07:24		08:17 (SAM_WT06)	08:12			08:06		08:40 (SAM_WT07)	08:45		09:18 (SAM_WT05)
	21:52			21:03	30	20:19 (KLZ_WT06)	19:55	42	19:28 (KLZ_WT20)	18:48			16:55	14	16:23 (KLZ_WT15)	16:39	18	09:36 (SAM_WT05)
19	05:51			06:37		07:03 (SAM_WT03)	07:25		07:51 (SAM_WT08)	08:14			08:07		08:44 (SAM_WT07)	08:45		09:19 (SAM_WT05)
	21:51			21:01	27	20:18 (KLZ_WT06)	19:53	47	19:26 (KLZ_WT20)	18:46			16:53	7	16:22 (KLZ_WT15)	16:39	18	09:37 (SAM_WT05)
20	05:52			06:38		07:05 (SAM_WT03)	07:27		07:52 (SAM_WT08)	08:16		08:57 (SAM_WT11)	08:09			08:46		09:20 (SAM_WT05)
	21:50			20:59	24	20:18 (KLZ_WT06)	19:50	46	19:24 (KLZ_WT20)	18:44	8	09:05 (SAM_WT11)	16:52			16:39	18	09:38 (SAM_WT05)
21	05:54			06:40		19:55 (KLZ_WT06)	07:28		07:53 (SAM_WT08)	08:17		08:54 (SAM_WT11)	08:11			08:47		09:20 (SAM_WT05)
	21:49			20:57	21	20:16 (KLZ_WT06)	19:48	34	08:41 (SAM_WT06)	18:42	13	09:07 (SAM_WT11)	16:51			16:40	18	09:38 (SAM_WT05)
22	05:55			06:41		19:56 (KLZ_WT06)	07:30		07:55 (SAM_WT08)	08:19		08:52 (SAM_WT11)	08:12			08:47		09:21 (SAM_WT05)
	21:48			20:55	18	20:14 (KLZ_WT06)	19:46	35	08:42 (SAM_WT06)	18:40	17	09:09 (SAM_WT11)	16:50			16:40	18	09:39 (SAM_WT05)
23	05:56			06:43		19:57 (KLZ_WT06)	07:32		07:56 (SAM_WT08)	08:21		08:51 (SAM_WT11)	08:14			08:48		09:21 (SAM_WT05)
	21:47			20:52	15	20:12 (KLZ_WT06)	19:44	39	19:08 (KLZ_WT13)	18:38	19	09:10 (SAM_WT11)	16:49			16:41	18	09:39 (SAM_WT05)
24	05:58			06:44		20:00 (KLZ_WT06)	07:33		07:58 (SAM_WT08)	08:23		08:51 (SAM_WT11)	08:16			08:48		09:21 (SAM_WT05)
	21:45			20:50	10	20:10 (KLZ_WT06)	19:41	40	19:10 (KLZ_WT13)	18:36	20	09:11 (SAM_WT11)	16:48			16:41	18	09:39 (SAM_WT05)
25	05:59			06:46		07:12 (SAM_WT02)	07:35		08:11 (SAM_WT06)	07:24		07:51 (SAM_WT11)	08:17			08:48		09:22 (SAM_WT05)
	21:44			20:48	5	19:31 (KLZ_WT20)	19:39	43	19:11 (KLZ_WT13)	17:34	20	08:11 (SAM_WT11)	16:47			16:42	18	09:40 (SAM_WT05)
26	06:00			06:48		07:14 (SAM_WT02)	07:36		08:11 (SAM_WT06)	07:26		07:53 (SAM_WT11)	08:19			08:49		09:22 (SAM_WT05)
	21:43			20:46	17	19:37 (KLZ_WT20)	19:37	42	19:10 (KLZ_WT13)	17:32	26	08:49 (SAM_WT07)	16:46			16:43	18	09:40 (SAM_WT05)
27	06:02			06:49		07:15 (SAM_WT02)	07:38		08:12 (SAM_WT06)	07:28		07:54 (SAM_WT11)	08:20			08:49		09:23 (SAM_WT05)
	21:41			20:44	22	19:39 (KLZ_WT20)	19:34	40	19:08 (KLZ_WT13)	17:30	31	08:51 (SAM_WT07)	16:45			16:43	18	09:41 (SAM_WT05)
28	06:03			06:51		19:17 (KLZ_WT20)	07:40		08:12 (SAM_WT06)	07:30		07:56 (SAM_WT11)	08:22			08:49		09:23 (SAM_WT05)
	21:40			20:42	25	19:42 (KLZ_WT20)	19:32	36	19:05 (KLZ_WT13)	17:28	36	08:54 (SAM_WT07)	16:44			16:44	18	09:41 (SAM_WT05)
29	06:05			06:52		19:15 (KLZ_WT20)	07:41		08:13 (SAM_WT06)	07:31		07:58 (SAM_WT11)	08:23			08:49		09:23 (SAM_WT05)
	21:38			20:40	33	19:56 (KLZ_WT12)	19:30	33	19:03 (KLZ_WT13)	17:26	39	08:55 (SAM_WT07)	16:43			16:45	18	09:41 (SAM_WT05)
30	06:06			06:54		19:13 (KLZ_WT20)	07:43		08:13 (SAM_WT06)	07:33		08:00 (SAM_WT11)	08:25			08:50		09:24 (SAM_WT05)
	21:37			20:38	42	19:59 (KLZ_WT12)	19:28	28	19:00 (KLZ_WT13)	17:25	41	08:57 (SAM_WT07)	16:43			16:46	18	09:42 (SAM_WT05)
31	06:08		06:36 (SAM_WT09)	06:55		19:11 (KLZ_WT20)				07:35		08:02 (SAM_WT04)				08:50		09:25 (SAM_WT05)
	21:35	1	06:37 (SAM_WT09)	20:35	49	20:01 (EVE_WT01)				17:23	41	08:58 (SAM_WT07)				16:47	17	09:42 (SAM_WT05)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		20			644			1274			357			526			501	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,58			0,61			0,56			0,55			0,53	
Total reduction		0,31			0,27			0,26			0,20			0,14			0,12	
Total, real		6			171			327			70			75			58	

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

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

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Symphony, Gustav Mahlerplein 97-103
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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

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

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

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

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

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

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

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

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

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

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	January			February			March			April			May			June	
1	08:50		09:47 (SAM_WT07)	08:24		08:50 (SAM_WT11)	07:32		08:10 (SAM_WT06)	07:23		19:14 (KLZ_WT20)	06:20		06:44 (SAM_WT01)	05:36	
	16:48	37	10:24 (SAM_WT07)	17:35	24	09:14 (SAM_WT11)	18:25	28	08:38 (SAM_WT06)	20:17	33	19:51 (EVE_WT01)	21:06	2	06:46 (SAM_WT01)	21:50	
2	08:50		09:48 (SAM_WT07)	08:22		08:48 (SAM_WT11)	07:30		08:09 (SAM_WT06)	07:21		19:16 (KLZ_WT20)	06:18		06:42 (SAM_WT01)	05:36	
	16:49	37	10:25 (SAM_WT07)	17:36	26	09:14 (SAM_WT11)	18:26	31	08:40 (SAM_WT06)	20:19	31	19:53 (EVE_WT01)	21:08	8	20:26 (KLZ_WT05)	21:52	
3	08:49		09:49 (SAM_WT07)	08:21		08:48 (SAM_WT11)	07:28		08:08 (SAM_WT06)	07:19		19:19 (KLZ_WT20)	06:16		06:40 (SAM_WT01)	05:35	
	16:50	37	10:26 (SAM_WT07)	17:38	25	09:13 (SAM_WT11)	18:28	33	08:41 (SAM_WT06)	20:20	28	19:55 (EVE_WT01)	21:09	14	20:29 (KLZ_WT05)	21:53	
4	08:49		09:48 (SAM_WT07)	08:19		08:49 (SAM_WT11)	07:26		08:07 (SAM_WT06)	07:16		19:36 (KLZ_WT06)	06:15		20:16 (KLZ_WT05)	05:34	
	16:51	37	10:25 (SAM_WT07)	17:40	25	09:14 (SAM_WT11)	18:30	35	08:42 (SAM_WT06)	20:22	20	19:56 (EVE_WT01)	21:11	15	20:31 (KLZ_WT05)	21:54	
5	08:49		09:49 (SAM_WT07)	08:18		08:49 (SAM_WT11)	07:24		08:05 (SAM_WT06)	07:14		19:36 (KLZ_WT06)	06:13		20:14 (KLZ_WT05)	05:33	
	16:52	37	10:26 (SAM_WT07)	17:42	24	09:13 (SAM_WT11)	18:32	37	08:42 (SAM_WT06)	20:24	18	19:54 (EVE_WT01)	21:13	18	20:32 (KLZ_WT05)	21:55	
6	08:49		09:49 (SAM_WT07)	08:16		08:49 (SAM_WT11)	07:21		08:04 (SAM_WT06)	07:12		07:34 (SWB_WT01_RP)	06:11		20:13 (KLZ_WT05)	05:33	
	16:54	37	10:26 (SAM_WT07)	17:44	23	09:12 (SAM_WT11)	18:33	38	08:42 (SAM_WT06)	20:25	19	19:52 (KLZ_WT06)	21:14	20	20:33 (KLZ_WT05)	21:56	
7	08:48		09:50 (SAM_WT07)	08:14		08:50 (SAM_WT11)	07:19		08:04 (SAM_WT06)	07:10		07:32 (SWB_WT01_RP)	06:09		20:12 (KLZ_WT05)	05:32	
	16:55	37	10:27 (SAM_WT07)	17:45	21	09:11 (SAM_WT11)	18:35	39	08:43 (SAM_WT06)	20:27	18	19:51 (KLZ_WT06)	21:16	22	20:34 (KLZ_WT05)	21:56	
8	08:48		09:50 (SAM_WT07)	08:13		08:52 (SAM_WT11)	07:17		08:03 (SAM_WT06)	07:08		07:30 (SWB_WT01_RP)	06:08		20:11 (KLZ_WT05)	05:32	
	16:56	37	10:27 (SAM_WT07)	17:47	19	09:11 (SAM_WT11)	18:37	40	08:43 (SAM_WT06)	20:29	20	19:51 (KLZ_WT06)	21:17	23	20:34 (KLZ_WT05)	21:57	
9	08:47		09:51 (SAM_WT07)	08:11		08:53 (SAM_WT11)	07:15		08:02 (SAM_WT06)	07:05		07:28 (SWB_WT01_RP)	06:06		20:11 (KLZ_WT05)	05:31	
	16:57	37	10:28 (SAM_WT07)	17:49	17	09:10 (SAM_WT11)	18:38	40	08:42 (SAM_WT06)	20:30	18	19:50 (KLZ_WT06)	21:19	24	20:35 (KLZ_WT05)	21:58	
10	08:47		09:51 (SAM_WT07)	08:09		08:55 (SAM_WT11)	07:13		08:02 (SAM_WT06)	07:03		19:38 (KLZ_WT06)	06:04		20:10 (KLZ_WT05)	05:31	
	16:59	37	10:28 (SAM_WT07)	17:51	13	09:08 (SAM_WT11)	18:40	40	08:42 (SAM_WT06)	20:32	10	19:48 (KLZ_WT06)	21:21	25	20:35 (KLZ_WT05)	21:59	
11	08:46		09:51 (SAM_WT07)	08:08		08:58 (SAM_WT11)	07:10		08:02 (SAM_WT06)	07:01		19:39 (KLZ_WT06)	06:03		20:11 (KLZ_WT05)	05:30	
	17:00	37	10:28 (SAM_WT07)	17:53	6	09:04 (SAM_WT11)	18:42	42	18:17 (KLZ_WT13)	20:33	5	19:44 (KLZ_WT06)	21:22	25	20:36 (KLZ_WT05)	22:00	
12	08:46		09:51 (SAM_WT07)	08:06			07:08		08:02 (SAM_WT06)	06:59			06:01		20:10 (KLZ_WT05)	05:30	
	17:02	37	10:28 (SAM_WT07)	17:54			18:44	44	18:19 (KLZ_WT13)	20:35			21:24	26	20:36 (KLZ_WT05)	22:00	
13	08:45		09:53 (SAM_WT07)	08:04			07:06		08:02 (SAM_WT06)	06:57			05:59		06:25 (SAM_WT09)	05:30	
	17:03	36	10:29 (SAM_WT07)	17:56			18:45	44	18:20 (KLZ_WT13)	20:37			21:25	26	20:36 (KLZ_WT05)	22:01	
14	08:44		09:53 (SAM_WT07)	08:02			07:04		08:02 (SAM_WT06)	06:55			05:58		06:23 (SAM_WT09)	05:30	
	17:05	37	10:30 (SAM_WT07)	17:58			18:47	46	18:22 (KLZ_WT13)	20:38			21:27	28	20:36 (KLZ_WT05)	22:02	
15	08:44		09:53 (SAM_WT07)	08:00			07:02		07:24 (SAM_WT08)	06:52		07:15 (SAM_WT02)	05:56		06:22 (SAM_WT09)	05:30	
	17:06	37	10:30 (SAM_WT07)	18:00			18:49	47	18:24 (KLZ_WT13)	20:40	2	07:17 (SAM_WT02)	21:28	28	20:36 (KLZ_WT05)	22:02	
16	08:43		09:54 (SAM_WT07)	07:58			06:59		07:22 (SAM_WT08)	06:50		07:13 (SAM_WT02)	05:55		06:21 (SAM_WT09)	05:29	
	17:08	36	10:30 (SAM_WT07)	18:02			18:50	47	18:24 (KLZ_WT13)	20:42	4	07:17 (SAM_WT02)	21:30	29	20:36 (KLZ_WT05)	22:03	
17	08:42		09:55 (SAM_WT07)	07:56			06:57		07:19 (SAM_WT08)	06:48		07:11 (SAM_WT02)	05:53		06:19 (SAM_WT09)	05:29	
	17:09	35	10:30 (SAM_WT07)	18:03			18:52	46	18:27 (KLZ_WT20)	20:43	5	07:16 (SAM_WT02)	21:31	27	20:35 (KLZ_WT05)	22:03	
18	08:41		09:55 (SAM_WT07)	07:55			06:55		07:17 (SAM_WT08)	06:46		07:09 (SAM_WT02)	05:52		20:12 (KLZ_WT05)	05:29	
	17:11	35	10:30 (SAM_WT07)	18:05			18:54	50	18:29 (KLZ_WT20)	20:45	6	07:15 (SAM_WT02)	21:33	23	20:35 (KLZ_WT05)	22:03	
19	08:40		09:56 (SAM_WT07)	07:53			06:53		07:15 (SAM_WT08)	06:44		07:10 (SAM_WT02)	05:51		20:12 (KLZ_WT05)	05:29	
	17:12	34	10:30 (SAM_WT07)	18:07			18:55	52	18:31 (KLZ_WT20)	20:47	2	07:12 (SAM_WT02)	21:34	23	20:35 (KLZ_WT05)	22:04	
20	08:39		09:07 (SAM_WT04)	07:51			06:50		07:13 (SAM_WT08)	06:42		07:05 (SWB_WT02_RP)	05:49		20:13 (KLZ_WT05)	05:29	
	17:14	35	10:30 (SAM_WT07)	18:09			18:57	52	18:32 (KLZ_WT20)	20:48	1	07:06 (SWB_WT02_RP)	21:35	21	20:34 (KLZ_WT05)	22:04	
21	08:38		09:05 (SAM_WT04)	07:49			06:48		07:13 (SAM_WT08)	06:40		07:03 (SWB_WT02_RP)	05:48		20:13 (KLZ_WT05)	05:30	
	17:16	36	10:29 (SAM_WT07)	18:11			18:59	46	18:33 (KLZ_WT20)	20:50	2	07:05 (SWB_WT02_RP)	21:37	20	20:33 (KLZ_WT05)	22:04	
22	08:37		09:04 (SAM_WT04)	07:47			06:46		07:15 (SAM_WT08)	06:38			05:47		20:14 (KLZ_WT05)	05:30	
	17:17	37	10:28 (SAM_WT07)	18:12			19:00	38	18:35 (KLZ_WT20)	20:52			21:38	18	20:32 (KLZ_WT05)	22:05	
23	08:36		09:03 (SAM_WT04)	07:45			06:43		18:13 (KLZ_WT20)	06:36		06:59 (SAM_WT03)	05:45		20:16 (KLZ_WT05)	05:30	
	17:19	37	10:28 (SAM_WT07)	18:14			19:02	24	18:37 (KLZ_WT20)	20:53	1	07:00 (SAM_WT03)	21:39	16	20:32 (KLZ_WT05)	22:05	
24	08:35		09:01 (SAM_WT04)	07:43			06:41		18:12 (KLZ_WT20)	06:34		06:57 (SAM_WT03)	05:44		20:17 (KLZ_WT05)	05:30	
	17:21	38	10:27 (SAM_WT07)	18:16			19:04	26	18:38 (KLZ_WT20)	20:55	3	07:00 (SAM_WT03)	21:41	14	20:31 (KLZ_WT05)	22:05	
25	08:34		09:00 (SAM_WT04)	07:40			06:39		18:11 (KLZ_WT20)	06:32		06:55 (SAM_WT03)	05:43		20:18 (KLZ_WT05)	05:31	
	17:22	37	10:26 (SAM_WT07)	18:18			19:05	29	18:40 (KLZ_WT20)	20:56	5	07:00 (SAM_WT03)	21:42	12	20:30 (KLZ_WT05)	22:05	
26	08:32		08:59 (SAM_WT04)	07:38		08:18 (SAM_WT06)	06:37		18:12 (KLZ_WT20)	06:30		06:53 (SAM_WT03)	05:42		20:20 (KLZ_WT05)	05:31	
	17:24	36	10:25 (SAM_WT07)	18:19	15	08:33 (SAM_WT06)	19:07	29	18:41 (KLZ_WT20)	20:58	7	07:00 (SAM_WT03)	21:43	8	20:28 (KLZ_WT05)	22:05	
27	08:31		08:57 (SAM_WT04)	07:36		08:15 (SAM_WT06)	06:34		18:12 (KLZ_WT20)	06:28		06:51 (SAM_WT03)	05:41		20:22 (KLZ_WT05)	05:31	
	17:26	35	10:23 (SAM_WT07)	18:21	21	08:36 (SAM_WT06)	19:09	32	18:44 (KLZ_WT12)	21:00	8	06:59 (SAM_WT03)	21:45	4	20:26 (KLZ_WT05)	22:05	
28	08:30		08:56 (SAM_WT04)	07:34		08:12 (SAM_WT06)	06:32		18:11 (KLZ_WT20)	06:26		06:49 (SAM_WT03)	05:40			05:32	
	17:27	31	10:21 (SAM_WT07)	18:23	25	08:37 (SAM_WT06)	19:10	34	18:45 (KLZ_WT12)	21:01	9	06:58 (SAM_WT03)	21:46			22:05	
29	08:28		08:54 (SAM_WT11)				07:30		19:12 (KLZ_WT20)	06:24		06:51 (SAM_WT03)	05:39			05:32	
	17:29	24	10:16 (SAM_WT07)				20:12	35	19:47 (KLZ_WT12)	21:03	6	06:57 (SAM_WT03)	21:47			22:05	
30	08:27		08:53 (SAM_WT11)				07:28		19:12 (KLZ_WT20)	06:22			05:38			05:33	
	17:31	21	09:14 (SAM_WT04)				20:14	36	19:49 (EVE_WT01)	21:05			21:48			22:04	
31	08:25		08:51 (SAM_WT11)				07:25		19:14 (KLZ_WT20)				05:37				
	17:33	22	09:13 (SAM_WT04)				20:15	34	19:50 (EVE_WT01)				21:49				
Potential sun hours	262			279			367			415			482			495	
Total, worst case		1083			284			1194			281			519			
Sun reduction		0,25			0,30			0,38			0,46			0,46			
Oper. time red.		0,97			0,97			0,97			0,97			0,97			
Wind dir. red.		0,56			0,55			0,58			0,62			0,56			
Total reduction		0,13			0,16			0,22			0,28			0,25			
Total, real		146			46			258			79			129			

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

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

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

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	July			August			September			October			November			December		
1	05:34			06:09		20:21 (KLZ_WT05)	06:57		19:39 (KLZ_WT06)	07:44		08:41 (SAM_WT06)	07:36		08:24 (SAM_WT11)	08:26		09:33 (SAM_WT07)
	22:04			21:34	25	20:46 (KLZ_WT05)	20:33	5	19:44 (KLZ_WT06)	19:25	43	18:58 (KLZ_WT13)	17:21	14	08:38 (SAM_WT11)	16:42	37	10:10 (SAM_WT07)
2	05:34			06:10		20:20 (KLZ_WT05)	06:59		19:36 (KLZ_WT06)	07:46		08:41 (SAM_WT06)	07:38		08:23 (SAM_WT11)	08:27		09:34 (SAM_WT07)
	22:04			21:32	25	20:45 (KLZ_WT05)	20:31	10	19:46 (KLZ_WT06)	19:23	42	18:56 (KLZ_WT13)	17:19	17	08:40 (SAM_WT11)	16:41	37	10:11 (SAM_WT07)
3	05:35			06:12		20:21 (KLZ_WT05)	07:00		07:26 (SWB_WT01_RP)	07:48		08:40 (SAM_WT06)	07:40		08:21 (SAM_WT11)	08:29		09:34 (SAM_WT07)
	22:04			21:30	25	20:46 (KLZ_WT05)	20:29	18	19:48 (KLZ_WT06)	19:21	40	09:20 (SAM_WT06)	17:17	19	08:40 (SAM_WT11)	16:41	37	10:11 (SAM_WT07)
4	05:36			06:13		20:21 (KLZ_WT05)	07:02		07:27 (SWB_WT01_RP)	07:49		08:40 (SAM_WT06)	07:42		08:20 (SAM_WT11)	08:30		09:35 (SAM_WT07)
	22:03			21:29	24	20:45 (KLZ_WT05)	20:27	20	19:48 (KLZ_WT06)	19:19	40	09:20 (SAM_WT06)	17:16	21	08:41 (SAM_WT11)	16:40	37	10:12 (SAM_WT07)
5	05:37			06:15		20:22 (KLZ_WT05)	07:03		07:29 (SWB_WT01_RP)	07:51		08:40 (SAM_WT06)	07:43		08:19 (SAM_WT11)	08:31		09:35 (SAM_WT07)
	22:03			21:27	23	20:45 (KLZ_WT05)	20:24	18	19:48 (KLZ_WT06)	19:16	40	09:20 (SAM_WT06)	17:14	23	08:42 (SAM_WT11)	16:40	37	10:12 (SAM_WT07)
6	05:37			06:16		20:22 (KLZ_WT05)	07:05		07:30 (SWB_WT01_RP)	07:52		08:40 (SAM_WT06)	07:45		08:19 (SAM_WT11)	08:33		09:35 (SAM_WT07)
	22:02			21:25	21	20:43 (KLZ_WT05)	20:22	18	19:48 (KLZ_WT06)	19:14	39	09:19 (SAM_WT06)	17:12	24	08:43 (SAM_WT11)	16:39	37	10:12 (SAM_WT07)
7	05:38			06:18		20:23 (KLZ_WT05)	07:06		19:31 (KLZ_WT06)	07:54		08:40 (SAM_WT06)	07:47		08:19 (SAM_WT11)	08:34		09:36 (SAM_WT07)
	22:02			21:23	20	20:43 (KLZ_WT05)	20:20	17	19:48 (KLZ_WT06)	19:12	38	09:18 (SAM_WT06)	17:11	25	08:44 (SAM_WT11)	16:39	37	10:13 (SAM_WT07)
8	05:39			06:19		20:24 (KLZ_WT05)	07:08		19:30 (KLZ_WT06)	07:56		08:41 (SAM_WT06)	07:49		08:18 (SAM_WT11)	08:35		09:36 (SAM_WT07)
	22:01			21:22	17	20:41 (KLZ_WT05)	20:18	21	19:51 (EVE_WT01)	19:10	37	09:18 (SAM_WT06)	17:09	26	08:44 (SAM_WT11)	16:39	38	10:14 (SAM_WT07)
9	05:40			06:21		20:25 (KLZ_WT05)	07:10		19:13 (KLZ_WT20)	07:57		08:40 (SAM_WT06)	07:50		08:19 (SAM_WT11)	08:36		09:37 (SAM_WT07)
	22:00			21:20	14	20:39 (KLZ_WT05)	20:15	28	19:49 (EVE_WT01)	19:08	36	09:16 (SAM_WT06)	17:07	25	08:44 (SAM_WT11)	16:38	37	10:14 (SAM_WT07)
10	05:41			06:23		06:50 (SAM_WT01)	07:11		19:09 (KLZ_WT20)	07:59		08:41 (SAM_WT06)	07:52		08:21 (SAM_WT11)	08:37		09:37 (SAM_WT07)
	22:00			21:18	12	20:37 (KLZ_WT05)	20:13	31	19:46 (EVE_WT01)	19:05	35	09:16 (SAM_WT06)	17:06	24	08:45 (SAM_WT11)	16:38	37	10:14 (SAM_WT07)
11	05:42			06:24		06:51 (SAM_WT01)	07:13		19:08 (KLZ_WT20)	08:01		08:42 (SAM_WT06)	07:54		08:23 (SAM_WT11)	08:38		09:37 (SAM_WT07)
	21:59			21:16	2	06:53 (SAM_WT01)	20:11	33	19:45 (EVE_WT01)	19:03	33	09:15 (SAM_WT06)	17:04	22	08:45 (SAM_WT04)	16:38	37	10:14 (SAM_WT07)
12	05:43			06:26		06:53 (SAM_WT01)	07:14		19:05 (KLZ_WT20)	08:02		08:43 (SAM_WT06)	07:56		08:24 (SAM_WT11)	08:39		09:38 (SAM_WT07)
	21:58			21:14	1	06:54 (SAM_WT01)	20:09	35	19:42 (EVE_WT01)	19:01	29	09:12 (SAM_WT06)	17:03	21	08:45 (SAM_WT04)	16:38	37	10:15 (SAM_WT07)
13	05:44			06:27			07:16		19:04 (KLZ_WT20)	08:04		08:44 (SAM_WT06)	07:57		08:26 (SAM_WT11)	08:40		09:38 (SAM_WT07)
	21:57			21:12			20:06	36	19:40 (EVE_WT01)	18:59	27	09:11 (SAM_WT06)	17:01	25	09:49 (SAM_WT07)	16:38	37	10:15 (SAM_WT07)
14	05:45			06:29		06:59 (SAM_WT03)	07:17		19:02 (KLZ_WT20)	08:06		08:46 (SAM_WT06)	07:59		08:28 (SAM_WT04)	08:41		09:39 (SAM_WT07)
	21:56			21:11	6	07:05 (SAM_WT03)	20:04	35	19:37 (KLZ_WT12)	18:57	23	09:09 (SAM_WT06)	17:00	31	09:53 (SAM_WT07)	16:38	36	10:15 (SAM_WT07)
15	05:46			06:30		06:57 (SAM_WT03)	07:19		19:02 (KLZ_WT20)	08:07		08:49 (SAM_WT06)	08:01		08:30 (SAM_WT04)	08:42		09:40 (SAM_WT07)
	21:55			21:09	9	07:06 (SAM_WT03)	20:02	33	19:35 (KLZ_WT12)	18:55	18	09:07 (SAM_WT06)	16:58	34	09:56 (SAM_WT07)	16:38	36	10:16 (SAM_WT07)
16	05:47			06:32		06:59 (SAM_WT03)	07:21		19:00 (KLZ_WT20)	08:09		08:51 (SAM_WT06)	08:02		08:32 (SAM_WT04)	08:43		09:40 (SAM_WT07)
	21:55			21:07	8	07:07 (SAM_WT03)	19:59	33	19:33 (KLZ_WT12)	18:52	11	09:02 (SAM_WT06)	16:57	36	09:58 (SAM_WT07)	16:38	36	10:16 (SAM_WT07)
17	05:49		20:30 (KLZ_WT05)	06:33		07:00 (SAM_WT03)	07:22		19:00 (KLZ_WT20)	08:11			08:04		08:34 (SAM_WT04)	08:44		09:41 (SAM_WT07)
	21:53	7	20:37 (KLZ_WT05)	21:05	7	07:07 (SAM_WT03)	19:57	30	19:31 (KLZ_WT12)	18:50			16:56	37	10:00 (SAM_WT07)	16:38	36	10:17 (SAM_WT07)
18	05:50		20:28 (KLZ_WT05)	06:35		07:02 (SAM_WT03)	07:24		18:59 (KLZ_WT20)	08:12			08:06		08:35 (SAM_WT04)	08:45		09:41 (SAM_WT07)
	21:52	11	20:39 (KLZ_WT05)	21:03	5	07:07 (SAM_WT03)	19:55	29	19:28 (KLZ_WT20)	18:48			16:55	38	10:01 (SAM_WT07)	16:39	36	10:17 (SAM_WT07)
19	05:51		20:27 (KLZ_WT05)	06:37		07:03 (SAM_WT03)	07:25		18:59 (KLZ_WT20)	08:14			08:07		08:37 (SAM_WT04)	08:45		09:42 (SAM_WT07)
	21:51	13	20:40 (KLZ_WT05)	21:01	3	07:06 (SAM_WT03)	19:53	27	19:26 (KLZ_WT20)	18:46			16:53	37	10:02 (SAM_WT07)	16:39	36	10:18 (SAM_WT07)
20	05:52		20:26 (KLZ_WT05)	06:38			07:27		18:59 (KLZ_WT20)	08:16			08:09		08:39 (SAM_WT04)	08:46		09:43 (SAM_WT07)
	21:50	15	20:41 (KLZ_WT05)	20:59			19:50	25	19:24 (KLZ_WT20)	18:44			16:52	37	10:03 (SAM_WT07)	16:39	35	10:18 (SAM_WT07)
21	05:54		20:26 (KLZ_WT05)	06:40		07:06 (SWB_WT02_RP)	07:28		09:00 (SAM_WT06)	08:17			08:11		08:41 (SAM_WT04)	08:47		09:43 (SAM_WT07)
	21:49	17	20:43 (KLZ_WT05)	20:57	1	07:07 (SWB_WT02_RP)	19:48	29	19:21 (KLZ_WT20)	18:42			16:51	36	10:05 (SAM_WT07)	16:40	35	10:18 (SAM_WT07)
22	05:55		20:24 (KLZ_WT05)	06:41		07:08 (SWB_WT02_RP)	07:30		07:59 (SAM_WT08)	08:19			08:12		08:43 (SAM_WT04)	08:47		09:44 (SAM_WT07)
	21:48	19	20:43 (KLZ_WT05)	20:55	2	07:10 (SWB_WT02_RP)	19:46	45	19:20 (KLZ_WT20)	18:40			16:50	35	10:06 (SAM_WT07)	16:40	35	10:19 (SAM_WT07)
23	05:56		20:23 (KLZ_WT05)	06:43		07:09 (SWB_WT02_RP)	07:32		07:56 (SAM_WT08)	08:21			08:14		09:32 (SAM_WT07)	08:48		09:44 (SAM_WT07)
	21:47	21	20:44 (KLZ_WT05)	20:52	1	07:10 (SWB_WT02_RP)	19:43	52	19:17 (KLZ_WT20)	18:38			16:49	34	10:06 (SAM_WT07)	16:41	35	10:19 (SAM_WT07)
24	05:58		20:22 (KLZ_WT05)	06:44		07:14 (SAM_WT02)	07:33		07:58 (SAM_WT08)	08:23			08:16		09:32 (SAM_WT07)	08:48		09:44 (SAM_WT07)
	21:45	22	20:44 (KLZ_WT05)	20:50	3	07:17 (SAM_WT02)	19:41	51	19:15 (KLZ_WT20)	18:36			16:48	35	10:07 (SAM_WT07)	16:41	35	10:19 (SAM_WT07)
25	05:59		20:23 (KLZ_WT05)	06:46		07:12 (SAM_WT02)	07:35		07:59 (SAM_WT08)	07:24			08:17		09:33 (SAM_WT07)	08:48		09:45 (SAM_WT07)
	21:44	22	20:45 (KLZ_WT05)	20:48	6	07:18 (SAM_WT02)	19:39	51	19:12 (KLZ_WT20)	17:34			16:47	35	10:08 (SAM_WT07)	16:42	36	10:21 (SAM_WT07)
26	06:00		20:22 (KLZ_WT05)	06:48		07:14 (SAM_WT02)	07:36		08:01 (SAM_WT08)	07:26			08:19		09:32 (SAM_WT07)	08:49		09:45 (SAM_WT07)
	21:43	23	20:45 (KLZ_WT05)	20:46	5	07:19 (SAM_WT02)	19:37	47	19:10 (KLZ_WT20)	17:32			16:46	36	10:08 (SAM_WT07)	16:43	36	10:21 (SAM_WT07)
27	06:02		06:30 (SAM_WT09)	06:49		07:15 (SAM_WT02)	07:38		08:03 (SAM_WT08)	07:28			08:20		09:33 (SAM_WT07)	08:49		09:45 (SAM_WT07)
	21:41	29	20:46 (KLZ_WT05)	20:44	4	07:19 (SAM_WT02)	19:34	46	19:08 (KLZ_WT20)	17:30			16:45	36	10:09 (SAM_WT07)	16:43	36	10:21 (SAM_WT07)
28	06:03		06:32 (SAM_WT09)	06:51		07:17 (SAM_WT02)	07:40		08:04 (SAM_WT08)	07:30			08:22		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:40	27	20:46 (KLZ_WT05)	20:42	2	07:19 (SAM_WT02)	19:32	47	19:05 (KLZ_WT13)	17:28			16:44	37	10:10 (SAM_WT07)	16:44	36	10:22 (SAM_WT07)
29	06:05		06:33 (SAM_WT09)	06:52			07:41		08:43 (SAM_WT06)	07:31			08:23		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:38	28	20:46 (KLZ_WT05)	20:40			19:30	45	19:03 (KLZ_WT13)	17:26			16:43	37	10:10 (SAM_WT07)	16:45	36	10:22 (SAM_WT07)
30	06:06		06:34 (SAM_WT09)	06:54			07:43		08:41 (SAM_WT06)	07:33			08:25		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:37	28	20:46 (KLZ_WT05)	20:38			19:28	45	19:00 (KLZ_WT13)	17:25			16:43	37	10:10 (SAM_WT07)	16:46	37	10:23 (SAM_WT07)
31	06:07		06:36 (SAM_WT09)	06:55						07:35		08:27 (SAM_WT11)				08:50		09:47 (SAM_WT07)
	21:35	27	20:47 (KLZ_WT05)	20:35						17:23	8	08:35 (SAM_WT11)				16:47	36	10:23 (SAM_WT07)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		309			271			960			539			894			1126	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,56			0,58			0,60			0,56			0,55			0,56	
Total reduction		0,24			0,26			0,25			0,20			0,14			0,12	
Total, real		76			71			245			106			129			138	

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

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

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

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

January			February			March			April			May			June		
1	08:50		08:24		09:22 (CBR_WT01)	07:32			07:23		07:47 (SAM_WT11)	06:20		20:36 (KLZ_WT13)	05:36		06:27 (SAM_WT06)
	16:48		17:35	37	17:05 (KLZ_WT16)	18:25			20:17	20	08:07 (SAM_WT11)	21:06	2	20:38 (KLZ_WT13)	21:50	28	21:13 (EVE_WT01)
2	08:49		08:22		09:22 (CBR_WT01)	07:30			07:21		07:48 (SAM_WT11)	06:18		20:35 (KLZ_WT13)	05:36		06:28 (SAM_WT06)
	16:49		17:36	37	17:07 (KLZ_WT16)	18:26			20:19	17	08:05 (SAM_WT11)	21:08	5	20:40 (KLZ_WT13)	21:52	26	21:13 (EVE_WT01)
3	08:49		08:21		09:22 (CBR_WT01)	07:28			07:19		07:47 (SAM_WT07)	06:16		20:34 (KLZ_WT13)	05:35		06:28 (SAM_WT06)
	16:50		17:38	35	17:07 (KLZ_WT16)	18:28			20:20	17	08:04 (SAM_WT11)	21:09	7	20:41 (KLZ_WT13)	21:53	20	06:48 (SAM_WT06)
4	08:49		08:19		09:23 (CBR_WT01)	07:26			07:17		07:45 (SAM_WT07)	06:15		20:34 (KLZ_WT13)	05:34		06:29 (SAM_WT06)
	16:51		17:40	33	09:56 (CBR_WT01)	18:30			20:22	21	08:06 (SAM_WT07)	21:11	9	20:43 (KLZ_WT13)	21:54	18	06:47 (SAM_WT06)
5	08:49		08:18		09:23 (CBR_WT01)	07:24			07:14		07:43 (SAM_WT07)	06:13		20:34 (KLZ_WT13)	05:33		06:30 (SAM_WT06)
	16:52		17:42	32	09:55 (CBR_WT01)	18:32			20:24	24	08:07 (SAM_WT07)	21:13	10	20:44 (KLZ_WT13)	21:55	17	06:47 (SAM_WT06)
6	08:49		08:16		09:24 (CBR_WT01)	07:21			07:12		07:40 (SAM_WT07)	06:11		20:34 (KLZ_WT13)	05:33		06:30 (SAM_WT06)
	16:54		17:44	30	09:54 (CBR_WT01)	18:33			20:25	27	08:07 (SAM_WT07)	21:14	11	20:45 (KLZ_WT13)	21:56	16	06:46 (SAM_WT06)
7	08:48		08:14		09:25 (CBR_WT01)	07:19			07:10		07:39 (SAM_WT07)	06:09		20:34 (KLZ_WT13)	05:32		06:31 (SAM_WT06)
	16:55		17:45	28	09:53 (CBR_WT01)	18:35			20:27	29	08:08 (SAM_WT07)	21:16	13	20:47 (KLZ_WT13)	21:56	16	06:47 (SAM_WT06)
8	08:48		08:13		09:26 (CBR_WT01)	07:17			07:08		07:38 (SAM_WT07)	06:08		20:34 (KLZ_WT13)	05:32		06:31 (SAM_WT06)
	16:56		17:47	27	09:53 (CBR_WT01)	18:37			20:29	31	08:09 (SAM_WT07)	21:17	14	20:48 (KLZ_WT13)	21:57	15	06:46 (SAM_WT06)
9	08:47		08:11		09:28 (CBR_WT01)	07:15			07:05		07:38 (SAM_WT07)	06:06		06:32 (SAM_WT06)	05:31		06:33 (SAM_WT06)
	16:58		17:49	23	09:51 (CBR_WT01)	18:39			20:30	31	08:09 (SAM_WT07)	21:19	25	20:49 (KLZ_WT13)	21:58	12	06:45 (SAM_WT06)
10	08:47		08:09		09:29 (CBR_WT01)	07:13			07:03		07:37 (SAM_WT07)	06:04		06:29 (SAM_WT02)	05:31		06:34 (SAM_WT06)
	16:59		17:51	20	09:49 (CBR_WT01)	18:40			20:32	32	08:09 (SAM_WT07)	21:21	27	20:48 (KLZ_WT13)	21:59	11	06:45 (SAM_WT06)
11	08:46		09:31 (CBR_WT01)	08:08		09:31 (CBR_WT01)	07:10			07:01		07:37 (SAM_WT07)	06:03		06:29 (SAM_WT06)	05:31		06:35 (SAM_WT06)
	17:00	4	09:35 (CBR_WT01)	17:53	16	09:47 (CBR_WT01)	18:42			20:33	32	08:09 (SAM_WT07)	21:22	26	20:47 (KLZ_WT13)	22:00	10	06:45 (SAM_WT06)
12	08:46		09:28 (CBR_WT01)	08:06		09:34 (CBR_WT01)	07:08			06:59		07:35 (SAM_WT07)	06:01		06:27 (SAM_WT06)	05:30		06:35 (SAM_WT06)
	17:02	10	09:38 (CBR_WT01)	17:54	9	09:43 (CBR_WT01)	18:44			20:35	33	08:08 (SAM_WT07)	21:24	26	20:45 (KLZ_WT13)	22:00	9	06:44 (SAM_WT06)
13	08:45		09:27 (CBR_WT01)	08:04			07:06		07:28 (SAM_WT04)	06:57		07:35 (SAM_WT07)	05:59		06:27 (SAM_WT06)	05:30		06:36 (SAM_WT06)
	17:03	14	09:41 (CBR_WT01)	17:56			18:45	1	07:29 (SAM_WT04)	20:37	33	08:08 (SAM_WT07)	21:25	21	06:48 (SAM_WT06)	22:01	7	06:43 (SAM_WT06)
14	08:44		09:26 (CBR_WT01)	08:02		08:26 (SAM_WT05)	07:04		07:26 (SAM_WT04)	06:55		07:35 (SAM_WT07)	05:58		06:25 (SAM_WT06)	05:30		06:38 (SAM_WT06)
	17:05	17	09:43 (CBR_WT01)	17:58	4	08:30 (SAM_WT05)	18:47	4	07:30 (SAM_WT04)	20:38	33	08:08 (SAM_WT07)	21:27	23	06:48 (SAM_WT06)	22:01	5	06:43 (SAM_WT06)
15	08:44		09:25 (CBR_WT01)	08:00		08:24 (SAM_WT05)	07:02		07:24 (SAM_WT04)	06:52		07:35 (SAM_WT07)	05:56		06:25 (SAM_WT06)	05:30		06:39 (SAM_WT06)
	17:06	19	09:44 (CBR_WT01)	18:00	8	08:32 (SAM_WT05)	18:49	7	07:31 (SAM_WT04)	20:40	32	08:07 (SAM_WT07)	21:28	24	06:49 (SAM_WT06)	22:02	3	06:42 (SAM_WT06)
16	08:43		09:24 (CBR_WT01)	07:58		08:22 (SAM_WT05)	06:59		07:22 (SAM_WT04)	06:50		07:13 (SAM_WT08)	05:55		06:25 (SAM_WT06)	05:29		
	17:08	22	09:46 (CBR_WT01)	18:02	11	08:33 (SAM_WT05)	18:50	10	07:32 (SAM_WT04)	20:42	34	08:07 (SAM_WT07)	21:30	25	06:50 (SAM_WT06)	22:03		
17	08:42		09:23 (CBR_WT01)	07:56		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT04)	06:48		07:11 (SAM_WT08)	05:53		06:24 (SAM_WT06)	05:29		
	17:09	24	09:47 (CBR_WT01)	18:03	14	08:34 (SAM_WT05)	18:52	12	07:31 (SAM_WT04)	20:43	34	08:06 (SAM_WT07)	21:31	25	06:49 (SAM_WT06)	22:03		
18	08:41		09:23 (CBR_WT01)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT04)	06:46		07:09 (SAM_WT08)	05:52		06:24 (SAM_WT06)	05:29		
	17:11	25	09:48 (CBR_WT01)	18:05	16	08:34 (SAM_WT05)	18:54	14	07:31 (SAM_WT04)	20:45	34	08:05 (SAM_WT07)	21:33	27	21:03 (EVE_WT01)	22:03		
19	08:40		09:22 (CBR_WT01)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT04)	06:44		07:07 (SAM_WT08)	05:51		06:24 (SAM_WT06)	05:29		
	17:12	28	09:50 (CBR_WT01)	18:07	19	08:35 (SAM_WT05)	18:55	16	07:31 (SAM_WT04)	20:47	36	20:20 (EVE_WT02)	21:34	28	21:04 (EVE_WT01)	22:04		
20	08:39		09:22 (CBR_WT01)	07:51		08:14 (SAM_WT05)	06:50		07:16 (SAM_WT04)	06:42		07:05 (SAM_WT08)	05:49		06:24 (SAM_WT06)	05:30		
	17:14	29	09:51 (CBR_WT01)	18:09	21	08:35 (SAM_WT05)	18:57	14	07:30 (SAM_WT04)	20:48	35	20:22 (EVE_WT02)	21:35	31	21:06 (EVE_WT01)	22:04		
21	08:38		09:21 (CBR_WT01)	07:49		08:14 (SAM_WT05)	06:48		07:16 (SAM_WT04)	06:40		07:39 (SAM_WT07)	05:48		06:14 (SAM_WT03)	05:30		
	17:16	30	09:51 (CBR_WT01)	18:11	23	17:44 (KLZ_WT15)	18:59	11	07:27 (SAM_WT04)	20:50	28	20:23 (EVE_WT02)	21:37	33	21:06 (EVE_WT01)	22:04		
22	08:37		09:21 (CBR_WT01)	07:47		08:14 (SAM_WT05)	06:46		07:18 (SAM_WT04)	06:38		07:40 (SAM_WT07)	05:47		06:13 (SAM_WT03)	05:30		
	17:17	31	09:52 (CBR_WT01)	18:12	25	17:46 (KLZ_WT15)	19:00	7	07:25 (SAM_WT04)	20:52	27	20:25 (EVE_WT02)	21:38	35	21:07 (EVE_WT01)	22:05		
23	08:36		09:21 (CBR_WT01)	07:45		08:14 (SAM_WT05)	06:44			06:36		07:43 (SAM_WT07)	05:46		06:12 (SAM_WT03)	05:30		
	17:19	32	09:53 (CBR_WT01)	18:14	26	17:48 (KLZ_WT15)	19:02			20:53	22	20:26 (EVE_WT02)	21:39	36	21:09 (EVE_WT01)	22:05		
24	08:35		09:20 (CBR_WT01)	07:43		08:15 (SAM_WT05)	06:41		07:03 (SAM_WT11)	06:34		07:48 (SAM_WT07)	05:44		06:11 (SAM_WT03)	05:30		
	17:21	33	09:53 (CBR_WT01)	18:16	25	17:50 (KLZ_WT15)	19:04	4	07:07 (SAM_WT11)	20:55	13	20:28 (EVE_WT02)	21:41	37	21:10 (EVE_WT01)	22:05		
25	08:34		09:20 (CBR_WT01)	07:40		08:16 (SAM_WT05)	06:39		07:01 (SAM_WT11)	06:32		20:17 (EVE_WT02)	05:43		06:24 (SAM_WT06)	05:31		
	17:22	34	09:54 (CBR_WT01)	18:18	21	17:50 (KLZ_WT15)	19:05	7	07:08 (SAM_WT11)	20:56	12	20:29 (EVE_WT02)	21:42	36	21:11 (EVE_WT01)	22:05		
26	08:32		09:21 (CBR_WT01)	07:38		08:17 (SAM_WT05)	06:37		06:59 (SAM_WT11)	06:30		20:18 (EVE_WT02)	05:42		06:24 (SAM_WT06)	05:31		
	17:24	34	09:55 (CBR_WT01)	18:19	14	08:31 (SAM_WT05)	19:07	10	07:09 (SAM_WT11)	20:58	9	20:27 (EVE_WT02)	21:43	36	21:12 (EVE_WT01)	22:05		
27	08:31		09:20 (CBR_WT01)	07:36		08:20 (SAM_WT05)	06:34		06:57 (SAM_WT11)	06:28		20:21 (EVE_WT02)	05:41		06:25 (SAM_WT06)	05:32		
	17:26	35	09:55 (CBR_WT01)	18:21	8	08:28 (SAM_WT05)	19:09	13	07:10 (SAM_WT11)	21:00	3	20:24 (EVE_WT02)	21:45	36	21:13 (EVE_WT01)	22:05		
28	08:30		09:21 (CBR_WT01)	07:34			06:32		06:54 (SAM_WT11)	06:26			05:40		06:25 (SAM_WT06)	05:32		06:41 (SAM_WT06)
	17:28	35	09:56 (CBR_WT01)	18:23			19:10	15	07:09 (SAM_WT11)	21:01			21:46	36	21:14 (EVE_WT01)	22:05	4	06:45 (SAM_WT06)
29	08:28		09:20 (CBR_WT01)				07:30		07:52 (SAM_WT11)	06:24			05:39		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:29	35	09:55 (CBR_WT01)				20:12	17	08:09 (SAM_WT11)	21:03			21:47	36	21:16 (EVE_WT01)	22:05	6	06:46 (SAM_WT06)
30	08:27		09:21 (CBR_WT01)				07:28		07:50 (SAM_WT11)	06:22			05:38		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:31	35	09:56 (CBR_WT01)				20:14	19	08:09 (SAM_WT11)	21:05			21:48	35	21:15 (EVE_WT01)	22:04	8	06:48 (SAM_WT06)
31	08:25		09:21 (CBR_WT01)				07:25		07:48 (SAM_WT11)				05:37		06:27 (SAM_WT06)			
	17:33	37	17:03 (KLZ_WT16)				20:15	20	08:08 (SAM_WT11)				21:49	31	21:14 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		563			562			201			699			766			231	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,55			0,61			0,62			0,65			0,68	
Total reduction		0,13			0,16			0,23			0,28			0,29			0,29	
Total, real		72			90			45			197			222			68	

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

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

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

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

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

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	July			August			September			October			November			December		
1	05:34		06:39 (SAM_WT06)	06:09		06:38 (SAM_WT06)	06:57		07:36 (SAM_WT07)	07:44			07:36		08:58 (CBR_WT01)	08:26		09:13 (CBR_WT01)
	22:04	10	06:49 (SAM_WT06)	21:34	26	20:56 (KLZ_WT13)	20:33	32	08:08 (SAM_WT07)	19:25			17:21	22	09:20 (CBR_WT01)	16:42	4	09:17 (CBR_WT01)
2	05:34		06:38 (SAM_WT06)	06:10		06:40 (SAM_WT06)	06:59		07:35 (SAM_WT07)	07:46			07:38		08:57 (CBR_WT01)	08:27		
	22:04	11	06:49 (SAM_WT06)	21:32	26	20:58 (KLZ_WT13)	20:31	32	08:07 (SAM_WT07)	19:23			17:19	24	09:21 (CBR_WT01)	16:41		
3	05:35		06:38 (SAM_WT06)	06:12		06:40 (SAM_WT02)	07:00		07:36 (SAM_WT07)	07:48			07:40		08:55 (CBR_WT01)	08:29		
	22:04	12	06:50 (SAM_WT06)	21:30	27	20:59 (KLZ_WT13)	20:29	31	08:07 (SAM_WT07)	19:21			17:17	27	09:22 (CBR_WT01)	16:41		
4	05:36		06:38 (SAM_WT06)	06:13		06:43 (SAM_WT06)	07:02		07:35 (SAM_WT07)	07:49			07:42		08:54 (CBR_WT01)	08:30		
	22:03	14	06:52 (SAM_WT06)	21:29	22	20:59 (KLZ_WT13)	20:27	31	08:06 (SAM_WT07)	19:19			17:16	29	09:23 (CBR_WT01)	16:40		
5	05:37		06:37 (SAM_WT06)	06:15		20:45 (KLZ_WT13)	07:03		07:36 (SAM_WT07)	07:51			07:43		08:54 (CBR_WT01)	08:31		
	22:03	15	06:52 (SAM_WT06)	21:27	13	20:58 (KLZ_WT13)	20:24	29	08:05 (SAM_WT07)	19:16			17:14	30	09:24 (CBR_WT01)	16:40		
6	05:37		06:37 (SAM_WT06)	06:17		20:44 (KLZ_WT13)	07:05		07:37 (SAM_WT07)	07:53			07:45		08:53 (CBR_WT01)	08:33		
	22:02	16	06:53 (SAM_WT06)	21:25	12	20:56 (KLZ_WT13)	20:22	26	08:03 (SAM_WT07)	19:14			17:12	32	09:25 (CBR_WT01)	16:39		
7	05:38		06:36 (SAM_WT06)	06:18		20:44 (KLZ_WT13)	07:06		07:38 (SAM_WT07)	07:54			07:47		08:53 (CBR_WT01)	08:34		
	22:02	17	06:53 (SAM_WT06)	21:23	11	20:55 (KLZ_WT13)	20:20	24	08:02 (SAM_WT07)	19:12			17:11	33	09:26 (CBR_WT01)	16:39		
8	05:39		06:36 (SAM_WT06)	06:20		20:43 (KLZ_WT13)	07:08		07:39 (SAM_WT07)	07:56			07:49		08:53 (CBR_WT01)	08:35		
	22:01	18	06:54 (SAM_WT06)	21:22	10	20:53 (KLZ_WT13)	20:18	21	08:00 (SAM_WT07)	19:10			17:09	36	16:39 (KLZ_WT16)	16:39		
9	05:40		06:36 (SAM_WT06)	06:21		20:43 (KLZ_WT13)	07:10		07:41 (SAM_WT07)	07:57			07:50		08:52 (CBR_WT01)	08:36		
	22:00	19	06:55 (SAM_WT06)	21:20	8	20:51 (KLZ_WT13)	20:15	17	07:58 (SAM_WT07)	19:08			17:07	39	16:38 (KLZ_WT16)	16:38		
10	05:41		06:36 (SAM_WT06)	06:23		20:44 (KLZ_WT13)	07:11		07:41 (SAM_WT11)	07:59			07:52		08:52 (CBR_WT01)	08:37		
	22:00	24	21:20 (EVE_WT01)	21:18	6	20:50 (KLZ_WT13)	20:13	18	07:59 (SAM_WT11)	19:05			17:06	38	16:36 (KLZ_WT16)	16:38		
11	05:42		06:36 (SAM_WT06)	06:24		20:44 (KLZ_WT13)	07:13		07:40 (SAM_WT11)	08:01			07:54		08:53 (CBR_WT01)	08:38		
	21:59	27	21:21 (EVE_WT01)	21:16	4	20:48 (KLZ_WT13)	20:11	20	08:00 (SAM_WT11)	19:03			17:04	37	16:35 (KLZ_WT16)	16:38		
12	05:43		06:35 (SAM_WT06)	06:26		20:45 (KLZ_WT13)	07:14		07:39 (SAM_WT11)	08:02			07:56		08:52 (CBR_WT01)	08:39		
	21:58	30	21:22 (EVE_WT01)	21:14	1	20:46 (KLZ_WT13)	20:09	20	07:59 (SAM_WT11)	19:01			17:03	35	09:27 (CBR_WT01)	16:38		
13	05:44		06:35 (SAM_WT06)	06:27			07:16		07:41 (SAM_WT11)	08:04			07:57		08:52 (CBR_WT01)	08:40		
	21:57	33	21:23 (EVE_WT01)	21:12			20:06	19	08:00 (SAM_WT11)	18:59			17:01	35	09:27 (CBR_WT01)	16:38		
14	05:45		06:35 (SAM_WT06)	06:29			07:17		07:42 (SAM_WT11)	08:06		08:55 (SAM_WT05)	07:59		08:53 (CBR_WT01)	08:41		
	21:56	34	21:24 (EVE_WT01)	21:11			20:04	17	07:59 (SAM_WT11)	18:57	2	08:57 (SAM_WT05)	17:00	35	09:28 (CBR_WT01)	16:38		
15	05:46		06:35 (SAM_WT06)	06:30			07:19		07:44 (SAM_WT11)	08:07		08:51 (SAM_WT05)	08:01		08:53 (CBR_WT01)	08:42		
	21:55	36	21:24 (EVE_WT01)	21:09			20:02	15	07:59 (SAM_WT11)	18:55	11	09:02 (SAM_WT05)	16:59	35	09:28 (CBR_WT01)	16:38		
16	05:48		06:34 (SAM_WT06)	06:32		20:27 (EVE_WT02)	07:21		07:45 (SAM_WT11)	08:09		08:48 (SAM_WT05)	08:02		08:54 (CBR_WT01)	08:43		
	21:54	36	21:23 (EVE_WT01)	21:07	5	20:32 (EVE_WT02)	19:59	13	07:58 (SAM_WT11)	18:52	15	09:03 (SAM_WT05)	16:57	34	09:28 (CBR_WT01)	16:38		
17	05:49		06:34 (SAM_WT06)	06:33		20:24 (EVE_WT02)	07:22		07:47 (SAM_WT11)	08:11		08:47 (SAM_WT05)	08:04		08:54 (CBR_WT01)	08:44		
	21:53	36	21:22 (EVE_WT01)	21:05	10	20:34 (EVE_WT02)	19:57	11	07:58 (SAM_WT11)	18:50	24	18:22 (KLZ_WT15)	16:56	34	09:28 (CBR_WT01)	16:38		
18	05:50		06:34 (SAM_WT06)	06:35		20:23 (EVE_WT02)	07:24		07:48 (SAM_WT11)	08:12		08:46 (SAM_WT05)	08:06		08:54 (CBR_WT01)	08:45		
	21:52	36	21:21 (EVE_WT01)	21:03	12	20:35 (EVE_WT02)	19:55	8	07:56 (SAM_WT11)	18:48	25	18:20 (KLZ_WT15)	16:55	33	09:27 (CBR_WT01)	16:39		
19	05:51		06:20 (SAM_WT03)	06:37		07:52 (SAM_WT07)	07:25		07:50 (SAM_WT11)	08:14		08:45 (SAM_WT05)	08:07		08:55 (CBR_WT01)	08:45		
	21:51	37	21:20 (EVE_WT01)	21:01	16	20:33 (EVE_WT02)	19:53	5	07:55 (SAM_WT11)	18:46	26	18:18 (KLZ_WT15)	16:53	32	09:27 (CBR_WT01)	16:39		
20	05:52		06:21 (SAM_WT03)	06:38		07:48 (SAM_WT07)	07:27		07:52 (SAM_WT11)	08:16		08:45 (SAM_WT05)	08:09		08:56 (CBR_WT01)	08:46		
	21:50	38	21:19 (EVE_WT01)	20:59	24	20:32 (EVE_WT02)	19:50	1	07:53 (SAM_WT11)	18:44	25	18:17 (KLZ_WT15)	16:52	31	09:27 (CBR_WT01)	16:39		
21	05:54		06:23 (SAM_WT03)	06:40		07:45 (SAM_WT07)	07:28		08:05 (SAM_WT04)	08:17		08:44 (SAM_WT05)	08:11		08:57 (CBR_WT01)	08:47		
	21:49	37	21:19 (EVE_WT01)	20:57	26	20:29 (EVE_WT02)	19:48	5	08:10 (SAM_WT04)	18:42	23	18:14 (KLZ_WT15)	16:51	30	09:27 (CBR_WT01)	16:40		
22	05:55		06:24 (SAM_WT03)	06:41		07:43 (SAM_WT07)	07:30		08:02 (SAM_WT04)	08:19		08:45 (SAM_WT05)	08:12		08:58 (CBR_WT01)	08:47		
	21:48	35	21:17 (EVE_WT01)	20:55	29	20:28 (EVE_WT02)	19:46	10	08:12 (SAM_WT04)	18:40	20	09:05 (SAM_WT05)	16:50	29	09:27 (CBR_WT01)	16:40		
23	05:56		06:25 (SAM_WT03)	06:43		07:09 (SAM_WT08)	07:32		08:00 (SAM_WT04)	08:21		08:47 (SAM_WT05)	08:14		08:58 (CBR_WT01)	08:48		
	21:47	32	21:16 (EVE_WT01)	20:52	36	20:25 (EVE_WT02)	19:44	13	08:13 (SAM_WT04)	18:38	18	09:05 (SAM_WT05)	16:49	28	09:26 (CBR_WT01)	16:41		
24	05:58		06:34 (SAM_WT06)	06:44		07:11 (SAM_WT08)	07:33		07:59 (SAM_WT04)	08:23		08:49 (SAM_WT05)	08:16		09:00 (CBR_WT01)	08:48		
	21:45	29	21:14 (EVE_WT01)	20:50	35	20:24 (EVE_WT02)	19:41	15	08:14 (SAM_WT04)	18:36	16	09:05 (SAM_WT05)	16:48	26	09:26 (CBR_WT01)	16:41		
25	05:59		06:34 (SAM_WT06)	06:46		07:12 (SAM_WT08)	07:35		07:59 (SAM_WT04)	07:24		07:51 (SAM_WT05)	08:17		09:01 (CBR_WT01)	08:48		
	21:44	29	21:14 (EVE_WT01)	20:48	34	08:08 (SAM_WT07)	19:39	15	08:14 (SAM_WT04)	17:34	13	08:04 (SAM_WT05)	16:47	24	09:25 (CBR_WT01)	16:42		
26	06:00		06:34 (SAM_WT06)	06:48		07:14 (SAM_WT08)	07:36		08:01 (SAM_WT04)	07:26		07:52 (SAM_WT05)	08:19		09:02 (CBR_WT01)	08:49		
	21:43	26	07:00 (SAM_WT06)	20:46	34	08:09 (SAM_WT07)	19:37	13	08:14 (SAM_WT04)	17:32	10	08:02 (SAM_WT05)	16:46	22	09:24 (CBR_WT01)	16:43		
27	06:02		06:34 (SAM_WT06)	06:49		07:15 (SAM_WT08)	07:38		08:03 (SAM_WT04)	07:28		07:54 (SAM_WT05)	08:20		09:04 (CBR_WT01)	08:49		
	21:41	26	07:00 (SAM_WT06)	20:44	34	08:09 (SAM_WT07)	19:34	11	08:14 (SAM_WT04)	17:30	7	08:01 (SAM_WT05)	16:45	20	09:24 (CBR_WT01)	16:43		
28	06:03		06:36 (SAM_WT06)	06:51		07:37 (SAM_WT07)	07:40		08:04 (SAM_WT04)	07:30		07:56 (SAM_WT05)	08:22		09:06 (CBR_WT01)	08:49		
	21:40	24	07:00 (SAM_WT06)	20:42	32	08:09 (SAM_WT07)	19:32	8	08:12 (SAM_WT04)	17:28	3	07:59 (SAM_WT05)	16:44	17	09:23 (CBR_WT01)	16:44		
29	06:05		06:36 (SAM_WT06)	06:52		07:36 (SAM_WT07)	07:41		08:06 (SAM_WT04)	07:31			08:23		09:07 (CBR_WT01)	08:49		
	21:38	23	06:59 (SAM_WT06)	20:40	33	08:09 (SAM_WT07)	19:30	6	08:12 (SAM_WT04)	17:26			16:43	14	09:21 (CBR_WT01)	16:45		
30	06:06		06:36 (SAM_WT06)	06:54		07:36 (SAM_WT07)	07:43		08:07 (SAM_WT04)	07:33		09:03 (CBR_WT01)	08:25		09:10 (CBR_WT01)	08:49		
	21:37	22	06:58 (SAM_WT06)	20:38	33	08:09 (SAM_WT07)	19:28	2	08:09 (SAM_WT04)	17:25	11	09:14 (CBR_WT01)	16:43	10	09:20 (CBR_WT01)	16:46		
31	06:08		06:37 (SAM_WT06)	06:55		07:35 (SAM_WT07)				07:35		09:00 (CBR_WT01)				08:50		
	21:35	21	06:58 (SAM_WT06)	20:35	33	08:08 (SAM_WT07)				17:23	17	09:17 (CBR_WT01)				16:47		
Potential sun hours	498			451			380			333			269			248		
Total, worst case	803			592			488			266			871			4		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,67			0,61			0,62			0,56			0,53			0,53		
Total reduction	0,29			0,28			0,26			0,20			0,14			0,12		
Total, real	235			165			128			53			121			0		

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

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

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

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	January			February			March			April			May			June		
1	08:50		13:30 (KLZ_WT11)	08:24		09:44 (CBR_WT01)	07:32		09:13 (CBR_WT01)	07:23		07:45 (SAM_WT04)	06:20		06:56 (SAM_WT11)	05:36		06:04 (SAM_WT02)
	16:48	48	15:53 (KLZ_WT10)	17:35	12	17:06 (KLZ_WT08)	18:25	59	10:12 (CBR_WT01)	20:17	8	07:53 (SAM_WT04)	21:06	23	20:38 (EVE_WT02)	21:50	17	21:19 (EVE_WT01)
2	08:49		13:31 (KLZ_WT11)	08:22		09:36 (CBR_WT01)	07:30		09:13 (CBR_WT01)	07:21		07:43 (SAM_WT04)	06:18		06:42 (SAM_WT08)	05:36		06:04 (SAM_WT02)
	16:49	47	15:54 (KLZ_WT10)	17:36	29	17:07 (KLZ_WT08)	18:26	59	10:12 (CBR_WT01)	20:19	12	07:55 (SAM_WT04)	21:08	26	20:40 (EVE_WT02)	21:52	21	21:20 (EVE_WT01)
3	08:49		13:32 (KLZ_WT11)	08:21		09:33 (CBR_WT01)	07:28		07:52 (SAM_WT05)	07:19		07:41 (SAM_WT04)	06:16		06:40 (SAM_WT08)	05:35		06:03 (SAM_WT02)
	16:50	46	15:54 (KLZ_WT10)	17:38	36	17:08 (KLZ_WT08)	18:28	68	10:11 (CBR_WT01)	20:20	14	07:55 (SAM_WT04)	21:09	26	20:41 (EVE_WT02)	21:53	25	21:21 (EVE_WT01)
4	08:49		13:33 (KLZ_WT11)	08:19		09:31 (CBR_WT01)	07:26		07:50 (SAM_WT05)	07:16		07:39 (SAM_WT04)	06:15		06:39 (SAM_WT08)	05:34		06:19 (SAM_WT07)
	16:51	45	15:55 (KLZ_WT10)	17:40	42	17:09 (KLZ_WT08)	18:30	71	10:10 (CBR_WT01)	20:22	17	07:56 (SAM_WT04)	21:11	25	20:43 (EVE_WT02)	21:54	25	21:21 (EVE_WT01)
5	08:49		13:35 (KLZ_WT11)	08:18		09:29 (CBR_WT01)	07:24		07:47 (SAM_WT05)	07:14		07:37 (SAM_WT04)	06:13		06:37 (SAM_WT08)	05:33		06:19 (SAM_WT07)
	16:52	44	15:56 (KLZ_WT10)	17:42	45	17:08 (KLZ_WT08)	18:32	73	10:08 (CBR_WT01)	20:24	19	07:56 (SAM_WT04)	21:13	21	20:44 (EVE_WT02)	21:55	27	21:23 (EVE_WT01)
6	08:49		13:37 (KLZ_WT11)	08:16		09:26 (CBR_WT01)	07:21		07:45 (SAM_WT05)	07:12		07:35 (SAM_WT04)	06:11		06:35 (SAM_WT08)	05:33		06:17 (SAM_WT07)
	16:54	40	15:56 (KLZ_WT10)	17:44	48	17:07 (KLZ_WT08)	18:33	75	10:07 (CBR_WT01)	20:25	20	07:55 (SAM_WT04)	21:14	13	20:44 (EVE_WT02)	21:55	30	21:23 (EVE_WT01)
7	08:48		13:40 (KLZ_WT11)	08:14		09:25 (CBR_WT01)	07:19		07:44 (SAM_WT05)	07:10		07:35 (SAM_WT04)	06:09		06:34 (SAM_WT08)	05:32		06:17 (SAM_WT07)
	16:55	37	15:57 (KLZ_WT10)	17:45	48	17:06 (KLZ_WT08)	18:35	75	10:06 (CBR_WT01)	20:27	20	07:55 (SAM_WT04)	21:16	8	06:42 (SAM_WT08)	21:56	31	21:24 (EVE_WT01)
8	08:48		13:44 (KLZ_WT11)	08:13		09:24 (CBR_WT01)	07:17		07:43 (SAM_WT05)	07:08		07:35 (SAM_WT04)	06:08		06:32 (SAM_WT08)	05:32		06:16 (SAM_WT07)
	16:56	29	15:57 (KLZ_WT10)	17:47	44	17:04 (KLZ_WT08)	18:37	74	10:04 (CBR_WT01)	20:28	19	07:54 (SAM_WT04)	21:17	9	06:41 (SAM_WT08)	21:57	33	21:25 (EVE_WT01)
9	08:47		15:32 (KLZ_WT10)	08:11		09:22 (CBR_WT01)	07:15		07:41 (SAM_WT05)	07:05		07:35 (SAM_WT04)	06:06		06:31 (SAM_WT08)	05:31		06:16 (SAM_WT07)
	16:58	26	15:58 (KLZ_WT10)	17:49	46	10:08 (CBR_WT01)	18:39	71	10:01 (CBR_WT01)	20:30	18	07:53 (SAM_WT04)	21:19	10	06:41 (SAM_WT08)	21:58	34	21:26 (EVE_WT01)
10	08:47		15:32 (KLZ_WT10)	08:09		09:21 (CBR_WT01)	07:13		07:41 (SAM_WT05)	07:03		07:36 (SAM_WT04)	06:04		06:29 (SWB_WT01_RP)	05:31		06:16 (SAM_WT07)
	16:59	26	15:58 (KLZ_WT10)	17:51	48	10:09 (CBR_WT01)	18:40	69	09:59 (CBR_WT01)	20:32	16	07:52 (SAM_WT04)	21:20	6	06:38 (SAM_WT08)	21:59	35	21:27 (EVE_WT01)
11	08:46		15:32 (KLZ_WT10)	08:08		09:20 (CBR_WT01)	07:10		07:41 (SAM_WT05)	07:01		07:37 (SAM_WT04)	06:03		06:28 (SWB_WT01_RP)	05:31		06:16 (SAM_WT07)
	17:00	26	15:58 (KLZ_WT10)	17:53	50	10:10 (CBR_WT01)	18:42	67	18:17 (KLZ_WT15)	20:33	12	07:49 (SAM_WT04)	21:22	1	06:29 (SWB_WT01_RP)	22:00	36	21:28 (EVE_WT01)
12	08:46		15:32 (KLZ_WT10)	08:06		09:19 (CBR_WT01)	07:08		07:41 (SAM_WT05)	06:59		07:39 (SAM_WT04)	06:01			05:30		06:16 (SAM_WT07)
	17:02	27	15:59 (KLZ_WT10)	17:54	52	10:11 (CBR_WT01)	18:44	64	18:19 (KLZ_WT15)	20:35	7	07:46 (SAM_WT04)	21:24			22:00	36	21:27 (EVE_WT01)
13	08:45		15:33 (KLZ_WT10)	08:04		09:18 (CBR_WT01)	07:06		07:40 (SAM_WT05)	06:57			05:59			05:30		06:16 (SAM_WT07)
	17:03	27	16:00 (KLZ_WT10)	17:56	54	10:12 (CBR_WT01)	18:45	59	18:20 (KLZ_WT15)	20:37			21:25			22:01	36	21:27 (EVE_WT01)
14	08:44		15:34 (KLZ_WT10)	08:02		09:17 (CBR_WT01)	07:04		07:40 (SAM_WT05)	06:55			05:58		20:56 (KLZ_WT13)	05:30		06:16 (SAM_WT07)
	17:05	27	16:32 (NES_WT01)	17:58	56	10:13 (CBR_WT01)	18:47	47	18:21 (KLZ_WT15)	20:38			21:27	1	20:57 (KLZ_WT13)	22:01	35	21:27 (EVE_WT01)
15	08:44		15:34 (KLZ_WT10)	08:00		09:16 (CBR_WT01)	07:02		07:41 (SAM_WT05)	06:52			05:56		20:56 (KLZ_WT13)	05:30		06:16 (SAM_WT07)
	17:06	28	16:34 (NES_WT01)	18:00	57	10:13 (CBR_WT01)	18:49	27	08:08 (SAM_WT05)	20:40			21:28	3	20:59 (KLZ_WT13)	22:02	34	21:26 (EVE_WT01)
16	08:43		15:35 (KLZ_WT10)	07:58		09:16 (CBR_WT01)	06:59		07:41 (SAM_WT05)	06:50		07:13 (SAM_WT11)	05:55		20:56 (KLZ_WT13)	05:29		06:16 (SAM_WT07)
	17:08	28	16:36 (NES_WT01)	18:02	58	10:14 (CBR_WT01)	18:50	26	08:07 (SAM_WT05)	20:42	3	07:16 (SAM_WT11)	21:30	4	21:00 (KLZ_WT13)	22:03	33	21:26 (EVE_WT01)
17	08:42		15:35 (KLZ_WT10)	07:56		09:15 (CBR_WT01)	06:57		07:41 (SAM_WT05)	06:48		07:11 (SAM_WT11)	05:53		20:56 (KLZ_WT13)	05:29		06:16 (SAM_WT07)
	17:09	28	16:37 (NES_WT01)	18:03	59	10:14 (CBR_WT01)	18:52	24	08:05 (SAM_WT05)	20:43	7	07:18 (SAM_WT11)	21:31	5	21:01 (KLZ_WT13)	22:03	32	06:48 (SAM_WT07)
18	08:41		15:36 (KLZ_WT10)	07:55		09:15 (CBR_WT01)	06:55		07:43 (SAM_WT05)	06:46		07:09 (SAM_WT11)	05:52		20:56 (KLZ_WT13)	05:29		06:16 (SAM_WT07)
	17:11	24	16:00 (KLZ_WT10)	18:05	60	10:15 (CBR_WT01)	18:54	20	08:03 (SAM_WT05)	20:45	10	07:19 (SAM_WT11)	21:32	6	21:02 (KLZ_WT13)	22:03	32	06:48 (SAM_WT07)
19	08:40		15:37 (KLZ_WT10)	07:53		09:14 (CBR_WT01)	06:53		07:44 (SAM_WT05)	06:44		07:07 (SAM_WT11)	05:51		20:57 (KLZ_WT13)	05:29		06:16 (SAM_WT07)
	17:12	23	16:00 (KLZ_WT10)	18:07	61	10:15 (CBR_WT01)	18:55	17	08:01 (SAM_WT05)	20:47	13	07:20 (SAM_WT11)	21:34	7	21:04 (KLZ_WT13)	22:04	32	06:48 (SAM_WT07)
20	08:39		15:37 (KLZ_WT10)	07:51		09:14 (CBR_WT01)	06:50		07:47 (SAM_WT05)	06:42		07:05 (SAM_WT11)	05:49		20:58 (KLZ_WT13)	05:30		06:16 (SAM_WT07)
	17:14	22	15:59 (KLZ_WT10)	18:09	63	17:42 (KLZ_WT16)	18:57	11	07:58 (SAM_WT05)	20:48	16	07:21 (SAM_WT11)	21:35	8	21:06 (KLZ_WT13)	22:04	32	06:48 (SAM_WT07)
21	08:38		15:38 (KLZ_WT10)	07:49		09:13 (CBR_WT01)	06:48			06:40		07:03 (SAM_WT11)	05:48		20:58 (KLZ_WT13)	05:30		06:16 (SAM_WT07)
	17:16	21	15:59 (KLZ_WT10)	18:11	64	17:44 (KLZ_WT16)	18:59			20:50	18	07:21 (SAM_WT11)	21:37	8	21:06 (KLZ_WT13)	22:04	32	06:48 (SAM_WT07)
22	08:37		15:40 (KLZ_WT10)	07:47		09:13 (CBR_WT01)	06:46			06:38		07:01 (SAM_WT11)	05:47		20:59 (KLZ_WT13)	05:30		06:17 (SAM_WT07)
	17:17	19	15:59 (KLZ_WT10)	18:12	62	10:15 (CBR_WT01)	19:00			20:52	21	07:22 (SAM_WT11)	21:38	7	21:06 (KLZ_WT13)	22:05	32	06:49 (SAM_WT07)
23	08:36		15:41 (KLZ_WT10)	07:45		09:13 (CBR_WT01)	06:43			06:36		06:59 (SAM_WT11)	05:46		21:01 (KLZ_WT13)	05:30		06:17 (SAM_WT07)
	17:19	18	15:59 (KLZ_WT10)	18:14	62	10:15 (CBR_WT01)	19:02			20:53	23	07:22 (SAM_WT11)	21:39	3	21:04 (KLZ_WT13)	22:05	32	06:49 (SAM_WT07)
24	08:35		15:43 (KLZ_WT10)	07:43		09:13 (CBR_WT01)	06:41			06:34		06:57 (SAM_WT11)	05:44			05:30		06:17 (SAM_WT07)
	17:21	14	15:57 (KLZ_WT10)	18:16	62	10:15 (CBR_WT01)	19:04			20:55	25	07:22 (SAM_WT11)	21:41			22:05	32	06:49 (SAM_WT07)
25	08:33		15:46 (KLZ_WT10)	07:40		09:13 (CBR_WT01)	06:39			06:32		06:55 (SAM_WT11)	05:43			05:31		06:18 (SAM_WT07)
	17:22	10	15:56 (KLZ_WT10)	18:18	62	10:15 (CBR_WT01)	19:05			20:56	26	07:21 (SAM_WT11)	21:42			22:05	32	06:50 (SAM_WT07)
26	08:32		15:51 (KLZ_WT10)	07:38		09:13 (CBR_WT01)	06:37			06:30		06:54 (SAM_WT11)	05:42			05:31		06:18 (SAM_WT07)
	17:24	1	15:52 (KLZ_WT10)	18:19	62	10:15 (CBR_WT01)	19:07			20:58	27	07:21 (SAM_WT11)	21:43			22:05	33	21:28 (EVE_WT01)
27	08:31			07:36		09:12 (CBR_WT01)	06:34			06:28		06:54 (SAM_WT11)	05:41			05:32		06:18 (SAM_WT07)
	17:26			18:21	61	10:13 (CBR_WT01)	19:09			21:00	26	07:20 (SAM_WT11)	21:45			22:05	34	21:28 (EVE_WT01)
28	08:30			07:34		09:13 (CBR_WT01)	06:32			06:26		06:54 (SAM_WT11)	05:40			05:32		06:19 (SAM_WT07)
	17:28			18:23	60	10:13 (CBR_WT01)	19:10			21:01	26	07:20 (SAM_WT11)	21:46			22:05	35	21:30 (EVE_WT01)
29	08:28		16:58 (KLZ_WT08)				07:30			06:24		06:55 (SAM_WT11)	05:39		06:07 (SAM_WT02)	05:33		06:19 (SAM_WT07)
	17:29	1	16:59 (KLZ_WT08)				20:12			21:03	25	07:20 (SAM_WT11)	21:47	1	06:08 (SAM_WT02)	22:05	35	21:30 (EVE_WT01)
30	08:27		16:57 (KLZ_WT08)				07:28			06:22		06:55 (SAM_WT11)	05:38		06:06 (SAM_WT02)	05:33		06:20 (SAM_WT07)
	17:31	4	17:01 (KLZ_WT08)				20:14			21:05	25	20:37 (EVE_WT02)	21:48	2	21:17 (EVE_WT01)	22:04	35	21:31 (EVE_WT01)
31	08:25		16:56 (KLZ_WT08)				07:25		07:48 (SAM_WT04)				05:37		06:05 (SAM_WT02)			
	17:33	7	17:03 (KLZ_WT08)				20:15	4	07:52 (SAM_WT04)				21:49	10	21:18 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		743			1463			1060			473			233			948	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,72			0,55			0,55			0,64			0,62			0,69	
Total reduction		0,17			0,16			0,20			0,29			0,28			0,30	
Total, real		129			235			215			137			65			281	

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

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

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Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	July			August			September			October			November			December		
1	05:34		06:21 (SAM_WT07)	06:09			06:57		07:37 (SAM_WT04)	07:44		08:20 (SAM_WT05)	07:36		08:51 (CBR_WT01)	08:26		15:14 (KLZ_WT10)
	22:04	36	21:32 (EVE_WT01)	21:34			20:33	12	07:49 (SAM_WT04)	19:25	62	18:58 (KLZ_WT15)	17:21	48	09:39 (CBR_WT01)	16:42	26	15:40 (KLZ_WT10)
2	05:34		06:20 (SAM_WT07)	06:10		06:39 (SWB_WT01_RP)	06:59		07:34 (SAM_WT04)	07:46		08:20 (SAM_WT05)	07:38		08:52 (CBR_WT01)	08:27		15:15 (KLZ_WT10)
	22:04	36	21:31 (EVE_WT01)	21:32	1	06:40 (SWB_WT01_RP)	20:31	16	07:50 (SAM_WT04)	19:23	65	18:56 (KLZ_WT15)	17:19	46	09:38 (CBR_WT01)	16:41	26	15:41 (KLZ_WT10)
3	05:35		06:21 (SAM_WT07)	06:12		06:40 (SWB_WT01_RP)	07:00		07:33 (SAM_WT04)	07:48		08:19 (SAM_WT05)	07:40		08:53 (CBR_WT01)	08:29		15:15 (KLZ_WT10)
	22:03	35	21:31 (EVE_WT01)	21:30	9	06:50 (SAM_WT08)	20:29	18	07:51 (SAM_WT04)	19:21	68	18:54 (KLZ_WT15)	17:17	47	16:34 (KLZ_WT08)	16:41	26	15:41 (KLZ_WT10)
4	05:36		06:22 (SAM_WT07)	06:13		06:41 (SAM_WT08)	07:02		07:32 (SAM_WT04)	07:49		08:19 (SAM_WT05)	07:42		08:55 (CBR_WT01)	08:30		15:16 (KLZ_WT10)
	22:03	34	21:31 (EVE_WT01)	21:29	9	06:50 (SAM_WT08)	20:27	19	07:51 (SAM_WT04)	19:19	70	10:38 (CBR_WT01)	17:16	47	16:36 (KLZ_WT08)	16:40	26	15:42 (KLZ_WT10)
5	05:37		06:22 (SAM_WT07)	06:15		06:43 (SAM_WT08)	07:03		07:32 (SAM_WT04)	07:51		08:20 (SAM_WT05)	07:43		08:56 (CBR_WT01)	08:31		13:25 (KLZ_WT11)
	22:03	33	21:30 (EVE_WT01)	21:27	9	06:52 (SAM_WT08)	20:24	20	07:52 (SAM_WT04)	19:16	72	10:40 (CBR_WT01)	17:14	47	16:37 (KLZ_WT08)	16:40	36	15:42 (KLZ_WT10)
6	05:37		06:23 (SAM_WT07)	06:16		06:44 (SAM_WT08)	07:05		07:31 (SAM_WT04)	07:52		08:19 (SAM_WT05)	07:45		08:59 (CBR_WT01)	08:33		13:23 (KLZ_WT11)
	22:02	31	21:30 (EVE_WT01)	21:25	11	20:53 (EVE_WT02)	20:22	20	07:51 (SAM_WT04)	19:14	74	10:41 (CBR_WT01)	17:12	44	16:38 (KLZ_WT08)	16:39	40	15:42 (KLZ_WT10)
7	05:38		06:25 (SAM_WT07)	06:18		06:46 (SAM_WT08)	07:06		07:32 (SAM_WT04)	07:54		08:20 (SAM_WT05)	07:47		09:01 (CBR_WT01)	08:34		13:21 (KLZ_WT11)
	22:02	28	21:29 (EVE_WT01)	21:23	14	20:55 (EVE_WT02)	20:20	19	07:51 (SAM_WT04)	19:12	74	10:42 (CBR_WT01)	17:11	41	16:39 (KLZ_WT08)	16:39	44	15:42 (KLZ_WT10)
8	05:39		06:26 (SAM_WT07)	06:20		06:47 (SAM_WT08)	07:08		07:33 (SAM_WT04)	07:56		08:22 (SAM_WT05)	07:49		09:04 (CBR_WT01)	08:35		13:21 (KLZ_WT11)
	22:01	27	21:29 (EVE_WT01)	21:22	22	20:53 (EVE_WT02)	20:18	17	07:50 (SAM_WT04)	19:10	74	10:44 (CBR_WT01)	17:09	36	16:39 (KLZ_WT08)	16:39	45	15:43 (KLZ_WT10)
9	05:40		06:27 (SAM_WT07)	06:21		06:48 (SAM_WT08)	07:10		07:35 (SAM_WT04)	07:57		08:23 (SAM_WT05)	07:50		09:08 (CBR_WT01)	08:36		13:21 (KLZ_WT11)
	22:00	24	21:29 (EVE_WT01)	21:20	25	20:51 (EVE_WT02)	20:15	15	07:50 (SAM_WT04)	19:08	73	10:44 (CBR_WT01)	17:07	28	16:38 (KLZ_WT08)	16:38	46	15:43 (KLZ_WT10)
10	05:41		06:11 (SAM_WT02)	06:23		06:50 (SAM_WT08)	07:11		07:36 (SAM_WT04)	07:59		08:25 (SAM_WT05)	07:52		16:27 (KLZ_WT08)	08:37		13:20 (KLZ_WT11)
	22:00	23	21:28 (EVE_WT01)	21:18	25	20:50 (EVE_WT02)	20:13	12	07:48 (SAM_WT04)	19:05	70	10:45 (CBR_WT01)	17:06	9	16:36 (KLZ_WT08)	16:38	47	15:43 (KLZ_WT10)
11	05:42		06:12 (SAM_WT02)	06:24		07:05 (SAM_WT11)	07:13		07:38 (SAM_WT04)	08:01		08:29 (SAM_WT05)	07:54		16:27 (KLZ_WT08)	08:38		13:20 (KLZ_WT11)
	21:59	18	21:27 (EVE_WT01)	21:16	24	20:48 (EVE_WT02)	20:11	9	07:47 (SAM_WT04)	19:03	63	10:46 (CBR_WT01)	17:04	7	16:34 (KLZ_WT08)	16:38	48	15:43 (KLZ_WT10)
12	05:43		06:13 (SAM_WT02)	06:26		07:04 (SAM_WT11)	07:14		07:39 (SAM_WT04)	08:02		09:46 (CBR_WT01)	07:56		16:28 (KLZ_WT08)	08:39		13:20 (KLZ_WT11)
	21:58	13	21:27 (EVE_WT01)	21:14	24	20:46 (EVE_WT02)	20:09	5	07:44 (SAM_WT04)	19:01	59	10:45 (CBR_WT01)	17:03	4	16:32 (KLZ_WT08)	16:38	48	15:43 (KLZ_WT10)
13	05:44		06:14 (SAM_WT02)	06:27		07:03 (SAM_WT11)	07:16			08:04		09:46 (CBR_WT01)	07:57		16:30 (KLZ_WT08)	08:40		13:20 (KLZ_WT11)
	21:57	3	21:26 (EVE_WT01)	21:12	23	07:26 (SAM_WT11)	20:06			18:59	60	10:46 (CBR_WT01)	17:01	1	16:31 (KLZ_WT08)	16:38	50	15:44 (KLZ_WT10)
14	05:45		06:15 (SAM_WT02)	06:29		07:02 (SAM_WT11)	07:17			08:06		09:46 (CBR_WT01)	07:59			08:41		13:20 (KLZ_WT11)
	21:56	2	21:25 (EVE_WT01)	21:11	25	07:27 (SAM_WT11)	20:04			18:57	60	10:46 (CBR_WT01)	17:00			16:38	49	15:44 (KLZ_WT10)
15	05:46			06:30		07:01 (SAM_WT11)	07:19			08:07		09:46 (CBR_WT01)	08:01			08:42		13:20 (KLZ_WT11)
	21:55			21:09	26	07:27 (SAM_WT11)	20:02			18:55	61	10:47 (CBR_WT01)	16:59			16:38	49	15:44 (KLZ_WT10)
16	05:48			06:32		07:01 (SAM_WT11)	07:21			08:09		09:44 (CBR_WT01)	08:02		15:23 (KLZ_WT10)	08:43		13:20 (KLZ_WT11)
	21:54			21:07	27	07:28 (SAM_WT11)	19:59			18:52	62	10:46 (CBR_WT01)	16:57	2	15:25 (KLZ_WT10)	16:38	51	15:45 (KLZ_WT10)
17	05:49			06:33		07:00 (SAM_WT11)	07:22			08:11		09:44 (CBR_WT01)	08:04		15:19 (KLZ_WT10)	08:44		13:21 (KLZ_WT11)
	21:53			21:05	28	07:28 (SAM_WT11)	19:57			18:50	62	10:46 (CBR_WT01)	16:56	11	15:30 (KLZ_WT10)	16:38	51	15:46 (KLZ_WT10)
18	05:50			06:35		07:02 (SAM_WT11)	07:24			08:12		09:44 (CBR_WT01)	08:06		15:17 (KLZ_WT10)	08:45		13:21 (KLZ_WT11)
	21:52			21:03	26	07:28 (SAM_WT11)	19:55			18:48	63	10:47 (CBR_WT01)	16:55	14	15:31 (KLZ_WT10)	16:39	50	15:45 (KLZ_WT10)
19	05:51			06:37		07:03 (SAM_WT11)	07:25			08:14		09:45 (CBR_WT01)	08:07		15:15 (KLZ_WT10)	08:45		13:21 (KLZ_WT11)
	21:51			21:01	24	07:27 (SAM_WT11)	19:53			18:46	62	10:47 (CBR_WT01)	16:53	18	15:33 (KLZ_WT10)	16:39	51	15:46 (KLZ_WT10)
20	05:52			06:38		07:05 (SAM_WT11)	07:27			08:16		09:45 (CBR_WT01)	08:09		15:15 (KLZ_WT10)	08:46		13:22 (KLZ_WT11)
	21:50			20:59	22	07:27 (SAM_WT11)	19:50			18:44	64	18:17 (KLZ_WT16)	16:52	19	15:34 (KLZ_WT10)	16:39	51	15:47 (KLZ_WT10)
21	05:54		21:10 (KLZ_WT13)	06:40		07:06 (SAM_WT11)	07:28			08:17		09:44 (CBR_WT01)	08:11		15:14 (KLZ_WT10)	08:46		13:22 (KLZ_WT11)
	21:49	6	21:16 (KLZ_WT13)	20:57	20	07:26 (SAM_WT11)	19:48			18:42	65	18:14 (KLZ_WT16)	16:51	21	15:35 (KLZ_WT10)	16:40	51	15:47 (KLZ_WT10)
22	05:55		21:09 (KLZ_WT13)	06:41		07:08 (SAM_WT11)	07:30			08:19		09:44 (CBR_WT01)	08:12		15:14 (KLZ_WT10)	08:47		13:23 (KLZ_WT11)
	21:48	8	21:17 (KLZ_WT13)	20:55	18	07:26 (SAM_WT11)	19:46			18:40	63	18:12 (KLZ_WT16)	16:50	22	15:36 (KLZ_WT10)	16:40	51	15:48 (KLZ_WT10)
23	05:56		21:08 (KLZ_WT13)	06:43		07:09 (SAM_WT11)	07:32		08:32 (SAM_WT05)	08:21		09:45 (CBR_WT01)	08:14		15:13 (KLZ_WT10)	08:48		13:23 (KLZ_WT11)
	21:46	8	21:16 (KLZ_WT13)	20:52	16	07:25 (SAM_WT11)	19:43	9	08:41 (SAM_WT05)	18:38	60	10:45 (CBR_WT01)	16:49	23	15:36 (KLZ_WT10)	16:41	51	15:48 (KLZ_WT10)
24	05:58		21:07 (KLZ_WT13)	06:44		07:11 (SAM_WT11)	07:33		08:29 (SAM_WT05)	08:23		09:45 (CBR_WT01)	08:15		15:13 (KLZ_WT10)	08:48		13:23 (KLZ_WT11)
	21:45	7	21:14 (KLZ_WT13)	20:50	13	07:24 (SAM_WT11)	19:41	15	08:44 (SAM_WT05)	18:36	60	10:45 (CBR_WT01)	16:48	24	15:37 (KLZ_WT10)	16:41	51	15:48 (KLZ_WT10)
25	05:59		21:07 (KLZ_WT13)	06:46		07:12 (SAM_WT11)	07:35		08:26 (SAM_WT05)	07:24		08:46 (CBR_WT01)	08:17		15:13 (KLZ_WT10)	08:48		13:24 (KLZ_WT11)
	21:44	7	21:14 (KLZ_WT13)	20:48	10	07:22 (SAM_WT11)	19:39	19	08:45 (SAM_WT05)	17:34	59	09:45 (CBR_WT01)	16:47	28	16:15 (NES_WT01)	16:42	51	15:49 (KLZ_WT10)
26	06:00		21:06 (KLZ_WT13)	06:48		07:14 (SAM_WT11)	07:36		08:24 (SAM_WT05)	07:26		08:45 (CBR_WT01)	08:19		15:13 (KLZ_WT10)	08:49		13:25 (KLZ_WT11)
	21:42	6	21:12 (KLZ_WT13)	20:46	7	07:21 (SAM_WT11)	19:37	23	08:47 (SAM_WT05)	17:32	58	09:43 (CBR_WT01)	16:46	28	16:14 (NES_WT01)	16:43	50	15:49 (KLZ_WT10)
27	06:02		21:06 (KLZ_WT13)	06:49		07:15 (SAM_WT11)	07:38		08:23 (SAM_WT05)	07:28		08:46 (CBR_WT01)	08:20		15:13 (KLZ_WT10)	08:49		13:25 (KLZ_WT11)
	21:41	5	21:11 (KLZ_WT13)	20:44	2	07:17 (SAM_WT11)	19:34	25	08:48 (SAM_WT05)	17:30	57	09:43 (CBR_WT01)	16:45	28	16:13 (NES_WT01)	16:43	51	15:50 (KLZ_WT10)
28	06:03		21:07 (KLZ_WT13)	06:51			07:40		08:22 (SAM_WT05)	07:30		08:47 (CBR_WT01)	08:22		15:14 (KLZ_WT10)	08:49		13:26 (KLZ_WT11)
	21:40	3	21:10 (KLZ_WT13)	20:42			19:32	26	08:48 (SAM_WT05)	17:28	55	09:42 (CBR_WT01)	16:44	27	16:12 (NES_WT01)	16:44	50	15:50 (KLZ_WT10)
29	06:05		21:07 (KLZ_WT13)	06:52			07:41		08:21 (SAM_WT05)	07:31		08:48 (CBR_WT01)	08:23		15:13 (KLZ_WT10)	08:49		13:27 (KLZ_WT11)
	21:38	1	21:08 (KLZ_WT13)	20:40			19:30	40	10:24 (CBR_WT01)	17:26	53	09:41 (CBR_WT01)	16:43	27	15:40 (KLZ_WT10)	16:45	49	15:51 (KLZ_WT10)
30	06:06			06:54			07:43		08:20 (SAM_WT05)	07:33		08:49 (CBR_WT01)	08:25		15:14 (KLZ_WT10)	08:49		13:27 (KLZ_WT11)
	21:37			20:38			19:28	54	19:00 (KLZ_WT15)	17:25	52	09:41 (CBR_WT01)	16:43	27	15:41 (KLZ_WT10)	16:46	49	15:51 (KLZ_WT10)
31	06:08			06:55		07:39 (SAM_WT04)				07:35		08:50 (CBR_WT01)				08:49		13:28 (KLZ_WT11)
	21:35			20:35	8	07:47 (SAM_WT04)				17:23	50	09:40 (CBR_WT01)				16:47	50	15:52 (KLZ_WT10)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		394			468			393			1950			724			1414	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,66			0,64			0,59			0,54			0,64			0,71	
Total reduction		0,29			0,29			0,25			0,19			0,17			0,16	
Total, real		113			137			98			375			121			220	

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

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

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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	January			February			March			April			May			June		
1	08:49			08:24		17:05 (NES_WT01)	07:32		13:53 (CBR_WT01)	07:23		08:19 (SAM_WT05)	06:20		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:48			17:35	1	17:06 (NES_WT01)	18:25	121	17:51 (KLZ_WT10)	20:17	195	16:35 (CBR_WT01)	21:06	110	20:38 (EVE_WT02)	21:50	20	06:24 (SAM_WT11)
2	08:49			08:22			07:30		13:51 (CBR_WT01)	07:21		08:19 (SAM_WT05)	06:18		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:49			17:36			18:26	125	17:51 (KLZ_WT10)	20:19	194	16:35 (CBR_WT01)	21:08	106	20:40 (EVE_WT02)	21:51	21	06:25 (SAM_WT11)
3	08:49			08:21			07:28		13:49 (CBR_WT01)	07:19		08:19 (SAM_WT05)	06:16		06:53 (SAM_WT04)	05:35		06:03 (SAM_WT08)
	16:50			17:38			18:28	127	17:50 (KLZ_WT10)	20:20	194	16:35 (CBR_WT01)	21:09	102	20:41 (EVE_WT02)	21:53	22	06:25 (SAM_WT11)
4	08:49			08:19			07:26		13:47 (CBR_WT01)	07:16		08:19 (SAM_WT05)	06:15		06:53 (SAM_WT04)	05:34		06:02 (SAM_WT08)
	16:51			17:40			18:30	128	17:49 (KLZ_WT10)	20:22	194	16:35 (CBR_WT01)	21:11	96	16:17 (CBR_WT01)	21:54	24	06:26 (SAM_WT11)
5	08:49			08:18			07:24		13:44 (CBR_WT01)	07:14		08:19 (SAM_WT05)	06:13		06:53 (SAM_WT04)	05:33		06:02 (SAM_WT08)
	16:52			17:42			18:32	124	17:46 (KLZ_WT10)	20:24	193	16:35 (CBR_WT01)	21:13	91	16:16 (CBR_WT01)	21:55	25	06:27 (SAM_WT11)
6	08:49			08:16			07:21		13:43 (CBR_WT01)	07:12		08:18 (SAM_WT05)	06:11		06:53 (SAM_WT04)	05:33		06:01 (SAM_WT08)
	16:54			17:44			18:33	116	17:32 (KLZ_WT11)	20:25	192	16:34 (CBR_WT01)	21:14	85	16:14 (CBR_WT01)	21:55	26	06:27 (SAM_WT11)
7	08:48			08:14			07:19		13:41 (CBR_WT01)	07:10		08:18 (SAM_WT05)	06:09		06:54 (SAM_WT04)	05:32		06:01 (SAM_WT08)
	16:55			17:45			18:35	115	17:30 (KLZ_WT11)	20:27	191	16:34 (CBR_WT01)	21:16	79	16:13 (CBR_WT01)	21:56	27	06:28 (SAM_WT11)
8	08:48			08:13			07:17		13:40 (CBR_WT01)	07:08		08:19 (SAM_WT05)	06:08		06:55 (SAM_WT04)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37	110	17:26 (KLZ_WT11)	20:28	189	16:34 (CBR_WT01)	21:17	72	16:11 (CBR_WT01)	21:57	28	06:28 (SAM_WT11)
9	08:47			08:11			07:15		13:38 (CBR_WT01)	07:05		08:19 (SAM_WT05)	06:06		06:56 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:57			17:49			18:38	108	15:26 (CBR_WT01)	20:30	187	16:34 (CBR_WT01)	21:19	66	16:10 (CBR_WT01)	21:58	29	06:29 (SAM_WT11)
10	08:47			08:09			07:13		13:36 (CBR_WT01)	07:03		08:20 (SAM_WT05)	06:04		06:57 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40	111	15:27 (CBR_WT01)	20:32	185	16:34 (CBR_WT01)	21:20	58	16:08 (CBR_WT01)	21:59	29	06:29 (SAM_WT11)
11	08:46			08:08			07:10		13:35 (CBR_WT01)	07:01		08:19 (SAM_WT05)	06:03		06:58 (SAM_WT04)	05:31		05:59 (SAM_WT08)
	17:00			17:53			18:42	113	15:28 (CBR_WT01)	20:33	182	16:32 (CBR_WT01)	21:22	51	16:07 (CBR_WT01)	21:59	30	06:29 (SAM_WT11)
12	08:46			08:06			07:08		13:34 (CBR_WT01)	06:59		08:20 (SAM_WT05)	06:01		06:59 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44	116	15:30 (CBR_WT01)	20:35	179	16:32 (CBR_WT01)	21:24	42	20:54 (KLZ_WT13)	22:00	31	06:30 (SAM_WT11)
13	08:45			08:04			07:06		13:32 (CBR_WT01)	06:57		08:21 (SAM_WT05)	05:59		07:02 (SAM_WT04)	05:30		05:59 (SAM_WT11)
	17:03			17:56			18:45	118	15:30 (CBR_WT01)	20:37	175	16:32 (CBR_WT01)	21:25	29	20:56 (KLZ_WT13)	22:01	31	06:30 (SAM_WT11)
14	08:44			08:02			07:04		13:31 (CBR_WT01)	06:55		08:22 (SAM_WT05)	05:58		20:55 (KLZ_WT13)	05:30		05:59 (SAM_WT11)
	17:05			17:58			18:47	120	15:31 (CBR_WT01)	20:38	171	16:31 (CBR_WT01)	21:27	2	20:57 (KLZ_WT13)	22:01	32	06:31 (SAM_WT11)
15	08:44			08:00			07:01		07:50 (SAM_WT05)	06:52		08:23 (SAM_WT05)	05:56			05:30		05:59 (SAM_WT11)
	17:06			18:00			18:49	128	15:31 (CBR_WT01)	20:40	167	16:31 (CBR_WT01)	21:28			22:02	32	06:31 (SAM_WT11)
16	08:43			07:58			06:59		07:43 (SAM_WT05)	06:50		08:25 (SAM_WT05)	05:55			05:29		05:59 (SAM_WT11)
	17:08			18:02			18:50	143	15:32 (CBR_WT01)	20:42	161	16:31 (CBR_WT01)	21:30			22:02	33	06:32 (SAM_WT11)
17	08:42			07:56			06:57		07:39 (SAM_WT05)	06:48		08:26 (SAM_WT05)	05:53			05:29		05:59 (SAM_WT11)
	17:09			18:03			18:52	151	15:32 (CBR_WT01)	20:43	155	16:30 (CBR_WT01)	21:31			22:03	33	06:32 (SAM_WT11)
18	08:41			07:54			06:55		07:36 (SAM_WT05)	06:46		08:28 (SAM_WT05)	05:52			05:29		05:59 (SAM_WT11)
	17:11			18:05			18:54	159	15:33 (CBR_WT01)	20:45	149	16:30 (CBR_WT01)	21:32			22:03	33	06:32 (SAM_WT11)
19	08:40			07:53			06:52		07:34 (SAM_WT05)	06:44		08:31 (SAM_WT05)	05:51			05:29		05:59 (SAM_WT11)
	17:12			18:07			18:55	165	15:34 (CBR_WT01)	20:47	139	16:29 (CBR_WT01)	21:34			22:04	33	06:32 (SAM_WT11)
20	08:39			07:51		17:22 (KLZ_WT11)	06:50		07:32 (SAM_WT05)	06:42		07:08 (SAM_WT04)	05:49			05:30		05:59 (SAM_WT11)
	17:14			18:09	6	17:28 (KLZ_WT11)	18:57	169	15:34 (CBR_WT01)	20:48	130	16:29 (CBR_WT01)	21:35			22:04	33	06:32 (SAM_WT11)
21	08:38			07:49		14:21 (CBR_WT01)	06:48		07:30 (SAM_WT05)	06:40		07:04 (SAM_WT04)	05:48			05:30		05:59 (SAM_WT11)
	17:16			18:11	40	17:31 (KLZ_WT11)	18:59	173	15:34 (CBR_WT01)	20:50	129	16:28 (CBR_WT01)	21:37			22:04	33	06:32 (SAM_WT11)
22	08:37			07:47		14:15 (CBR_WT01)	06:46		07:28 (SAM_WT05)	06:38		07:01 (SAM_WT04)	05:47			05:30		06:00 (SAM_WT11)
	17:17			18:12	54	17:33 (KLZ_WT11)	19:00	177	15:34 (CBR_WT01)	20:51	131	16:27 (CBR_WT01)	21:38			22:04	33	06:33 (SAM_WT11)
23	08:36			07:45		14:11 (CBR_WT01)	06:43		07:27 (SAM_WT05)	06:36		06:59 (SAM_WT04)	05:46			05:30		06:00 (SAM_WT11)
	17:19			18:14	72	17:46 (KLZ_WT10)	19:02	180	15:35 (CBR_WT01)	20:53	131	16:27 (CBR_WT01)	21:39			22:05	33	06:33 (SAM_WT11)
24	08:35			07:42		14:07 (CBR_WT01)	06:41		07:25 (SAM_WT05)	06:34		06:58 (SAM_WT04)	05:44		06:11 (SWB_WT01_RP)	05:30		06:00 (SAM_WT11)
	17:21			18:16	88	17:50 (KLZ_WT08)	19:04	183	15:34 (CBR_WT01)	20:55	130	16:26 (CBR_WT01)	21:41	2	21:10 (EVE_WT01)	22:05	33	06:33 (SAM_WT11)
25	08:33			07:40		14:04 (CBR_WT01)	06:39		07:24 (SAM_WT05)	06:32		06:56 (SAM_WT04)	05:43		06:10 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:22			18:18	99	17:52 (KLZ_WT08)	19:05	186	15:35 (CBR_WT01)	20:56	129	16:25 (CBR_WT01)	21:42	3	21:11 (EVE_WT01)	22:05	33	06:34 (SAM_WT11)
26	08:32			07:38		14:01 (CBR_WT01)	06:37		07:23 (SAM_WT05)	06:30		06:55 (SAM_WT04)	05:42		06:09 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:24			18:19	108	17:54 (KLZ_WT08)	19:07	188	15:35 (CBR_WT01)	20:58	126	16:24 (CBR_WT01)	21:43	7	21:12 (EVE_WT01)	22:05	33	06:34 (SAM_WT11)
27	08:31			07:36		13:57 (CBR_WT01)	06:34		07:23 (SAM_WT05)	06:28		06:54 (SAM_WT04)	05:41		06:08 (SAM_WT08)	05:32		06:01 (SAM_WT11)
	17:26			18:21	116	17:55 (KLZ_WT08)	19:09	190	15:36 (CBR_WT01)	21:00	123	16:23 (CBR_WT01)	21:45	10	21:13 (EVE_WT01)	22:05	32	06:33 (SAM_WT11)
28	08:30			07:34		13:55 (CBR_WT01)	06:32		07:21 (SAM_WT05)	06:26		06:54 (SAM_WT04)	05:40		06:07 (SAM_WT08)	05:32		06:02 (SAM_WT11)
	17:28			18:23	120	17:54 (KLZ_WT08)	19:10	191	15:35 (CBR_WT01)	21:01	119	16:22 (CBR_WT01)	21:46	12	06:19 (SAM_WT11)	22:05	32	06:34 (SAM_WT11)
29	08:28						07:30		08:21 (SAM_WT05)	06:24		06:54 (SAM_WT04)	05:39		06:06 (SAM_WT08)	05:33		06:02 (SAM_WT11)
	17:29						20:12	191	16:35 (CBR_WT01)	21:03	116	16:22 (CBR_WT01)	21:47	14	06:20 (SAM_WT11)	22:05	31	06:33 (SAM_WT11)
30	08:27						07:28		08:20 (SAM_WT05)	06:22		06:54 (SAM_WT04)	05:38		06:06 (SAM_WT08)	05:33		06:03 (SAM_WT08)
	17:31						20:14	194	16:35 (CBR_WT01)	21:05	112	16:21 (CBR_WT01)	21:48	16	06:22 (SAM_WT11)	22:04	31	06:34 (SAM_WT11)
31	08:25						07:25		08:20 (SAM_WT05)				05:37		06:05 (SAM_WT08)			
	17:33						20:15	195	16:36 (CBR_WT01)				21:49	18	06:23 (SAM_WT11)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case					704			4615			4768			1071			896	
Sun reduction					0,30			0,38			0,46			0,46			0,44	
Oper. time red.					0,97			0,97			0,97			0,97			0,97	
Wind dir. red.					0,71			0,70			0,70			0,70			0,71	
Total reduction					0,21			0,26			0,32			0,31			0,31	
Total, real					146			1203			1506			335			274	

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

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

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

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	July			August			September			October			November	December
1	05:34		06:04 (SAM_WT08)	06:09		07:09 (SAM_WT04)	06:57		08:19 (SAM_WT05)	07:44		14:12 (CBR_WT01)	07:36	08:26
	22:04	30	06:34 (SAM_WT11)	21:33	45	16:15 (CBR_WT01)	20:33	182	16:32 (CBR_WT01)	19:25	117	16:09 (CBR_WT01)	17:21	16:42
2	05:34		06:04 (SAM_WT08)	06:10		07:07 (SAM_WT04)	06:59		08:18 (SAM_WT05)	07:46		14:13 (CBR_WT01)	07:38	08:27
	22:04	30	06:34 (SAM_WT11)	21:32	54	16:17 (CBR_WT01)	20:31	184	16:31 (CBR_WT01)	19:23	115	16:08 (CBR_WT01)	17:19	16:41
3	05:35		06:05 (SAM_WT08)	06:12		07:07 (SAM_WT04)	07:00		08:17 (SAM_WT05)	07:48		14:14 (CBR_WT01)	07:40	08:29
	22:03	29	06:34 (SAM_WT11)	21:30	61	16:19 (CBR_WT01)	20:29	187	16:32 (CBR_WT01)	19:21	112	16:06 (CBR_WT01)	17:17	16:41
4	05:36		06:06 (SAM_WT08)	06:13		07:05 (SAM_WT04)	07:02		08:16 (SAM_WT05)	07:49		14:15 (CBR_WT01)	07:42	08:30
	22:03	28	06:34 (SAM_WT11)	21:29	69	16:21 (CBR_WT01)	20:27	189	16:31 (CBR_WT01)	19:19	110	16:05 (CBR_WT01)	17:16	16:40
5	05:37		06:06 (SAM_WT08)	06:15		07:05 (SAM_WT04)	07:03		08:15 (SAM_WT05)	07:51		14:16 (CBR_WT01)	07:43	08:31
	22:03	27	06:33 (SAM_WT11)	21:27	75	16:22 (CBR_WT01)	20:24	191	16:31 (CBR_WT01)	19:16	107	16:03 (CBR_WT01)	17:14	16:40
6	05:37		06:07 (SAM_WT08)	06:16		07:04 (SAM_WT04)	07:05		08:14 (SAM_WT05)	07:52		14:17 (CBR_WT01)	07:45	08:33
	22:02	26	06:33 (SAM_WT11)	21:25	81	16:23 (CBR_WT01)	20:22	192	16:30 (CBR_WT01)	19:14	114	18:05 (KLZ_WT11)	17:12	16:39
7	05:38		06:08 (SAM_WT08)	06:18		07:04 (SAM_WT04)	07:06		08:14 (SAM_WT05)	07:54		14:18 (CBR_WT01)	07:47	08:34
	22:02	25	06:33 (SAM_WT11)	21:23	87	16:25 (CBR_WT01)	20:20	193	16:30 (CBR_WT01)	19:12	116	18:07 (KLZ_WT11)	17:11	16:39
8	05:39		06:09 (SAM_WT08)	06:20		07:03 (SAM_WT04)	07:08		08:13 (SAM_WT05)	07:56		14:20 (CBR_WT01)	07:49	08:35
	22:01	24	06:33 (SAM_WT11)	21:22	92	16:25 (CBR_WT01)	20:18	194	16:29 (CBR_WT01)	19:10	119	18:20 (KLZ_WT10)	17:09	16:39
9	05:40		06:10 (SAM_WT08)	06:21		07:02 (SAM_WT04)	07:10		08:13 (SAM_WT05)	07:57		14:20 (CBR_WT01)	07:50	08:36
	22:00	23	06:33 (SAM_WT11)	21:20	98	20:51 (EVE_WT02)	20:15	194	16:29 (CBR_WT01)	19:08	127	18:22 (KLZ_WT10)	17:07	16:38
10	05:41		06:11 (SAM_WT08)	06:23		07:02 (SAM_WT04)	07:11		08:12 (SAM_WT05)	07:59		14:22 (CBR_WT01)	07:52	08:37
	22:00	22	06:33 (SAM_WT11)	21:18	103	20:50 (EVE_WT02)	20:13	195	16:28 (CBR_WT01)	19:05	128	18:24 (KLZ_WT10)	17:06	16:38
11	05:42		06:12 (SAM_WT08)	06:24		07:01 (SAM_WT04)	07:13		08:12 (SAM_WT05)	08:01		14:24 (CBR_WT01)	07:54	08:38
	21:59	20	06:32 (SAM_WT11)	21:16	108	20:48 (EVE_WT02)	20:11	195	16:28 (CBR_WT01)	19:03	126	18:25 (KLZ_WT10)	17:04	16:38
12	05:43		06:13 (SAM_WT08)	06:26		07:02 (SAM_WT04)	07:14		08:11 (SAM_WT05)	08:02		14:25 (CBR_WT01)	07:56	08:39
	21:58	19	06:32 (SAM_WT11)	21:14	110	16:29 (CBR_WT01)	20:09	195	16:27 (CBR_WT01)	19:01	123	18:24 (KLZ_WT10)	17:03	16:38
13	05:44		06:14 (SAM_WT08)	06:27		07:01 (SAM_WT04)	07:16		08:12 (SAM_WT05)	08:04		14:27 (CBR_WT01)	07:57	08:40
	21:57	17	06:31 (SAM_WT11)	21:12	115	16:29 (CBR_WT01)	20:06	193	16:27 (CBR_WT01)	18:59	120	18:25 (KLZ_WT10)	17:01	16:38
14	05:45		06:15 (SAM_WT08)	06:29		07:02 (SAM_WT04)	07:17		08:11 (SAM_WT05)	08:06		14:29 (CBR_WT01)	07:59	08:41
	21:56	15	06:30 (SAM_WT11)	21:11	118	16:30 (CBR_WT01)	20:04	193	16:26 (CBR_WT01)	18:57	119	18:28 (KLZ_WT08)	17:00	16:38
15	05:46		06:16 (SAM_WT08)	06:30		07:01 (SAM_WT04)	07:19		08:11 (SAM_WT05)	08:07		14:32 (CBR_WT01)	08:01	08:42
	21:55	13	06:29 (SAM_WT11)	21:09	122	16:30 (CBR_WT01)	20:02	192	16:25 (CBR_WT01)	18:55	112	18:27 (KLZ_WT08)	16:58	16:38
16	05:48		06:17 (SAM_WT08)	06:32		07:02 (SAM_WT04)	07:21		08:11 (SAM_WT05)	08:09		14:33 (CBR_WT01)	08:02	08:43
	21:54	11	06:28 (SAM_WT11)	21:07	124	16:31 (CBR_WT01)	19:59	190	16:24 (CBR_WT01)	18:52	106	18:24 (KLZ_WT08)	16:57	16:38
17	05:49		06:18 (SAM_WT08)	06:33		07:02 (SAM_WT04)	07:22		08:12 (SAM_WT05)	08:11		14:36 (CBR_WT01)	08:04	08:44
	21:53	9	21:22 (EVE_WT01)	21:05	127	16:31 (CBR_WT01)	19:57	188	16:24 (CBR_WT01)	18:50	95	18:22 (KLZ_WT08)	16:56	16:38
18	05:50		06:19 (SAM_WT08)	06:35		07:03 (SAM_WT04)	07:24		08:11 (SAM_WT05)	08:12		14:40 (CBR_WT01)	08:06	08:44
	21:52	5	21:21 (EVE_WT01)	21:03	129	16:32 (CBR_WT01)	19:55	186	16:22 (CBR_WT01)	18:48	81	18:19 (KLZ_WT10)	16:55	16:39
19	05:51		06:20 (SWB_WT01_RP)	06:37		07:04 (SAM_WT04)	07:25		08:12 (SAM_WT05)	08:14		14:43 (CBR_WT01)	08:07	08:45
	21:51	3	21:20 (EVE_WT01)	21:01	130	16:32 (CBR_WT01)	19:53	184	16:22 (CBR_WT01)	18:46	64	18:06 (KLZ_WT11)	16:53	16:39
20	05:52		06:21 (SWB_WT01_RP)	06:38		07:05 (SAM_WT04)	07:27		08:13 (SAM_WT05)	08:16		14:47 (CBR_WT01)	08:09	08:46
	21:50	2	21:19 (EVE_WT01)	20:59	131	16:32 (CBR_WT01)	19:50	182	16:22 (CBR_WT01)	18:44	51	18:03 (KLZ_WT11)	16:52	16:39
21	05:54			06:40		07:06 (SAM_WT04)	07:28		08:14 (SAM_WT05)	08:17		14:54 (CBR_WT01)	08:11	08:46
	21:49			20:57	130	16:32 (CBR_WT01)	19:48	177	16:20 (CBR_WT01)	18:42	33	18:01 (KLZ_WT11)	16:51	16:40
22	05:55			06:41		07:09 (SAM_WT04)	07:30		08:15 (SAM_WT05)	08:19		17:54 (KLZ_WT11)	08:12	08:47
	21:48			20:55	129	16:33 (CBR_WT01)	19:46	175	16:20 (CBR_WT01)	18:40	3	17:57 (KLZ_WT11)	16:50	16:40
23	05:56			06:43		08:39 (SAM_WT05)	07:32		08:16 (SAM_WT05)	08:21			08:14	08:47
	21:46			20:52	128	16:32 (CBR_WT01)	19:43	170	16:18 (CBR_WT01)	18:38			16:49	16:41
24	05:58			06:44		08:35 (SAM_WT05)	07:33		08:17 (SAM_WT05)	08:23			08:15	08:48
	21:45			20:50	141	16:33 (CBR_WT01)	19:41	165	16:17 (CBR_WT01)	18:36			16:48	16:41
25	05:59			06:46		08:31 (SAM_WT05)	07:35		08:18 (SAM_WT05)	07:24			08:17	08:48
	21:44			20:48	149	16:32 (CBR_WT01)	19:39	160	16:16 (CBR_WT01)	17:34			16:47	16:42
26	06:00			06:48		08:29 (SAM_WT05)	07:36		08:21 (SAM_WT05)	07:26			08:19	08:49
	21:42			20:46	156	16:33 (CBR_WT01)	19:37	154	16:15 (CBR_WT01)	17:32			16:46	16:43
27	06:02			06:49		08:26 (SAM_WT05)	07:38		08:24 (SAM_WT05)	07:28			08:20	08:49
	21:41			20:44	162	16:32 (CBR_WT01)	19:34	146	16:14 (CBR_WT01)	17:30			16:45	16:43
28	06:03			06:51		08:25 (SAM_WT05)	07:40		08:27 (SAM_WT05)	07:29			08:22	08:49
	21:40			20:42	167	16:33 (CBR_WT01)	19:32	136	16:12 (CBR_WT01)	17:28			16:44	16:44
29	06:05		21:07 (KLZ_WT13)	06:52		08:23 (SAM_WT05)	07:41		14:11 (CBR_WT01)	07:31			08:23	08:49
	21:38	1	21:08 (KLZ_WT13)	20:40	171	16:32 (CBR_WT01)	19:30	121	16:12 (CBR_WT01)	17:26			16:43	16:45
30	06:06		07:14 (SAM_WT04)	06:54		08:22 (SAM_WT05)	07:43		14:11 (CBR_WT01)	07:33			08:24	08:49
	21:37	16	21:07 (KLZ_WT13)	20:38	175	16:33 (CBR_WT01)	19:28	119	16:10 (CBR_WT01)	17:25			16:43	16:46
31	06:08		07:11 (SAM_WT04)	06:55		08:20 (SAM_WT05)				07:35				08:49
	21:35	34	21:06 (KLZ_WT13)	20:35	179	16:32 (CBR_WT01)				17:23				16:47
Potential sun hours	498			451			380			333			269	248
Total, worst case		429			3666			5322			2198			
Sun reduction		0,45			0,47			0,43			0,36			
Oper. time red.		0,97			0,97			0,97			0,97			
Wind dir. red.		0,71			0,71			0,69			0,72			
Total reduction		0,31			0,32			0,29			0,25			
Total, real		132			1179			1561			559			

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

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

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	January			February			March			April			May			June		
1	08:50			08:24		09:18 (MVN_WT01)	07:32			07:23			06:20		06:44 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:48			17:35	7	09:25 (MVN_WT01)	18:25			20:17			21:06	19	07:03 (SAM_WT05)	21:50	23	20:40 (KLZ_WT10)
2	08:49			08:22			07:30			07:21			06:18		06:42 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:49			17:36			18:26			20:19			21:08	22	07:04 (SAM_WT05)	21:51	25	20:42 (KLZ_WT10)
3	08:49			08:21		17:07 (NES_WT01)	07:28			07:19			06:16		06:41 (SAM_WT05)	05:35		20:16 (KLZ_WT10)
	16:50			17:38	2	17:09 (NES_WT01)	18:28			20:20			21:09	24	07:05 (SAM_WT05)	21:53	27	20:43 (KLZ_WT10)
4	08:49			08:19		17:08 (NES_WT01)	07:26			07:17			06:15		06:40 (SAM_WT05)	05:34		20:15 (KLZ_WT10)
	16:51			17:40	3	17:11 (NES_WT01)	18:30			20:22			21:11	25	07:05 (SAM_WT05)	21:54	28	20:43 (KLZ_WT10)
5	08:49			08:18		17:08 (NES_WT01)	07:24			07:14			06:13		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT08)
	16:53			17:42	5	17:13 (NES_WT01)	18:32			20:24			21:13	26	07:05 (SAM_WT05)	21:55	30	20:44 (KLZ_WT10)
6	08:49			08:16		17:09 (NES_WT01)	07:21			07:12			06:11		06:38 (SAM_WT05)	05:33		06:01 (SAM_WT08)
	16:54			17:44	6	17:15 (NES_WT01)	18:33			20:25			21:14	27	07:05 (SAM_WT05)	21:55	32	20:45 (KLZ_WT10)
7	08:48			08:14		17:10 (NES_WT01)	07:19			07:10			06:09		06:39 (SAM_WT05)	05:32		06:01 (SAM_WT08)
	16:55			17:45	5	17:15 (NES_WT01)	18:35			20:27			21:16	27	07:06 (SAM_WT05)	21:56	34	20:46 (KLZ_WT10)
8	08:48			08:13			07:17			07:08		20:01 (KLZ_WT15)	06:08		06:38 (SAM_WT05)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37			20:28	2	20:03 (KLZ_WT15)	21:17	27	07:05 (SAM_WT05)	21:57	35	20:46 (KLZ_WT10)
9	08:47			08:11			07:15			07:05		20:01 (KLZ_WT15)	06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:58			17:49			18:39			20:30	4	20:05 (KLZ_WT15)	21:19	30	07:06 (SAM_WT05)	21:58	36	20:47 (KLZ_WT10)
10	08:47			08:09			07:13			07:03		20:02 (KLZ_WT15)	06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40			20:32	4	20:06 (KLZ_WT15)	21:20	32	07:05 (SAM_WT05)	21:59	37	20:48 (KLZ_WT10)
11	08:46			08:08			07:10			07:01		20:03 (KLZ_WT15)	06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	17:00			17:53			18:42			20:33	5	20:08 (KLZ_WT15)	21:22	34	07:05 (SAM_WT05)	22:00	39	20:49 (KLZ_WT10)
12	08:46			08:06			07:08			06:59		20:04 (KLZ_WT15)	06:01		06:26 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44			20:35	3	20:07 (KLZ_WT15)	21:24	36	07:05 (SAM_WT05)	22:00	39	20:48 (KLZ_WT10)
13	08:45		09:14 (MVN_WT01)	08:04			07:06			06:57			05:59		06:25 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:03	6	09:20 (MVN_WT01)	17:56			18:45			20:37			21:25	37	07:05 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
14	08:44		09:13 (MVN_WT01)	08:02			07:04			06:55			05:58		06:23 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:05	9	09:22 (MVN_WT01)	17:58			18:47			20:38			21:27	37	07:03 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
15	08:44		09:12 (MVN_WT01)	08:00			07:02			06:52			05:56		06:22 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:06	11	09:23 (MVN_WT01)	18:00			18:49			20:40			21:28	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
16	08:43		09:11 (MVN_WT01)	07:58			06:59		18:25 (KLZ_WT16)	06:50			05:55		06:21 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:08	13	09:24 (MVN_WT01)	18:02			18:50	1	18:26 (KLZ_WT16)	20:42			21:30	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
17	08:42		09:10 (MVN_WT01)	07:56			06:57		18:24 (KLZ_WT16)	06:48			05:53		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:09	15	09:25 (MVN_WT01)	18:03			18:52	3	18:27 (KLZ_WT16)	20:43			21:31	37	07:01 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
18	08:41		09:10 (MVN_WT01)	07:54			06:55		18:25 (KLZ_WT16)	06:46			05:52		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:11	16	09:26 (MVN_WT01)	18:05			18:54	4	18:29 (KLZ_WT16)	20:45			21:32	34	07:00 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
19	08:40		09:10 (MVN_WT01)	07:53			06:53		18:26 (KLZ_WT16)	06:44			05:51		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:12	17	09:27 (MVN_WT01)	18:07			18:55	5	18:31 (KLZ_WT16)	20:47			21:34	33	07:00 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
20	08:39		09:09 (MVN_WT01)	07:51			06:50			06:42			05:49		06:20 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:14	18	09:27 (MVN_WT01)	18:09			18:57			20:48			21:35	28	06:58 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
21	08:38		09:09 (MVN_WT01)	07:49			06:48			06:40			05:48		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:16	19	09:28 (MVN_WT01)	18:11			18:59			20:50			21:37	25	06:56 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
22	08:37		09:09 (MVN_WT01)	07:47			06:46		18:29 (KLZ_WT08)	06:38			05:47		06:20 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:17	20	09:29 (MVN_WT01)	18:12			19:00	5	18:34 (KLZ_WT08)	20:52			21:38	15	06:35 (SAM_WT04)	22:04	43	20:52 (KLZ_WT10)
23	08:36		09:10 (MVN_WT01)	07:45			06:44		18:26 (KLZ_WT08)	06:36			05:46		06:21 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:19	20	09:30 (MVN_WT01)	18:14			19:02	10	18:36 (KLZ_WT08)	20:53			21:39	13	06:34 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
24	08:35		09:09 (MVN_WT01)	07:43			06:41		18:24 (KLZ_WT08)	06:34			05:44		06:22 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:21	20	09:29 (MVN_WT01)	18:16			19:04	13	18:37 (KLZ_WT08)	20:55			21:41	11	06:33 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
25	08:33		09:10 (MVN_WT01)	07:40			06:39		18:23 (KLZ_WT08)	06:32			05:43		06:23 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:22	20	09:30 (MVN_WT01)	18:18			19:05	15	18:38 (KLZ_WT08)	20:56			21:42	9	06:32 (SAM_WT04)	22:05	43	20:53 (KLZ_WT10)
26	08:32		09:11 (MVN_WT01)	07:38			06:37		18:22 (KLZ_WT08)	06:30			05:42		06:25 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:24	19	09:30 (MVN_WT01)	18:19			19:07	16	18:38 (KLZ_WT08)	20:58			21:43	5	06:30 (SAM_WT04)	22:05	42	20:53 (KLZ_WT10)
27	08:31		09:11 (MVN_WT01)	07:36			06:34		18:22 (KLZ_WT08)	06:28			05:41		20:25 (KLZ_WT10)	05:32		06:01 (SAM_WT08)
	17:26	18	09:29 (MVN_WT01)	18:21			19:09	16	18:38 (KLZ_WT08)	21:00			21:45	6	20:31 (KLZ_WT10)	22:05	41	20:52 (KLZ_WT10)
28	08:30		09:12 (MVN_WT01)	07:34			06:32		18:22 (KLZ_WT08)	06:26		06:49 (SAM_WT05)	05:40		20:22 (KLZ_WT10)	05:32		06:02 (SAM_WT08)
	17:28	18	09:30 (MVN_WT01)	18:23			19:10	15	18:37 (KLZ_WT08)	21:01	9	06:58 (SAM_WT05)	21:46	12	20:34 (KLZ_WT10)	22:05	41	20:53 (KLZ_WT10)
29	08:28		09:12 (MVN_WT01)				07:30		19:22 (KLZ_WT08)	06:24		06:48 (SAM_WT05)	05:39		20:21 (KLZ_WT10)	05:33		06:02 (SAM_WT08)
	17:29	17	09:29 (MVN_WT01)				20:12	14	19:36 (KLZ_WT08)	21:03	13	07:01 (SAM_WT05)	21:47	16	20:37 (KLZ_WT10)	22:05	40	20:52 (KLZ_WT10)
30	08:27		09:14 (MVN_WT01)				07:28		19:23 (KLZ_WT08)	06:22		06:46 (SAM_WT05)	05:38		20:19 (KLZ_WT10)	05:33		06:03 (SAM_WT08)
	17:31	14	09:28 (MVN_WT01)				20:14	12	19:35 (KLZ_WT08)	21:05	16	07:02 (SAM_WT05)	21:48	19	20:38 (KLZ_WT10)	22:04	40	20:53 (KLZ_WT10)
31	08:25		09:15 (MVN_WT01)				07:25		19:25 (KLZ_WT08)				05:37		20:18 (KLZ_WT10)			
	17:33	12	09:27 (MVN_WT01)				20:15	9	19:34 (KLZ_WT08)				21:49	21	20:39 (KLZ_WT10)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		302			28			138			56			763			1138	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,54			0,66			0,63			0,64			0,67			0,58	
Total reduction		0,13			0,19			0,23			0,29			0,30			0,25	
Total, real		39			5			32			16			227			286	

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

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

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	July			August			September			October	November			December
1	05:34		06:04 (SAM_WT08)	06:09		06:37 (SAM_WT04)	06:57		20:01 (KLZ_WT15)	07:44	07:36			08:26
	22:04	39	20:53 (KLZ_WT10)	21:33	35	07:15 (SAM_WT05)	20:33	6	20:07 (KLZ_WT15)	19:25	17:21			16:42
2	05:34		06:04 (SAM_WT08)	06:11		06:39 (SAM_WT04)	06:59		20:00 (KLZ_WT15)	07:46	07:38			08:27
	22:04	38	20:52 (KLZ_WT10)	21:32	34	07:16 (SAM_WT05)	20:31	4	20:04 (KLZ_WT15)	19:23	17:19			16:41
3	05:35		06:05 (SAM_WT08)	06:12		06:40 (SAM_WT04)	07:00		19:59 (KLZ_WT15)	07:48	07:40			08:29
	22:03	36	20:52 (KLZ_WT10)	21:30	31	07:16 (SAM_WT05)	20:29	4	20:03 (KLZ_WT15)	19:21	17:17			16:41
4	05:36		06:06 (SAM_WT08)	06:14		06:41 (SAM_WT04)	07:02		19:58 (KLZ_WT15)	07:49	07:42		16:39 (NES_WT01)	08:30
	22:03	35	20:52 (KLZ_WT10)	21:29	29	07:15 (SAM_WT05)	20:27	2	20:00 (KLZ_WT15)	19:19	17:16	6	16:45 (NES_WT01)	16:40
5	05:37		06:06 (SAM_WT08)	06:15		06:49 (SAM_WT05)	07:03			07:51	07:43		16:38 (NES_WT01)	08:31
	22:03	34	20:51 (KLZ_WT10)	21:27	27	07:16 (SAM_WT05)	20:24			19:16	17:14	6	16:44 (NES_WT01)	16:40
6	05:37		06:07 (SAM_WT08)	06:17		06:48 (SAM_WT05)	07:05			07:52	07:45		16:38 (NES_WT01)	08:33
	22:02	33	20:51 (KLZ_WT10)	21:25	27	07:15 (SAM_WT05)	20:22			19:14	17:12	5	16:43 (NES_WT01)	16:39
7	05:38		06:08 (SAM_WT08)	06:18		06:49 (SAM_WT05)	07:06			07:54	07:47		16:38 (NES_WT01)	08:34
	22:02	31	20:51 (KLZ_WT10)	21:23	27	07:16 (SAM_WT05)	20:20			19:12	17:11	3	16:41 (NES_WT01)	16:39
8	05:39		20:22 (KLZ_WT10)	06:20		06:49 (SAM_WT05)	07:08			07:56	07:49		16:38 (NES_WT01)	08:35
	22:01	29	20:51 (KLZ_WT10)	21:22	26	07:15 (SAM_WT05)	20:18			19:10	17:09	1	16:39 (NES_WT01)	16:39
9	05:40		20:23 (KLZ_WT10)	06:21		06:50 (SAM_WT05)	07:10			07:57	07:50			08:36
	22:00	27	20:50 (KLZ_WT10)	21:20	25	07:15 (SAM_WT05)	20:15			19:08	17:07			16:39
10	05:41		20:24 (KLZ_WT10)	06:23		06:50 (SAM_WT05)	07:11			07:59	07:52		08:48 (MVN_WT01)	08:37
	22:00	26	20:50 (KLZ_WT10)	21:18	23	07:13 (SAM_WT05)	20:13			19:05	17:06	8	08:56 (MVN_WT01)	16:38
11	05:42		20:25 (KLZ_WT10)	06:24		06:51 (SAM_WT05)	07:13			08:01	07:54		08:46 (MVN_WT01)	08:38
	21:59	24	20:49 (KLZ_WT10)	21:16	21	07:12 (SAM_WT05)	20:11			19:03	17:04	12	08:58 (MVN_WT01)	16:38
12	05:43		20:26 (KLZ_WT10)	06:26		06:53 (SAM_WT05)	07:14		19:17 (KLZ_WT08)	08:02	07:56		08:45 (MVN_WT01)	08:39
	21:58	22	20:48 (KLZ_WT10)	21:14	19	07:12 (SAM_WT05)	20:09	8	19:25 (KLZ_WT08)	19:01	17:03	14	08:59 (MVN_WT01)	16:38
13	05:44		20:27 (KLZ_WT10)	06:27		06:54 (SAM_WT05)	07:16		19:15 (KLZ_WT08)	08:04	07:57		08:44 (MVN_WT01)	08:40
	21:57	20	20:47 (KLZ_WT10)	21:12	16	07:10 (SAM_WT05)	20:06	11	19:26 (KLZ_WT08)	18:59	17:01	17	09:01 (MVN_WT01)	16:38
14	05:45		20:28 (KLZ_WT10)	06:29		06:56 (SAM_WT05)	07:17		19:13 (KLZ_WT08)	08:06	07:59		08:44 (MVN_WT01)	08:41
	21:56	18	20:46 (KLZ_WT10)	21:11	12	07:08 (SAM_WT05)	20:04	14	19:27 (KLZ_WT08)	18:57	17:00	18	09:02 (MVN_WT01)	16:38
15	05:46		20:30 (KLZ_WT10)	06:30		06:57 (SAM_WT05)	07:19		19:12 (KLZ_WT08)	08:07	08:01		08:44 (MVN_WT01)	08:42
	21:55	15	20:45 (KLZ_WT10)	21:09	8	07:05 (SAM_WT05)	20:02	15	19:27 (KLZ_WT08)	18:55	16:59	18	09:02 (MVN_WT01)	16:38
16	05:48		20:32 (KLZ_WT10)	06:32			07:21		19:11 (KLZ_WT08)	08:09	08:02		08:44 (MVN_WT01)	08:43
	21:54	10	20:42 (KLZ_WT10)	21:07			19:59	16	19:27 (KLZ_WT08)	18:52	16:57	19	09:03 (MVN_WT01)	16:38
17	05:49			06:34			07:22		19:11 (KLZ_WT08)	08:11	08:04		08:44 (MVN_WT01)	08:44
	21:53			21:05			19:57	16	19:27 (KLZ_WT08)	18:50	16:56	20	09:04 (MVN_WT01)	16:38
18	05:50		06:34 (SAM_WT04)	06:35			07:24		19:10 (KLZ_WT08)	08:12	08:06		08:43 (MVN_WT01)	08:45
	21:52	7	06:41 (SAM_WT04)	21:03			19:55	15	19:25 (KLZ_WT08)	18:48	16:55	20	09:03 (MVN_WT01)	16:39
19	05:51		06:32 (SAM_WT04)	06:37			07:25		19:11 (KLZ_WT08)	08:14	08:07		08:44 (MVN_WT01)	08:45
	21:51	10	06:42 (SAM_WT04)	21:01			19:53	14	19:25 (KLZ_WT08)	18:46	16:53	20	09:04 (MVN_WT01)	16:39
20	05:52		06:32 (SAM_WT04)	06:38			07:27		19:12 (KLZ_WT08)	08:16	08:09		08:44 (MVN_WT01)	08:46
	21:50	12	06:44 (SAM_WT04)	20:59			19:50	11	19:23 (KLZ_WT08)	18:44	16:52	20	09:04 (MVN_WT01)	16:39
21	05:54		06:31 (SAM_WT04)	06:40			07:28		19:13 (KLZ_WT08)	08:17	08:11		08:45 (MVN_WT01)	08:46
	21:49	14	06:45 (SAM_WT04)	20:57			19:48	7	19:20 (KLZ_WT08)	18:42	16:51	19	09:04 (MVN_WT01)	16:40
22	05:55		06:30 (SAM_WT04)	06:41			07:30			08:19	08:12		08:45 (MVN_WT01)	08:47
	21:48	21	07:05 (SAM_WT05)	20:55			19:46			18:40	16:50	18	09:03 (MVN_WT01)	16:40
23	05:56		06:30 (SAM_WT04)	06:43			07:32			08:21	08:14		08:46 (MVN_WT01)	08:47
	21:46	27	07:07 (SAM_WT05)	20:52			19:44			18:38	16:49	17	09:03 (MVN_WT01)	16:41
24	05:58		06:29 (SAM_WT04)	06:44			07:33		19:10 (KLZ_WT16)	08:23	08:15		08:47 (MVN_WT01)	08:48
	21:45	31	07:08 (SAM_WT05)	20:50			19:41	5	19:15 (KLZ_WT16)	18:36	16:48	17	09:04 (MVN_WT01)	16:41
25	05:59		06:29 (SAM_WT04)	06:46			07:35		19:08 (KLZ_WT16)	07:24	08:17		08:48 (MVN_WT01)	08:48
	21:44	34	07:10 (SAM_WT05)	20:48			19:39	4	19:12 (KLZ_WT16)	17:34	16:47	16	09:04 (MVN_WT01)	16:42
26	06:00		06:29 (SAM_WT04)	06:48			07:36		19:07 (KLZ_WT16)	07:26	08:19		08:49 (MVN_WT01)	08:49
	21:42	36	07:11 (SAM_WT05)	20:46			19:37	3	19:10 (KLZ_WT16)	17:32	16:46	13	09:02 (MVN_WT01)	16:43
27	06:02		06:30 (SAM_WT04)	06:49			07:38		19:07 (KLZ_WT16)	07:28	08:20		08:51 (MVN_WT01)	08:49
	21:41	37	07:12 (SAM_WT05)	20:44			19:34	1	19:08 (KLZ_WT16)	17:30	16:45	11	09:02 (MVN_WT01)	16:43
28	06:03		06:32 (SAM_WT04)	06:51			07:40			07:29	08:22		08:53 (MVN_WT01)	08:49
	21:40	39	07:14 (SAM_WT05)	20:42			19:32			17:28	16:44	9	09:02 (MVN_WT01)	16:44
29	06:05		06:33 (SAM_WT04)	06:52			07:41			07:31	08:23		08:54 (MVN_WT01)	08:49
	21:38	38	07:14 (SAM_WT05)	20:40			19:30			17:26	16:43	6	09:00 (MVN_WT01)	16:45
30	06:06		06:34 (SAM_WT04)	06:54			07:43			07:33	08:25			08:49
	21:37	37	07:14 (SAM_WT05)	20:38			19:28			17:25	16:43			16:46
31	06:08		06:36 (SAM_WT04)	06:55		20:04 (KLZ_WT15)				07:35				08:49
	21:35	36	07:15 (SAM_WT05)	20:35	3	20:07 (KLZ_WT15)				17:23				16:47
Potential sun hours	498			451			380			333	269			248
Total, worst case		816			363			156				333		
Sun reduction		0,45			0,47			0,43				0,27		
Oper. time red.		0,97			0,97			0,97				0,97		
Wind dir. red.		0,62			0,67			0,62				0,55		
Total reduction		0,27			0,31			0,26				0,14		
Total, real		221			111			41				48		

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

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

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	January			February			March			April			May			June		
1	08:50		09:31 (RHR_WT02)	08:24		08:50 (MVZ_WT02)	07:32		07:55 (MXS_WT01)	07:23		19:43 (KLZ_WT16)	06:20		06:44 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:48	19	09:50 (RHR_WT02)	17:35	40	17:06 (NES_WT01)	18:25	22	08:17 (MXS_WT01)	20:17	8	19:51 (KLZ_WT16)	21:06	6	06:50 (SAM_WT05)	21:50	34	06:40 (CBR_WT01)
2	08:49		09:32 (RHR_WT02)	08:22		08:48 (MVZ_WT02)	07:30		07:53 (MXS_WT01)	07:21		19:43 (KLZ_WT16)	06:18		06:42 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:49	19	09:51 (RHR_WT02)	17:36	41	17:07 (NES_WT01)	18:26	25	08:18 (MXS_WT01)	20:19	10	19:53 (KLZ_WT16)	21:08	8	06:50 (SAM_WT05)	21:52	34	06:41 (CBR_WT01)
3	08:49		09:31 (RHR_WT02)	08:21		08:46 (MVZ_WT02)	07:28		07:53 (MXS_WT01)	07:19		19:43 (KLZ_WT16)	06:16		06:41 (SAM_WT05)	05:35		06:03 (SAM_WT11)
	16:50	19	09:50 (RHR_WT02)	17:38	41	17:08 (NES_WT01)	18:28	26	08:19 (MXS_WT01)	20:20	12	19:55 (KLZ_WT16)	21:09	10	06:51 (SAM_WT05)	21:53	34	06:40 (CBR_WT01)
4	08:49		09:33 (RHR_WT02)	08:19		08:46 (MVZ_WT02)	07:26		07:52 (MXS_WT01)	07:17		19:43 (KLZ_WT16)	06:15		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:51	18	09:51 (RHR_WT02)	17:40	37	17:08 (NES_WT01)	18:30	27	08:19 (MXS_WT01)	20:22	14	19:57 (KLZ_WT16)	21:11	13	20:43 (KLZ_WT15)	21:54	36	06:40 (CBR_WT01)
5	08:49		09:34 (RHR_WT02)	08:18		08:47 (MVZ_WT02)	07:24		07:51 (MXS_WT01)	07:14		19:43 (KLZ_WT16)	06:13		06:37 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:53	17	09:51 (RHR_WT02)	17:42	27	17:07 (NES_WT01)	18:32	27	08:18 (MXS_WT01)	20:24	15	19:58 (KLZ_WT16)	21:13	16	20:44 (KLZ_WT15)	21:55	36	06:41 (CBR_WT01)
6	08:49		09:34 (RHR_WT02)	08:16		08:49 (MVZ_WT02)	07:21		07:51 (MXS_WT01)	07:12		19:43 (KLZ_WT16)	06:11		06:36 (SAM_WT05)	05:33		06:01 (SAM_WT11)
	16:54	16	09:50 (RHR_WT02)	17:44	12	17:06 (NES_WT01)	18:33	27	08:18 (MXS_WT01)	20:25	13	19:56 (KLZ_WT16)	21:14	21	20:46 (KLZ_WT15)	21:55	37	06:41 (CBR_WT01)
7	08:48		09:35 (RHR_WT02)	08:14			07:19		07:51 (MXS_WT01)	07:10		19:45 (KLZ_WT16)	06:09		06:34 (SAM_WT05)	05:32		06:01 (SAM_WT11)
	16:55	16	09:51 (RHR_WT02)	17:45			18:35	27	08:18 (MXS_WT01)	20:27	9	19:54 (KLZ_WT16)	21:16	24	20:47 (KLZ_WT15)	21:56	37	06:41 (CBR_WT01)
8	08:48		09:36 (RHR_WT02)	08:13			07:17		07:51 (MXS_WT01)	07:08		19:48 (KLZ_WT16)	06:08		06:32 (SAM_WT04)	05:32		06:01 (SAM_WT11)
	16:56	14	09:50 (RHR_WT02)	17:47			18:37	27	08:18 (MXS_WT01)	20:29	2	19:50 (KLZ_WT16)	21:17	25	20:48 (KLZ_WT15)	21:57	37	06:42 (CBR_WT01)
9	08:47		09:38 (RHR_WT02)	08:11			07:15		07:52 (MXS_WT01)	07:05			06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:58	12	09:50 (RHR_WT02)	17:49			18:39	25	08:17 (MXS_WT01)	20:30			21:19	28	20:50 (KLZ_WT15)	21:58	36	06:41 (CBR_WT01)
10	08:47		09:39 (RHR_WT02)	08:09			07:13		07:51 (MXS_WT01)	07:03			06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:59	10	09:49 (RHR_WT02)	17:51			18:40	24	08:15 (MXS_WT01)	20:32			21:21	27	20:51 (KLZ_WT15)	21:59	38	06:42 (CBR_WT01)
11	08:46		09:41 (RHR_WT02)	08:08			07:10		07:52 (MXS_WT01)	07:01			06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	17:00	7	09:48 (RHR_WT02)	17:53			18:42	22	08:14 (MXS_WT01)	20:33			21:22	28	20:53 (KLZ_WT15)	22:00	37	06:42 (CBR_WT01)
12	08:46		09:14 (RHR_WT01)	08:06			07:08		07:54 (MXS_WT01)	06:59			06:01		06:26 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:02	3	09:17 (RHR_WT01)	17:54			18:44	19	08:13 (MXS_WT01)	20:35			21:24	22	20:54 (KLZ_WT15)	22:00	36	06:41 (CBR_WT01)
13	08:45		09:14 (RHR_WT01)	08:04			07:06		07:56 (MXS_WT01)	06:57			05:59		06:25 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:03	5	09:19 (RHR_WT01)	17:56			18:45	14	08:10 (MXS_WT01)	20:37			21:25	22	20:54 (KLZ_WT15)	22:01	37	06:42 (CBR_WT01)
14	08:44		09:13 (RHR_WT01)	08:02			07:04		07:58 (MXS_WT01)	06:55			05:58		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:05	8	09:21 (RHR_WT01)	17:58			18:47	8	08:06 (MXS_WT01)	20:38			21:27	20	20:52 (KLZ_WT15)	22:01	35	06:42 (CBR_WT01)
15	08:44		09:12 (RHR_WT01)	08:00			07:02			06:52			05:56		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:06	10	09:22 (RHR_WT01)	18:00			18:49			20:40			21:28	18	20:52 (KLZ_WT15)	22:02	35	06:42 (CBR_WT01)
16	08:43		09:11 (RHR_WT01)	07:58			06:59			06:50			05:55		06:25 (SAM_WT04)	05:30		06:02 (SAM_WT11)
	17:08	12	09:23 (RHR_WT01)	18:02			18:50			20:42			21:30	12	20:51 (KLZ_WT15)	22:03	35	06:43 (CBR_WT01)
17	08:42		09:10 (MVZ_WT01)	07:56		08:20 (MVN_WT01)	06:57			06:48			05:54			05:30		06:02 (SAM_WT11)
	17:09	14	09:24 (RHR_WT01)	18:03	1	08:21 (MVN_WT01)	18:52			20:43			21:31			22:03	34	06:43 (CBR_WT01)
18	08:41		09:09 (MVZ_WT01)	07:55		08:18 (MVN_WT01)	06:55			06:46			05:52		06:24 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:11	16	09:25 (RHR_WT01)	18:05	5	08:23 (MVN_WT01)	18:54			20:45			21:32	3	06:27 (CBR_WT01)	22:03	33	06:43 (CBR_WT01)
19	08:40		09:08 (MVZ_WT01)	07:53		08:16 (MVN_WT01)	06:53			06:44			05:51		06:21 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:12	18	09:26 (RHR_WT01)	18:07	9	08:25 (MVN_WT01)	18:55			20:47			21:34	10	06:31 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
20	08:39		09:06 (MVZ_WT01)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:14	20	09:26 (RHR_WT01)	18:09	11	08:25 (MVN_WT01)	18:57			20:48			21:35	14	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
21	08:38		09:05 (MVZ_WT01)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:17 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:16	22	09:27 (RHR_WT01)	18:11	14	08:26 (MVN_WT01)	18:59			20:50			21:37	16	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
22	08:37		09:04 (MVZ_WT01)	07:47		08:11 (MVN_WT01)	06:46			06:38			05:47		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:17	24	09:28 (RHR_WT01)	18:12	15	08:26 (MVN_WT01)	19:00			20:52			21:38	19	06:35 (CBR_WT01)	22:04	33	06:44 (CBR_WT01)
23	08:36		09:03 (MVZ_WT01)	07:45		08:11 (MVN_WT01)	06:44			06:36			05:46		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:19	25	09:28 (RHR_WT01)	18:14	15	08:26 (MVN_WT01)	19:02			20:53			21:39	20	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
24	08:35		09:01 (MVZ_WT01)	07:43		08:11 (MVN_WT01)	06:41			06:34			05:44		06:15 (CBR_WT01)	05:31		06:04 (SAM_WT11)
	17:21	27	09:28 (RHR_WT01)	18:16	14	08:25 (MVN_WT01)	19:04			20:55			21:41	21	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
25	08:34		09:02 (MVZ_WT01)	07:41		08:05 (MXS_WT01)	06:39			06:32			05:43		06:15 (CBR_WT01)	05:31		06:05 (SAM_WT11)
	17:22	27	09:29 (RHR_WT01)	18:18	15	08:24 (MVN_WT01)	19:05			20:56			21:42	22	06:37 (CBR_WT01)	22:05	33	06:45 (CBR_WT01)
26	08:32		09:03 (RHR_WT01)	07:38		08:02 (MXS_WT01)	06:37			06:30			05:42		06:09 (SAM_WT11)	05:31		06:04 (SAM_WT11)
	17:24	26	09:29 (RHR_WT01)	18:19	19	08:22 (MVN_WT01)	19:07			20:58			21:43	24	06:37 (CBR_WT01)	22:05	34	06:45 (CBR_WT01)
27	08:31		09:03 (RHR_WT01)	07:36		08:00 (MXS_WT01)	06:35			06:28			05:41		06:08 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:26	26	09:29 (RHR_WT01)	18:21	15	08:15 (MXS_WT01)	19:09			21:00			21:45	26	06:38 (CBR_WT01)	22:05	34	06:44 (CBR_WT01)
28	08:30		09:03 (RHR_WT01)	07:34		07:57 (MXS_WT01)	06:32			06:26			05:40		06:07 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:28	29	16:58 (NES_WT01)	18:23	19	08:16 (MXS_WT01)	19:10			21:01			21:46	28	06:38 (CBR_WT01)	22:05	35	06:45 (CBR_WT01)
29	08:28		08:54 (MVZ_WT02)				07:30			06:24			05:39		06:07 (SAM_WT11)	05:33		06:05 (SAM_WT11)
	17:29	31	16:59 (NES_WT01)				20:12			21:03			21:47	29	06:39 (CBR_WT01)	22:05	35	06:46 (CBR_WT01)
30	08:27		08:53 (MVZ_WT02)				07:28		19:46 (KLZ_WT16)	06:22		06:46 (SAM_WT05)	05:38		06:06 (SAM_WT11)	05:33		06:04 (SAM_WT11)
	17:31	34	17:02 (NES_WT01)				20:14	3	19:49 (KLZ_WT16)	21:05	3	06:49 (SAM_WT05)	21:48	31	06:40 (CBR_WT01)	22:04	37	06:46 (CBR_WT01)
31	08:25		08:51 (MVZ_WT02)				07:26		19:45 (KLZ_WT16)				05:37		06:05 (SAM_WT11)			
	17:33	37	17:03 (NES_WT01)				20:15	5	19:50 (KLZ_WT16)				21:49	32	06:40 (CBR_WT01)			
Potential sun hours	262			279			367			414			482			495		
Total, worst case		581			350			328			86			595			1047	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,55			0,58			0,55			0,61			0,67			0,70	
Total reduction		0,13			0,17			0,20			0,28			0,30			0,30	
Total, real		77			60			67			24			176			317	

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

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

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

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

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT11)	06:09		06:37 (SAM_WT04)	06:57			07:44		08:33 (MXS_WT01)	07:36			08:26		09:23 (RHR_WT02)
	22:04	37	06:46 (CBR_WT01)	21:34	26	21:04 (KLZ_WT15)	20:33			19:25	18	08:51 (MXS_WT01)	17:21			16:42	7	09:30 (RHR_WT02)
2	05:34		06:04 (SAM_WT11)	06:11		06:39 (SAM_WT04)	06:59			07:46		08:32 (MXS_WT01)	07:38			08:27		09:22 (RHR_WT02)
	22:04	38	06:46 (CBR_WT01)	21:32	27	21:03 (KLZ_WT15)	20:31			19:23	20	08:52 (MXS_WT01)	17:19			16:41	10	09:32 (RHR_WT02)
3	05:35		06:05 (SAM_WT11)	06:12		06:40 (SAM_WT04)	07:00			07:48		08:30 (MXS_WT01)	07:40			08:29		09:21 (RHR_WT02)
	22:03	37	06:46 (CBR_WT01)	21:30	28	21:01 (KLZ_WT15)	20:29			19:21	23	08:53 (MXS_WT01)	17:17			16:41	12	09:33 (RHR_WT02)
4	05:36		06:06 (SAM_WT11)	06:14		06:41 (SAM_WT04)	07:02		19:46 (KLZ_WT16)	07:49		08:29 (MXS_WT01)	07:42		16:30 (NES_WT01)	08:30		09:21 (RHR_WT02)
	22:03	37	06:47 (CBR_WT01)	21:29	25	20:59 (KLZ_WT15)	20:27	1	19:47 (KLZ_WT16)	19:19	25	08:54 (MXS_WT01)	17:16	3	16:33 (NES_WT01)	16:40	14	09:35 (RHR_WT02)
5	05:37		06:06 (SAM_WT11)	06:15		06:45 (SAM_WT05)	07:03		19:42 (KLZ_WT16)	07:51		08:28 (MXS_WT01)	07:43		08:18 (MVZ_WT02)	08:31		09:21 (RHR_WT02)
	22:03	36	06:46 (CBR_WT01)	21:27	24	20:58 (KLZ_WT15)	20:24	9	19:51 (KLZ_WT16)	19:16	26	08:54 (MXS_WT01)	17:14	14	16:36 (NES_WT01)	16:40	15	09:36 (RHR_WT02)
6	05:38		06:07 (SAM_WT11)	06:17		06:44 (SAM_WT05)	07:05		19:39 (KLZ_WT16)	07:53		08:27 (MXS_WT01)	07:45		08:17 (MVZ_WT02)	08:33		09:20 (RHR_WT02)
	22:02	37	06:47 (CBR_WT01)	21:25	23	20:56 (KLZ_WT15)	20:22	13	19:52 (KLZ_WT16)	19:14	27	08:54 (MXS_WT01)	17:12	29	16:37 (NES_WT01)	16:40	16	09:36 (RHR_WT02)
7	05:38		06:08 (SAM_WT11)	06:18		06:46 (SAM_WT05)	07:07		19:38 (KLZ_WT16)	07:54		08:27 (MXS_WT01)	07:47		08:16 (MVZ_WT02)	08:34		09:20 (RHR_WT02)
	22:02	36	06:47 (CBR_WT01)	21:23	19	20:55 (KLZ_WT15)	20:20	15	19:53 (KLZ_WT16)	19:12	27	08:54 (MXS_WT01)	17:11	37	16:38 (NES_WT01)	16:39	17	09:37 (RHR_WT02)
8	05:39		06:09 (SAM_WT11)	06:20		06:47 (SAM_WT05)	07:08		19:37 (KLZ_WT16)	07:56		08:27 (MXS_WT01)	07:49		08:17 (MVZ_WT02)	08:35		09:21 (RHR_WT02)
	22:01	35	06:47 (CBR_WT01)	21:22	16	20:53 (KLZ_WT15)	20:18	14	19:51 (KLZ_WT16)	19:10	27	08:54 (MXS_WT01)	17:09	42	16:39 (NES_WT01)	16:39	18	09:39 (RHR_WT02)
9	05:40		06:10 (SAM_WT11)	06:21		06:49 (SAM_WT05)	07:10		19:37 (KLZ_WT16)	07:57		08:26 (MXS_WT01)	07:50		08:19 (MVZ_WT02)	08:36		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:20	11	07:00 (SAM_WT05)	20:15	12	19:49 (KLZ_WT16)	19:08	27	08:53 (MXS_WT01)	17:07	42	16:38 (NES_WT01)	16:39	18	09:39 (RHR_WT02)
10	05:41		06:11 (SAM_WT11)	06:23		06:50 (SAM_WT05)	07:11		19:36 (KLZ_WT16)	07:59		08:26 (MXS_WT01)	07:52		08:21 (MVZ_WT02)	08:37		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:18	9	06:59 (SAM_WT05)	20:13	10	19:46 (KLZ_WT16)	19:05	27	08:53 (MXS_WT01)	17:06	39	16:36 (NES_WT01)	16:38	19	09:40 (RHR_WT02)
11	05:42		06:12 (SAM_WT11)	06:24		06:51 (SAM_WT05)	07:13		19:36 (KLZ_WT16)	08:01		08:27 (MXS_WT01)	07:54		08:22 (MVZ_WT02)	08:38		09:21 (RHR_WT02)
	21:59	33	06:48 (CBR_WT01)	21:16	7	06:58 (SAM_WT05)	20:11	9	19:45 (KLZ_WT16)	19:03	25	08:52 (MXS_WT01)	17:04	37	16:34 (NES_WT01)	16:38	19	09:40 (RHR_WT02)
12	05:43		06:13 (SAM_WT11)	06:26		06:53 (SAM_WT05)	07:14		19:36 (KLZ_WT16)	08:02		08:27 (MXS_WT01)	07:56		08:24 (MVZ_WT02)	08:39		09:21 (RHR_WT02)
	21:58	32	06:48 (CBR_WT01)	21:14	5	06:58 (SAM_WT05)	20:09	6	19:42 (KLZ_WT16)	19:01	24	08:51 (MXS_WT01)	17:03	34	16:32 (NES_WT01)	16:38	20	09:41 (RHR_WT02)
13	05:44		06:14 (SAM_WT11)	06:27		06:54 (SAM_WT05)	07:16		19:37 (KLZ_WT16)	08:04		08:29 (MXS_WT01)	07:57		08:35 (RHR_WT01)	08:40		09:21 (RHR_WT02)
	21:57	32	06:48 (CBR_WT01)	21:12	2	06:56 (SAM_WT05)	20:06	3	19:40 (KLZ_WT16)	18:59	21	08:50 (MXS_WT01)	17:01	30	16:31 (NES_WT01)	16:38	20	09:41 (RHR_WT02)
14	05:45		06:15 (SAM_WT11)	06:29			07:17			08:06		08:31 (MXS_WT01)	07:59		08:35 (RHR_WT01)	08:41		09:22 (RHR_WT02)
	21:56	31	06:48 (CBR_WT01)	21:11			20:04			18:57	18	08:49 (MXS_WT01)	17:00	27	16:29 (NES_WT01)	16:38	20	09:42 (RHR_WT02)
15	05:46		06:16 (SAM_WT11)	06:30			07:19			08:07		08:33 (MXS_WT01)	08:01		08:36 (RHR_WT01)	08:42		09:22 (RHR_WT02)
	21:55	29	06:48 (CBR_WT01)	21:09			20:02			18:55	20	08:53 (MVN_WT01)	16:59	26	09:02 (RHR_WT01)	16:38	21	09:43 (RHR_WT02)
16	05:48		06:17 (SAM_WT11)	06:32			07:21			08:09		08:34 (MXS_WT01)	08:02		08:36 (RHR_WT01)	08:43		09:23 (RHR_WT02)
	21:54	27	06:48 (CBR_WT01)	21:07			20:00			18:53	19	08:54 (MVN_WT01)	16:57	26	09:02 (RHR_WT01)	16:38	21	09:44 (RHR_WT02)
17	05:49		06:18 (SAM_WT11)	06:34			07:22			08:11		08:43 (MVN_WT01)	08:04		08:36 (MVZ_WT01)	08:44		09:23 (RHR_WT02)
	21:53	25	06:47 (CBR_WT01)	21:05			19:57			18:50	13	08:56 (MVN_WT01)	16:56	27	09:03 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
18	05:50		06:24 (CBR_WT01)	06:35			07:24			08:12		08:42 (MVN_WT01)	08:06		08:35 (MVZ_WT01)	08:45		09:23 (RHR_WT02)
	21:52	23	06:47 (CBR_WT01)	21:03			19:55			18:48	15	08:57 (MVN_WT01)	16:55	27	09:02 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
19	05:51		06:24 (CBR_WT01)	06:37			07:25			08:14		08:42 (MVN_WT01)	08:07		08:37 (MVZ_WT01)	08:45		09:24 (RHR_WT02)
	21:51	22	06:46 (CBR_WT01)	21:01			19:53			18:46	15	08:57 (MVN_WT01)	16:53	25	09:02 (RHR_WT01)	16:39	21	09:45 (RHR_WT02)
20	05:53		06:26 (CBR_WT01)	06:38			07:27			08:16		08:42 (MVN_WT01)	08:09		08:39 (MVZ_WT01)	08:46		09:25 (RHR_WT02)
	21:50	20	06:46 (CBR_WT01)	20:59			19:50			18:44	15	08:57 (MVN_WT01)	16:52	24	09:03 (RHR_WT01)	16:39	21	09:46 (RHR_WT02)
21	05:54		06:27 (CBR_WT01)	06:40			07:28			08:17		08:43 (MVN_WT01)	08:11		08:41 (MVZ_WT01)	08:46		09:24 (RHR_WT02)
	21:49	19	06:46 (CBR_WT01)	20:57			19:48			18:42	13	08:56 (MVN_WT01)	16:51	22	09:03 (RHR_WT01)	16:40	22	09:46 (RHR_WT02)
22	05:55		06:27 (CBR_WT01)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (MVZ_WT01)	08:47		09:25 (RHR_WT02)
	21:48	18	06:45 (CBR_WT01)	20:55			19:46			18:40	11	08:56 (MVN_WT01)	16:50	20	09:03 (RHR_WT01)	16:40	22	09:47 (RHR_WT02)
23	05:56		06:28 (CBR_WT01)	06:43			07:32			08:21		08:47 (MVN_WT01)	08:14		08:44 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:46	15	06:43 (CBR_WT01)	20:52			19:44			18:38	8	08:55 (MVN_WT01)	16:49	18	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
24	05:58		06:30 (CBR_WT01)	06:45			07:33			08:23		08:49 (MVN_WT01)	08:15		08:46 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:45	13	06:43 (CBR_WT01)	20:50			19:41			18:36	4	08:53 (MVN_WT01)	16:48	16	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
25	05:59		06:32 (CBR_WT01)	06:46			07:35			07:24			08:17		08:48 (MVZ_WT01)	08:48		09:27 (RHR_WT02)
	21:44	8	06:40 (CBR_WT01)	20:48			19:39			17:34			16:47	14	09:02 (RHR_WT01)	16:42	21	09:48 (RHR_WT02)
26	06:01			06:48			07:36			07:26			08:19		08:49 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:42			20:46			19:37			17:32			16:46	12	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
27	06:02		20:55 (KLZ_WT15)	06:49			07:38			07:28			08:20		08:51 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:41	4	20:59 (KLZ_WT15)	20:44			19:34			17:30			16:45	10	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
28	06:03		06:34 (SAM_WT04)	06:51			07:40			07:30			08:22		08:53 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:40	15	21:02 (KLZ_WT15)	20:42			19:32			17:28			16:44	8	09:01 (RHR_WT01)	16:44	21	09:49 (RHR_WT02)
29	06:05		06:33 (SAM_WT04)	06:52			07:41		08:41 (MXS_WT01)	07:31			08:23		08:54 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:38	20	21:03 (KLZ_WT15)	20:40			19:30	4	08:45 (MXS_WT01)	17:26			16:44	6	09:00 (RHR_WT01)	16:45	21	09:49 (RHR_WT02)
30	06:06		06:34 (SAM_WT04)	06:54			07:43		08:35 (MXS_WT01)	07:33			08:25		08:56 (RHR_WT01)	08:49		09:29 (RHR_WT02)
	21:37	20	21:03 (KLZ_WT15)	20:38			19:28	13	08:48 (MXS_WT01)	17:25			16:43	3	08:59 (RHR_WT01)	16:46	20	09:49 (RHR_WT02)
31	06:08		06:36 (SAM_WT04)	06:56						07:35						08:49		09:30 (RHR_WT02)
	21:35	22	21:04 (KLZ_WT15)	20:35						17:23						16:47	20	09:50 (RHR_WT02)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		791			222			109			468			618			582	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,69			0,64			0,60			0,55			0,57			0,54	
Total reduction		0,30			0,29			0,25			0,20			0,15			0,12	
Total, real		239			65			28			91			91			69	

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

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

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

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

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

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:23 (RHR_WT03)	08:24		08:50 (MVZ_WT01)	07:32		08:04 (MVN_WT01)	07:23		19:36 (KLZ_WT16)	06:20		06:44 (CBR_WT01)	05:36		06:16 (KLZ_WT10)
	16:48	42	10:22 (ALB_WT01)	17:35	6	08:56 (MVZ_WT01)	18:25	4	08:08 (MVN_WT01)	20:17	16	19:52 (KLZ_WT16)	21:06	14	06:58 (CBR_WT01)	21:50	40	21:19 (KLZ_WT15)
2	08:49		09:23 (RHR_WT03)	08:23		08:48 (MVZ_WT01)	07:30			07:21		19:34 (KLZ_WT16)	06:18		06:42 (CBR_WT01)	05:36		06:17 (KLZ_WT10)
	16:49	41	10:22 (ALB_WT01)	17:36	7	08:55 (MVZ_WT01)	18:27			20:19	19	19:53 (KLZ_WT16)	21:08	16	06:58 (CBR_WT01)	21:52	40	21:20 (KLZ_WT15)
3	08:49		09:23 (RHR_WT03)	08:21		08:46 (MVZ_WT01)	07:28		07:51 (MXS_WT01)	07:19		19:33 (KLZ_WT16)	06:16		06:41 (CBR_WT01)	05:35		06:16 (KLZ_WT10)
	16:50	40	10:21 (ALB_WT01)	17:38	9	08:55 (MVZ_WT01)	18:28	1	07:52 (MXS_WT01)	20:20	22	19:55 (KLZ_WT16)	21:09	19	07:00 (CBR_WT01)	21:53	41	21:21 (KLZ_WT15)
4	08:49		09:24 (RHR_WT03)	08:19		08:45 (RHR_WT01)	07:26		07:49 (MXS_WT01)	07:17		19:33 (KLZ_WT16)	06:15		06:39 (SAM_WT04)	05:34		06:16 (KLZ_WT10)
	16:51	41	16:18 (NES_WT01)	17:40	10	08:55 (MVZ_WT01)	18:30	5	07:54 (MXS_WT01)	20:22	23	19:56 (KLZ_WT16)	21:11	21	07:00 (CBR_WT01)	21:54	42	21:21 (KLZ_WT15)
5	08:49		09:25 (RHR_WT03)	08:18		08:43 (RHR_WT01)	07:24		07:46 (MXS_WT01)	07:14		19:33 (KLZ_WT16)	06:13		06:40 (CBR_WT01)	05:34		06:17 (KLZ_WT10)
	16:53	38	16:19 (NES_WT01)	17:42	12	08:55 (RHR_WT01)	18:32	8	07:54 (MXS_WT01)	20:24	23	19:56 (KLZ_WT16)	21:13	19	06:59 (CBR_WT01)	21:55	41	21:22 (KLZ_WT15)
6	08:49		09:25 (RHR_WT03)	08:16		08:41 (RHR_WT01)	07:21		07:44 (MXS_WT01)	07:12		19:32 (KLZ_WT16)	06:11		06:36 (KLZ_WT11)	05:33		06:17 (KLZ_WT10)
	16:54	38	16:20 (NES_WT01)	17:44	15	08:56 (RHR_WT01)	18:33	11	07:55 (MXS_WT01)	20:25	23	19:55 (KLZ_WT16)	21:14	23	07:00 (CBR_WT01)	21:56	40	21:21 (KLZ_WT15)
7	08:48		09:26 (RHR_WT03)	08:15		08:39 (RHR_WT01)	07:19		07:42 (MXS_WT01)	07:10		19:32 (KLZ_WT16)	06:09		06:34 (KLZ_WT11)	05:32		06:01 (SAM_WT07)
	16:55	34	16:22 (NES_WT01)	17:45	17	08:56 (RHR_WT01)	18:35	13	07:55 (MXS_WT01)	20:27	23	19:55 (KLZ_WT16)	21:16	26	07:00 (CBR_WT01)	21:56	41	21:22 (KLZ_WT15)
8	08:48		09:26 (RHR_WT03)	08:13		08:38 (RHR_WT01)	07:17		07:40 (MXS_WT01)	07:08		19:32 (KLZ_WT16)	06:08		06:32 (KLZ_WT11)	05:32		06:01 (SAM_WT07)
	16:56	33	16:23 (NES_WT01)	17:47	18	08:56 (RHR_WT01)	18:37	16	07:56 (MXS_WT01)	20:29	22	19:54 (KLZ_WT16)	21:17	27	06:59 (CBR_WT01)	21:57	42	21:23 (KLZ_WT15)
9	08:47		09:27 (RHR_WT03)	08:11		08:36 (RHR_WT01)	07:15		07:38 (MXS_WT01)	07:06		19:33 (KLZ_WT16)	06:06		06:31 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	16:58	35	16:25 (NES_WT01)	17:49	20	08:56 (RHR_WT01)	18:39	17	07:55 (MXS_WT01)	20:30	20	19:53 (KLZ_WT16)	21:19	28	06:59 (CBR_WT01)	21:58	43	21:22 (KLZ_WT15)
10	08:47		09:27 (RHR_WT03)	08:09		08:34 (MVZ_WT02)	07:13		07:37 (MXS_WT01)	07:03		19:34 (KLZ_WT16)	06:04		06:29 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	16:59	35	16:26 (NES_WT01)	17:51	21	08:55 (RHR_WT01)	18:40	17	07:54 (MXS_WT01)	20:32	18	19:52 (KLZ_WT16)	21:21	29	06:58 (CBR_WT01)	21:59	43	21:23 (KLZ_WT15)
11	08:46		09:15 (RHR_WT02)	08:08		08:32 (MVZ_WT02)	07:10		07:38 (MXS_WT01)	07:01		19:35 (KLZ_WT16)	06:03		06:29 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	17:00	37	16:27 (NES_WT01)	17:53	23	08:55 (RHR_WT01)	18:42	15	07:53 (MXS_WT01)	20:33	16	19:51 (KLZ_WT16)	21:22	29	06:58 (CBR_WT01)	22:00	42	21:23 (KLZ_WT15)
12	08:46		09:14 (RHR_WT02)	08:06		08:38 (RHR_WT01)	07:08		07:39 (MXS_WT01)	06:59		19:36 (KLZ_WT16)	06:01		06:26 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:02	41	16:29 (NES_WT01)	17:55	16	08:54 (RHR_WT01)	18:44	13	07:52 (MXS_WT01)	20:35	12	19:48 (KLZ_WT16)	21:24	29	06:56 (CBR_WT01)	22:00	43	21:22 (KLZ_WT15)
13	08:45		09:14 (RHR_WT02)	08:04		08:39 (RHR_WT01)	07:06		07:40 (MXS_WT01)	06:57		19:40 (KLZ_WT16)	06:00		06:25 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:03	42	16:31 (NES_WT01)	17:56	13	08:52 (RHR_WT01)	18:45	10	07:50 (MXS_WT01)	20:37	4	19:44 (KLZ_WT16)	21:25	29	06:56 (CBR_WT01)	22:01	44	21:23 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02		08:42 (RHR_WT01)	07:04			06:55			05:58		06:23 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:05	44	16:32 (NES_WT01)	17:58	8	08:50 (RHR_WT01)	18:47			20:38			21:27	25	06:53 (CBR_WT01)	22:01	43	21:23 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00			07:02			06:52			05:56		06:22 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:06	45	16:32 (NES_WT01)	18:00			18:49			20:40			21:28	20	06:51 (CBR_WT01)	22:02	42	21:23 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58			06:59			06:50			05:55		06:21 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:08	44	16:32 (NES_WT01)	18:02			18:50			20:42			21:30	15	06:40 (KLZ_WT11)	22:03	44	21:24 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:56			06:57			06:48			05:54		06:19 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:09	44	16:33 (NES_WT01)	18:04			18:52			20:43			21:31	15	06:39 (KLZ_WT11)	22:03	42	21:24 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55			06:55			06:46			05:52		06:18 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:11	42	16:33 (NES_WT01)	18:05			18:54			20:45			21:33	11	06:37 (KLZ_WT11)	22:03	42	21:24 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53			06:53			06:44			05:51		06:17 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:12	41	16:33 (NES_WT01)	18:07			18:55			20:47			21:34	12	06:29 (KLZ_WT10)	22:04	42	21:24 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51			06:50			06:42			05:49		06:20 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:14	36	16:33 (NES_WT01)	18:09			18:57			20:48			21:35	10	06:30 (KLZ_WT10)	22:04	43	21:24 (KLZ_WT15)
21	08:38		09:05 (RHR_WT02)	07:49			06:48			06:40		07:03 (SAM_WT05)	05:48		06:19 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:16	30	16:32 (NES_WT01)	18:11			18:59			20:50	2	07:05 (SAM_WT05)	21:37	13	06:32 (KLZ_WT10)	22:04	43	21:24 (KLZ_WT15)
22	08:37		09:05 (RHR_WT02)	07:47		08:10 (MVN_WT01)	06:46			06:38		07:01 (SAM_WT05)	05:47		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:17	28	16:32 (NES_WT01)	18:12	2	08:12 (MVN_WT01)	19:00			20:52	4	07:05 (SAM_WT05)	21:38	18	21:07 (KLZ_WT15)	22:05	43	21:25 (KLZ_WT15)
23	08:36		09:06 (RHR_WT02)	07:45		08:08 (MVN_WT01)	06:44			06:36		06:59 (SAM_WT05)	05:46		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:19	27	16:32 (NES_WT01)	18:14	5	08:13 (MVN_WT01)	19:02			20:53	6	07:05 (SAM_WT05)	21:39	22	21:09 (KLZ_WT15)	22:05	42	21:25 (KLZ_WT15)
24	08:35		09:06 (RHR_WT02)	07:43		08:06 (MVN_WT01)	06:41			06:34		06:57 (SAM_WT05)	05:44		06:16 (KLZ_WT10)	05:31		06:00 (SAM_WT07)
	17:21	21	16:30 (NES_WT01)	18:16	7	08:13 (MVN_WT01)	19:04			20:55	8	07:05 (SAM_WT05)	21:41	26	21:10 (KLZ_WT15)	22:05	42	21:25 (KLZ_WT15)
25	08:34		09:08 (RHR_WT02)	07:41		08:04 (MVN_WT01)	06:39			06:32		06:55 (SAM_WT05)	05:43		06:16 (KLZ_WT10)	05:31		06:01 (SAM_WT07)
	17:22	12	09:20 (RHR_WT02)	18:18	10	08:14 (MVN_WT01)	19:05			20:56	9	07:04 (SAM_WT05)	21:42	28	21:11 (KLZ_WT15)	22:05	42	21:26 (KLZ_WT15)
26	08:32		09:09 (RHR_WT02)	07:38		08:02 (MVN_WT01)	06:37			06:30		06:53 (SAM_WT05)	05:42		06:16 (KLZ_WT10)	05:31		06:01 (SAM_WT07)
	17:24	10	09:19 (RHR_WT02)	18:20	11	08:13 (MVN_WT01)	19:07			20:58	10	07:03 (SAM_WT05)	21:43	30	21:12 (KLZ_WT15)	22:05	43	21:26 (KLZ_WT15)
27	08:31		09:11 (RHR_WT02)	07:36		08:02 (MVN_WT01)	06:35			06:28		06:52 (SAM_WT05)	05:41		06:15 (KLZ_WT10)	05:32		06:02 (SAM_WT07)
	17:26	6	09:17 (RHR_WT02)	18:21	11	08:13 (MVN_WT01)	19:09			21:00	10	07:02 (SAM_WT05)	21:45	33	21:13 (KLZ_WT15)	22:05	43	21:26 (KLZ_WT15)
28	08:30			07:34		08:02 (MVN_WT01)	06:32			06:26		06:53 (SAM_WT05)	05:40		06:15 (KLZ_WT10)	05:32		06:02 (SAM_WT07)
	17:28			18:23	9	08:11 (MVN_WT01)	19:10			21:01	7	07:00 (SAM_WT05)	21:46	34	21:14 (KLZ_WT15)	22:05	42	21:26 (KLZ_WT15)
29	08:28						07:30		19:42 (KLZ_WT16)	06:24		06:48 (CBR_WT01)	05:39		06:16 (KLZ_WT10)	05:33		06:03 (SAM_WT07)
	17:29						20:12	5	19:47 (KLZ_WT16)	21:03	8	06:56 (CBR_WT01)	21:47	36	21:16 (KLZ_WT15)	22:05	43	21:27 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		19:39 (KLZ_WT16)	06:22		06:46 (CBR_WT01)	05:38		06:16 (KLZ_WT10)	05:33		06:03 (SAM_WT07)
	17:31	2	08:55 (MVZ_WT01)				20:14	10	19:49 (KLZ_WT16)	21:05	11	06:57 (CBR_WT01)	21:48	37	21:17 (KLZ_WT15)	22:04	43	21:27 (KLZ_WT15)
31	08:25		08:51 (MVZ_WT01)				07:26		19:37 (KLZ_WT16)				05:37		06:16 (KLZ_WT10)			
	17:33	4	08:55 (MVZ_WT01)				20:15	13	19:50 (KLZ_WT16)				21:49	38	21:18 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		933			250			158			316			732			1266	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,58			0,55			0,57			0,62			0,66			0,62	
Total reduction		0,14			0,16			0,21			0,28			0,30			0,27	
Total, real		132			41			33			89			216			341	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT07)	06:09		06:38 (KLZ_WT11)	06:57		19:34 (KLZ_WT16)	07:44		08:18 (MXS_WT01)	07:37		08:04 (MVZ_WT02)	08:26		08:57 (RHR_WT02)
	22:04	43	21:27 (KLZ_WT15)	21:34	29	07:07 (CBR_WT01)	20:33	16	19:50 (KLZ_WT16)	19:25	12	08:30 (MXS_WT01)	17:21	21	08:25 (RHR_WT01)	16:42	36	16:09 (NES_WT01)
2	05:35		06:04 (SAM_WT07)	06:11		06:39 (KLZ_WT11)	06:59		19:32 (KLZ_WT16)	07:46		08:17 (MXS_WT01)	07:38		08:06 (RHR_WT01)	08:27		09:10 (RHR_WT03)
	22:04	43	21:27 (KLZ_WT15)	21:32	29	07:08 (CBR_WT01)	20:31	18	19:50 (KLZ_WT16)	19:23	15	08:32 (MXS_WT01)	17:19	20	08:26 (RHR_WT01)	16:42	35	16:09 (NES_WT01)
3	05:35		06:05 (SAM_WT07)	06:12		06:40 (KLZ_WT11)	07:00		19:31 (KLZ_WT16)	07:48		08:15 (MXS_WT01)	07:40		08:07 (RHR_WT01)	08:29		09:10 (RHR_WT03)
	22:03	41	21:27 (KLZ_WT15)	21:30	29	07:09 (CBR_WT01)	20:29	21	19:52 (KLZ_WT16)	19:21	17	08:32 (MXS_WT01)	17:17	18	08:25 (RHR_WT01)	16:41	35	16:08 (NES_WT01)
4	05:36		06:06 (SAM_WT07)	06:14		06:41 (KLZ_WT11)	07:02		19:29 (KLZ_WT16)	07:49		08:15 (MXS_WT01)	07:42		08:09 (RHR_WT01)	08:30		09:11 (RHR_WT03)
	22:03	42	21:28 (KLZ_WT15)	21:29	28	07:09 (CBR_WT01)	20:27	22	19:51 (KLZ_WT16)	19:19	17	08:32 (MXS_WT01)	17:16	16	08:25 (RHR_WT01)	16:40	33	16:08 (NES_WT01)
5	05:37		06:07 (SAM_WT07)	06:15		06:43 (KLZ_WT11)	07:03		19:29 (KLZ_WT16)	07:51		08:16 (MXS_WT01)	07:43		08:11 (RHR_WT01)	08:31		09:11 (RHR_WT03)
	22:03	41	21:28 (KLZ_WT15)	21:27	26	07:09 (CBR_WT01)	20:24	23	19:52 (KLZ_WT16)	19:16	17	08:33 (MXS_WT01)	17:14	14	08:25 (RHR_WT01)	16:40	32	16:07 (NES_WT01)
6	05:38		06:23 (KLZ_WT10)	06:17		06:44 (KLZ_WT11)	07:05		19:28 (KLZ_WT16)	07:53		08:17 (MXS_WT01)	07:45		08:13 (RHR_WT01)	08:33		09:11 (RHR_WT03)
	22:02	41	21:28 (KLZ_WT15)	21:25	25	07:09 (CBR_WT01)	20:22	23	19:51 (KLZ_WT16)	19:14	14	08:31 (MXS_WT01)	17:12	12	08:25 (RHR_WT01)	16:40	37	16:06 (NES_WT01)
7	05:38		06:24 (KLZ_WT10)	06:18		06:46 (KLZ_WT11)	07:07		19:28 (KLZ_WT16)	07:54		08:19 (MXS_WT01)	07:47		08:15 (MVZ_WT01)	08:34		09:12 (RHR_WT03)
	22:02	41	21:28 (KLZ_WT15)	21:24	21	07:10 (CBR_WT01)	20:20	23	19:51 (KLZ_WT16)	19:12	12	08:31 (MXS_WT01)	17:11	10	08:25 (MVZ_WT01)	16:39	38	16:06 (NES_WT01)
8	05:39		06:24 (KLZ_WT10)	06:20		06:49 (CBR_WT01)	07:08		19:27 (KLZ_WT16)	07:56		08:21 (MXS_WT01)	07:49		08:17 (MVZ_WT01)	08:35		09:12 (RHR_WT03)
	22:01	40	21:28 (KLZ_WT15)	21:22	20	07:09 (CBR_WT01)	20:18	23	19:50 (KLZ_WT16)	19:10	10	08:31 (MXS_WT01)	17:09	9	08:26 (MVZ_WT01)	16:39	40	16:06 (NES_WT01)
9	05:40		06:24 (KLZ_WT10)	06:21		06:49 (SAM_WT04)	07:10		19:28 (KLZ_WT16)	07:57		08:22 (MXS_WT01)	07:50		08:19 (MVZ_WT01)	08:36		09:12 (RHR_WT03)
	22:00	41	21:28 (KLZ_WT15)	21:20	20	07:09 (CBR_WT01)	20:15	21	19:49 (KLZ_WT16)	19:08	7	08:29 (MXS_WT01)	17:07	7	08:26 (MVZ_WT01)	16:39	40	10:10 (ALB_WT01)
10	05:41		06:24 (KLZ_WT10)	06:23		06:50 (CBR_WT01)	07:11		19:27 (KLZ_WT16)	07:59		08:24 (MXS_WT01)	07:52		08:21 (MVZ_WT01)	08:37		09:13 (RHR_WT03)
	22:00	41	21:28 (KLZ_WT15)	21:18	18	07:08 (CBR_WT01)	20:13	19	19:46 (KLZ_WT16)	19:05	3	08:27 (MXS_WT01)	17:06	6	08:27 (MVZ_WT01)	16:38	40	10:11 (ALB_WT01)
11	05:42		06:24 (KLZ_WT10)	06:24		06:51 (CBR_WT01)	07:13		19:28 (KLZ_WT16)	08:01			07:54		08:23 (MVZ_WT01)	08:38		09:13 (RHR_WT03)
	21:59	39	21:27 (KLZ_WT15)	21:16	16	07:07 (CBR_WT01)	20:11	17	19:45 (KLZ_WT16)	19:03			17:04	4	08:27 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
12	05:43		06:24 (KLZ_WT10)	06:26		06:53 (CBR_WT01)	07:14		19:28 (KLZ_WT16)	08:02			07:56		08:24 (MVZ_WT01)	08:39		09:13 (RHR_WT03)
	21:58	40	21:27 (KLZ_WT15)	21:14	13	07:06 (CBR_WT01)	20:09	14	19:42 (KLZ_WT16)	19:01			17:03	2	08:26 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
13	05:44		06:24 (KLZ_WT10)	06:27		06:54 (CBR_WT01)	07:16		19:30 (KLZ_WT16)	08:04		08:36 (MVN_WT01)	07:57			08:40		09:14 (RHR_WT03)
	21:57	39	21:26 (KLZ_WT15)	21:13	10	07:04 (CBR_WT01)	20:06	10	19:40 (KLZ_WT16)	18:59	7	08:43 (MVN_WT01)	17:01			16:38	42	10:13 (ALB_WT01)
14	05:45		06:24 (KLZ_WT10)	06:29		06:56 (CBR_WT01)	07:18		19:32 (KLZ_WT16)	08:06		08:34 (MVN_WT01)	07:59			08:41		09:14 (RHR_WT03)
	21:56	37	21:25 (KLZ_WT15)	21:11	7	07:03 (CBR_WT01)	20:04	5	19:37 (KLZ_WT16)	18:57	10	08:44 (MVN_WT01)	17:00			16:38	44	10:14 (ALB_WT01)
15	05:47		06:25 (KLZ_WT10)	06:30		07:01 (SAM_WT05)	07:19			08:07		08:34 (MVN_WT01)	08:01		08:44 (RHR_WT02)	08:42		09:15 (RHR_WT03)
	21:55	35	21:24 (KLZ_WT15)	21:09	7	07:08 (SAM_WT05)	20:02			18:55	11	08:45 (MVN_WT01)	16:59	6	08:50 (RHR_WT02)	16:38	44	10:15 (ALB_WT01)
16	05:48		06:25 (KLZ_WT10)	06:32		06:59 (SAM_WT05)	07:21			08:09		08:34 (MVN_WT01)	08:02		08:42 (RHR_WT02)	08:43		09:15 (RHR_WT03)
	21:54	33	21:23 (KLZ_WT15)	21:07	11	07:10 (SAM_WT05)	20:00			18:53	11	08:45 (MVN_WT01)	16:57	10	08:52 (RHR_WT02)	16:38	45	10:16 (ALB_WT01)
17	05:49		06:25 (KLZ_WT10)	06:34		07:00 (SAM_WT05)	07:22			08:11		08:36 (MVN_WT01)	08:04		08:42 (RHR_WT02)	08:44		09:16 (RHR_WT03)
	21:53	32	21:22 (KLZ_WT15)	21:05	10	07:10 (SAM_WT05)	19:57			18:50	9	08:45 (MVN_WT01)	16:56	12	08:54 (RHR_WT02)	16:39	46	10:17 (ALB_WT01)
18	05:50		06:25 (KLZ_WT10)	06:35		07:02 (SAM_WT05)	07:24			08:12		08:38 (MVN_WT01)	08:06		08:40 (RHR_WT02)	08:45		09:16 (RHR_WT03)
	21:52	29	21:21 (KLZ_WT15)	21:03	9	07:11 (SAM_WT05)	19:55			18:48	7	08:45 (MVN_WT01)	16:55	21	16:04 (NES_WT01)	16:39	44	10:16 (ALB_WT01)
19	05:51		06:25 (KLZ_WT10)	06:37		07:03 (SAM_WT05)	07:25			08:14		08:40 (MVN_WT01)	08:07		08:40 (RHR_WT02)	08:45		09:17 (RHR_WT03)
	21:51	28	21:20 (KLZ_WT15)	21:01	7	07:10 (SAM_WT05)	19:53			18:46	4	08:44 (MVN_WT01)	16:53	27	16:06 (NES_WT01)	16:39	44	10:17 (ALB_WT01)
20	05:53		06:27 (KLZ_WT10)	06:38		07:05 (SAM_WT05)	07:27			08:16		08:42 (MVN_WT01)	08:09		08:40 (RHR_WT02)	08:46		09:18 (RHR_WT03)
	21:50	24	21:20 (KLZ_WT15)	20:59	6	07:11 (SAM_WT05)	19:50			18:44	1	08:43 (MVN_WT01)	16:52	28	16:07 (NES_WT01)	16:39	45	10:18 (ALB_WT01)
21	05:54		06:27 (KLZ_WT10)	06:40		07:06 (SAM_WT05)	07:29			08:18			08:11		08:41 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	21	21:18 (KLZ_WT15)	20:57	4	07:10 (SAM_WT05)	19:48			18:42			16:51	30	16:08 (NES_WT01)	16:40	45	10:18 (ALB_WT01)
22	05:55		06:28 (KLZ_WT10)	06:41		07:08 (SAM_WT05)	07:30			08:19			08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	16	21:17 (KLZ_WT15)	20:55	1	07:09 (SAM_WT05)	19:46			18:40			16:50	36	16:09 (NES_WT01)	16:40	45	10:19 (ALB_WT01)
23	05:56		06:29 (KLZ_WT10)	06:43			07:32			08:21			08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	12	06:41 (KLZ_WT10)	20:53			19:44			18:38			16:49	41	16:09 (NES_WT01)	16:41	45	10:19 (ALB_WT01)
24	05:58		06:29 (SAM_WT11)	06:45			07:33			08:23			08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	11	06:40 (KLZ_WT10)	20:50			19:41			18:36			16:48	42	16:10 (NES_WT01)	16:41	45	10:19 (ALB_WT01)
25	05:59		06:28 (SAM_WT11)	06:46			07:35			07:24			08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	11	06:46 (KLZ_WT11)	20:48			19:39			17:34			16:47	44	16:11 (NES_WT01)	16:42	44	10:20 (ALB_WT01)
26	06:01		06:29 (SAM_WT11)	06:48			07:36			07:26			08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	13	06:49 (KLZ_WT11)	20:46			19:37			17:32			16:46	43	16:10 (NES_WT01)	16:43	46	10:21 (ALB_WT01)
27	06:02		06:30 (SAM_WT11)	06:49			07:38			07:28			08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	16	06:50 (KLZ_WT11)	20:44			19:34			17:30			16:45	43	16:11 (NES_WT01)	16:43	45	10:21 (ALB_WT01)
28	06:03		06:32 (SAM_WT11)	06:51			07:40			07:30		08:11 (RHR_WT01)	08:22		08:53 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:40	16	06:51 (KLZ_WT11)	20:42			19:32			17:28	9	08:20 (RHR_WT01)	16:44	44	16:12 (NES_WT01)	16:44	44	10:21 (ALB_WT01)
29	06:05		06:33 (SAM_WT11)	06:52			07:41			07:31		08:09 (RHR_WT01)	08:23		08:54 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:38	24	07:03 (CBR_WT01)	20:40			19:30			17:27	13	08:22 (RHR_WT01)	16:44	43	16:11 (NES_WT01)	16:45	44	10:21 (ALB_WT01)
30	06:06		06:34 (SAM_WT11)	06:54		19:41 (KLZ_WT16)	07:43		08:20 (MXS_WT01)	07:33		08:04 (MVZ_WT02)	08:25		08:56 (RHR_WT02)	08:49		09:22 (RHR_WT03)
	21:37	29	07:05 (CBR_WT01)	20:38	4	19:45 (KLZ_WT16)	19:28	8	08:28 (MXS_WT01)	17:25	17	08:23 (RHR_WT01)	16:43	41	16:11 (NES_WT01)	16:46	43	10:21 (ALB_WT01)
31	06:08		06:36 (SAM_WT11)	06:56		19:36 (KLZ_WT16)				07:35		08:02 (MVZ_WT02)				08:50		09:22 (RHR_WT03)
	21:35	29	07:06 (CBR_WT01)	20:35	12	19:48 (KLZ_WT16)				17:23	22	08:24 (RHR_WT01)				16:47	43	10:21 (ALB_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		948			362			263			245			650			1293	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,64			0,67			0,61			0,56			0,59			0,55	
Total reduction		0,28			0,30			0,26			0,20			0,15			0,12	
Total, real		265			110			68			49			100			156	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 15 - Hageland 14, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		09:20 (ATS_WT01)	08:24			07:32		07:55 (ALB_WT01)	07:23			06:20		07:00 (KLZ_WT16)	05:37
	16:48	11	09:31 (ATS_WT01)	17:35			18:25	7	08:02 (ALB_WT01)	20:17			21:06	25	07:25 (KLZ_WT16)	21:51
2	08:50		09:20 (ATS_WT01)	08:23			07:30			07:21			06:18		07:00 (KLZ_WT16)	05:36
	16:49	12	09:32 (ATS_WT01)	17:37			18:27			20:19			21:08	24	07:24 (KLZ_WT16)	21:52
3	08:49		09:20 (ATS_WT01)	08:21			07:28			07:19			06:17		07:02 (KLZ_WT16)	05:35
	16:50	12	09:32 (ATS_WT01)	17:38			18:28			20:20			21:10	22	07:24 (KLZ_WT16)	21:53
4	08:49		09:19 (ATS_WT01)	08:20			07:26			07:17			06:15		07:02 (KLZ_WT16)	05:34
	16:52	13	09:32 (ATS_WT01)	17:40			18:30			20:22			21:11	20	07:22 (KLZ_WT16)	21:54
5	08:49		09:19 (ATS_WT01)	08:18			07:24			07:14			06:13		07:03 (KLZ_WT16)	05:34
	16:53	14	09:33 (ATS_WT01)	17:42			18:32			20:24			21:13	17	07:20 (KLZ_WT16)	21:55
6	08:49		09:19 (ATS_WT01)	08:16			07:22			07:12			06:11		07:06 (KLZ_WT16)	05:33
	16:54	13	09:32 (ATS_WT01)	17:44			18:34			20:25			21:14	13	07:19 (KLZ_WT16)	21:56
7	08:48		09:21 (ATS_WT01)	08:15			07:19		07:42 (RHR_WT01)	07:10			06:09		07:08 (KLZ_WT16)	05:33
	16:55	12	09:33 (ATS_WT01)	17:46			18:35	1	07:43 (RHR_WT01)	20:27			21:16	8	07:16 (KLZ_WT16)	21:57
8	08:48		09:21 (ATS_WT01)	08:13			07:17		07:40 (RHR_WT01)	07:08			06:08			05:32
	16:56	11	09:32 (ATS_WT01)	17:47			18:37	1	07:41 (RHR_WT01)	20:29			21:18			21:57
9	08:48		09:22 (ATS_WT01)	08:11			07:15			07:06			06:06			05:32
	16:58	11	09:33 (ATS_WT01)	17:49			18:39			20:30			21:19			21:58
10	08:47		09:23 (ATS_WT01)	08:09			07:13			07:03			06:04			05:31
	16:59	9	09:32 (ATS_WT01)	17:51			18:40			20:32			21:21			21:59
11	08:47		09:24 (ATS_WT01)	08:08			07:11			07:01			06:03			05:31
	17:00	7	09:31 (ATS_WT01)	17:53			18:42			20:34			21:22			22:00
12	08:46		09:27 (ATS_WT01)	08:06			07:08			06:59		07:22 (KLZ_WT08)	06:01			05:30
	17:02	4	09:31 (ATS_WT01)	17:55			18:44			20:35	1	07:23 (KLZ_WT08)	21:24			22:00
13	08:45			08:04			07:06			06:57		07:19 (KLZ_WT08)	06:00			05:30
	17:03			17:56			18:45			20:37	3	07:22 (KLZ_WT08)	21:25			22:01
14	08:45			08:02			07:04			06:55		07:17 (KLZ_WT08)	05:58			05:30
	17:05			17:58			18:47			20:39	4	07:21 (KLZ_WT08)	21:27			22:02
15	08:44			08:00			07:02			06:53		07:15 (KLZ_WT08)	05:57			05:30
	17:06			18:00			18:49			20:40	4	07:19 (KLZ_WT08)	21:28			22:02
16	08:43			07:59			06:59			06:50		07:13 (CBR_WT01)	05:55			05:30
	17:08			18:02			18:51			20:42	3	07:16 (CBR_WT01)	21:30			22:03
17	08:42			07:57			06:57			06:48		07:11 (KLZ_WT16)	05:54			05:30
	17:09			18:04			18:52			20:43	11	07:22 (KLZ_WT16)	21:31			22:03
18	08:41			07:55			06:55			06:46		07:09 (KLZ_WT16)	05:52			05:30
	17:11			18:05			18:54			20:45	15	07:24 (KLZ_WT16)	21:33			22:03
19	08:40			07:53			06:53			06:44		07:07 (KLZ_WT16)	05:51			05:30
	17:13			18:07			18:56			20:47	18	07:25 (KLZ_WT16)	21:34			22:04
20	08:39			07:51			06:50			06:42		07:05 (KLZ_WT16)	05:50			05:30
	17:14			18:09			18:57			20:48	21	07:26 (KLZ_WT16)	21:35			22:04
21	08:38			07:49			06:48			06:40		07:03 (KLZ_WT16)	05:48			05:30
	17:16			18:11			18:59			20:50	24	07:27 (KLZ_WT16)	21:37			22:04
22	08:37			07:47			06:46			06:38		07:02 (KLZ_WT16)	05:47			05:30
	17:17			18:13			19:01			20:52	25	07:27 (KLZ_WT16)	21:38			22:05
23	08:36			07:45			06:44			06:36		07:01 (KLZ_WT16)	05:46			05:30
	17:19			18:14			19:02			20:53	27	07:28 (KLZ_WT16)	21:40			22:05
24	08:35			07:43			06:41			06:34		07:00 (KLZ_WT16)	05:45			05:31
	17:21			18:16			19:04			20:55	28	07:28 (KLZ_WT16)	21:41			22:05
25	08:34			07:41			06:39			06:32		07:00 (KLZ_WT16)	05:43			05:31
	17:23			18:18			19:06			20:57	28	07:28 (KLZ_WT16)	21:42			22:05
26	08:32			07:39		08:02 (ALB_WT01)	06:37			06:30		06:59 (KLZ_WT16)	05:42			05:31
	17:24			18:20	3	08:05 (ALB_WT01)	19:07			20:58	28	07:27 (KLZ_WT16)	21:43			22:05
27	08:31			07:36		08:00 (ALB_WT01)	06:35			06:28		06:59 (KLZ_WT16)	05:41			05:32
	17:26			18:21	5	08:05 (ALB_WT01)	19:09			21:00	28	07:27 (KLZ_WT16)	21:45			22:05
28	08:30			07:34		07:57 (ALB_WT01)	06:32			06:26		07:00 (KLZ_WT16)	05:40			05:32
	17:28			18:23	6	08:03 (ALB_WT01)	19:11			21:01	28	07:28 (KLZ_WT16)	21:46			22:05
29	08:28						07:30			06:24		07:00 (KLZ_WT16)	05:39			05:33
	17:30						20:12			21:03	27	07:27 (KLZ_WT16)	21:47			22:05
30	08:27						07:28			06:22		07:00 (KLZ_WT16)	05:38			05:33
	17:31						20:14			21:05	26	07:26 (KLZ_WT16)	21:48			22:04
31	08:26						07:26						05:37			
	17:33						20:15						21:49			
Potential sun hours	262			279			367			414			482			494
Total, worst case		129			14			9			349			129		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,53			0,55			0,55			0,64			0,64		
Total reduction		0,13			0,16			0,21			0,29			0,29		
Total, real		16			2			2			102			37		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 15 - Hageland 14, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July		August			September		October			November			December		
1	05:34		06:09			06:57		07:45			07:37			08:26		09:06 (ATS_WT01)
	22:04		21:34			20:33		19:26			17:21			16:42	7	09:13 (ATS_WT01)
2	05:35		06:11			06:59		07:46			07:38			08:27		09:06 (ATS_WT01)
	22:04		21:32			20:31		19:23			17:19			16:42	9	09:15 (ATS_WT01)
3	05:35		06:12			07:00		07:48			07:40			08:29		09:06 (ATS_WT01)
	22:04		21:30			20:29		19:21			17:18			16:41	10	09:16 (ATS_WT01)
4	05:36		06:14			07:02		07:49			07:42			08:30		09:06 (ATS_WT01)
	22:03		21:29			20:27		19:19			17:16			16:41	11	09:17 (ATS_WT01)
5	05:37		06:15			07:04		07:51			07:44			08:31		09:06 (ATS_WT01)
	22:03		21:27			20:25		19:17			17:14			16:40	12	09:18 (ATS_WT01)
6	05:38		06:17		07:16 (KLZ_WT16)	07:05		07:53		08:17 (RHR_WT01)	07:45			08:33		09:06 (ATS_WT01)
	22:02		21:25	10	07:26 (KLZ_WT16)	20:22		19:14	1	08:18 (RHR_WT01)	17:12			16:40	12	09:18 (ATS_WT01)
7	05:39		06:18		07:14 (KLZ_WT16)	07:07		07:54			07:47			08:34		09:06 (ATS_WT01)
	22:02		21:24	15	07:29 (KLZ_WT16)	20:20		19:12			17:11			16:39	14	09:20 (ATS_WT01)
8	05:39		06:20		07:12 (KLZ_WT16)	07:08		07:56			07:49			08:35		09:07 (ATS_WT01)
	22:01		21:22	18	07:30 (KLZ_WT16)	20:18		19:10			17:09			16:39	13	09:20 (ATS_WT01)
9	05:40		06:21		07:12 (KLZ_WT16)	07:10		07:58			07:51			08:36		09:08 (ATS_WT01)
	22:00		21:20	20	07:32 (KLZ_WT16)	20:16		19:08			17:08			16:39	12	09:20 (ATS_WT01)
10	05:41		06:23		07:10 (KLZ_WT16)	07:11		07:59			07:52			08:37		09:09 (ATS_WT01)
	22:00		21:18	22	07:32 (KLZ_WT16)	20:13		19:06			17:06			16:39	12	09:21 (ATS_WT01)
11	05:42		06:24		07:10 (KLZ_WT16)	07:13		08:01			07:54			08:38		09:10 (ATS_WT01)
	21:59		21:16	24	07:34 (KLZ_WT16)	20:11		19:03			17:04			16:38	11	09:21 (ATS_WT01)
12	05:43		06:26		07:08 (KLZ_WT16)	07:14		08:03		08:31 (ALB_WT01)	07:56			08:39		09:11 (ATS_WT01)
	21:58		21:15	26	07:34 (KLZ_WT16)	20:09		19:01	4	08:35 (ALB_WT01)	17:03			16:38	11	09:22 (ATS_WT01)
13	05:44		06:27		07:08 (KLZ_WT16)	07:16		08:04		08:29 (ALB_WT01)	07:57			08:40		09:12 (ATS_WT01)
	21:57		21:13	27	07:35 (KLZ_WT16)	20:06		18:59	7	08:36 (ALB_WT01)	17:02			16:38	10	09:22 (ATS_WT01)
14	05:46		06:29		07:07 (KLZ_WT16)	07:18		08:06		08:31 (ALB_WT01)	07:59			08:41		09:13 (ATS_WT01)
	21:57		21:11	28	07:35 (KLZ_WT16)	20:04		18:57	6	08:37 (ALB_WT01)	17:00			16:38	10	09:23 (ATS_WT01)
15	05:47		06:31		07:06 (KLZ_WT16)	07:19		08:08		08:33 (ALB_WT01)	08:01			08:42		09:14 (ATS_WT01)
	21:56		21:09	28	07:34 (KLZ_WT16)	20:02		18:55	4	08:37 (ALB_WT01)	16:59			16:38	9	09:23 (ATS_WT01)
16	05:48		06:32		07:07 (KLZ_WT16)	07:21		08:09		08:35 (ALB_WT01)	08:03			08:43		09:15 (ATS_WT01)
	21:55		21:07	28	07:35 (KLZ_WT16)	20:00		18:53	2	08:37 (ALB_WT01)	16:57			16:38	9	09:24 (ATS_WT01)
17	05:49		06:34		07:06 (KLZ_WT16)	07:22		08:11			08:04			08:44		09:16 (ATS_WT01)
	21:54		21:05	28	07:34 (KLZ_WT16)	19:57		18:51			16:56			16:39	8	09:24 (ATS_WT01)
18	05:50		06:35		07:06 (KLZ_WT16)	07:24		08:13			08:06			08:45		09:16 (ATS_WT01)
	21:53		21:03	28	07:34 (KLZ_WT16)	19:55		18:48			16:55			16:39	8	09:24 (ATS_WT01)
19	05:51		06:37		07:06 (KLZ_WT16)	07:25		08:14			08:08			08:45		09:17 (ATS_WT01)
	21:51		21:01	27	07:33 (KLZ_WT16)	19:53		18:46			16:54			16:39	8	09:25 (ATS_WT01)
20	05:53		06:38		07:07 (KLZ_WT16)	07:27		08:16			08:09			08:46		09:18 (ATS_WT01)
	21:50		20:59	26	07:33 (KLZ_WT16)	19:51		18:44			16:52			16:40	8	09:26 (ATS_WT01)
21	05:54		06:40		07:07 (KLZ_WT16)	07:29		08:18			08:11			08:47		09:18 (ATS_WT01)
	21:49		20:57	25	07:32 (KLZ_WT16)	19:48		18:42			16:51			16:40	8	09:26 (ATS_WT01)
22	05:55		06:42		07:08 (KLZ_WT16)	07:30		08:19			08:12			08:47		09:19 (ATS_WT01)
	21:48		20:55	24	07:32 (KLZ_WT16)	19:46		18:40			16:50			16:40	8	09:27 (ATS_WT01)
23	05:57		06:43		07:09 (KLZ_WT16)	07:32		08:21			08:14			08:48		09:19 (ATS_WT01)
	21:47		20:53	21	07:30 (KLZ_WT16)	19:44		18:38			16:49			16:41	8	09:27 (ATS_WT01)
24	05:58		06:45		07:11 (KLZ_WT16)	07:33		08:23			08:16			08:48		09:19 (ATS_WT01)
	21:45		20:51	18	07:29 (KLZ_WT16)	19:41		18:36			16:48			16:42	8	09:27 (ATS_WT01)
25	05:59		06:46		07:12 (KLZ_WT16)	07:35		07:24			08:17			08:48		09:20 (ATS_WT01)
	21:44		20:48	14	07:26 (KLZ_WT16)	19:39		17:34			16:47			16:42	8	09:28 (ATS_WT01)
26	06:01		06:48		07:14 (KLZ_WT16)	07:37		07:26			08:19			08:49		09:20 (ATS_WT01)
	21:43		20:46	10	07:24 (KLZ_WT16)	19:37		17:32			16:46			16:43	8	09:28 (ATS_WT01)
27	06:02		06:49		07:15 (CBR_WT01)	07:38		07:28			08:20			08:49		09:20 (ATS_WT01)
	21:41		20:44	3	07:18 (CBR_WT01)	19:35		17:30			16:45			16:44	9	09:29 (ATS_WT01)
28	06:03		06:51		07:17 (KLZ_WT08)	07:40		07:30			08:22			08:49		09:20 (ATS_WT01)
	21:40		20:42	4	07:21 (KLZ_WT08)	19:32		17:29			16:44			16:44	9	09:29 (ATS_WT01)
29	06:05		06:53		07:18 (KLZ_WT08)	07:41		07:31			08:23			08:49		09:20 (ATS_WT01)
	21:38		20:40	4	07:22 (KLZ_WT08)	19:30		17:27			16:44			16:45	9	09:29 (ATS_WT01)
30	06:06		06:54		07:20 (KLZ_WT08)	07:43		07:33			08:25		09:08 (ATS_WT01)	08:50		09:20 (ATS_WT01)
	21:37		20:38	3	07:23 (KLZ_WT08)	19:28		17:25			16:43	4	09:12 (ATS_WT01)	16:46	10	09:30 (ATS_WT01)
31	06:08		06:56		07:21 (KLZ_WT08)			07:35						08:50		09:20 (ATS_WT01)
	21:35		20:36	1	07:22 (KLZ_WT08)			17:23						16:47	10	09:30 (ATS_WT01)
Potential sun hours	498		451			380		333			269			248		
Total, worst case				482					24			4			299	
Sun reduction				0,47					0,36			0,27			0,23	
Oper. time red.				0,97					0,97			0,97			0,97	
Wind dir. red.				0,64					0,55			0,53			0,53	
Total reduction				0,29					0,20			0,14			0,12	
Total, real				141					5			1			35	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (ALB_WT01)	07:32			07:23		07:46 (CBR_WT01)	06:20		06:44 (SAM_WT06)	05:37		
	16:48			17:35	35	09:29 (KLZ_WT16)	18:25			20:17	6	07:52 (CBR_WT01)	21:06	42	07:47 (KLZ_WT15)	21:51		
2	08:50			08:23		08:48 (ALB_WT01)	07:30			07:21		07:44 (CBR_WT01)	06:18		06:42 (SAM_WT06)	05:36		
	16:49			17:37	38	09:29 (KLZ_WT16)	18:27			20:19	6	07:50 (CBR_WT01)	21:08	42	07:46 (KLZ_WT15)	21:52		
3	08:49			08:21		08:46 (ALB_WT01)	07:28			07:19			06:17		07:07 (KLZ_WT15)	05:35		
	16:50			17:38	40	09:29 (KLZ_WT16)	18:28			20:20			21:10	40	07:47 (KLZ_WT15)	21:53		
4	08:49			08:20		08:45 (RHR_WT03)	07:26			07:17			06:15		07:07 (KLZ_WT15)	05:34		
	16:51			17:40	42	09:31 (KLZ_WT16)	18:30			20:22			21:11	39	07:46 (KLZ_WT15)	21:54		
5	08:49			08:18		08:43 (RHR_WT03)	07:24			07:14			06:13		07:07 (KLZ_WT15)	05:34		
	16:53			17:42	39	09:31 (KLZ_WT16)	18:32			20:24			21:13	38	07:45 (KLZ_WT15)	21:55		
6	08:49			08:16		08:41 (RHR_WT03)	07:22			07:12			06:11		07:07 (KLZ_WT15)	05:33		
	16:54			17:44	40	09:31 (KLZ_WT16)	18:34			20:25			21:14	38	07:45 (KLZ_WT15)	21:56		
7	08:48			08:15		08:39 (RHR_WT02)	07:19			07:10			06:09		07:07 (KLZ_WT15)	05:32		
	16:55			17:46	41	09:31 (KLZ_WT16)	18:35			20:27			21:16	37	07:44 (KLZ_WT15)	21:57		
8	08:48			08:13		08:38 (RHR_WT02)	07:17			07:08			06:08		07:08 (KLZ_WT15)	05:32		
	16:56			17:47	37	09:32 (KLZ_WT16)	18:37			20:29			21:18	35	07:43 (KLZ_WT15)	21:57		
9	08:48			08:11		08:56 (KLZ_WT16)	07:15			07:06			06:06		07:09 (KLZ_WT15)	05:32		
	16:58			17:49	36	09:32 (KLZ_WT16)	18:39			20:30			21:19	34	07:43 (KLZ_WT15)	21:58		
10	08:47			08:09		08:56 (KLZ_WT16)	07:13			07:03			06:04		07:09 (KLZ_WT15)	05:31		
	16:59			17:51	35	09:31 (KLZ_WT16)	18:40			20:32			21:21	33	07:42 (KLZ_WT15)	21:59		
11	08:47			08:08		08:56 (KLZ_WT16)	07:11			07:01			06:03		07:10 (KLZ_WT15)	05:31		06:00 (KLZ_WT17)
	17:00			17:53	35	09:31 (KLZ_WT16)	18:42			20:34			21:22	31	07:41 (KLZ_WT15)	22:00	1	06:01 (KLZ_WT17)
12	08:46			08:06		08:57 (KLZ_WT16)	07:08			06:59			06:01		07:10 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:02			17:55	34	09:31 (KLZ_WT16)	18:44			20:35			21:24	29	07:39 (KLZ_WT15)	22:00	1	06:00 (KLZ_WT17)
13	08:45			08:04		08:57 (KLZ_WT16)	07:06		07:29 (KLZ_WT08)	06:57			06:00		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:03			17:56	33	09:30 (KLZ_WT16)	18:45	3	07:32 (KLZ_WT08)	20:37			21:25	27	07:39 (KLZ_WT15)	22:01	1	06:00 (KLZ_WT17)
14	08:45			08:02		08:58 (KLZ_WT16)	07:04		07:26 (KLZ_WT08)	06:55			05:58		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:05			17:58	31	09:29 (KLZ_WT16)	18:47	6	07:32 (KLZ_WT08)	20:39			21:27	25	07:37 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
15	08:44			08:00		08:58 (KLZ_WT16)	07:02		07:24 (KLZ_WT08)	06:53			05:57		07:14 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:06			18:00	30	09:28 (KLZ_WT16)	18:49	7	07:31 (KLZ_WT08)	20:40			21:28	22	07:36 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
16	08:43			07:58		08:22 (RHR_WT01)	06:59		07:23 (KLZ_WT08)	06:50		07:26 (KLZ_WT15)	05:55		07:16 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:08			18:02	29	09:27 (KLZ_WT16)	18:51	7	07:30 (KLZ_WT08)	20:42	9	07:35 (KLZ_WT15)	21:30	19	07:35 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
17	08:42			07:57		08:20 (RHR_WT01)	06:57		07:25 (KLZ_WT08)	06:48		07:22 (KLZ_WT15)	05:54		07:17 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:09			18:04	28	09:26 (KLZ_WT16)	18:52	3	07:28 (KLZ_WT08)	20:43	17	07:39 (KLZ_WT15)	21:31	15	07:32 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
18	08:41			07:55		08:18 (RHR_WT01)	06:55			06:46		07:19 (KLZ_WT15)	05:52		07:20 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:11			18:05	23	09:24 (KLZ_WT16)	18:54			20:45	22	07:41 (KLZ_WT15)	21:33	9	07:29 (KLZ_WT15)	22:04	1	06:00 (KLZ_WT17)
19	08:40			07:53		09:04 (KLZ_WT16)	06:53			06:44		07:07 (SAM_WT07)	05:51			05:30		05:59 (KLZ_WT17)
	17:13			18:07	17	09:21 (KLZ_WT16)	18:56			20:47	27	07:42 (KLZ_WT15)	21:34			22:04	1	06:00 (KLZ_WT17)
20	08:39			07:51		09:07 (KLZ_WT16)	06:50			06:42		07:05 (SAM_WT07)	05:50			05:30		05:59 (KLZ_WT17)
	17:14			18:09	11	09:18 (KLZ_WT16)	18:57			20:48	32	07:44 (KLZ_WT15)	21:35			22:04	1	06:00 (KLZ_WT17)
21	08:38			07:49			06:48			06:40		07:03 (SAM_WT07)	05:48			05:30		06:00 (KLZ_WT17)
	17:16			18:11			18:59			20:50	35	07:45 (KLZ_WT15)	21:37			22:04	1	06:01 (KLZ_WT17)
22	08:37			07:47			06:46			06:38		07:12 (KLZ_WT15)	05:47			05:30		06:00 (KLZ_WT17)
	17:17			18:13			19:01			20:52	33	07:45 (KLZ_WT15)	21:38			22:05	1	06:01 (KLZ_WT17)
23	08:36			07:45			06:44			06:36		07:11 (KLZ_WT15)	05:46			05:30		06:00 (KLZ_WT17)
	17:19			18:14			19:02			20:53	35	07:46 (KLZ_WT15)	21:40			22:05	1	06:01 (KLZ_WT17)
24	08:35			07:43			06:41			06:34		07:10 (KLZ_WT15)	05:45			05:31		06:00 (KLZ_WT17)
	17:21			18:16			19:04			20:55	36	07:46 (KLZ_WT15)	21:41			22:05	1	06:01 (KLZ_WT17)
25	08:34		09:06 (KLZ_WT16)	07:41			06:39			06:32		07:09 (KLZ_WT15)	05:43			05:31		06:01 (KLZ_WT17)
	17:23	11	09:17 (KLZ_WT16)	18:18			19:06			20:57	38	07:47 (KLZ_WT15)	21:42			22:05	1	06:02 (KLZ_WT17)
26	08:32		09:04 (KLZ_WT16)	07:39		08:02 (MVN_WT01)	06:37			06:30		07:08 (KLZ_WT15)	05:42			05:31		06:01 (KLZ_WT17)
	17:24	16	09:20 (KLZ_WT16)	18:20	1	08:03 (MVN_WT01)	19:07			20:58	39	07:47 (KLZ_WT15)	21:43			22:05	1	06:02 (KLZ_WT17)
27	08:31		09:02 (KLZ_WT16)	07:36			06:35			06:28		07:07 (KLZ_WT15)	05:41			05:32		06:02 (KLZ_WT17)
	17:26	20	09:22 (KLZ_WT16)	18:21			19:09			21:00	40	07:47 (KLZ_WT15)	21:45			22:05	1	06:03 (KLZ_WT17)
28	08:30		09:01 (KLZ_WT16)	07:34			06:32			06:26		07:08 (KLZ_WT15)	05:40			05:32		06:02 (KLZ_WT17)
	17:28	23	09:24 (KLZ_WT16)	18:23			19:11			21:01	40	07:48 (KLZ_WT15)	21:46			22:05	1	06:03 (KLZ_WT17)
29	08:28		09:00 (KLZ_WT16)				07:30		07:52 (CBR_WT01)	06:24		07:07 (KLZ_WT15)	05:39			05:33		06:03 (KLZ_WT17)
	17:29	25	09:25 (KLZ_WT16)				20:12	1	07:53 (CBR_WT01)	21:03	41	07:48 (KLZ_WT15)	21:47			22:05	1	06:04 (KLZ_WT17)
30	08:27		08:53 (ALB_WT01)				07:28		07:50 (CBR_WT01)	06:22		07:07 (KLZ_WT15)	05:38			05:33		06:03 (KLZ_WT17)
	17:31	29	09:27 (KLZ_WT16)				20:14	3	07:53 (CBR_WT01)	21:05	40	07:47 (KLZ_WT15)	21:48			22:05	1	06:04 (KLZ_WT17)
31	08:26		08:51 (ALB_WT01)				07:26		07:48 (CBR_WT01)				05:37					
	17:33	32	09:27 (KLZ_WT16)				20:15	5	07:53 (CBR_WT01)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		156			655			35			496			555			20	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,55			0,55			0,60			0,64			0,64			0,71	
Total reduction		0,13			0,16			0,22			0,29			0,29			0,31	
Total, real		21			105			8			144			159			6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December
1	05:34		06:04 (KLZ_WT17)	06:09		07:20 (KLZ_WT15)	06:57			07:45		08:09 (KLZ_WT08)	07:37		08:26 (KLZ_WT16)	08:26
	22:04	1	06:05 (KLZ_WT17)	21:34	30	07:50 (KLZ_WT15)	20:33			19:26	2	08:11 (KLZ_WT08)	17:21	35	09:01 (KLZ_WT16)	16:42
2	05:35		06:04 (KLZ_WT17)	06:11		07:20 (KLZ_WT15)	06:59			07:46			07:38		08:26 (KLZ_WT16)	08:27
	22:04	1	06:05 (KLZ_WT17)	21:32	32	07:52 (KLZ_WT15)	20:31			19:23			17:19	35	09:01 (KLZ_WT16)	16:42
3	05:35			06:12		07:19 (KLZ_WT15)	07:00			07:48			07:40		08:08 (RHR_WT02)	08:29
	22:04			21:30	33	07:52 (KLZ_WT15)	20:29			19:21			17:18	37	09:02 (KLZ_WT16)	16:41
4	05:36			06:14		07:19 (KLZ_WT15)	07:02			07:49			07:42		08:09 (RHR_WT02)	08:30
	22:03			21:29	35	07:54 (KLZ_WT15)	20:27			19:19			17:16	41	09:01 (KLZ_WT16)	16:40
5	05:37			06:15		07:18 (KLZ_WT15)	07:03			07:51			07:44		08:11 (RHR_WT03)	08:31
	22:03			21:27	36	07:54 (KLZ_WT15)	20:24			19:17			17:14	41	09:01 (KLZ_WT16)	16:40
6	05:38			06:17		07:17 (KLZ_WT15)	07:05			07:53			07:45		08:13 (RHR_WT03)	08:33
	22:02			21:25	37	07:54 (KLZ_WT15)	20:22			19:14			17:12	41	09:01 (KLZ_WT16)	16:40
7	05:38			06:18		07:17 (KLZ_WT15)	07:07			07:54			07:47		08:15 (RHR_WT03)	08:34
	22:02			21:24	38	07:55 (KLZ_WT15)	20:20			19:12			17:11	42	09:00 (KLZ_WT16)	16:39
8	05:39			06:20		07:16 (KLZ_WT15)	07:08			07:56			07:49		08:17 (ALB_WT01)	08:35
	22:01			21:22	39	07:55 (KLZ_WT15)	20:18			19:10			17:09	40	09:00 (KLZ_WT16)	16:39
9	05:40			06:21		07:16 (KLZ_WT15)	07:10			07:58			07:51		08:19 (ALB_WT01)	08:36
	22:00			21:20	40	07:56 (KLZ_WT15)	20:16			19:08			17:08	38	09:00 (KLZ_WT16)	16:39
10	05:41			06:23		07:15 (KLZ_WT15)	07:11		07:37 (CBR_WT01)	07:59			07:52		08:21 (ALB_WT01)	08:37
	22:00			21:18	40	07:55 (KLZ_WT15)	20:13	6	07:43 (CBR_WT01)	19:06			17:06	34	08:59 (KLZ_WT16)	16:38
11	05:42			06:24		06:52 (SAM_WT06)	07:13		07:38 (CBR_WT01)	08:01			07:54		08:23 (ALB_WT01)	08:38
	21:59			21:16	42	07:56 (KLZ_WT15)	20:11	6	07:44 (CBR_WT01)	19:03			17:04	32	08:59 (KLZ_WT16)	16:38
12	05:43			06:26		06:53 (SAM_WT06)	07:14		07:39 (CBR_WT01)	08:03			07:56		08:31 (KLZ_WT16)	08:39
	21:58			21:15	41	07:55 (KLZ_WT15)	20:09	5	07:44 (CBR_WT01)	19:01			17:03	27	08:58 (KLZ_WT16)	16:38
13	05:44			06:27		07:14 (KLZ_WT15)	07:16		07:41 (CBR_WT01)	08:04			07:57		08:32 (KLZ_WT16)	08:40
	21:57			21:13	41	07:55 (KLZ_WT15)	20:06	4	07:45 (CBR_WT01)	18:59			17:02	25	08:57 (KLZ_WT16)	16:38
14	05:45			06:29		07:15 (KLZ_WT15)	07:18		07:42 (CBR_WT01)	08:06			07:59		08:33 (KLZ_WT16)	08:41
	21:57			21:11	40	07:55 (KLZ_WT15)	20:04	2	07:44 (CBR_WT01)	18:57			17:00	23	08:56 (KLZ_WT16)	16:38
15	05:47			06:31		07:14 (KLZ_WT15)	07:19			08:07			08:01		08:35 (KLZ_WT16)	08:42
	21:56			21:09	40	07:54 (KLZ_WT15)	20:02			18:55			16:59	20	08:55 (KLZ_WT16)	16:38
16	05:48			06:32		07:15 (KLZ_WT15)	07:21			08:09		08:35 (MVN_WT01)	08:03		08:37 (KLZ_WT16)	08:43
	21:55			21:07	39	07:54 (KLZ_WT15)	20:00			18:53	1	08:36 (MVN_WT01)	16:57	16	08:53 (KLZ_WT16)	16:38
17	05:49			06:34		07:15 (KLZ_WT15)	07:22			08:11			08:04		08:40 (KLZ_WT16)	08:44
	21:54			21:05	38	07:53 (KLZ_WT15)	19:57			18:51			16:56	11	08:51 (KLZ_WT16)	16:39
18	05:50			06:35		07:16 (KLZ_WT15)	07:24			08:13			08:06			08:45
	21:53			21:03	37	07:53 (KLZ_WT15)	19:55			18:48			16:55			16:39
19	05:51			06:37		07:16 (KLZ_WT15)	07:25			08:14			08:08			08:45
	21:51			21:01	36	07:52 (KLZ_WT15)	19:53			18:46			16:54			16:39
20	05:53			06:38		07:17 (KLZ_WT15)	07:27			08:16			08:09			08:46
	21:50			20:59	35	07:52 (KLZ_WT15)	19:51			18:44			16:52			16:40
21	05:54			06:40		07:17 (KLZ_WT15)	07:29			08:18			08:11			08:47
	21:49			20:57	33	07:50 (KLZ_WT15)	19:48			18:42			16:51			16:40
22	05:55			06:41		07:08 (SAM_WT07)	07:30			08:19		09:36 (KLZ_WT16)	08:12			08:47
	21:48			20:55	34	07:49 (KLZ_WT15)	19:46			18:40	14	09:50 (KLZ_WT16)	16:50			16:40
23	05:57			06:43		07:09 (SAM_WT07)	07:32			08:21		09:34 (KLZ_WT16)	08:14			08:48
	21:47			20:53	31	07:47 (KLZ_WT15)	19:44			18:38	18	09:52 (KLZ_WT16)	16:49			16:41
24	05:58			06:45		07:11 (SAM_WT07)	07:33			08:23		08:49 (RHR_WT01)	08:16			08:48
	21:45			20:51	27	07:46 (KLZ_WT15)	19:41			18:36	25	09:55 (KLZ_WT16)	16:48			16:42
25	05:59		07:34 (KLZ_WT15)	06:46		07:22 (KLZ_WT15)	07:35			07:24		07:51 (RHR_WT01)	08:17			08:48
	21:44	3	07:37 (KLZ_WT15)	20:48	21	07:43 (KLZ_WT15)	19:39			17:34	27	08:56 (KLZ_WT16)	16:47			16:42
26	06:01		07:29 (KLZ_WT15)	06:48		07:25 (KLZ_WT15)	07:37			07:26		07:53 (RHR_WT01)	08:19			08:49
	21:43	12	07:41 (KLZ_WT15)	20:46	16	07:41 (KLZ_WT15)	19:37			17:32	30	08:58 (KLZ_WT16)	16:46			16:43
27	06:02		07:28 (KLZ_WT15)	06:49		07:28 (KLZ_WT15)	07:38		08:05 (KLZ_WT08)	07:28		08:28 (KLZ_WT16)	08:20			08:49
	21:41	16	07:44 (KLZ_WT15)	20:44	8	07:36 (KLZ_WT15)	19:35	7	08:12 (KLZ_WT08)	17:30	30	08:58 (KLZ_WT16)	16:45			16:44
28	06:03		07:26 (KLZ_WT15)	06:51			07:40		08:04 (KLZ_WT08)	07:30		08:27 (KLZ_WT16)	08:22			08:49
	21:40	20	07:46 (KLZ_WT15)	20:42			19:32	8	08:12 (KLZ_WT08)	17:28	32	08:59 (KLZ_WT16)	16:44			16:44
29	06:05		07:24 (KLZ_WT15)	06:52			07:41		08:06 (KLZ_WT08)	07:31		08:26 (KLZ_WT16)	08:23			08:49
	21:38	23	07:47 (KLZ_WT15)	20:40			19:30	6	08:12 (KLZ_WT08)	17:27	34	09:00 (KLZ_WT16)	16:44			16:45
30	06:06		07:23 (KLZ_WT15)	06:54			07:43		08:08 (KLZ_WT08)	07:33		08:26 (KLZ_WT16)	08:25			08:50
	21:37	26	07:49 (KLZ_WT15)	20:38			19:28	4	08:12 (KLZ_WT08)	17:25	34	09:00 (KLZ_WT16)	16:43			16:46
31	06:08		07:22 (KLZ_WT15)	06:56						07:35		08:26 (KLZ_WT16)				08:50
	21:35	28	07:50 (KLZ_WT15)	20:36						17:23	35	09:01 (KLZ_WT16)				16:47
Potential sun hours	498			451			380			333			269			248
Total, worst case		130			919			48			282			538		
Sun reduction		0,45			0,47			0,43			0,36			0,27		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,64			0,64			0,61			0,55			0,55		
Total reduction		0,28			0,29			0,26			0,19			0,14		
Total, real		37			269			12			55			77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		12:37 (KLZ_WT16)	08:24			07:32			07:23		07:46 (CBR_WT01)	06:20			05:37
	16:48	47	13:24 (KLZ_WT16)	17:35			18:25			20:17	10	07:56 (CBR_WT01)	21:06			21:51
2	08:50		12:38 (KLZ_WT16)	08:23			07:30			07:21		07:43 (CBR_WT01)	06:18			05:36
	16:49	46	13:24 (KLZ_WT16)	17:37			18:27			20:19	11	07:54 (CBR_WT01)	21:08			21:52
3	08:49		12:39 (KLZ_WT16)	08:21			07:28			07:19		07:44 (CBR_WT01)	06:17			05:35
	16:50	46	13:25 (KLZ_WT16)	17:38			18:28			20:20	9	07:53 (CBR_WT01)	21:10			21:53
4	08:49		12:39 (KLZ_WT16)	08:19			07:26		07:49 (KLZ_WT08)	07:17		07:46 (CBR_WT01)	06:15			05:34
	16:51	45	13:24 (KLZ_WT16)	17:40			18:30	5	07:54 (KLZ_WT08)	20:22	4	07:50 (CBR_WT01)	21:11			21:54
5	08:49		12:40 (KLZ_WT16)	08:18			07:24		07:47 (KLZ_WT08)	07:14			06:13			05:34
	16:53	44	13:24 (KLZ_WT16)	17:42			18:32	9	07:56 (KLZ_WT08)	20:24			21:13			21:55
6	08:49		12:41 (KLZ_WT16)	08:16		08:41 (RHR_WT01)	07:22		07:44 (KLZ_WT08)	07:12			06:11		06:36 (SAM_WT06)	05:33
	16:54	43	13:24 (KLZ_WT16)	17:44	2	08:43 (RHR_WT01)	18:33	12	07:56 (KLZ_WT08)	20:25			21:14	2	06:38 (SAM_WT06)	21:56
7	08:48		09:18 (ALB_WT01)	08:15		08:39 (RHR_WT01)	07:19		07:43 (KLZ_WT08)	07:10			06:09		06:34 (SAM_WT06)	05:32
	16:55	44	13:24 (KLZ_WT16)	17:46	3	08:42 (RHR_WT01)	18:35	14	07:57 (KLZ_WT08)	20:27			21:16	3	06:37 (SAM_WT06)	21:56
8	08:48		09:17 (ALB_WT01)	08:13		08:38 (RHR_WT01)	07:17		07:42 (KLZ_WT08)	07:08			06:08		06:32 (SAM_WT06)	05:32
	16:56	43	13:23 (KLZ_WT16)	17:47	5	08:43 (RHR_WT01)	18:37	15	07:57 (KLZ_WT08)	20:29			21:17	4	06:36 (SAM_WT06)	21:57
9	08:48		09:17 (ALB_WT01)	08:11		08:36 (RHR_WT01)	07:15		07:42 (KLZ_WT08)	07:06			06:06		06:31 (SAM_WT06)	05:31
	16:58	43	13:24 (KLZ_WT16)	17:49	5	08:41 (RHR_WT01)	18:39	15	07:57 (KLZ_WT08)	20:30			21:19	5	06:36 (SAM_WT06)	21:58
10	08:47		09:16 (ALB_WT01)	08:09		08:34 (RHR_WT01)	07:13		07:42 (KLZ_WT08)	07:03			06:04		06:29 (SAM_WT06)	05:31
	16:59	43	13:23 (KLZ_WT16)	17:51	6	08:40 (RHR_WT01)	18:40	13	07:55 (KLZ_WT08)	20:32			21:21	4	06:33 (SAM_WT06)	21:59
11	08:46		09:15 (ALB_WT01)	08:08			07:11		07:43 (KLZ_WT08)	07:01			06:03			05:31
	17:00	42	13:22 (KLZ_WT16)	17:53			18:42	11	07:54 (KLZ_WT08)	20:34			21:22			22:00
12	08:46		09:15 (ALB_WT01)	08:06			07:08		07:44 (KLZ_WT08)	06:59			06:01			05:30
	17:02	41	13:22 (KLZ_WT16)	17:55			18:44	8	07:52 (KLZ_WT08)	20:35			21:24			22:00
13	08:45		09:14 (ALB_WT01)	08:04			07:06			06:57			06:00			05:30
	17:03	39	13:21 (KLZ_WT16)	17:56			18:45			20:37			21:25			22:01
14	08:45		09:13 (ALB_WT01)	08:02			07:04			06:55			05:58			05:30
	17:05	38	13:20 (KLZ_WT16)	17:58			18:47			20:39			21:27			22:02
15	08:44		09:12 (ALB_WT01)	08:00			07:02			06:53			05:57			05:30
	17:06	35	13:18 (KLZ_WT16)	18:00			18:49			20:40			21:28			22:02
16	08:43		09:12 (ALB_WT01)	07:58			06:59			06:50			05:55			05:30
	17:08	29	13:15 (KLZ_WT16)	18:02			18:51			20:42			21:30			22:03
17	08:42		09:10 (RHR_WT03)	07:57			06:57			06:48			05:54			05:30
	17:09	17	13:10 (KLZ_WT16)	18:04			18:52			20:43			21:31			22:03
18	08:41		09:09 (RHR_WT03)	07:55			06:55			06:46			05:52			05:30
	17:11	13	09:23 (ALB_WT01)	18:05			18:54			20:45			21:33			22:03
19	08:40		09:08 (RHR_WT03)	07:53			06:53			06:44			05:51			05:30
	17:13	13	09:23 (ALB_WT01)	18:07			18:56			20:47			21:34			22:04
20	08:39		09:07 (RHR_WT03)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49			05:30
	17:14	11	09:22 (ALB_WT01)	18:09	2	08:16 (MVN_WT01)	18:57			20:48			21:35			22:04
21	08:38		09:05 (RHR_WT03)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48			05:30
	17:16	7	09:12 (RHR_WT03)	18:11	3	08:15 (MVN_WT01)	18:59			20:50			21:37			22:04
22	08:37		09:04 (RHR_WT03)	07:47		08:10 (MVN_WT01)	06:46		07:08 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47			05:30
	17:17	8	09:12 (RHR_WT03)	18:12	3	08:13 (MVN_WT01)	19:01	1	07:09 (KLZ_WT10)	20:52	2	07:03 (SAM_WT07)	21:38			22:05
23	08:36		09:03 (RHR_WT03)	07:45			06:44		07:06 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46			05:30
	17:19	9	09:12 (RHR_WT03)	18:14			19:02	3	07:09 (KLZ_WT10)	20:53	4	07:03 (SAM_WT07)	21:40			22:05
24	08:35		09:02 (RHR_WT03)	07:43		08:06 (MXS_WT01)	06:41		07:04 (KLZ_WT10)	06:34		06:57 (SAM_WT07)	05:44			05:31
	17:21	10	09:12 (RHR_WT03)	18:16	2	08:08 (MXS_WT01)	19:04	5	07:09 (KLZ_WT10)	20:55	5	07:02 (SAM_WT07)	21:41			22:05
25	08:34		09:02 (RHR_WT03)	07:41		08:04 (MXS_WT01)	06:39		07:01 (KLZ_WT10)	06:32		06:55 (SAM_WT07)	05:43			05:31
	17:22	8	09:10 (RHR_WT03)	18:18	2	08:06 (MXS_WT01)	19:06	6	07:07 (KLZ_WT10)	20:57	6	07:01 (SAM_WT07)	21:42			22:05
26	08:32		08:59 (RHR_WT02)	07:39			06:37		07:02 (KLZ_WT10)	06:30		06:53 (SAM_WT07)	05:42			05:31
	17:24	4	09:08 (RHR_WT03)	18:20			19:07	2	07:04 (KLZ_WT10)	20:58	7	07:00 (SAM_WT07)	21:43			22:05
27	08:31		08:57 (RHR_WT02)	07:36			06:35		06:57 (KLZ_WT11)	06:28			05:41			05:32
	17:26	3	09:00 (RHR_WT02)	18:21			19:09	1	06:58 (KLZ_WT11)	21:00			21:45			22:05
28	08:30		08:56 (RHR_WT02)	07:34			06:32		06:55 (KLZ_WT11)	06:26			05:40			05:32
	17:28	4	09:00 (RHR_WT02)	18:23			19:10	2	06:57 (KLZ_WT11)	21:01			21:46			22:05
29	08:28		08:54 (RHR_WT02)				07:30		07:52 (CBR_WT01)	06:24			05:39			05:33
	17:29	4	08:58 (RHR_WT02)				20:12	3	07:55 (CBR_WT01)	21:03			21:47			22:05
30	08:27						07:28		07:50 (CBR_WT01)	06:22			05:38			05:33
	17:31						20:14	6	07:56 (CBR_WT01)	21:05			21:48			22:04
31	08:26						07:26		07:48 (CBR_WT01)				05:37			
	17:33						20:15	8	07:56 (CBR_WT01)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		779			33			139			58			18		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,65			0,56			0,58			0,64			0,69		
Total reduction		0,16			0,16			0,21			0,29			0,31		
Total, real		122			5			30			17			5		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July		August			September			October			November			December		
1	05:34		06:09			06:57			07:45		08:24 (KLZ_WT08)	07:37		08:04 (RHR_WT01)	08:26		08:57 (ALB_WT01)
	22:04		21:34			20:33			19:25	6	08:30 (KLZ_WT08)	17:21	6	08:10 (RHR_WT01)	16:42	42	13:04 (KLZ_WT16)
2	05:35		06:11			06:59			07:46		08:22 (KLZ_WT08)	07:38		08:06 (RHR_WT01)	08:27		08:59 (ALB_WT01)
	22:04		21:32			20:31			19:23	10	08:32 (KLZ_WT08)	17:19	5	08:11 (RHR_WT01)	16:42	43	13:06 (KLZ_WT16)
3	05:35		06:12		06:40 (SAM_WT06)	07:00			07:48		08:20 (KLZ_WT08)	07:40		08:08 (RHR_WT01)	08:29		09:00 (ALB_WT01)
	22:04		21:30	5	06:45 (SAM_WT06)	20:29			19:21	13	08:33 (KLZ_WT08)	17:18	4	08:12 (RHR_WT01)	16:41	43	13:07 (KLZ_WT16)
4	05:36		06:14		06:41 (SAM_WT06)	07:02			07:49		08:19 (KLZ_WT08)	07:42		08:09 (RHR_WT01)	08:30		09:02 (ALB_WT01)
	22:03		21:29	4	06:45 (SAM_WT06)	20:27			19:19	14	08:33 (KLZ_WT08)	17:16	3	08:12 (RHR_WT01)	16:40	43	13:08 (KLZ_WT16)
5	05:37		06:15		06:43 (SAM_WT06)	07:03			07:51		08:19 (KLZ_WT08)	07:44		08:11 (RHR_WT01)	08:31		09:03 (ALB_WT01)
	22:03		21:27	4	06:47 (SAM_WT06)	20:24			19:17	15	08:34 (KLZ_WT08)	17:14	1	08:12 (RHR_WT01)	16:40	44	13:09 (KLZ_WT16)
6	05:38		06:17		06:44 (SAM_WT06)	07:05			07:53		08:18 (KLZ_WT08)	07:45			08:33		09:04 (ALB_WT01)
	22:02		21:25	3	06:47 (SAM_WT06)	20:22			19:14	15	08:33 (KLZ_WT08)	17:12			16:40	44	13:10 (KLZ_WT16)
7	05:38		06:18		06:46 (SAM_WT06)	07:07			07:54		08:19 (KLZ_WT08)	07:47			08:34		12:27 (KLZ_WT16)
	22:02		21:24	1	06:47 (SAM_WT06)	20:20			19:12	13	08:32 (KLZ_WT08)	17:11			16:39	44	13:11 (KLZ_WT16)
8	05:39		06:20			07:08		07:40 (CBR_WT01)	07:56		08:21 (KLZ_WT08)	07:49			08:35		12:27 (KLZ_WT16)
	22:01		21:22			20:18	4	07:44 (CBR_WT01)	19:10	11	08:32 (KLZ_WT08)	17:09			16:39	45	13:12 (KLZ_WT16)
9	05:40		06:21			07:10		07:38 (CBR_WT01)	07:58		08:22 (KLZ_WT08)	07:51			08:36		12:27 (KLZ_WT16)
	22:00		21:20			20:15	9	07:47 (CBR_WT01)	19:08	7	08:29 (KLZ_WT08)	17:08			16:39	46	13:13 (KLZ_WT16)
10	05:41		06:23			07:11		07:36 (CBR_WT01)	07:59		08:24 (KLZ_WT08)	07:52			08:37		12:27 (KLZ_WT16)
	22:00		21:18			20:13	11	07:47 (CBR_WT01)	19:05	2	08:26 (KLZ_WT08)	17:06			16:38	46	13:13 (KLZ_WT16)
11	05:42		06:24			07:13		07:38 (CBR_WT01)	08:01			07:54			08:38		12:27 (KLZ_WT16)
	21:59		21:16			20:11	10	07:48 (CBR_WT01)	19:03			17:04			16:38	47	13:14 (KLZ_WT16)
12	05:43		06:26			07:14		07:39 (CBR_WT01)	08:02			07:56			08:39		12:27 (KLZ_WT16)
	21:58		21:14			20:09	8	07:47 (CBR_WT01)	19:01			17:03			16:38	48	13:15 (KLZ_WT16)
13	05:44		06:27			07:16		07:41 (CBR_WT01)	08:04			07:57		08:26 (RHR_WT02)	08:40		12:27 (KLZ_WT16)
	21:57		21:13			20:06	6	07:47 (CBR_WT01)	18:59			17:01	4	08:30 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
14	05:45		06:29			07:18		07:42 (CBR_WT01)	08:06			07:59		08:28 (RHR_WT02)	08:41		12:27 (KLZ_WT16)
	21:56		21:11			20:04	4	07:46 (CBR_WT01)	18:57			17:00	4	08:32 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
15	05:47		06:31			07:19		07:44 (KLZ_WT11)	08:07			08:01		08:30 (RHR_WT02)	08:42		12:28 (KLZ_WT16)
	21:56		21:09			20:02	1	07:45 (KLZ_WT11)	18:55			16:59	3	08:33 (RHR_WT02)	16:38	49	13:17 (KLZ_WT16)
16	05:48		06:32		07:02 (SAM_WT07)	07:21		07:45 (KLZ_WT11)	08:09		08:35 (MXS_WT01)	08:03		08:32 (RHR_WT02)	08:43		12:28 (KLZ_WT16)
	21:55		21:07	3	07:05 (SAM_WT07)	20:00	2	07:47 (KLZ_WT11)	18:53	2	08:37 (MXS_WT01)	16:57	6	08:42 (RHR_WT03)	16:38	50	13:18 (KLZ_WT16)
17	05:49		06:34		07:00 (SAM_WT07)	07:22			08:11		08:36 (MXS_WT01)	08:04		08:36 (RHR_WT03)	08:44		12:29 (KLZ_WT16)
	21:54		21:05	7	07:07 (SAM_WT07)	19:57			18:50	2	08:38 (MXS_WT01)	16:56	8	08:44 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
18	05:50		06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT10)	08:13		08:38 (MXS_WT01)	08:06		08:36 (RHR_WT03)	08:45		12:28 (KLZ_WT16)
	21:53		21:03	6	07:08 (SAM_WT07)	19:55	6	07:55 (KLZ_WT10)	18:48	1	08:39 (MXS_WT01)	16:55	10	08:46 (RHR_WT03)	16:39	50	13:18 (KLZ_WT16)
19	05:51		06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT10)	08:14			08:08		08:37 (RHR_WT03)	08:45		12:29 (KLZ_WT16)
	21:51		21:01	5	07:08 (SAM_WT07)	19:53	5	07:55 (KLZ_WT10)	18:46			16:54	9	08:46 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
20	05:53		06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT10)	08:16		08:42 (MVN_WT01)	08:09		08:39 (RHR_WT03)	08:46		12:30 (KLZ_WT16)
	21:50		20:59	4	07:09 (SAM_WT07)	19:50	3	07:55 (KLZ_WT10)	18:44	4	08:46 (MVN_WT01)	16:52	8	08:47 (RHR_WT03)	16:39	50	13:20 (KLZ_WT16)
21	05:54		06:40		07:06 (SAM_WT07)	07:29		07:53 (KLZ_WT10)	08:18		08:43 (MVN_WT01)	08:11		08:41 (RHR_WT03)	08:47		12:30 (KLZ_WT16)
	21:49		20:57	2	07:08 (SAM_WT07)	19:48	1	07:54 (KLZ_WT10)	18:42	3	08:46 (MVN_WT01)	16:51	7	08:48 (RHR_WT03)	16:40	50	13:20 (KLZ_WT16)
22	05:55		06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (RHR_WT03)	08:47		12:31 (KLZ_WT16)
	21:48		20:55			19:46			18:40	1	08:46 (MVN_WT01)	16:50	11	08:58 (ALB_WT01)	16:40	50	13:21 (KLZ_WT16)
23	05:56		06:43			07:32			08:21			08:14		08:44 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:47		20:53			19:44			18:38			16:49	13	08:59 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
24	05:58		06:45			07:33			08:23			08:16		08:46 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:45		20:50			19:41			18:36			16:48	13	09:00 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
25	05:59		06:46			07:35			07:24			08:17		08:48 (RHR_WT03)	08:48		12:32 (KLZ_WT16)
	21:44		20:48			19:39			17:34			16:47	15	12:47 (KLZ_WT16)	16:42	50	13:22 (KLZ_WT16)
26	06:01		06:48			07:37			07:26			08:19		08:50 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:43		20:46			19:37			17:32			16:46	29	12:53 (KLZ_WT16)	16:43	50	13:23 (KLZ_WT16)
27	06:02		06:49			07:38			07:28			08:20		08:51 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:41		20:44			19:35			17:30			16:45	35	12:57 (KLZ_WT16)	16:44	50	13:23 (KLZ_WT16)
28	06:03		06:51			07:40			07:30			08:22		08:53 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:40		20:42			19:32			17:28			16:44	37	12:59 (KLZ_WT16)	16:44	49	13:23 (KLZ_WT16)
29	06:05		06:52			07:41			07:31			08:23		08:54 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:38		20:40			19:30			17:27			16:44	39	13:01 (KLZ_WT16)	16:45	49	13:23 (KLZ_WT16)
30	06:06		06:54			07:43			07:33			08:25		08:56 (ALB_WT01)	08:50		12:35 (KLZ_WT16)
	21:37		20:38			19:28			17:25			16:43	41	13:03 (KLZ_WT16)	16:46	48	13:23 (KLZ_WT16)
31	06:08		06:56						07:35						08:50		12:36 (KLZ_WT16)
	21:35		20:35						17:23						16:47	48	13:24 (KLZ_WT16)
Potential sun hours	498		451			380			333			269			248		
Total, worst case				44			70			119			311			1476	
Sun reduction				0,47			0,43			0,36			0,27			0,23	
Oper. time red.				0,97			0,97			0,97			0,97			0,97	
Wind dir. red.				0,67			0,62			0,56			0,60			0,68	
Total reduction				0,30			0,26			0,20			0,16			0,15	
Total, real				13			18			24			49			220	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B

Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (RHR_WT03)	08:24		08:50 (RHR_WT01)	07:32		08:12 (KLZ_WT08)	07:23		07:46 (SAM_WT05)	06:20		18:40 (KLZ_WT15)	05:37		18:43 (KLZ_WT15)
	16:48	55	15:34 (KLZ_WT16)	17:35	7	08:57 (RHR_WT01)	18:25	17	08:29 (KLZ_WT08)	20:17	15	08:01 (CBR_WT01)	21:06	75	19:55 (KLZ_WT15)	21:51	75	19:58 (KLZ_WT15)
2	08:50		09:20 (RHR_WT03)	08:23		08:48 (RHR_WT01)	07:30		08:13 (KLZ_WT08)	07:21		07:47 (CBR_WT01)	06:18		18:40 (KLZ_WT15)	05:36		18:45 (KLZ_WT15)
	16:49	52	15:35 (KLZ_WT16)	17:37	8	08:56 (RHR_WT01)	18:27	15	08:28 (KLZ_WT08)	20:19	12	07:59 (CBR_WT01)	21:08	76	19:56 (KLZ_WT15)	21:52	73	19:58 (KLZ_WT15)
3	08:49		09:20 (RHR_WT03)	08:21		08:47 (RHR_WT01)	07:28		08:14 (KLZ_WT08)	07:19		07:48 (CBR_WT01)	06:17		18:40 (KLZ_WT15)	05:35		18:45 (KLZ_WT15)
	16:50	52	15:35 (KLZ_WT16)	17:38	8	08:55 (RHR_WT01)	18:28	12	08:26 (KLZ_WT08)	20:20	9	07:57 (CBR_WT01)	21:10	77	19:57 (KLZ_WT15)	21:53	73	19:58 (KLZ_WT15)
4	08:49		09:19 (RHR_WT03)	08:19			07:26		08:17 (KLZ_WT08)	07:17			06:15		18:39 (KLZ_WT15)	05:34		18:45 (KLZ_WT15)
	16:51	52	15:35 (KLZ_WT16)	17:40			18:30	6	08:23 (KLZ_WT08)	20:22			21:11	78	19:57 (KLZ_WT15)	21:54	72	19:57 (KLZ_WT15)
5	08:49		09:19 (RHR_WT03)	08:18			07:24			07:14			06:13		18:38 (KLZ_WT15)	05:34		18:46 (KLZ_WT15)
	16:53	53	15:36 (KLZ_WT16)	17:42			18:32			20:24			21:13	79	19:57 (KLZ_WT15)	21:55	72	19:58 (KLZ_WT15)
6	08:49		09:18 (RHR_WT03)	08:16			07:21			07:12			06:11		18:39 (KLZ_WT15)	05:33		18:46 (KLZ_WT15)
	16:54	53	15:35 (KLZ_WT16)	17:44			18:33			20:25			21:14	79	19:58 (KLZ_WT15)	21:56	71	19:57 (KLZ_WT15)
7	08:48		09:18 (RHR_WT03)	08:15			07:19			07:10			06:09		18:38 (KLZ_WT15)	05:32		18:47 (KLZ_WT15)
	16:55	54	15:36 (KLZ_WT16)	17:46			18:35			20:27			21:16	80	19:58 (KLZ_WT15)	21:56	71	19:58 (KLZ_WT15)
8	08:48		09:17 (RHR_WT03)	08:13			07:17			07:08			06:08		06:32 (SAM_WT06)	05:32		18:48 (KLZ_WT15)
	16:56	54	15:36 (KLZ_WT16)	17:47			18:37			20:29			21:17	81	19:57 (KLZ_WT15)	21:57	70	19:58 (KLZ_WT15)
9	08:48		09:17 (RHR_WT03)	08:11			07:15			07:06		07:28 (SAM_WT04)	06:06		06:31 (SAM_WT06)	05:31		18:47 (KLZ_WT15)
	16:58	55	15:37 (KLZ_WT16)	17:49			18:39			20:30	1	07:29 (SAM_WT04)	21:19	83	19:58 (KLZ_WT15)	21:58	71	19:58 (KLZ_WT15)
10	08:47		09:17 (RHR_WT03)	08:09			07:13			07:03			06:04		06:29 (SAM_WT06)	05:31		18:48 (KLZ_WT15)
	16:59	55	15:37 (KLZ_WT16)	17:51			18:40			20:32			21:21	86	19:58 (KLZ_WT15)	21:59	70	19:58 (KLZ_WT15)
11	08:46		09:18 (RHR_WT03)	08:08			07:11			07:01			06:03		06:28 (SAM_WT06)	05:31		18:49 (KLZ_WT15)
	17:00	52	15:37 (KLZ_WT16)	17:53			18:42			20:34			21:22	86	19:58 (KLZ_WT15)	22:00	69	19:58 (KLZ_WT15)
12	08:46		09:20 (RHR_WT03)	08:06			07:08			06:59			06:01		06:26 (SAM_WT06)	05:30		18:48 (KLZ_WT15)
	17:02	49	15:37 (KLZ_WT16)	17:55			18:44			20:35			21:24	88	19:58 (KLZ_WT15)	22:00	70	19:58 (KLZ_WT15)
13	08:45		09:21 (RHR_WT03)	08:04			07:06			06:57		19:17 (KLZ_WT15)	06:00		06:25 (SAM_WT06)	05:30		18:49 (KLZ_WT15)
	17:03	46	15:37 (KLZ_WT16)	17:56			18:45			20:37	7	19:24 (KLZ_WT15)	21:25	87	19:58 (KLZ_WT15)	22:01	69	19:58 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02			07:04			06:55		19:09 (KLZ_WT15)	05:58		06:25 (SAM_WT06)	05:30		18:50 (KLZ_WT15)
	17:05	44	15:37 (KLZ_WT16)	17:58			18:47			20:38	23	19:32 (KLZ_WT15)	21:27	86	19:58 (KLZ_WT15)	22:02	68	19:58 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00		08:24 (MVN_WT01)	07:02			06:53		19:05 (KLZ_WT15)	05:56		18:38 (KLZ_WT15)	05:30		18:50 (KLZ_WT15)
	17:06	40	15:37 (KLZ_WT16)	18:00	2	08:26 (MVN_WT01)	18:49			20:40	31	19:36 (KLZ_WT15)	21:28	80	19:58 (KLZ_WT15)	22:02	68	19:58 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58		08:22 (MVN_WT01)	06:59			06:50		07:13 (SAM_WT11)	05:55		18:38 (KLZ_WT15)	05:30		18:50 (KLZ_WT15)
	17:08	40	15:37 (KLZ_WT16)	18:02	3	08:25 (MVN_WT01)	18:50			20:42	37	19:38 (KLZ_WT15)	21:30	81	19:59 (KLZ_WT15)	22:03	68	19:58 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:57		08:20 (MVN_WT01)	06:57			06:48		07:11 (SAM_WT11)	05:54		18:38 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:09	40	15:37 (KLZ_WT16)	18:04	5	08:25 (MVN_WT01)	18:52			20:43	44	19:41 (KLZ_WT15)	21:31	80	19:58 (KLZ_WT15)	22:03	68	19:59 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55		08:18 (MVN_WT01)	06:55		07:17 (KLZ_WT10)	06:46		07:09 (SAM_WT11)	05:52		18:38 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:11	40	15:37 (KLZ_WT16)	18:05	5	08:23 (MVN_WT01)	18:54	2	07:19 (KLZ_WT10)	20:45	48	19:43 (KLZ_WT15)	21:33	80	19:58 (KLZ_WT15)	22:03	68	19:59 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53		08:16 (MXS_WT01)	06:53		07:15 (KLZ_WT10)	06:44		18:55 (KLZ_WT15)	05:51		18:39 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:12	39	15:36 (KLZ_WT16)	18:07	5	08:21 (MXS_WT01)	18:56	5	07:20 (KLZ_WT10)	20:47	49	19:44 (KLZ_WT15)	21:34	80	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51		08:16 (MXS_WT01)	06:50		07:13 (KLZ_WT10)	06:42		18:53 (KLZ_WT15)	05:49		18:39 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:14	37	15:36 (KLZ_WT16)	18:09	9	08:25 (KLZ_WT08)	18:57	7	07:20 (KLZ_WT10)	20:48	53	19:46 (KLZ_WT15)	21:35	80	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
21	08:38		09:07 (RHR_WT02)	07:49		08:16 (KLZ_WT08)	06:48		07:10 (KLZ_WT10)	06:40		18:51 (KLZ_WT15)	05:48		18:40 (KLZ_WT15)	05:30		18:51 (KLZ_WT15)
	17:16	34	15:35 (KLZ_WT16)	18:11	11	08:27 (KLZ_WT08)	18:59	9	07:19 (KLZ_WT10)	20:50	56	19:47 (KLZ_WT15)	21:37	79	19:59 (KLZ_WT15)	22:04	68	19:59 (KLZ_WT15)
22	08:37		15:07 (KLZ_WT16)	07:47		08:15 (KLZ_WT08)	06:46		07:09 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		18:39 (KLZ_WT15)	05:30		18:52 (KLZ_WT15)
	17:17	27	15:34 (KLZ_WT16)	18:12	14	08:29 (KLZ_WT08)	19:01	9	07:18 (KLZ_WT10)	20:52	61	19:49 (KLZ_WT15)	21:38	79	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
23	08:36		15:09 (KLZ_WT16)	07:45		08:13 (KLZ_WT08)	06:44		07:06 (KLZ_WT11)	06:36		06:59 (SAM_WT07)	05:46		18:40 (KLZ_WT15)	05:30		18:52 (KLZ_WT15)
	17:19	24	15:33 (KLZ_WT16)	18:14	17	08:30 (KLZ_WT08)	19:02	8	07:17 (KLZ_WT10)	20:53	65	19:50 (KLZ_WT15)	21:40	78	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
24	08:35		15:12 (KLZ_WT16)	07:43		08:13 (KLZ_WT08)	06:41		07:04 (KLZ_WT11)	06:34		06:57 (SAM_WT07)	05:44		18:40 (KLZ_WT15)	05:31		18:52 (KLZ_WT15)
	17:21	20	15:32 (KLZ_WT16)	18:16	18	08:31 (KLZ_WT08)	19:04	3	07:07 (KLZ_WT11)	20:55	69	19:51 (KLZ_WT15)	21:41	78	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
25	08:34		15:14 (KLZ_WT16)	07:41		08:12 (KLZ_WT08)	06:39		07:01 (KLZ_WT11)	06:32		06:55 (SAM_WT07)	05:43		18:40 (KLZ_WT15)	05:31		18:53 (KLZ_WT15)
	17:22	16	15:30 (KLZ_WT16)	18:18	19	08:31 (KLZ_WT08)	19:05	5	07:06 (KLZ_WT11)	20:57	73	19:51 (KLZ_WT15)	21:42	78	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
26	08:32		15:19 (KLZ_WT16)	07:39		08:12 (KLZ_WT08)	06:37		06:59 (KLZ_WT11)	06:30		06:53 (SAM_WT07)	05:42		18:41 (KLZ_WT15)	05:31		18:52 (KLZ_WT15)
	17:24	8	15:27 (KLZ_WT16)	18:20	19	08:31 (KLZ_WT08)	19:07	5	07:04 (KLZ_WT11)	20:58	76	19:52 (KLZ_WT15)	21:43	77	19:58 (KLZ_WT15)	22:05	68	20:00 (KLZ_WT15)
27	08:31			07:36		08:12 (KLZ_WT08)	06:35		06:57 (CBR_WT01)	06:28		06:51 (SAM_WT07)	05:41		18:41 (KLZ_WT15)	05:32		18:53 (KLZ_WT15)
	17:26			18:21	19	08:31 (KLZ_WT08)	19:09	4	07:01 (CBR_WT01)	21:00	79	19:53 (KLZ_WT15)	21:45	77	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
28	08:30		08:56 (RHR_WT01)	07:34		08:11 (KLZ_WT08)	06:32		06:55 (CBR_WT01)	06:26		06:51 (SAM_WT07)	05:40		18:42 (KLZ_WT15)	05:32		18:53 (KLZ_WT15)
	17:28	1	08:57 (RHR_WT01)	18:23	19	08:30 (KLZ_WT08)	19:10	7	07:02 (CBR_WT01)	21:01	80	19:54 (KLZ_WT15)	21:46	76	19:58 (KLZ_WT15)	22:05	68	20:01 (KLZ_WT15)
29	08:28		08:54 (MVZ_WT01)				07:30		07:52 (CBR_WT01)	06:24		06:53 (SAM_WT07)	05:39		18:43 (KLZ_WT15)	05:33		18:53 (KLZ_WT15)
	17:29	3	08:57 (RHR_WT01)				20:12	9	08:01 (CBR_WT01)	21:03	78	19:55 (KLZ_WT15)	21:47	75	19:58 (KLZ_WT15)	22:05	69	20:02 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		07:50 (CBR_WT01)	06:22		18:41 (KLZ_WT15)	05:38		18:43 (KLZ_WT15)	05:33		18:53 (KLZ_WT15)
	17:31	5	08:58 (RHR_WT01)				20:14	11	08:01 (CBR_WT01)	21:05	74	19:55 (KLZ_WT15)	21:48	75	19:58 (KLZ_WT15)	22:04	69	20:02 (KLZ_WT15)
31	08:26		08:51 (RHR_WT01)				07:26		07:48 (CBR_WT01)				05:37		18:43 (KLZ_WT15)			
	17:33	6	08:57 (RHR_WT01)				20:15	13	08:01 (CBR_WT01)				21:49	75	19:58 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1106			188			147			1040			2469			2084	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,56			0,59			0,59			0,59			0,59	
Total reduction		0,17			0,16			0,22			0,27			0,26			0,25	
Total, real		186			31			32			279			650			531	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Ref B Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		18:53 (KLZ_WT15)	06:09		06:37 (SAM_WT06)	06:57			07:44			07:37			08:26		09:00 (RHR_WT03)
	22:04	69	20:02 (KLZ_WT15)	21:34	86	20:08 (KLZ_WT15)	20:33			19:25			17:21			16:42	52	15:19 (KLZ_WT16)
2	05:35		18:52 (KLZ_WT15)	06:11		06:39 (SAM_WT06)	06:59			07:46			07:38			08:27		09:00 (RHR_WT03)
	22:04	70	20:02 (KLZ_WT15)	21:32	86	20:09 (KLZ_WT15)	20:31			19:23			17:19			16:42	55	15:20 (KLZ_WT16)
3	05:35		18:53 (KLZ_WT15)	06:12		06:40 (SAM_WT06)	07:00		07:26 (SAM_WT04)	07:48			07:40			08:29		09:00 (RHR_WT03)
	22:04	70	20:03 (KLZ_WT15)	21:30	84	20:08 (KLZ_WT15)	20:29	1	07:27 (SAM_WT04)	19:21			17:17			16:41	55	15:20 (KLZ_WT16)
4	05:36		18:53 (KLZ_WT15)	06:14		06:41 (SAM_WT06)	07:02			07:49			07:42			08:30		09:02 (RHR_WT03)
	22:03	70	20:03 (KLZ_WT15)	21:29	83	20:07 (KLZ_WT15)	20:27			19:19			17:16			16:40	54	15:21 (KLZ_WT16)
5	05:37		18:53 (KLZ_WT15)	06:15		06:43 (SAM_WT06)	07:03			07:51			07:44			08:31		09:03 (RHR_WT03)
	22:03	71	20:04 (KLZ_WT15)	21:27	81	20:08 (KLZ_WT15)	20:24			19:16			17:14			16:40	54	15:21 (KLZ_WT16)
6	05:38		18:52 (KLZ_WT15)	06:17		18:48 (KLZ_WT15)	07:05			07:53			07:45			08:33		09:04 (RHR_WT03)
	22:02	72	20:04 (KLZ_WT15)	21:25	79	20:07 (KLZ_WT15)	20:22			19:14			17:12			16:40	53	15:21 (KLZ_WT16)
7	05:38		18:52 (KLZ_WT15)	06:18		18:48 (KLZ_WT15)	07:07			07:54			07:47			08:34		09:06 (RHR_WT03)
	22:02	72	20:04 (KLZ_WT15)	21:24	79	20:07 (KLZ_WT15)	20:20			19:12			17:11			16:39	53	15:23 (KLZ_WT16)
8	05:39		18:52 (KLZ_WT15)	06:20		18:48 (KLZ_WT15)	07:08			07:56			07:49		08:18 (RHR_WT01)	08:35		09:07 (RHR_WT03)
	22:01	73	20:05 (KLZ_WT15)	21:22	78	20:06 (KLZ_WT15)	20:18			19:10			17:09	8	08:26 (RHR_WT01)	16:39	53	15:23 (KLZ_WT16)
9	05:40		18:52 (KLZ_WT15)	06:21		18:49 (KLZ_WT15)	07:10		07:43 (CBR_WT01)	07:58			07:50		08:19 (RHR_WT01)	08:36		09:08 (RHR_WT03)
	22:00	73	20:05 (KLZ_WT15)	21:20	77	20:06 (KLZ_WT15)	20:15	8	07:51 (CBR_WT01)	19:08			17:07	8	08:27 (RHR_WT01)	16:39	52	15:23 (KLZ_WT16)
10	05:41		18:52 (KLZ_WT15)	06:23		18:48 (KLZ_WT15)	07:11		07:40 (CBR_WT01)	07:59		08:50 (KLZ_WT08)	07:52		08:21 (RHR_WT01)	08:37		09:09 (RHR_WT03)
	22:00	73	20:05 (KLZ_WT15)	21:18	77	20:05 (KLZ_WT15)	20:13	12	07:52 (CBR_WT01)	19:05	9	08:59 (KLZ_WT08)	17:06	7	08:28 (RHR_WT01)	16:38	52	15:24 (KLZ_WT16)
11	05:42		18:52 (KLZ_WT15)	06:24		18:49 (KLZ_WT15)	07:13		07:38 (SAM_WT05)	08:01		08:48 (KLZ_WT08)	07:54		08:23 (RHR_WT01)	08:38		09:10 (RHR_WT03)
	21:59	74	20:06 (KLZ_WT15)	21:16	76	20:05 (KLZ_WT15)	20:11	15	07:53 (CBR_WT01)	19:03	13	09:01 (KLZ_WT08)	17:04	6	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
12	05:43		18:52 (KLZ_WT15)	06:26		18:49 (KLZ_WT15)	07:14		07:39 (CBR_WT01)	08:02		08:47 (KLZ_WT08)	07:56		08:24 (MVZ_WT01)	08:39		09:11 (RHR_WT03)
	21:58	74	20:06 (KLZ_WT15)	21:14	75	20:04 (KLZ_WT15)	20:09	13	07:52 (CBR_WT01)	19:01	15	09:02 (KLZ_WT08)	17:03	5	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
13	05:44		18:52 (KLZ_WT15)	06:27		18:49 (KLZ_WT15)	07:16		07:41 (CBR_WT01)	08:04		08:45 (KLZ_WT08)	07:57		08:26 (MVZ_WT01)	08:40		09:12 (RHR_WT03)
	21:57	74	20:06 (KLZ_WT15)	21:13	74	20:03 (KLZ_WT15)	20:06	12	07:53 (CBR_WT01)	18:59	17	09:02 (KLZ_WT08)	17:01	3	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
14	05:45		18:51 (KLZ_WT15)	06:29		07:00 (SAM_WT07)	07:18		07:42 (CBR_WT01)	08:06		08:44 (KLZ_WT08)	07:59		08:28 (RHR_WT01)	08:41		09:13 (RHR_WT03)
	21:56	76	20:07 (KLZ_WT15)	21:11	78	20:02 (KLZ_WT15)	20:04	10	07:52 (CBR_WT01)	18:57	19	09:03 (KLZ_WT08)	17:00	1	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
15	05:47		18:51 (KLZ_WT15)	06:30		06:57 (SAM_WT07)	07:19		07:44 (CBR_WT01)	08:07		08:44 (KLZ_WT08)	08:01			08:42		09:14 (RHR_WT03)
	21:56	76	20:07 (KLZ_WT15)	21:09	81	20:01 (KLZ_WT15)	20:02	7	07:51 (CBR_WT01)	18:55	19	09:03 (KLZ_WT08)	16:59			16:38	57	15:26 (KLZ_WT16)
16	05:48		18:51 (KLZ_WT15)	06:32		06:59 (SAM_WT07)	07:21		07:45 (CBR_WT01)	08:09		08:44 (KLZ_WT08)	08:02		14:52 (KLZ_WT16)	08:43		09:15 (RHR_WT03)
	21:55	76	20:07 (KLZ_WT15)	21:07	78	20:00 (KLZ_WT15)	20:00	4	07:49 (CBR_WT01)	18:53	19	09:03 (KLZ_WT08)	16:57	8	15:00 (KLZ_WT16)	16:38	58	15:27 (KLZ_WT16)
17	05:49		18:51 (KLZ_WT15)	06:34		07:00 (SAM_WT07)	07:22		07:47 (KLZ_WT11)	08:11		08:44 (KLZ_WT08)	08:04		14:48 (KLZ_WT16)	08:44		09:16 (RHR_WT03)
	21:54	76	20:07 (KLZ_WT15)	21:05	76	19:59 (KLZ_WT15)	19:57	5	07:52 (KLZ_WT11)	18:50	18	09:02 (KLZ_WT08)	16:56	16	15:04 (KLZ_WT16)	16:39	58	15:27 (KLZ_WT16)
18	05:50		18:50 (KLZ_WT15)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT11)	08:12		08:44 (KLZ_WT08)	08:06		14:46 (KLZ_WT16)	08:45		09:16 (RHR_WT03)
	21:52	77	20:07 (KLZ_WT15)	21:03	72	19:58 (KLZ_WT15)	19:55	5	07:54 (KLZ_WT11)	18:48	18	09:02 (KLZ_WT08)	16:55	20	15:06 (KLZ_WT16)	16:39	57	15:27 (KLZ_WT16)
19	05:51		18:50 (KLZ_WT15)	06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT11)	08:14		08:45 (KLZ_WT08)	08:07		14:43 (KLZ_WT16)	08:45		09:17 (RHR_WT03)
	21:51	77	20:07 (KLZ_WT15)	21:01	68	19:56 (KLZ_WT15)	19:53	4	07:54 (KLZ_WT11)	18:46	16	09:01 (KLZ_WT08)	16:53	24	15:07 (KLZ_WT16)	16:39	58	15:28 (KLZ_WT16)
20	05:53		18:50 (KLZ_WT15)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT11)	08:16		08:46 (KLZ_WT08)	08:09		14:42 (KLZ_WT16)	08:46		09:18 (RHR_WT03)
	21:50	79	20:09 (KLZ_WT15)	20:59	64	19:55 (KLZ_WT15)	19:50	8	08:03 (KLZ_WT10)	18:44	14	09:00 (KLZ_WT08)	16:52	27	15:09 (KLZ_WT16)	16:39	58	15:29 (KLZ_WT16)
21	05:54		18:50 (KLZ_WT15)	06:40		18:54 (KLZ_WT15)	07:29		07:55 (KLZ_WT10)	08:18		08:48 (KLZ_WT08)	08:11		08:43 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	78	20:08 (KLZ_WT15)	20:57	59	19:53 (KLZ_WT15)	19:48	9	08:04 (KLZ_WT10)	18:42	9	08:57 (KLZ_WT08)	16:51	34	15:11 (KLZ_WT16)	16:40	58	15:29 (KLZ_WT16)
22	05:55		18:50 (KLZ_WT15)	06:41		18:56 (KLZ_WT15)	07:30		07:55 (KLZ_WT10)	08:19		08:45 (MXS_WT01)	08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	78	20:08 (KLZ_WT15)	20:55	56	19:52 (KLZ_WT15)	19:46	10	08:05 (KLZ_WT10)	18:40	5	08:50 (MXS_WT01)	16:50	37	15:12 (KLZ_WT16)	16:40	58	15:30 (KLZ_WT16)
23	05:56		18:49 (KLZ_WT15)	06:43		18:57 (KLZ_WT15)	07:32		07:56 (KLZ_WT10)	08:21		08:47 (MXS_WT01)	08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	79	20:08 (KLZ_WT15)	20:53	52	19:49 (KLZ_WT15)	19:44	8	08:04 (KLZ_WT10)	18:38	5	08:52 (MXS_WT01)	16:49	39	15:12 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
24	05:58		18:50 (KLZ_WT15)	06:45		18:59 (KLZ_WT15)	07:33		07:58 (KLZ_WT10)	08:23		08:49 (MVN_WT01)	08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	79	20:09 (KLZ_WT15)	20:50	49	19:48 (KLZ_WT15)	19:41	6	08:04 (KLZ_WT10)	18:36	5	08:54 (MVN_WT01)	16:48	40	15:14 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
25	05:59		18:49 (KLZ_WT15)	06:46		07:12 (SAM_WT11)	07:35		08:00 (KLZ_WT10)	07:24		07:51 (MVN_WT01)	08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	80	20:09 (KLZ_WT15)	20:48	47	19:45 (KLZ_WT15)	19:39	3	08:03 (KLZ_WT10)	17:34	5	07:56 (MVN_WT01)	16:47	40	15:15 (KLZ_WT16)	16:42	58	15:31 (KLZ_WT16)
26	06:01		18:49 (KLZ_WT15)	06:48		07:14 (SAM_WT11)	07:36			07:26		07:53 (MVN_WT01)	08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	80	20:09 (KLZ_WT15)	20:46	43	19:43 (KLZ_WT15)	19:37			17:32	3	07:56 (MVN_WT01)	16:46	40	15:15 (KLZ_WT16)	16:43	58	15:31 (KLZ_WT16)
27	06:02		18:48 (KLZ_WT15)	06:49		07:15 (SAM_WT11)	07:38			07:28		07:54 (MVN_WT01)	08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	80	20:08 (KLZ_WT15)	20:44	37	19:40 (KLZ_WT15)	19:35			17:30	1	07:55 (MVN_WT01)	16:45	40	15:16 (KLZ_WT16)	16:43	58	15:32 (KLZ_WT16)
28	06:03		18:49 (KLZ_WT15)	06:51		19:07 (KLZ_WT15)	07:40			07:30			08:22		08:53 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:40	80	20:09 (KLZ_WT15)	20:42	30	19:37 (KLZ_WT15)	19:32			17:28			16:44	42	15:17 (KLZ_WT16)	16:44	57	15:32 (KLZ_WT16)
29	06:05		18:48 (KLZ_WT15)	06:52		19:10 (KLZ_WT15)	07:41			07:31			08:23		09:01 (RHR_WT03)	08:49		09:20 (RHR_WT03)
	21:38	81	20:09 (KLZ_WT15)	20:40	22	19:32 (KLZ_WT15)	19:30			17:27			16:44	46	15:17 (KLZ_WT16)	16:45	57	15:32 (KLZ_WT16)
30	06:06		06:35 (SAM_WT06)	06:54		19:19 (KLZ_WT15)	07:43			07:33			08:25		09:01 (RHR_WT03)	08:50		09:20 (RHR_WT03)
	21:37	86	20:08 (KLZ_WT15)	20:38	5	19:24 (KLZ_WT15)	19:28			17:25			16:43	50	15:19 (KLZ_WT16)	16:46	56	15:33 (KLZ_WT16)
31	06:08		06:36 (SAM_WT06)	06:56						07:35						08:50		09:20 (RHR_WT03)
	21:35	88	20:09 (KLZ_WT15)	20:35						17:23						16:47	56	15:33 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		2361			1952			140			210			541			1733	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,59			0,59			0,62			0,56			0,70			0,68	
Total reduction		0,26			0,27			0,26			0,20			0,18			0,15	
Total, real		609			527			37			41			99			261	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

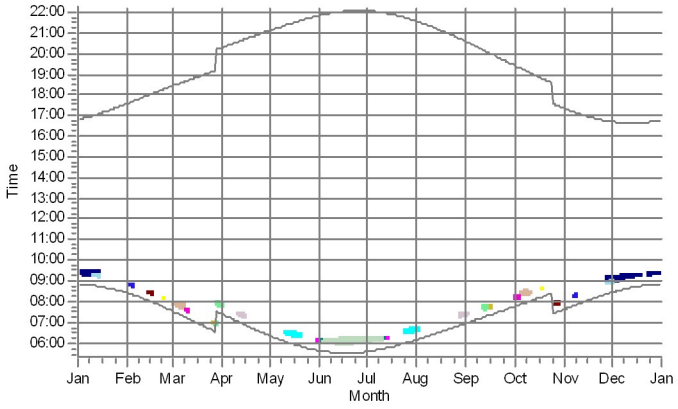
Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

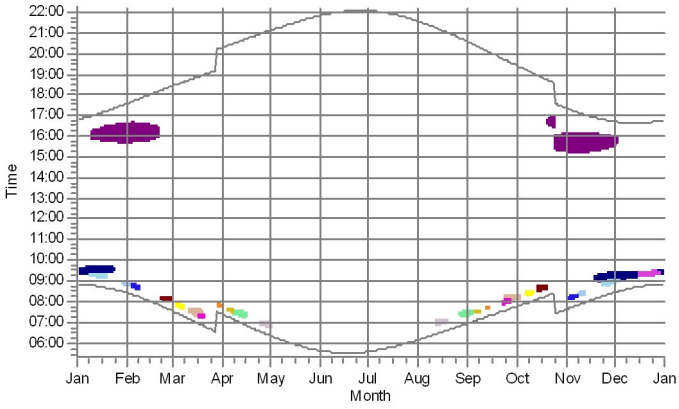
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref B

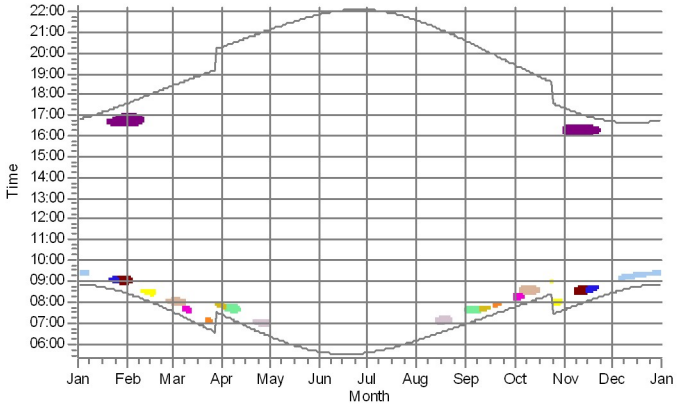
1: Hoogstraat 54, 9940 Evergem



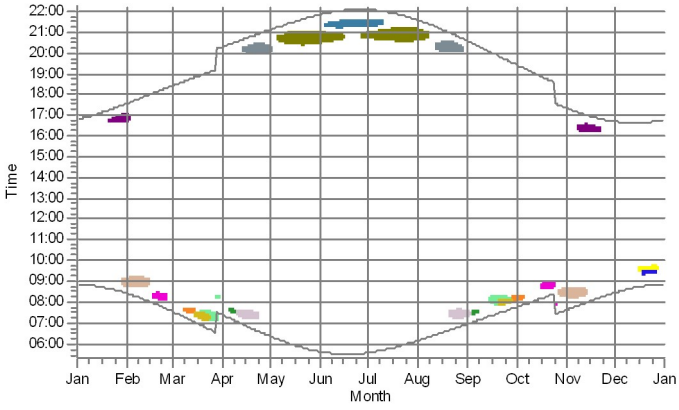
2: Pachtgoederen 2, 9940 Evergem



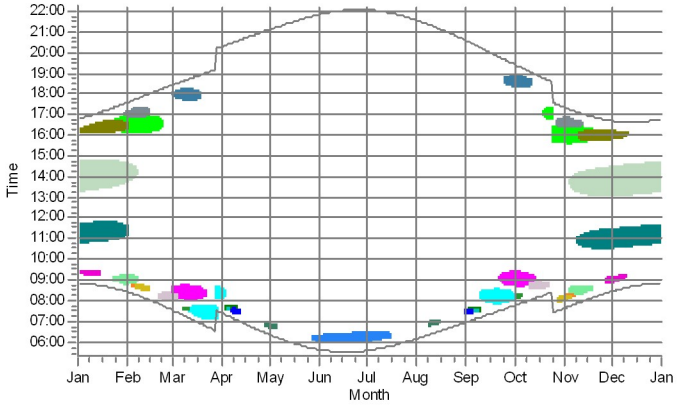
3: Pachtgoederen 2, 9940 Evergem



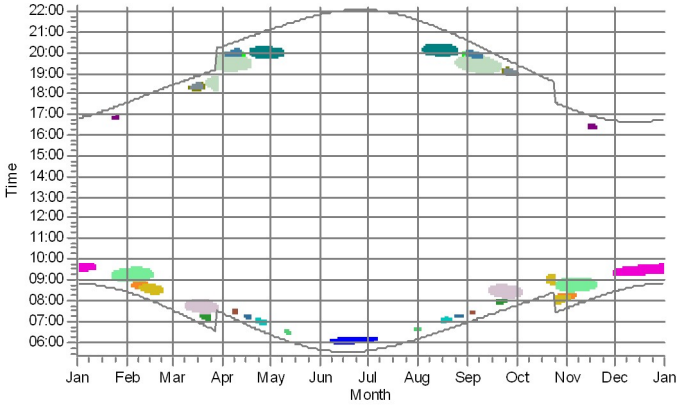
4: James Cookstraat 10, 9042 Gent



5: Pelikaanstraat 60, 9940 Evergem



6: Christoffel Columbuslaan 23, 9042 Gent



WTGs

- KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
- KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
- KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
- KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
- KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
- KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
- KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
- SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
- SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
- SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
- EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
- TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)
- SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!

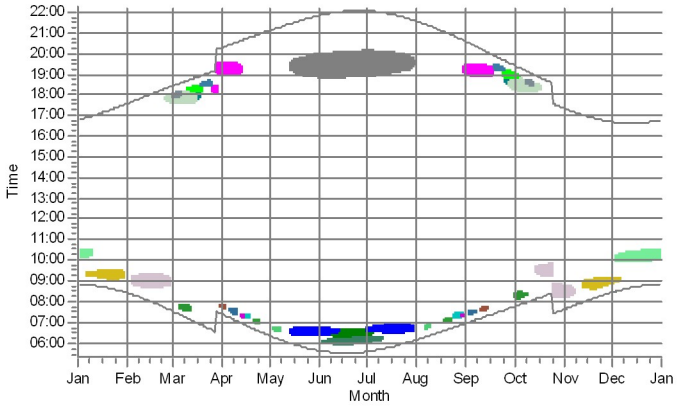
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08/04/2026 22:17/4.1.264

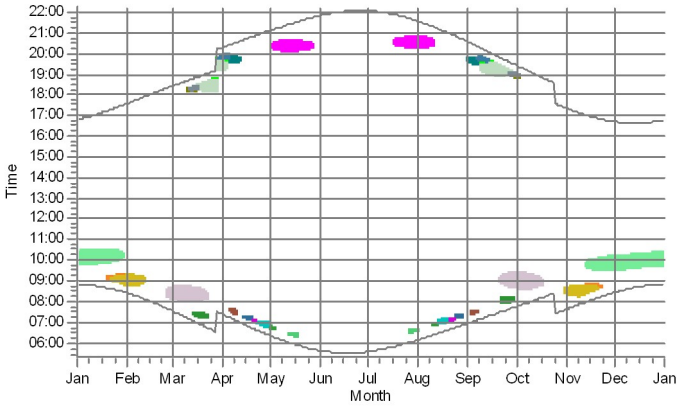
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref B

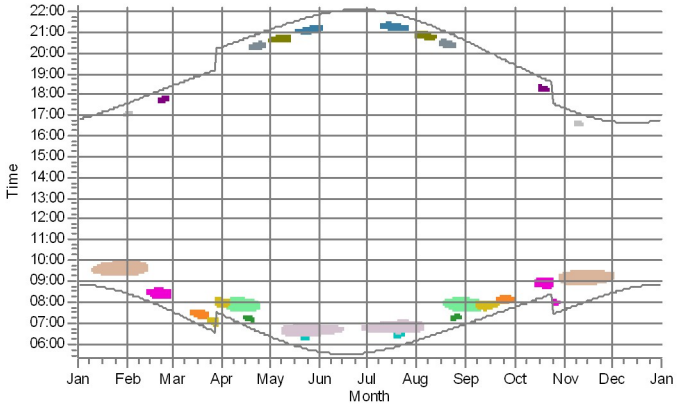
7: Christoffel Columbuslaan 23, 9042 Gent



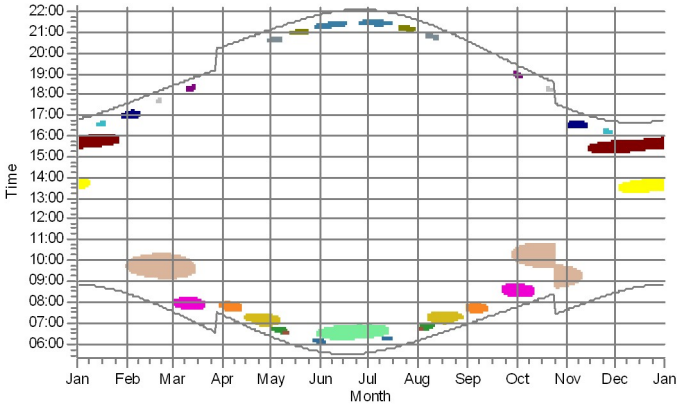
8: Christoffel Columbuslaan 17, 9042 Gent



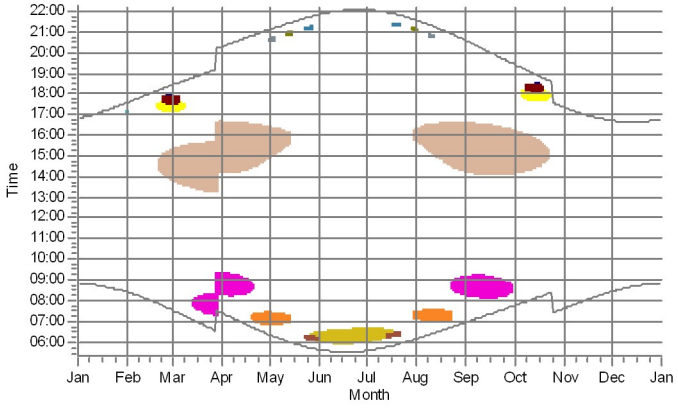
9: Willem van Rubroeckstraat 2, 9042 Gent



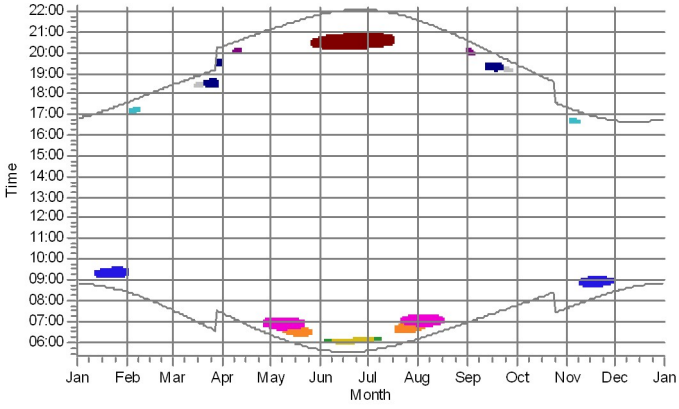
10: Willem van Rubroeckstraat 26, 9042 Gent



11: Arbedkaai 3, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

- KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
- KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
- KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
- KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
- KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
- KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
- KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)
- SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
- SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
- SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
- SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
- SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
- EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
- SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
- SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

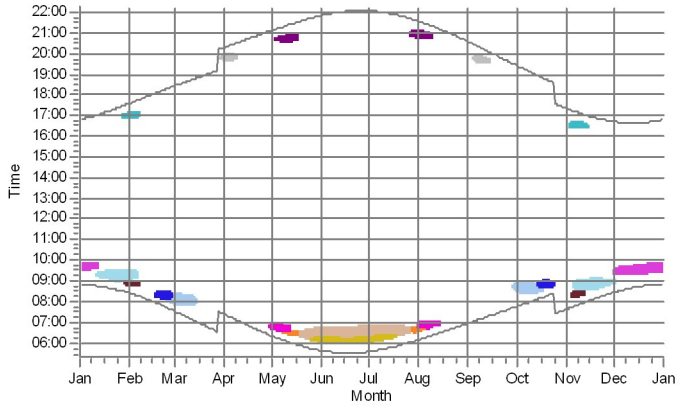
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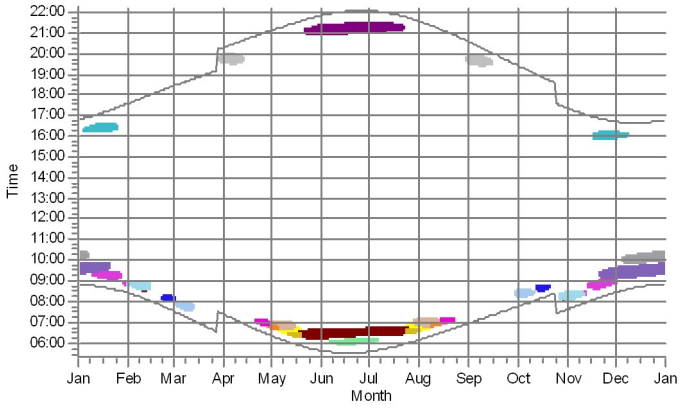
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref B

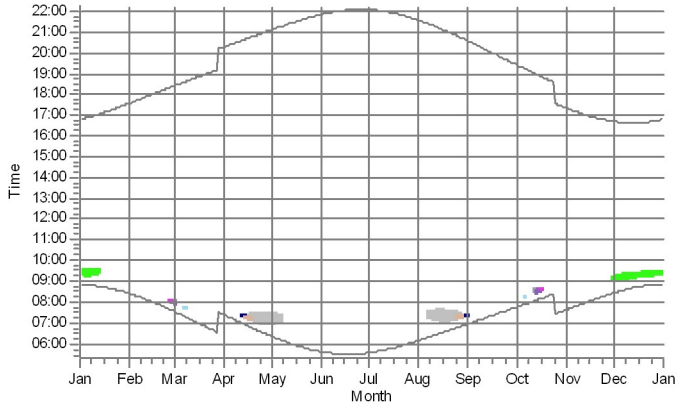
13: Doornzele Dries 107, 9940 Evergem



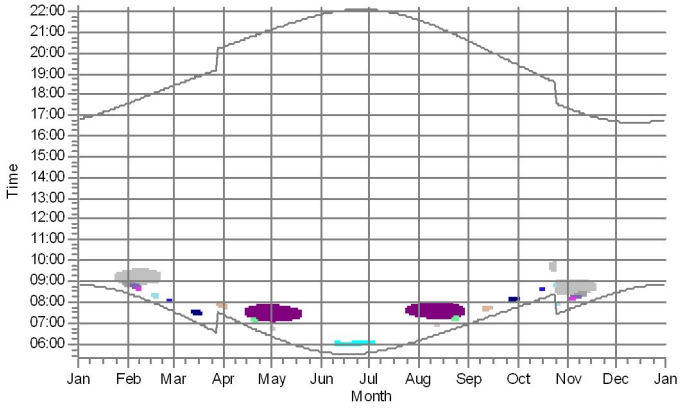
14: Abdijdreef 2, 9940 Evergem



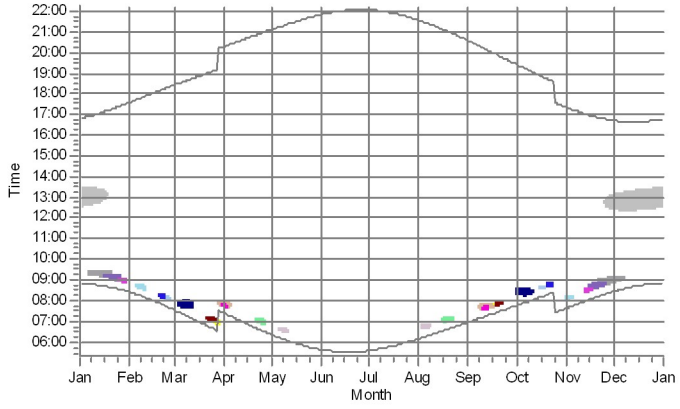
15: Hageland 14, 9940 Evergem



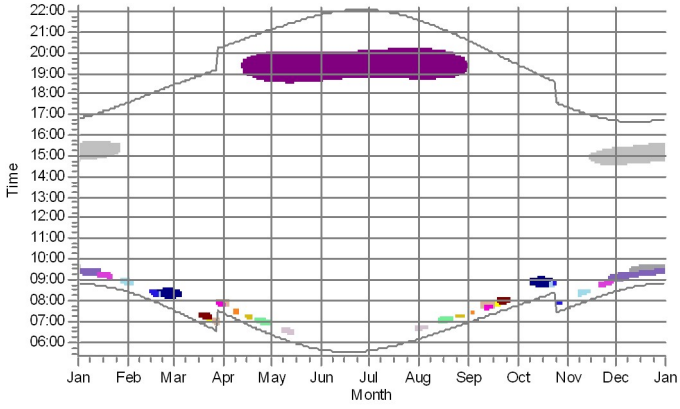
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

- KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)
- NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)
- MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

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SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:37-09:40/3	08:24 08:50-08:54/4	07:32 07:55-08:02/7	07:23	06:20	05:37
	16:48 10:05-10:22/17	17:35	18:25	20:17	21:06	21:50
2	08:49 10:07-10:22/15	08:22 08:48-08:54/6	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 10:07-10:21/14	08:21 08:46-08:53/7	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:08-10:21/13	08:19 08:46-08:53/7	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:10-10:20/10	08:18	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 10:11-10:19/8	08:16	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:20/2	08:14	07:19	07:10	06:09	05:32
	16:55 10:15-10:17/2	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:17-09:21/4	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:16-09:22/6	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:22/7	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:14-09:23/9	08:04	07:06	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:24/11	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:12-09:24/12	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:12-09:24/12	07:56	06:57	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:13-09:23/10	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:15-09:23/8	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:17-09:22/5	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:05/3	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:05/5	06:35	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:03/6	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:54/1		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	195	38	7	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-09:04/7
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	08:59-09:05/6
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40		08:29	09:00-09:04/4
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42		08:30	09:02-09:05/3
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43		08:31	09:03-09:05/2
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:53		07:45	08:18-08:20/2	08:33	09:04-09:05/1
	22:02	21:25	20:22	19:14		17:12		16:40	09:58-10:05/7
7	05:38	06:18	07:07	07:54		07:47	08:16-08:23/7	08:34	09:57-10:07/10
	22:02	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:24/7	08:35	09:57-10:09/12
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:25/6	08:36	09:56-10:10/14
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:25/4	08:37	09:56-10:11/15
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:26/3	08:38	09:27-09:30/3
	21:59	21:16	20:11	19:03		17:04		16:38	09:56-10:12/16
12	05:43	06:26	07:14	08:02	08:31-08:35/4	07:56		08:39	09:26-09:31/5
	21:58	21:14	20:09	19:01		17:03		16:38	09:56-10:12/16
13	05:44	06:27	07:16	08:04	08:29-08:36/7	07:57		08:40	09:26-09:32/6
	21:57	21:12	20:06	18:59		17:01		16:38	09:56-10:13/17
14	05:45	06:29	07:17	08:06	08:31-08:37/6	07:59		08:41	09:26-09:33/7
	21:56	21:11	20:04	18:57		17:00		16:38	09:56-10:14/18
15	05:47	06:30	07:19	08:07	08:33-08:37/4	08:01		08:42	09:26-09:34/8
	21:55	21:09	20:02	18:55		16:59		16:38	09:56-10:15/19
16	05:48	06:32	07:21	08:09	08:35-08:37/2	08:02		08:43	09:26-09:35/9
	21:54	21:07	20:00	18:53		16:57		16:38	09:57-10:16/19
17	05:49	06:34	07:22	08:11		08:04		08:44	09:27-09:36/9
	21:53	21:05	19:57	18:50		16:56		16:39	09:57-10:17/20
18	05:50	06:35	07:24	08:12		08:06		08:44	09:27-09:36/9
	21:52	21:03	19:55	18:48		16:55		16:39	09:57-10:16/19
19	05:51	06:37	07:25	08:14		08:07		08:45	09:27-09:37/10
	21:51	21:01	19:53	18:46		16:53		16:39	09:58-10:17/19
20	05:53	06:38	07:27	08:16		08:09		08:46	09:28-09:38/10
	21:50	20:59	19:50	18:44		16:52		16:39	09:58-10:18/20
21	05:54	06:40	07:28	08:17		08:11		08:46	09:28-09:38/10
	21:49	20:57	19:48	18:42		16:51		16:40	09:58-10:18/20
22	05:55	06:41	07:30	08:19		08:12	08:53-08:58/5	08:47	09:29-09:39/10
	21:48	20:55	19:46	18:40		16:50		16:40	09:59-10:19/20
23	05:56	06:43	07:32	08:21		08:14	08:51-08:59/8	08:47	09:29-09:39/10
	21:46	20:52	19:44	18:38		16:49		16:41	09:59-10:19/20
24	05:58	06:45	07:33	08:23		08:15	08:50-09:00/10	08:48	09:29-09:39/10
	21:45	20:50	19:41	18:36		16:48		16:41	09:59-10:19/20
25	05:59	06:46	07:35	07:24		08:17	08:50-09:02/12	08:48	09:30-09:40/10
	21:44	20:48	19:39	17:34		16:47		16:42	10:01-10:20/19
26	06:01	06:48	07:36	07:26		08:19	08:50-09:02/12	08:49	09:31-09:40/9
	21:42	20:46	19:37	17:32		16:46		16:43	10:01-10:21/20
27	06:02	06:49	07:38	07:28		08:20	08:51-09:03/12	08:49	09:31-09:40/9
	21:41	20:44	19:34	17:30		16:45		16:43	10:02-10:21/19
28	06:03	06:51	07:40	07:29		08:22	08:53-09:04/11	08:49	09:32-09:40/8
	21:40	20:42	19:32	17:28		16:44		16:44	10:02-10:21/19
29	06:05	06:52	07:41	07:31		08:23	08:54-09:03/9	08:49	09:33-09:40/7
	21:38	20:40	19:30	17:27		16:44		16:45	10:03-10:21/18
30	06:06	06:54	07:43	07:33		08:24	08:56-09:04/8	08:49	09:34-09:40/6
	21:37	20:38	19:28	17:25		16:43		16:46	10:03-10:21/18
31	06:08	06:56		07:35				08:49	09:35-09:40/5
	21:35	20:35		17:23				16:47	10:04-10:21/17
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	23		116		644	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: ATS_WT01 - NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:20-09:31/11	08:24	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:44	07:36	08:26 09:06-09:13/7
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49 09:20-09:32/12	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 09:06-09:15/9
	16:49	17:37	18:27	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49 09:20-09:32/12	08:21	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29 09:06-09:16/10
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:18	16:41
4	08:49 09:19-09:32/13	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30 09:06-09:17/11
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:41
5	08:49 09:19-09:33/14	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31 09:06-09:18/12
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49 09:19-09:32/13	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33 09:06-09:18/12
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48 09:21-09:33/12	08:14	07:19	07:10	06:09	05:33	05:39	06:18	07:07	07:54	07:47	08:34 09:06-09:20/14
	16:55	17:46	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:21-09:32/11	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35 09:07-09:20/13
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:22-09:33/11	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:57	07:50	08:36 09:08-09:20/12
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:08	16:39
10	08:47 09:23-09:32/9	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:09-09:21/12
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46 09:24-09:31/7	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:10-09:21/11
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:27-09:31/4	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39 09:11-09:22/11
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40 09:12-09:22/10
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41 09:13-09:23/10
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42 09:14-09:23/9
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43 09:15-09:24/9
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	20:00	18:53	16:57	16:38
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44 09:16-09:24/8
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:44 09:16-09:24/8
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:25/8
	17:13	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39
20	08:39	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09	08:46 09:18-09:26/8
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:17	08:11	08:46 09:18-09:26/8
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47 09:19-09:27/8
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14	08:47 09:19-09:27/8
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:15	08:48 09:19-09:27/8
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42
25	08:33	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48 09:20-09:28/8
	17:23	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49 09:20-09:28/8
	17:24	18:20	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:29/9
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:44
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49 09:20-09:29/9
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49 09:20-09:29/9
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 09:08-09:12/4	08:49 09:20-09:30/10
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49 09:20-09:30/10
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	129	0	0	0	0	0	0	0	0	0	4	299

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 09:22-09:57/35 17:35 08:50-09:07/17	07:32 13:53-15:15/82 07:55-08:08/13 18:25 09:13-10:12/59	07:23 07:46-08:01/15 20:17 14:16-16:35/139	06:20 06:44-06:58/14 21:06 15:01-16:20/79	05:36 06:13-06:40/27 21:50
2	08:49 16:49	08:22 09:22-09:56/34 17:36 08:48-09:07/19	07:30 13:51-15:17/86 07:53-08:09/16 18:26 09:13-10:12/59	07:21 07:43-07:59/16 20:19 14:16-16:35/139	06:18 06:42-06:58/16 21:08 15:04-16:19/75	05:36 06:14-06:41/27 21:51
3	08:49 16:50	08:21 09:22-09:56/34 17:38 08:48-09:08/20	07:28 13:49-15:19/90 07:51-08:09/18 18:28 09:14-10:11/57	07:19 07:44-07:57/13 20:20 14:16-16:35/139	06:16 06:41-07:00/19 21:09 15:06-16:17/71	05:35 06:14-06:40/26 21:53
4	08:49 16:51	08:19 09:23-10:00/37 17:40 08:48-09:09/21	07:26 13:47-15:21/94 07:49-08:09/20 18:30 09:15-10:10/55	07:16 07:46-07:50/4 20:22 14:16-16:35/139	06:15 06:40-07:00/20 21:11 15:10-16:17/67	05:34 06:13-06:40/27 21:54
5	08:49 16:52	08:18 09:23-10:02/39 17:42 08:48-09:09/21	07:24 13:44-15:21/97 07:47-08:07/20 18:32 09:14-10:08/54	07:14 14:16-16:35/139 20:24	06:13 06:40-06:59/19 21:13 15:13-16:16/63	05:33 06:14-06:41/27 21:55
6	08:49 16:54	08:16 09:24-10:04/40 17:44 08:47-09:09/22	07:21 13:43-15:23/100 07:44-08:07/23 18:33 09:15-10:07/52	07:12 14:16-16:34/138 20:25	06:11 06:40-07:00/20 21:14 15:16-16:14/58	05:33 06:14-06:41/27 21:55
7	08:48 16:55	08:14 09:25-10:05/40 17:45 08:47-09:09/22	07:19 13:41-15:24/103 07:43-08:05/22 18:35 09:16-10:06/50	07:10 14:16-16:34/138 20:27	06:09 06:40-07:00/20 21:16 15:20-16:13/53	05:32 06:14-06:41/27 21:56
8	08:48 16:56	08:13 09:24-10:07/43 17:47 08:49-09:09/20	07:17 13:40-15:26/106 07:54-08:04/10 18:37 09:17-10:04/47 07:45-07:51/6	07:08 14:16-16:34/138 20:28	06:08 06:39-06:59/20 21:17 15:23-16:11/48	05:32 06:15-06:42/27 21:57
9	08:47 16:58	08:11 09:22-10:08/46 17:49 08:49-09:09/20	07:15 13:38-15:26/108 18:38 09:18-10:01/43	07:05 14:17-16:34/137 20:30	06:06 06:40-06:59/19 21:19 15:26-16:10/44	05:31 06:15-06:41/26 21:58
10	08:47 16:59	08:09 09:21-10:09/48 17:51 08:49-09:08/19	07:13 13:36-15:27/111 18:40 09:19-09:59/40	07:03 14:17-16:34/137 20:32	06:04 06:40-06:58/18 21:20 15:30-16:08/38	05:31 06:15-06:42/27 21:59
11	08:46 09:31-09:35/4 17:00	08:08 09:20-10:10/50 17:53 08:50-09:07/17	07:10 13:35-15:28/113 18:42 09:21-09:57/36	07:01 14:17-16:32/135 20:33	06:03 06:41-06:58/17 21:22 15:34-16:07/33	05:31 06:16-06:42/26 21:59
12	08:46 09:28-09:38/10 17:02	08:06 09:19-10:11/52 17:54 08:51-09:06/15	07:08 13:34-15:30/116 07:31-07:35/4 18:44 09:23-09:54/31	06:59 14:18-16:32/134 20:35	06:01 06:41-06:56/15 21:24 15:38-16:04/26	05:30 06:15-06:41/26 22:00
13	08:45 09:27-09:41/14 17:03	08:04 09:18-10:12/54 17:56 08:53-09:03/10	07:06 13:32-15:30/118 07:29-07:36/7 18:45 09:25-09:50/25	06:57 14:19-16:32/133 20:37	05:59 06:43-06:56/13 21:25 15:43-16:00/17	05:30 06:15-06:42/27 22:01
14	08:44 09:26-09:43/17 17:05	08:02 09:17-10:13/56 17:58	07:04 13:31-15:31/120 07:26-07:36/10 18:47 09:29-09:45/16	06:55 14:20-16:31/131 20:38	05:58 06:44-06:53/9 21:27	05:30 06:16-06:42/26 22:01
15	08:44 09:25-09:44/19 17:06	08:00 09:16-10:13/57 18:00	07:01 13:30-15:31/121 18:49 07:24-07:36/12	06:52 07:15-07:17/2 20:40 14:21-16:31/130	05:56 06:47-06:51/4 21:28	05:30 06:16-06:42/26 22:02
16	08:43 09:24-09:46/22 17:08	07:58 09:16-10:14/58 18:02	06:59 13:29-15:32/123 18:50 07:22-07:36/14	06:50 07:13-07:16/3 20:42 14:23-16:31/128	05:55 21:30	05:29 06:16-06:43/27 22:02
17	08:42 09:23-09:47/24 17:09	07:56 09:15-10:14/59 18:03	06:57 13:27-15:32/125 18:52 07:22-07:35/13	06:48 07:11-07:15/4 20:43 14:24-16:30/126	05:53 21:31	05:29 06:17-06:43/26 22:03
18	08:41 09:23-09:48/25 17:11	07:54 09:15-10:15/60 18:05	06:55 13:26-15:33/127 18:54 07:22-07:33/11	06:46 14:26-16:30/124 20:45	05:52 06:24-06:27/3 21:32	05:29 06:17-06:43/26 22:03
19	08:40 09:22-09:50/28 17:12	07:53 09:14-10:15/61 18:07	06:53 13:25-15:34/129 18:55 07:23-07:32/9	06:44 14:28-16:29/121 20:47	05:51 06:21-06:31/10 21:34	05:29 06:17-06:43/26 22:04
20	08:39 09:22-09:51/29 17:14	07:51 09:14-10:15/61 18:09	06:50 13:25-15:34/129 18:57	06:42 14:30-16:29/119 20:48	05:49 06:19-06:33/14 21:35	05:30 06:17-06:43/26 22:04
21	08:38 09:21-09:51/30 17:16	07:49 14:21-14:48/27 18:11 09:13-10:15/62	06:48 13:23-15:34/131 18:59	06:40 14:32-16:28/116 20:50	05:48 06:17-06:33/16 21:37	05:30 06:17-06:43/26 22:04
22	08:37 09:21-09:52/31 17:17	07:47 14:15-14:53/38 18:12 09:13-10:15/62	06:46 13:22-15:34/132 19:00	06:38 14:34-16:27/113 20:51	05:47 06:16-06:35/19 21:38	05:30 06:18-06:44/26 22:04
23	08:36 09:21-09:53/32 17:19	07:45 14:11-14:58/47 18:14 09:13-10:15/62	06:43 13:22-15:35/133 19:02	06:36 14:37-16:27/110 20:53	05:46 06:16-06:36/20 21:39	05:30 06:18-06:44/26 22:05
24	08:35 09:20-09:53/33 17:21	07:42 14:07-15:02/55 18:16 09:13-10:15/62	06:41 13:20-15:34/134 19:04	06:34 14:39-16:26/107 20:55	05:44 06:15-06:36/21 21:41	05:30 06:18-06:44/26 22:05
25	08:33 09:20-09:54/34 17:22	07:40 14:04-15:05/61 18:18 09:13-10:15/62	06:39 13:20-15:35/135 19:05	06:32 14:42-16:25/103 20:56	05:43 06:15-06:37/22 21:42	05:31 06:19-06:45/26 22:05
26	08:32 09:21-09:55/34 17:24	07:38 14:01-15:08/67 08:02-08:04/2 18:19 09:13-10:15/62	06:37 13:19-15:35/136 19:07	06:30 14:45-16:24/99 20:58	05:42 06:14-06:37/23 21:43	05:31 06:19-06:45/26 22:05
27	08:31 09:20-09:55/35 17:26	07:36 13:57-15:10/73 08:00-08:07/7 18:21 09:12-10:13/61	06:34 06:57-07:01/4 19:09 13:19-15:36/137	06:28 14:48-16:23/95 21:00	05:41 06:14-06:38/24 21:45	05:32 06:18-06:44/26 22:05
28	08:30 09:21-09:56/35 17:28	07:34 13:55-15:13/78 07:57-08:07/10 18:23 09:13-10:13/60	06:32 06:55-07:02/7 19:10 13:18-15:35/137	06:26 14:51-16:22/91 21:01	05:40 06:13-06:38/25 21:46	05:32 06:19-06:45/26 22:05
29	08:28 09:20-09:55/35 17:29 08:54-09:02/8		07:30 07:52-08:01/9 20:12 14:18-16:35/137	06:24 06:48-06:56/8 21:03 14:55-16:22/87	05:39 06:14-06:39/25 21:47	05:33 06:20-06:46/26 22:05
30	08:27 09:21-09:56/35 17:31 08:53-09:04/11		07:28 07:50-08:01/11 20:14 14:17-16:35/138	06:22 06:46-06:57/11 21:05 14:58-16:21/83	05:38 06:14-06:40/26 21:48	05:33 06:19-06:46/27 22:04
31	08:25 09:21-09:56/35 17:33 08:51-09:05/14		07:25 07:48-08:01/13 20:15 14:17-16:36/139		05:37 06:14-06:40/26 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	594	2165	4583	3744	1189	791

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:20-06:46/26 22:04	06:09 06:52-07:07/15 21:33 15:46-16:15/29	06:57 14:17-16:32/135 20:33	07:44 14:12-16:09/117 08:09-08:15/6 19:25 10:03-10:32/29	07:36 08:51-09:39/48 17:21 08:19-08:38/19	08:26 09:13-09:17/4 16:42
2	05:34 06:19-06:46/27 22:04	06:10 06:51-07:08/17 21:32 15:42-16:17/35	06:59 14:15-16:31/136 20:31	07:46 14:13-16:08/115 08:11-08:13/2 19:23 10:01-10:35/34	07:38 08:52-09:38/46 17:19 08:18-08:39/21	08:27 16:41
3	05:35 06:20-06:46/26 22:03	06:12 06:50-07:09/19 21:30 15:39-16:19/40	07:00 14:15-16:32/137 20:29	07:48 14:14-16:06/112 19:21 09:58-10:36/38	07:40 08:53-09:36/43 17:17 08:17-08:38/21	08:29 16:41
4	05:36 06:20-06:47/27 22:03	06:13 06:49-07:09/20 21:29 15:35-16:21/46	07:02 14:13-16:31/138 20:27	07:49 14:15-16:05/110 19:19 09:56-10:38/42	07:42 08:54-09:34/40 17:16 08:17-08:39/22	08:30 16:40
5	05:37 06:20-06:46/26 22:03	06:15 06:50-07:09/19 21:27 15:32-16:22/50	07:03 14:13-16:31/138 20:24	07:51 14:16-16:03/107 08:32-08:39/7 19:16 09:55-10:40/45 08:23-08:27/4	07:43 08:54-09:33/39 17:14 08:17-08:39/22	08:31 16:40
6	05:37 06:20-06:47/27 22:02	06:16 06:49-07:09/20 21:25 15:28-16:23/55	07:05 14:12-16:30/138 20:22	07:52 14:17-16:01/104 08:29-08:41/12 19:14 09:53-10:41/48 08:20-08:28/8	07:45 08:53-09:31/38 17:12 08:18-08:39/21	08:33 16:39
7	05:38 06:20-06:47/27 22:02	06:18 06:50-07:10/20 21:23 15:25-16:25/60	07:06 14:11-16:30/139 20:20	07:54 14:18-16:00/102 08:19-08:42/23 19:12 09:52-10:42/50	07:47 08:53-09:29/36 17:11 08:18-08:39/21	08:34 16:39
8	05:39 06:21-06:47/26 22:01	06:20 06:49-07:09/20 21:22 15:21-16:25/64	07:08 07:40-07:44/4 20:18 14:10-16:29/139	07:56 14:20-15:58/98 08:21-08:43/22 19:10 09:51-10:44/53	07:49 08:53-09:27/34 17:09 08:19-08:39/20	08:35 16:39
9	05:40 06:21-06:48/27 22:00	06:21 06:50-07:09/19 21:20 15:18-16:26/68	07:10 07:38-07:51/13 20:15 14:10-16:29/139	07:57 14:20-15:56/96 08:22-08:43/21 19:08 09:49-10:44/55	07:50 08:52-09:27/35 17:07 08:19-08:38/19	08:36 16:38
10	05:41 06:21-06:48/27 22:00	06:23 06:50-07:08/18 21:18 15:15-16:27/72	07:11 07:36-07:52/16 20:13 14:09-16:28/139	07:59 14:22-15:54/92 08:24-08:43/19 19:05 09:48-10:45/57	07:52 08:52-09:27/35 17:06 08:21-08:38/17	08:37 16:38
11	05:42 06:22-06:48/26 21:59	06:24 06:51-07:07/16 21:16 15:11-16:27/76	07:13 07:38-07:53/15 20:11 14:09-16:28/139	08:01 14:24-15:52/88 08:26-08:43/17 19:03 09:48-10:46/58	07:54 08:53-09:28/35 17:04 08:23-08:37/14	08:38 16:38
12	05:43 06:22-06:48/26 21:58	06:26 06:53-07:06/13 21:14 15:08-16:29/81	07:14 07:39-07:52/13 20:09 14:08-16:27/139	08:02 14:25-15:49/84 08:28-08:42/14 19:01 09:46-10:45/59	07:56 08:52-09:27/35 17:03 08:24-08:35/11	08:39 16:38
13	05:44 06:22-06:48/26 21:57	06:27 06:54-07:04/10 21:12 15:04-16:29/85	07:16 07:41-07:53/12 20:06 14:09-16:27/138	08:04 14:27-15:47/80 08:29-08:41/12 18:59 09:46-10:46/60	07:57 08:52-09:27/35 17:01 08:26-08:33/7	08:40 16:38
14	05:45 06:22-06:48/26 21:56	06:29 06:56-07:03/7 21:11 15:01-16:30/89	07:17 07:42-07:52/10 20:04 14:08-16:26/138	08:06 14:29-15:45/76 08:31-08:40/9 18:57 09:46-10:46/60	07:59 08:53-09:28/35 17:00	08:41 16:38
15	05:46 06:23-06:48/25 21:55	06:30 14:57-16:30/93 21:09	07:19 07:44-07:51/7 20:02 14:08-16:25/137	08:07 14:32-15:42/70 08:33-08:38/5 18:55 09:46-10:47/61	08:01 08:53-09:28/35 16:59	08:42 16:38
16	05:48 06:23-06:48/25 21:54	06:32 14:55-16:31/96 21:07	07:21 07:45-07:49/4 19:59 14:07-16:24/137	08:09 14:33-15:39/66 18:52 09:44-10:46/62	08:02 08:54-09:28/34 16:57	08:43 16:38
17	05:49 06:23-06:47/24 21:53	06:33 14:51-16:31/100 21:05	07:22 14:08-16:24/136 19:57	08:11 14:36-15:35/59 18:50 09:44-10:46/62	08:04 08:54-09:28/34 16:56	08:44 16:38
18	05:50 06:24-06:47/23 21:52	06:35 14:48-16:32/104 21:03	07:24 14:07-16:22/135 19:55	08:12 14:40-15:32/52 18:48 09:44-10:47/63	08:06 08:54-09:27/33 16:55	08:44 16:39
19	05:51 06:24-06:46/22 21:51	06:37 14:44-16:32/108 21:01	07:25 14:08-16:22/134 19:53	08:14 14:43-15:28/45 18:46 09:45-10:47/62	08:07 08:55-09:27/32 16:53	08:45 16:39
20	05:52 06:26-06:46/20 21:50	06:38 14:42-16:32/110 20:59	07:27 14:08-16:22/134 19:50	08:16 14:47-15:22/35 18:44 09:45-10:47/62	08:09 08:56-09:27/31 16:52	08:46 16:39
21	05:54 06:27-06:46/19 21:49	06:40 14:39-16:32/113 20:57	07:28 14:08-16:20/132 19:48	08:17 14:54-15:16/22 18:42 09:44-10:46/62	08:11 08:57-09:27/30 16:51	08:46 16:40
22	05:55 06:27-06:45/18 21:48	06:41 14:36-16:33/117 20:55	07:30 14:08-16:20/132 19:46	08:19 09:44-10:45/61 18:40	08:12 08:58-09:27/29 16:50	08:47 16:40
23	05:56 06:28-06:43/15 21:46	06:43 14:33-16:32/119 20:52	07:32 14:08-16:18/130 19:43	08:21 09:45-10:45/60 18:38	08:14 08:58-09:26/28 16:49	08:47 16:41
24	05:58 06:30-06:43/13 21:45	06:44 14:31-16:33/122 20:50	07:33 14:09-16:17/128 19:41 08:08-08:14/6	08:23 09:45-10:45/60 18:36	08:15 09:00-09:26/26 16:48	08:48 16:41
25	05:59 06:32-06:40/8 21:44	06:46 07:14-07:15/1 20:48 14:28-16:32/124	07:35 14:09-16:16/127 19:39 08:05-08:16/11	07:24 08:46-09:45/59 17:34	08:17 09:01-09:25/24 16:47	08:48 16:42
26	06:00 21:42	06:48 07:14-07:18/4 20:46 14:27-16:33/126	07:36 14:09-16:15/126 19:37 08:04-08:17/13	07:26 08:45-09:43/58 17:32	08:19 09:02-09:24/22 16:46	08:49 16:43
27	06:02 21:41	06:49 07:15-07:18/3 20:44 14:24-16:32/128	07:38 14:10-16:14/124 19:34 08:03-08:18/15	07:28 08:46-09:43/57 17:30	08:20 09:04-09:24/20 16:45	08:49 16:43
28	06:03 21:40	06:51 07:17-07:19/2 20:42 14:23-16:33/130	07:40 14:10-16:12/122 19:32 08:04-08:17/13	07:29 08:47-09:42/55 17:28 08:25-08:30/5	08:22 09:06-09:23/17 16:44	08:49 16:44
29	06:05 06:56-07:03/7 21:38	06:52 14:21-16:32/131 20:40	07:41 14:11-16:12/121 08:06-08:17/11 19:30 10:12-10:24/12	07:31 08:48-09:41/53 17:26 08:22-08:34/12	08:23 09:07-09:21/14 16:43	08:49 16:45
30	06:06 06:53-07:05/12 21:37 15:58-16:06/8	06:54 14:20-16:33/133 20:38	07:43 14:11-16:10/119 08:08-08:16/8 19:28 10:06-10:28/22	07:33 08:49-09:41/52 17:25 08:21-08:35/14	08:24 09:10-09:20/10 16:43	08:49 16:46
31	06:08 06:53-07:06/13 21:35 15:51-16:12/21	06:55 14:18-16:32/134 20:35	 	07:35 08:50-09:40/50 17:23 08:20-08:37/17	 	08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	643	3081	4211	3646	1188	4

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	19:46-19:51/5	06:20		05:36	21:15-21:19/4
	16:48	17:35	18:25		20:17		21:06		21:51	21:06-21:13/7
2	08:50	08:23	07:30	17:59-18:01/2	07:21	19:46-19:53/7	06:18		05:36	21:16-21:20/4
	16:49	17:36	18:27		20:19		21:08		21:52	21:08-21:13/5
3	08:50	08:21	07:28	17:54-18:03/9	07:19	19:46-19:55/9	06:16		05:35	21:16-21:21/5
	16:50	17:38	18:28		20:20		21:10		21:53	
4	08:49	08:20	07:26	17:52-18:05/13	07:17	19:48-19:57/9	06:15		05:34	21:16-21:21/5
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24	17:49-18:06/17	07:14	19:50-19:58/8	06:13		05:34	21:17-21:23/6
	16:53	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:22	17:48-18:08/20	07:12	19:52-19:59/7	06:11		05:33	21:17-21:23/6
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19	17:48-18:10/22	07:10	19:51-20:01/10	06:09		05:32	21:18-21:24/6
	16:55	17:45	18:35		20:27		21:16		21:57	
8	08:48	08:13	07:17	17:47-18:12/25	07:08	19:52-20:03/11	06:08		05:32	21:18-21:25/7
	16:56	17:47	18:37		20:29		21:18		21:57	
9	08:48	08:11	07:15	17:47-18:12/25	07:06	19:52-20:05/13	06:06		05:31	21:18-21:26/8
	16:58	17:49	18:39		20:30		21:19		21:58	
10	08:47	08:09	07:13	17:46-18:12/26	07:03	19:53-20:06/13	06:04		05:31	21:18-21:27/9
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:47	08:08	07:11	17:46-18:12/26	07:01	19:53-20:03/10	06:03		05:31	21:18-21:28/10
	17:00	17:53	18:42		20:34		21:22		22:00	
12	08:46	08:06	07:08	17:46-18:11/25	06:59	19:55-20:01/6	06:01		05:30	21:17-21:27/10
	17:02	17:55	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	17:46-18:11/25	06:57		05:59		05:30	21:17-21:28/11
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:45	08:02	07:04	17:46-18:09/23	06:55		05:58		05:30	21:18-21:29/11
	17:05	17:58	18:47		20:39		21:27		22:02	
15	08:44	08:00	07:02	17:47-18:08/21	06:53		05:56		05:30	21:18-21:29/11
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	17:49-18:07/18	06:50		05:55		05:30	21:18-21:30/12
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:57	06:57	17:50-18:04/14	06:48		05:54		05:29	21:18-21:30/12
	17:09	18:04	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	17:53-18:01/8	06:46		05:52	21:02-21:03/1	05:29	21:18-21:31/13
	17:11	18:05	18:54		20:45		21:33		22:04	
19	08:40	07:53	06:53	18:29-18:31/2	06:44		05:51	21:02-21:04/2	05:30	21:18-21:31/13
	17:12	18:07	18:56		20:47		21:34		22:04	
20	08:39	07:51	06:50	18:29-18:32/3	06:42		05:49	21:02-21:06/4	05:30	21:18-21:31/13
	17:14	18:09	18:57		20:48		21:36		22:04	
21	08:38	07:49	06:48	18:27-18:33/6	06:40		05:48	21:01-21:06/5	05:30	21:18-21:31/13
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46	18:27-18:35/8	06:38		05:47	21:01-21:07/6	05:30	21:19-21:32/13
	17:17	18:12	19:01		20:52		21:38		22:05	
23	08:36	07:45	06:44	18:28-18:37/9	06:36		05:46	21:01-21:09/8	05:30	21:19-21:32/13
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41	18:28-18:38/10	06:34		05:44	21:01-21:10/9	05:30	21:19-21:32/13
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:41	06:39	18:30-18:36/6	06:32		05:43	21:01-21:11/10	05:31	21:20-21:33/13
	17:22	18:18	19:06		20:57		21:42		22:05	
26	08:32	07:39	06:37		06:30		05:42	21:02-21:12/10	05:31	21:20-21:32/12
	17:24	18:20	19:07		20:58		21:44		22:05	
27	08:31	07:36	06:35		06:28		05:41	21:02-21:13/11	05:32	21:20-21:32/12
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	21:02-21:14/12	05:32	21:21-21:32/11
	17:28	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30		06:24		05:39	21:04-21:16/12	05:33	21:21-21:32/11
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	19:47-19:49/2	06:22		05:38	21:16-21:17/1	05:33	21:21-21:32/11
	17:31		20:14		21:05		21:48	21:04-21:15/11	22:05	
31	08:26		07:26	19:47-19:50/3			05:37	21:15-21:18/3		
	17:33		20:15				21:50	21:05-21:14/9		
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	368		108		114		310	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 21:22-21:32/10	06:09	06:57 19:53-20:03/10	07:45 18:25-18:50/25	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 21:22-21:31/9	06:11	06:59 19:51-20:03/12	07:46 18:25-18:50/25	07:38	08:28
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 21:23-21:31/8	06:12	07:00 19:50-20:03/13	07:48 18:23-18:49/26	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 21:24-21:31/7	06:14	07:02 19:49-20:00/11	07:49 18:24-18:49/25	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 21:23-21:30/7	06:15	07:03 19:49-19:58/9	07:51 18:24-18:49/25	07:44	08:32
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 21:23-21:30/7	06:17	07:05 19:48-19:55/7	07:53 18:23-18:47/24	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 21:23-21:29/6	06:18	07:07 19:46-19:54/8	07:54 18:24-18:45/21	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 21:23-21:29/6	06:20	07:08 19:42-19:51/9	07:56 18:25-18:43/18	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 21:24-21:29/5	06:21	07:10 19:41-19:49/8	07:58 18:25-18:40/15	07:51	08:36
	22:01	21:20	20:16	19:08	17:07	16:39
10	05:41 21:24-21:28/4	06:23	07:11 19:39-19:46/7	07:59 18:27-18:38/11	07:52	08:37
	22:00 21:16-21:20/4	21:18	20:13	19:05	17:06	16:38
11	05:42 21:24-21:27/3	06:24	07:13 19:39-19:45/6	08:01 18:30-18:36/6	07:54	08:39
	21:59 21:15-21:21/6	21:16	20:11	19:03	17:04	16:38
12	05:43 21:24-21:27/3	06:26	07:14 19:38-19:42/4	08:02	07:56	08:40
	21:58 21:14-21:22/8	21:15	20:09	19:01	17:03	16:38
13	05:44 21:24-21:26/2	06:27	07:16 19:39-19:40/1	08:04	07:57	08:41
	21:57 21:13-21:23/10	21:13	20:06	18:59	17:01	16:38
14	05:45 21:13-21:25/12	06:29	07:18	08:06	07:59	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 21:12-21:24/12	06:30	07:19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 21:12-21:23/11	06:32	07:21	08:09	08:03	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 21:11-21:22/11	06:34	07:22	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 21:11-21:21/10	06:35	07:24 19:18-19:23/5	08:13	08:06	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 21:11-21:20/9	06:37	07:25 19:16-19:26/10	08:14	08:08	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 21:10-21:19/9	06:38	07:27 19:15-19:24/9	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:11-21:19/8	06:40	07:29 19:13-19:21/8	08:18	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 21:11-21:17/6	06:41	07:30 19:13-19:20/7	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 21:11-21:16/5	06:43	07:32 19:12-19:17/5	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 21:11-21:14/3	06:45	07:33 19:13-19:15/2	08:23	08:16	08:48
	21:45	20:51	19:41	18:36	16:48	16:41
25	05:59 21:12-21:14/2	06:46	07:35 18:38-18:41/3	07:24	08:17	08:49
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:33-18:46/13	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:31-18:48/17	07:28	08:20	08:49
	21:41	20:44	19:35	17:30	16:45	16:43
28	06:03	06:51	07:40 18:29-18:48/19	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 18:27-18:50/23	07:31	08:23	08:50
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 18:26-18:49/23	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:55-20:01/6		07:35		08:50
	21:35	20:36		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	203	6	249	221	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 16:59-17:05/6 17:35	07:32 17:57-17:59/2 18:25	07:23 20:17	06:20 20:36-20:38/2 21:06	05:36 21:51
2	08:50 16:49	08:23 16:58-17:07/9 17:36	07:30 17:57-18:01/4 18:27	07:21 20:19	06:18 20:35-20:40/5 21:08	05:36 21:52
3	08:50 16:50	08:21 16:57-17:09/12 17:38	07:28 17:57-18:03/6 18:28	07:19 20:20	06:16 20:35-20:41/6 21:10	05:35 21:53
4	08:49 16:51	08:20 16:57-17:11/14 17:40	07:26 17:58-18:05/7 18:30	07:17 20:22	06:15 20:36-20:43/7 21:11	05:34 21:54
5	08:49 16:53	08:18 16:56-17:13/17 17:42	07:24 17:58-18:06/8 18:32	07:14 20:24	06:13 20:37-20:44/7 21:13	05:34 21:55
6	08:49 16:54	08:16 16:56-17:15/19 17:44	07:22 18:00-18:05/5 18:33	07:12 20:25	06:11 20:38-20:44/6 21:14	05:33 21:56
7	08:48 16:55	08:15 16:56-17:16/20 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:57
8	08:48 16:56	08:13 16:57-17:18/21 17:47	07:17 18:37	07:08 20:29	06:08 21:18	05:32 21:57
9	08:48 16:58	08:11 16:57-17:17/20 17:49	07:15 18:39	07:06 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 16:57-17:17/20 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 21:59
11	08:47 17:00	08:08 16:58-17:16/18 17:53	07:11 18:42	07:01 20:34	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 16:59-17:15/16 17:55	07:08 18:16-18:19/3 18:44	06:59 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 17:01-17:13/12 17:56	07:06 18:15-18:20/5 18:45	06:57 20:37	06:00 21:25	05:30 22:01
14	08:45 17:05	08:02 17:03-17:11/8 17:58	07:04 18:16-18:22/6 18:47	06:55 20:39	05:58 21:27	05:30 22:02
15	08:44 17:06	08:00 18:00	07:02 18:16-18:24/8 18:49	06:53 20:09-20:14/5 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 18:02	06:59 18:16-18:26/10 18:50	06:50 20:07-20:15/8 20:42	05:55 21:30	05:30 22:03
17	08:42 17:09	07:57 18:04	06:57 18:16-18:27/11 18:52	06:48 20:06-20:17/11 20:43	05:54 21:31	05:30 22:03
18	08:41 17:11	07:55 18:05	06:55 18:17-18:28/11 18:54	06:46 20:04-20:19/15 20:45	05:52 21:33	05:30 22:04
19	08:40 17:12	07:53 18:07	06:53 18:19-18:26/7 18:56	06:44 20:04-20:20/16 20:47	05:51 21:34	05:30 22:04
20	08:39 17:14	07:51 18:09	06:50 18:57	06:42 20:03-20:22/19 20:48	05:49 21:35	05:30 22:04
21	08:38 17:16	07:49 18:11	06:48 18:59	06:40 20:02-20:23/21 20:50	05:48 21:37	05:30 22:04
22	08:37 17:17	07:47 18:12	06:46 19:01	06:38 20:02-20:25/23 20:52	05:47 21:38	05:30 22:05
23	08:36 17:19	07:45 18:14	06:44 19:02	06:36 20:02-20:26/24 20:53	05:46 21:40	05:30 22:05
24	08:35 17:21	07:43 18:16	06:41 19:04	06:34 20:02-20:28/26 20:55	05:44 21:41	05:30 22:05
25	08:34 17:22	07:41 18:18	06:39 19:06	06:32 20:02-20:29/27 20:57	05:43 21:42	05:31 22:05
26	08:32 17:24	07:39 18:20	06:37 19:07	06:30 20:02-20:27/25 20:58	05:42 21:44	05:31 22:05
27	08:31 17:26	07:36 18:21	06:35 19:09	06:28 20:03-20:24/21 21:00	05:41 21:45	05:32 22:05
28	08:30 17:28	07:34 18:23	06:32 19:10	06:26 20:04-20:20/16 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 20:12	06:24 20:06-20:20/14 21:03	05:39 21:47	05:33 22:05
30	08:27 17:31		07:28 20:14	06:22 20:36-20:37/1 21:05 20:08-20:17/9	05:38 21:48	05:33 22:05
31	08:26 16:59-17:03/4 17:33		07:26 20:15		05:37 21:50	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	4	212	93	281	33	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December
1	05:34	06:09		06:57		07:45	18:55-18:58/3	07:37	16:27-16:47/20	08:26
	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59		07:46	18:55-18:56/1	07:38	16:27-16:47/20	08:28
	22:04	21:32		20:31		19:23		17:19		16:42
3	05:35	06:12		07:00		07:48		07:40	16:26-16:47/21	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02		07:49		07:42	16:25-16:46/21	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03		07:51		07:44	16:26-16:44/18	08:32
	22:03	21:27		20:24		19:17		17:14		16:40
6	05:38	06:17	20:50-20:53/3	07:05		07:53		07:45	16:26-16:42/16	08:33
	22:02	21:25		20:22		19:14		17:12		16:40
7	05:38	06:18	20:48-20:55/7	07:07		07:54		07:47	16:27-16:41/14	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20	20:46-20:53/7	07:08		07:56	18:35-18:42/7	07:49	16:27-16:39/12	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21	20:45-20:51/6	07:10		07:58	18:32-18:40/8	07:51	16:28-16:38/10	08:36
	22:00	21:20		20:16		19:08		17:07		16:39
10	05:41	06:23	20:45-20:50/5	07:11		07:59	18:32-18:38/6	07:52	16:30-16:36/6	08:37
	22:00	21:18		20:13		19:05		17:06		16:38
11	05:42	06:24	20:44-20:48/4	07:13		08:01	18:31-18:36/5	07:54	16:31-16:35/4	08:38
	21:59	21:16		20:11		19:03		17:04		16:38
12	05:43	06:26	20:44-20:46/2	07:14		08:02	18:30-18:33/3	07:56		08:40
	21:58	21:15	20:19-20:22/3	20:09		19:01		17:03		16:38
13	05:44	06:27	20:15-20:25/10	07:16		08:04		07:57		08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29	20:13-20:28/15	07:18		08:06		07:59		08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30	20:11-20:28/17	07:19		08:07		08:01		08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32	20:10-20:32/22	07:21		08:09		08:03		08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34	20:09-20:34/25	07:22		08:11		08:04		08:44
	21:54	21:05		19:57		18:50		16:56		16:39
18	05:50	06:35	20:09-20:35/26	07:24		08:13		08:06		08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37	20:07-20:33/26	07:25		08:14		08:08		08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:53	06:38	20:08-20:32/24	07:27		08:16		08:09		08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40	20:07-20:29/22	07:29		08:18		08:11		08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41	20:07-20:28/21	07:30		08:19		08:12		08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43	20:07-20:25/18	07:32		08:21		08:14		08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45	20:07-20:24/17	07:33	19:04-19:08/4	08:23		08:16		08:48
	21:45	20:51		19:41		18:36		16:48		16:41
25	05:59	06:46	20:07-20:21/14	07:35	19:00-19:10/10	07:24		08:17		08:49
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:01	06:48	20:09-20:20/11	07:37	18:59-19:10/11	07:26		08:19		08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49	20:09-20:17/8	07:38	18:58-19:08/10	07:28		08:20		08:49
	21:41	20:44		19:35		17:30		16:45		16:43
28	06:03	06:51	20:11-20:15/4	07:40	18:57-19:05/8	07:30	16:32-16:41/9	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52		07:41	18:57-19:03/6	07:31	16:30-16:43/13	08:23		08:50
	21:38	20:40		19:30		17:27		16:44		16:45
30	06:06	06:54		07:43	18:55-19:00/5	07:33	16:28-16:45/17	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56				07:35	16:28-16:46/18			08:50
	21:35	20:36				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	317		54		90		162		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:24-06:41/17	05:34 06:37-06:41/4	06:09	06:57 07:26-07:29/3	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04 06:04-06:10/6	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35 06:25-06:41/16	05:34 06:35-06:41/6	06:10	06:59 07:24-07:30/6	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04 06:04-06:09/5	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:25-06:40/15	05:35 06:35-06:43/8	06:12	07:00 07:26-07:31/5	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04 06:05-06:09/4	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:25-06:40/15	05:36 06:35-06:44/9	06:13	07:02 07:27-07:31/4	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03 06:06-06:09/3	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:27-06:40/13	05:36 06:33-06:44/11	06:15	07:03 07:29-07:30/1	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03 06:06-06:07/1	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:27-06:39/12	05:37 06:33-06:45/12	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:33/1	06:09	05:32 06:28-06:39/11	05:38 06:33-06:46/13	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08 07:30-07:34/4	06:07	05:32 06:28-06:38/10	05:39 06:33-06:47/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57 06:00-06:02/2	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05 07:28-07:33/5	06:06	05:31 06:29-06:38/9	05:40 06:33-06:48/15	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58 06:00-06:03/3	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03 07:26-07:32/6	06:04	05:31 06:31-06:37/6	05:41 06:33-06:48/15	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59 06:00-06:04/4	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01 07:27-07:30/3	06:02	05:30 06:31-06:36/5	05:42 06:32-06:49/17	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00 05:59-06:04/5	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:33-06:35/2	05:43 06:32-06:49/17	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00 05:59-06:05/6	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:06/7	05:44 06:32-06:50/18	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:29-06:34/5	05:30 05:59-06:06/7	05:45 06:32-06:50/18	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:27-06:37/10	05:29 05:59-06:07/8	05:46 06:32-06:51/19	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:26-06:38/12	05:29 05:59-06:07/8	05:47 06:32-06:51/19	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:24-06:39/15	05:29 05:59-06:07/8	05:49 06:31-06:51/20	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52 06:24-06:40/16	05:29 05:59-06:07/8	05:50 06:31-06:51/20	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51 06:23-06:40/17	05:29 05:59-06:08/9	05:51 06:31-06:51/20	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:23-06:41/18	05:29 05:59-06:08/9	05:52 06:31-06:51/20	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:22-06:41/19	05:30 05:59-06:08/9	05:54 06:32-06:52/20	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47 06:22-06:41/19	05:30 06:00-06:09/9	05:55 06:32-06:51/19	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:22-06:41/19	05:30 06:00-06:09/9	05:56 06:32-06:51/19	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44 06:22-06:42/20	05:30 06:00-06:09/9	05:58 06:33-06:50/17	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43 06:22-06:42/20	05:31 06:01-06:09/8	05:59 06:34-06:51/17	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:22-06:42/20	05:31 06:01-06:09/8	06:00 06:34-06:50/16	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:22-06:42/20	05:31 06:01-06:09/8	06:02 06:35-06:49/14	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:22-06:41/19	05:32 06:02-06:09/7	06:03 06:37-06:48/11	06:51	07:40	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:22-06:41/19	05:32 06:02-06:09/7	06:05 06:38-06:46/8	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:23-06:42/19	05:33 06:03-06:09/6	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:24-06:41/17		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	19	304	295	455	0	19	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34 06:25-06:37/12	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35	05:34 06:26-06:36/10	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35 06:27-06:36/9	06:12	07:00 07:31-07:38/7	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16 07:39-07:42/3	06:14	05:34	05:36 06:29-06:35/6	06:13	07:02 07:29-07:38/9	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14 07:37-07:43/6	06:13	05:33	05:36	06:15	07:03 07:29-07:39/10	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12 07:34-07:42/8	06:11	05:33	05:37	06:16	07:05 07:30-07:38/8	07:52	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:42/10	06:09	05:32	05:38	06:18	07:06 07:32-07:38/6	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08 07:32-07:41/9	06:07	05:32 06:24-06:27/3	05:39	06:19	07:08 07:33-07:37/4	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05 07:33-07:40/7	06:06	05:31 06:22-06:30/8	05:40	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:22-06:31/9	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:20-06:32/12	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:20-06:33/13	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:20-06:34/14	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 06:20-06:34/14	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 06:20-06:35/15	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 06:20-06:36/16	05:47	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 06:20-06:36/16	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29 06:20-06:36/16	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29 06:20-06:37/17	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 06:20-06:37/17	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30 06:20-06:37/17	05:54	06:40	07:28	08:17	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:21-06:38/17	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:21-06:38/17	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30 06:21-06:38/17	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31 06:21-06:37/16	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:22-06:38/16	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31 06:22-06:37/15	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32 06:23-06:38/15	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32 06:23-06:37/14	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33 06:24-06:37/13	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	43	0	327	37	0	44	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50 16:48	08:24 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:36 18:54-19:56/62 21:51	05:34 18:58-20:06/68 22:04	06:09 21:34	06:57 20:33	07:44 19:25	07:37 17:21	08:26 16:42
2	08:50 16:49	08:23 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 18:55-19:57/62 21:52	05:34 18:58-20:05/67 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 17:19	08:27 16:41
3	08:49 16:50	08:21 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 18:54-19:57/63 21:53	05:35 18:59-20:06/67 22:04	06:12 21:30	07:00 20:29	07:48 19:21	07:40 17:17	08:29 16:41
4	08:49 16:51	08:19 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 18:54-19:58/64 21:54	05:36 18:59-20:06/67 22:03	06:13 21:29	07:02 20:27	07:49 19:19	07:42 17:16	08:30 16:40
5	08:49 16:52	08:18 17:42	07:24 18:32	07:14 20:24	06:13 21:13	05:33 18:54-19:59/65 21:55	05:37 18:59-20:05/66 22:03	06:15 21:27	07:03 20:24	07:51 19:16	07:43 17:14	08:31 16:40
6	08:49 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 18:54-19:59/65 21:56	05:37 19:00-20:05/65 22:02	06:16 21:25	07:05 20:22	07:53 19:14	07:45 17:12	08:33 16:39
7	08:48 16:55	08:15 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 18:54-20:00/66 21:56	05:38 19:00-20:05/65 22:02	06:18 21:24	07:06 20:20	07:54 19:12	07:47 17:11	08:34 16:39
8	08:48 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 21:17	05:32 18:53-20:00/67 21:57	05:39 19:01-20:05/64 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 16:39
9	08:48 16:57	08:11 17:49	07:15 18:39	07:05 20:30	06:06 21:19	05:31 18:54-20:00/66 21:58	05:40 19:02-20:05/63 22:00	06:21 21:20	07:10 20:15	07:57 19:08	07:50 17:07	08:36 16:38
10	08:47 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 18:54-20:01/67 21:59	05:41 19:02-20:05/63 22:00	06:23 21:18	07:11 20:13	07:59 19:05	07:52 17:06	08:37 16:38
11	08:46 17:00	08:08 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:30 18:53-20:01/68 22:00	05:42 19:03-20:04/61 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:24	05:30 18:54-20:01/67 22:00	05:43 19:03-20:04/61 21:58	06:26 21:14	07:14 20:09	08:02 19:01	07:56 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 18:54-20:02/68 22:01	05:44 19:04-20:04/60 21:57	06:27 21:13	07:16 08:13-08:17/4 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 19:16-19:30/14 21:27	05:30 18:54-20:02/68 22:02	05:45 19:04-20:03/59 21:56	06:29 21:11	07:17 08:09-08:20/11 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:44 17:06	08:00 18:00	07:02 18:49	06:52 20:40	05:56 19:12-19:35/23 21:28	05:30 18:54-20:03/69 22:02	05:46 19:05-20:02/57 21:56	06:30 21:09	07:19 08:07-08:22/15 20:02	08:07 18:55	08:01 16:58	08:42 16:38
16	08:43 17:08	07:58 18:02	06:59 18:50	06:50 20:42	05:55 19:10-19:38/28 21:30	05:29 18:54-20:03/69 22:03	05:47 19:06-20:02/56 21:55	06:32 21:07	07:21 08:05-08:22/17 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 19:07-19:39/32 21:31	05:29 18:55-20:03/68 22:03	05:49 19:06-20:01/55 21:54	06:33 21:05	07:22 08:04-08:23/19 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:55 18:05	06:55 07:24-07:32/8 18:54	06:46 20:45	05:52 19:05-19:41/36 21:33	05:29 18:55-20:04/69 22:03	05:50 19:07-20:00/53 21:52	06:35 21:03	07:24 08:03-08:23/20 19:55	08:12 18:48	08:06 16:55	08:45 16:39
19	08:40 17:12	07:53 18:07	06:53 07:21-07:35/14 18:55	06:44 20:47	05:51 19:04-19:43/39 21:34	05:29 18:55-20:04/69 22:04	05:51 19:08-19:59/51 21:51	06:37 21:01	07:25 08:03-08:23/20 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:51 18:09	06:50 07:20-07:36/16 18:57	06:42 20:48	05:49 19:03-19:45/42 21:35	05:29 18:55-20:04/69 22:04	05:52 19:08-19:58/50 21:50	06:38 20:59	07:27 08:03-08:23/20 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:16	07:49 18:11	06:48 07:18-07:36/18 18:59	06:40 20:50	05:48 19:01-19:45/44 21:37	05:30 18:55-20:04/69 22:04	05:54 19:10-19:58/48 21:49	06:40 20:57	07:28 08:02-08:22/20 19:48	08:17 18:42	08:11 16:51	08:47 16:40
22	08:37 17:17	07:47 18:12	06:46 07:17-07:36/19 19:00	06:38 20:52	05:47 19:00-19:47/47 21:38	05:30 18:56-20:05/69 22:05	05:55 19:11-19:57/46 21:48	06:41 20:55	07:30 08:03-08:22/19 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:45 18:14	06:44 07:16-07:37/21 19:02	06:36 20:53	05:45 18:59-19:48/49 21:40	05:30 18:56-20:05/69 22:05	05:56 19:12-19:55/43 21:47	06:43 20:53	07:32 08:03-08:20/17 19:44	08:21 18:38	08:14 16:49	08:48 16:41
24	08:35 17:21	07:43 18:16	06:41 07:16-07:37/21 19:04	06:34 20:55	05:44 18:58-19:49/51 21:41	05:30 18:56-20:05/69 22:05	05:58 19:13-19:54/41 21:45	06:44 20:50	07:33 08:04-08:19/15 19:41	08:23 18:36	08:16 16:48	08:48 16:41
25	08:34 17:22	07:41 18:18	06:39 07:15-07:35/20 19:05	06:32 20:56	05:43 18:58-19:50/52 21:42	05:31 18:56-20:05/69 22:05	05:59 19:15-19:53/38 21:44	06:46 20:48	07:35 08:06-08:16/10 19:39	07:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 07:16-07:35/19 19:07	06:30 20:58	05:42 18:57-19:51/54 21:43	05:31 18:57-20:05/68 22:05	06:00 19:16-19:51/35 21:43	06:48 20:46	07:36 19:37	07:26 17:32	08:19 16:46	08:49 16:43
27	08:31 17:26	07:36 18:21	06:34 07:16-07:34/18 19:09	06:28 21:00	05:41 18:57-19:52/55 21:45	05:31 18:56-20:05/69 22:05	06:02 19:18-19:49/31 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:30 17:27	07:34 18:23	06:32 07:16-07:32/16 19:10	06:26 21:01	05:40 18:56-19:52/56 21:46	05:32 18:57-20:06/69 22:05	06:03 19:21-19:47/26 21:40	06:51 20:42	07:40 19:32	07:30 17:28	08:22 16:44	08:49 16:44
29	08:28 17:29		07:30 08:18-08:30/12 20:12	06:24 21:03	05:39 18:55-19:53/58 21:47	05:32 18:57-20:05/68 22:05	06:05 19:24-19:44/20 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 17:31		07:28 08:21-08:27/6 20:14	06:22 21:05	05:38 18:56-19:55/59 21:48	05:33 18:58-20:06/68 22:04	06:06 19:28-19:38/10 21:37	06:54 20:38	07:43 19:28	07:33 17:25	08:25 16:43	08:50 16:46
31	08:25 17:33		07:25 20:15		05:37 18:55-19:55/60 21:49		06:08 21:35	06:55 20:35		07:35 17:23		08:50 16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	208	0	799	2018	1556	0	207	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32	08:20-08:33/13	07:23	19:02-19:30/28	06:20		05:36	06:04-06:06/2
	16:48	17:35	18:25		20:17		21:06		21:51	
2	08:50	08:23	07:30	08:18-08:35/17	07:21	19:02-19:31/29	06:18	20:20-20:26/6	05:36	06:04-06:07/3
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28	08:16-08:37/21	07:19	19:01-19:31/30	06:16	20:17-20:29/12	05:35	06:03-06:06/3
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26	08:14-08:39/25	07:17	19:01-19:31/30	06:15	20:16-20:31/15	05:34	06:02-06:06/4
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24	08:11-08:39/28	07:14	19:01-19:31/30	06:13	20:14-20:32/18	05:33	06:02-06:06/4
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21	08:10-08:40/30	07:12	19:01-19:30/29	06:11	20:13-20:33/20	05:33	06:01-06:05/4
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19	08:09-08:41/32	07:10	19:01-19:29/28	06:09	20:12-20:34/22	05:32	06:01-06:05/4
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	08:09-08:41/32	07:08	19:02-19:28/26	06:08	20:11-20:34/23	05:32	06:02-06:05/3
	16:56	17:47	18:37		20:29		21:17		21:57	
9	08:48	08:11	07:15	08:08-08:41/33	07:05	19:02-19:28/26	06:06	20:11-20:35/24	05:31	
	16:57	17:49	18:39		20:30		21:19		21:58	
10	08:47	08:09	07:13	08:07-08:41/34	07:03	19:03-19:26/23	06:04	20:10-20:35/25	05:31	
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:46	08:08	07:10	08:07-08:41/34	07:01	19:04-19:24/20	06:03	20:11-20:36/25	05:31	
	17:00	17:53	18:42		20:33		21:22		22:00	
12	08:46	08:06	07:08	08:07-08:40/33	06:59	19:06-19:22/16	06:01	20:10-20:36/26	05:30	
	17:02	17:54	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	08:07-08:40/33	06:57	19:08-19:20/12	05:59	20:11-20:36/25	05:30	
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	08:07-08:39/32	06:55		05:58	20:10-20:36/26	05:30	
	17:05	17:58	18:47		20:38		21:27		22:02	
15	08:44	08:00	07:02	08:07-08:38/31	06:52		05:56	20:11-20:36/25	05:30	
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	08:08-08:37/29	06:50		05:55	20:11-20:36/25	05:29	
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	08:08-08:35/27	06:48		05:53	20:11-20:35/24	05:29	
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	08:09-08:33/24	06:46		05:52	20:12-20:35/23	05:29	
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:53	08:11-08:31/20	06:44		05:51	20:12-20:35/23	05:29	
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50	08:13-08:29/16	06:42		05:49	20:13-20:34/21	05:30	
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48	08:15-08:24/9	06:40		05:48	20:13-20:33/20	05:30	
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46		06:38		05:47	20:14-20:32/18	05:30	
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:44		06:36		05:46	20:16-20:32/16	05:30	
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41		06:34		05:44	20:17-20:31/14	05:30	
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:41	06:39		06:32		05:43	20:18-20:30/12	05:31	
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37	18:15-18:22/7	06:30		05:42	20:20-20:28/8	05:31	
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34	18:11-18:25/14	06:28		05:41	20:22-20:26/4	05:32	
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32	18:08-18:26/18	06:26		05:40		05:32	
	17:28	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	19:06-19:28/22	06:24		05:39		05:33	
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	19:05-19:30/25	06:22		05:38		05:33	
	17:31		20:14		21:05		21:48		22:04	
31	08:26		07:25	19:04-19:31/27			05:37	06:05-06:06/1		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	666		327		501		27	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34		06:09	20:21-20:46/25	06:57	19:04-19:24/20	07:44	08:46-09:19/33	07:37	08:26
	22:04		21:34		20:33		19:25		17:21	16:42
2	05:34		06:10	20:20-20:45/25	06:59	19:01-19:24/23	07:46	08:46-09:19/33	07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35		06:12	20:21-20:46/25	07:00	19:00-19:26/26	07:48	08:45-09:19/34	07:40	08:29
	22:04		21:30		20:29		19:21		17:17	16:41
4	05:36		06:13	20:21-20:45/24	07:02	18:59-19:25/26	07:49	08:45-09:18/33	07:42	08:30
	22:03		21:29		20:27		19:19		17:16	16:40
5	05:37	06:07-06:11/4	06:15	20:22-20:45/23	07:03	18:58-19:26/28	07:51	08:46-09:18/32	07:44	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37	06:07-06:11/4	06:16	20:22-20:43/21	07:05	18:57-19:26/29	07:53	08:45-09:17/32	07:45	08:33
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38	06:08-06:12/4	06:18	20:23-20:43/20	07:06	18:57-19:26/29	07:54	08:46-09:16/30	07:47	08:34
	22:02		21:24		20:20		19:12		17:11	16:39
8	05:39	06:09-06:13/4	06:20	20:24-20:41/17	07:08	18:55-19:25/30	07:56	08:47-09:15/28	07:49	08:35
	22:01		21:22		20:18		19:10		17:09	16:39
9	05:40	06:10-06:13/3	06:21	20:25-20:39/14	07:10	18:56-19:25/29	07:57	08:47-09:13/26	07:50	08:36
	22:00		21:20		20:15		19:08		17:07	16:38
10	05:41	06:11-06:14/3	06:23	20:27-20:37/10	07:11	18:55-19:24/29	07:59	08:49-09:12/23	07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42	06:12-06:14/2	06:24		07:13	18:55-19:23/28	08:01	08:51-09:11/20	07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43	06:13-06:15/2	06:26		07:14	18:55-19:22/27	08:02	08:53-09:09/16	07:56	08:39
	21:58		21:14		20:09		19:01		17:03	16:38
13	05:44	06:14-06:15/1	06:27		07:16	18:56-19:21/25	08:04	08:56-09:04/8	07:57	08:40
	21:57		21:13		20:06		18:59		17:01	16:38
14	05:45		06:29		07:17	18:56-19:19/23	08:06		07:59	08:41
	21:56		21:11		20:04		18:57		17:00	16:38
15	05:46		06:30		07:19	18:58-19:17/19	08:07		08:01	08:42
	21:56		21:09		20:02		18:55		16:59	16:38
16	05:48		06:32		07:21	18:59-19:14/15	08:09		08:02	08:43
	21:55		21:07		20:00		18:52		16:57	16:38
17	05:49	20:30-20:37/7	06:33		07:22	19:02-19:11/9	08:11		08:04	08:44
	21:54		21:05		19:57		18:50		16:56	16:38
18	05:50	20:28-20:39/11	06:35		07:24		08:12		08:06	08:45
	21:52		21:03		19:55		18:48		16:55	16:39
19	05:51	20:27-20:40/13	06:37		07:25		08:14		08:07	08:45
	21:51		21:01		19:53		18:46		16:53	16:39
20	05:52	20:26-20:41/15	06:38		07:27		08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54	20:26-20:43/17	06:40		07:28		08:18		08:11	08:47
	21:49		20:57		19:48		18:42		16:51	16:40
22	05:55	20:24-20:43/19	06:41		07:30	09:03-09:07/4	08:19		08:12	08:47
	21:48		20:55		19:46		18:40		16:50	16:40
23	05:56	20:23-20:44/21	06:43		07:32	08:57-09:11/14	08:21		08:14	08:48
	21:47		20:53		19:44		18:38		16:49	16:41
24	05:58	20:22-20:44/22	06:44		07:33	08:55-09:14/19	08:23		08:16	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59	20:23-20:45/22	06:46		07:35	08:52-09:15/23	07:24		08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00	20:22-20:45/23	06:48		07:36	08:51-09:17/26	07:26		08:19	08:49
	21:43		20:46		19:37		17:32		16:46	16:43
27	06:02	20:21-20:46/25	06:49		07:38	08:50-09:18/28	07:28		08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03	20:22-20:46/24	06:51		07:40	08:48-09:18/30	07:30		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:05	20:21-20:46/25	06:52		07:41	08:48-09:19/31	07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06	20:20-20:46/26	06:54	19:09-19:21/12	07:43	08:46-09:19/33	07:33		08:25	08:50
	21:37		20:38		19:28		17:25		16:43	16:46
31	06:08	20:21-20:47/26	06:55	19:05-19:22/17			07:35			08:50
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	323		233		623		348		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:51-11:38/47 16:48	08:24 11:17-11:28/11 17:35	07:32 18:25	07:23 19:39-19:49/10 20:17	06:20 19:47-20:12/25 21:06	05:36 21:51
2	08:50 10:51-11:38/47 16:49	08:23 17:36	07:30 18:26	07:21 19:38-19:51/13 20:19	06:18 19:47-20:11/24 21:08	05:36 06:04-06:06/2 21:52
3	08:49 10:52-11:39/47 16:50	08:21 17:38	07:28 18:28	07:19 19:37-19:52/15 20:20	06:16 19:47-20:10/23 21:10	05:35 06:03-06:06/3 21:53
4	08:49 10:52-11:39/47 16:51	08:19 17:40	07:26 18:30	07:17 19:36-19:53/17 20:22	06:15 19:49-20:10/21 21:11	05:34 06:02-06:06/4 21:54
5	08:49 10:52-11:40/48 16:52	08:18 17:42	07:24 18:32	07:14 19:36-19:53/17 20:24	06:13 19:50-20:09/19 21:13	05:33 06:02-06:06/4 21:55
6	08:49 10:52-11:40/48 16:54	08:16 17:44	07:21 17:59-18:02/3 18:33	07:12 19:34-19:52/18 20:25	06:11 19:50-20:07/17 21:14	05:33 06:01-06:06/5 21:56
7	08:48 10:53-11:41/48 16:55	08:15 17:45	07:19 17:56-18:06/10 18:35	07:10 19:35-19:51/16 20:27	06:09 19:53-20:06/13 21:16	05:32 06:01-06:07/6 21:56
8	08:48 10:53-11:41/48 16:56	08:13 17:47	07:17 17:54-18:08/14 18:37	07:08 19:35-19:51/16 20:29	06:08 19:54-20:04/10 21:17	05:32 06:01-06:07/6 21:57
9	08:48 10:54-11:42/48 16:58	08:11 17:49	07:15 17:52-18:08/16 18:39	07:05 19:36-19:50/14 20:30	06:06 21:19	05:31 06:00-06:07/7 21:58
10	08:47 10:54-11:42/48 16:59	08:09 17:51	07:13 17:51-18:09/18 18:40	07:03 19:38-19:48/10 20:32	06:04 21:21	05:31 06:00-06:07/7 21:59
11	08:46 10:54-11:42/48 17:00	08:08 17:53	07:10 17:51-18:09/18 18:42	07:01 19:39-19:44/5 20:34	06:03 21:22	05:31 06:00-06:08/8 22:00
12	08:46 10:56-11:43/47 17:02	08:06 17:54	07:08 17:51-18:09/18 18:44	06:59 20:35	06:01 21:24	05:30 05:59-06:07/8 22:00
13	08:45 10:56-11:43/47 17:03	08:04 17:56	07:06 17:50-18:08/18 18:45	06:57 20:37	05:59 21:25	05:30 05:59-06:07/8 22:01
14	08:44 10:56-11:43/47 17:05	08:02 17:58	07:04 17:51-18:08/17 18:47	06:55 20:38	05:58 21:27	05:30 05:59-06:08/9 22:02
15	08:44 10:57-11:43/46 17:06	08:00 18:00	07:02 17:52-18:07/15 18:49	06:52 20:40	05:56 21:28	05:30 05:59-06:08/9 22:02
16	08:43 10:57-11:43/46 17:08	07:58 18:02	06:59 17:53-18:06/13 18:50	06:50 20:42	05:55 21:30	05:29 05:59-06:08/9 22:03
17	08:42 10:58-11:44/46 17:09	07:57 18:03	06:57 17:55-18:02/7 18:52	06:48 20:43	05:53 21:31	05:29 05:59-06:08/9 22:03
18	08:41 10:58-11:44/46 17:11	07:55 18:05	06:55 18:54	06:46 20:45	05:52 21:33	05:29 05:59-06:08/9 22:03
19	08:40 10:59-11:44/45 17:12	07:53 18:07	06:53 18:55	06:44 19:56-20:06/10 20:47	05:51 21:34	05:29 05:59-06:08/9 22:04
20	08:39 11:00-11:44/44 17:14	07:51 18:09	06:50 18:57	06:42 19:53-20:09/16 20:48	05:49 21:35	05:30 05:59-06:08/9 22:04
21	08:38 11:00-11:43/43 17:16	07:49 18:11	06:48 18:59	06:40 19:52-20:10/18 20:50	05:48 21:37	05:30 05:59-06:08/9 22:04
22	08:37 11:01-11:43/42 17:17	07:47 18:12	06:46 19:00	06:38 19:50-20:11/21 20:52	05:47 21:38	05:30 06:00-06:09/9 22:05
23	08:36 11:02-11:43/41 17:19	07:45 18:14	06:44 19:02	06:36 19:49-20:12/23 20:53	05:46 21:40	05:30 06:00-06:09/9 22:05
24	08:35 11:03-11:43/40 17:21	07:43 18:16	06:41 19:04	06:34 19:48-20:13/25 20:55	05:44 21:41	05:30 06:00-06:09/9 22:05
25	08:34 11:03-11:41/38 17:22	07:41 18:18	06:39 19:05	06:32 19:47-20:13/26 20:57	05:43 21:42	05:31 06:01-06:10/9 22:05
26	08:32 11:05-11:41/36 17:24	07:38 18:19	06:37 19:07	06:30 19:47-20:13/26 20:58	05:42 21:43	05:31 06:01-06:10/9 22:05
27	08:31 11:06-11:39/33 17:26	07:36 18:21	06:35 19:09	06:28 19:46-20:13/27 21:00	05:41 21:45	05:32 06:02-06:11/9 22:05
28	08:30 11:07-11:39/32 17:28	07:34 18:23	06:32 19:10	06:26 19:46-20:13/27 21:01	05:40 21:46	05:32 06:02-06:11/9 22:05
29	08:28 11:08-11:37/29 17:29		07:30 20:12	06:24 19:47-20:13/26 21:03	05:39 21:47	05:33 06:03-06:11/8 22:05
30	08:27 11:11-11:35/24 17:31		07:28 20:14	06:22 19:47-20:13/26 21:05	05:38 21:48	05:33 06:03-06:11/8 22:04
31	08:26 11:13-11:32/19 17:33		07:25 19:44-19:47/3 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1315	11	170	422	152	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34	06:04-06:12/8	06:09		06:57	19:39-19:44/5	07:44	18:30-18:48/18	07:37		08:26	10:36-11:24/48
	22:04		21:34		20:33		19:25		17:21		16:42	
2	05:34	06:04-06:12/8	06:10		06:59	19:36-19:46/10	07:46	18:30-18:48/18	07:38		08:27	10:37-11:25/48
	22:04		21:32		20:31		19:23		17:19		16:41	
3	05:35	06:05-06:12/7	06:12		07:00	19:34-19:48/14	07:48	18:29-18:47/18	07:40		08:29	10:37-11:25/48
	22:04		21:30		20:29		19:21		17:17		16:41	
4	05:36	06:06-06:13/7	06:13	20:07-20:11/4	07:02	19:32-19:48/16	07:49	18:30-18:46/16	07:42		08:30	10:38-11:26/48
	22:03		21:29		20:27		19:19		17:16		16:40	
5	05:37	06:07-06:13/6	06:15	20:04-20:15/11	07:03	19:32-19:48/16	07:51	18:30-18:45/15	07:44		08:31	10:38-11:26/48
	22:03		21:27		20:24		19:16		17:14		16:40	
6	05:37	06:07-06:12/5	06:17	20:01-20:16/15	07:05	19:31-19:48/17	07:53	18:31-18:43/12	07:45		08:33	10:38-11:26/48
	22:02		21:25		20:22		19:14		17:12		16:39	
7	05:38	06:08-06:13/5	06:18	20:00-20:18/18	07:06	19:31-19:48/17	07:54	18:33-18:41/8	07:47		08:34	10:39-11:27/48
	22:02		21:24		20:20		19:12		17:11		16:39	
8	05:39	06:09-06:13/4	06:20	19:59-20:19/20	07:08	19:30-19:47/17	07:56		07:49		08:35	10:40-11:27/47
	22:01		21:22		20:18		19:10		17:09		16:39	
9	05:40	06:10-06:13/3	06:21	19:57-20:19/22	07:10	19:31-19:46/15	07:57		07:50		08:36	10:40-11:27/47
	22:00		21:20		20:15		19:08		17:07		16:38	
10	05:41	06:11-06:13/2	06:23	19:57-20:20/23	07:11	19:31-19:44/13	07:59		07:52	10:48-10:59/11	08:37	10:40-11:28/48
	22:00		21:18		20:13		19:05		17:06		16:38	
11	05:42	06:12-06:13/1	06:24	19:55-20:20/25	07:13	19:32-19:43/11	08:01		07:54	10:45-11:04/19	08:38	10:41-11:28/47
	21:59		21:16		20:11		19:03		17:04		16:38	
12	05:43		06:26	19:55-20:21/26	07:14	19:34-19:39/5	08:02		07:56	10:42-11:06/24	08:39	10:41-11:28/47
	21:58		21:14		20:09		19:01		17:03		16:38	
13	05:44		06:27	19:54-20:20/26	07:16		08:04		07:57	10:40-11:09/29	08:40	10:42-11:29/47
	21:57		21:13		20:06		18:59		17:01		16:38	
14	05:45		06:29	19:54-20:21/27	07:17		08:06		07:59	10:39-11:11/32	08:41	10:42-11:29/47
	21:56		21:11		20:04		18:57		17:00		16:38	
15	05:46		06:30	19:54-20:20/26	07:19		08:07		08:01	10:38-11:12/34	08:42	10:43-11:30/47
	21:56		21:09		20:02		18:55		16:59		16:38	
16	05:48		06:32	19:54-20:20/26	07:21		08:09		08:02	10:38-11:14/36	08:43	10:44-11:30/46
	21:55		21:07		20:00		18:52		16:57		16:38	
17	05:49		06:34	19:53-20:19/26	07:22		08:11		08:04	10:37-11:15/38	08:44	10:44-11:31/47
	21:54		21:05		19:57		18:50		16:56		16:38	
18	05:50		06:35	19:54-20:19/25	07:24		08:12		08:06	10:37-11:17/40	08:45	10:44-11:30/46
	21:52		21:03		19:55		18:48		16:55		16:39	
19	05:51		06:37	19:54-20:18/24	07:25		08:14		08:07	10:36-11:17/41	08:45	10:45-11:31/46
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52		06:38	19:55-20:18/23	07:27		08:16		08:09	10:36-11:18/42	08:46	10:46-11:32/46
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54		06:40	19:55-20:16/21	07:28		08:18		08:11	10:36-11:19/43	08:47	10:46-11:32/46
	21:49		20:57		19:48		18:42		16:51		16:40	
22	05:55		06:41	19:56-20:14/18	07:30		08:19		08:12	10:36-11:20/44	08:47	10:47-11:33/46
	21:48		20:55		19:46		18:40		16:50		16:40	
23	05:56		06:43	19:57-20:12/15	07:32		08:21		08:14	10:35-11:20/45	08:48	10:47-11:33/46
	21:47		20:53		19:44		18:38		16:49		16:41	
24	05:58		06:44	20:00-20:10/10	07:33		08:23		08:16	10:35-11:21/46	08:48	10:47-11:33/46
	21:45		20:50		19:41		18:36		16:48		16:41	
25	05:59		06:46		07:35		07:24		08:17	10:36-11:22/46	08:48	10:48-11:34/46
	21:44		20:48		19:39		17:34		16:47		16:42	
26	06:00		06:48		07:36	18:39-18:44/5	07:26		08:19	10:35-11:22/47	08:49	10:48-11:35/47
	21:43		20:46		19:37		17:32		16:46		16:43	
27	06:02		06:49		07:38	18:36-18:47/11	07:28		08:20	10:36-11:22/46	08:49	10:48-11:35/47
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03		06:51		07:40	18:33-18:47/14	07:30		08:22	10:36-11:23/47	08:49	10:49-11:35/46
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05		06:52		07:41	18:32-18:48/16	07:31		08:23	10:36-11:23/47	08:49	10:49-11:36/47
	21:38		20:40		19:30		17:26		16:43		16:45	
30	06:06		06:54		07:43	18:30-18:48/18	07:33		08:25	10:37-11:24/47	08:50	10:50-11:36/46
	21:37		20:38		19:28		17:25		16:43		16:46	
31	06:08		06:55				07:35				08:50	10:50-11:37/47
	21:35		20:35				17:23				16:47	
Potential sun hours	498		452		380		333		269		248	
Sum of minutes with flicker	56		431		220		105		804		1454	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:20-09:31/11 16:48	08:24 16:56-17:06/10 17:35	07:32 08:12-08:29/17 18:25	07:23 20:17	06:20 21:06	05:36 21:50
2	08:49 09:20-09:32/12 16:49	08:23 16:55-17:07/12 17:36	07:30 08:13-08:28/15 18:26	07:21 20:19	06:18 21:08	05:36 21:52
3	08:49 09:20-09:33/13 16:50	08:21 16:55-17:08/13 17:38	07:28 08:14-08:26/12 18:28	07:19 20:20	06:16 21:09	05:35 21:53
4	08:49 09:19-09:33/14 16:51	08:19 16:56-17:09/13 17:40	07:26 08:17-08:23/6 18:30 07:49-07:54/5	07:17 20:22	06:15 21:11	05:34 21:54
5	08:49 09:19-09:34/15 16:53	08:18 16:56-17:08/12 17:42	07:24 07:47-07:56/9 18:32	07:14 20:24	06:13 21:13	05:34 21:55
6	08:49 09:18-09:35/17 16:54	08:16 16:57-17:07/10 17:44	07:21 07:44-07:56/12 18:33	07:12 20:25	06:11 21:14	05:33 21:56
7	08:48 09:18-09:36/18 16:55	08:15 16:58-17:06/8 17:45	07:19 07:43-07:57/14 18:35	07:10 20:27	06:09 21:16	05:32 21:56
8	08:48 09:17-09:36/19 16:56	08:13 17:03-17:04/1 17:47	07:17 07:42-07:57/15 18:37	07:08 20:29	06:08 21:17	05:32 21:57
9	08:47 09:18-09:37/19 16:58	08:11 17:49	07:15 07:42-07:57/15 18:39	07:05 20:30	06:06 21:19	05:31 21:58
10	08:47 09:18-09:38/20 16:59	08:09 17:51	07:13 07:42-07:55/13 18:40	07:03 20:32	06:04 21:21	05:31 21:59
11	08:46 09:18-09:38/20 17:00	08:08 17:53	07:10 07:43-07:54/11 18:42	07:01 20:33	06:03 21:22	05:31 22:00
12	08:46 09:20-09:39/19 17:02	08:06 17:55	07:08 07:44-07:52/8 18:44	06:59 07:22-07:23/1 20:35	06:01 21:24	05:30 22:00
13	08:45 09:21-09:39/18 17:03	08:04 17:56	07:06 07:29-07:32/3 18:45	06:57 07:19-07:22/3 20:37	05:59 21:25	05:30 22:01
14	08:44 09:22-09:40/18 17:05	08:02 17:58	07:04 07:26-07:32/6 18:47	06:55 07:17-07:21/4 20:38	05:58 21:27	05:30 22:01
15	08:44 09:22-09:40/18 17:06	08:00 18:00	07:02 07:24-07:31/7 18:49	06:52 07:15-07:19/4 20:40	05:56 21:28	05:30 22:02
16	08:43 09:23-09:40/17 17:08	07:58 18:02	06:59 07:23-07:30/7 18:50	06:50 20:42	05:55 21:30	05:30 22:03
17	08:42 09:24-09:40/16 17:09	07:56 18:04	06:57 07:25-07:28/3 18:52	06:48 20:43	05:54 21:31	05:30 22:03
18	08:41 09:24-09:40/16 17:11	07:55 18:05	06:55 18:54	06:46 20:45	05:52 21:33	05:30 22:03
19	08:40 09:25-09:40/15 17:12	07:53 18:07	06:53 18:55	06:44 20:47	05:51 21:34	05:30 22:04
20	08:39 09:26-09:40/14 17:14	07:51 08:19-08:25/6 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04
21	08:38 09:27-09:38/11 17:16	07:49 08:16-08:27/11 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04
22	08:37 09:29-09:37/8 17:17	07:47 08:15-08:29/14 18:12	06:46 18:29-18:34/5 19:00	06:38 20:52	05:47 21:38	05:30 22:05
23	08:36 09:32-09:35/3 17:19	07:45 08:13-08:30/17 18:14	06:44 18:26-18:36/10 19:02	06:36 20:53	05:46 21:39	05:30 22:05
24	08:35 17:21	07:43 08:13-08:31/18 18:16 17:48-17:50/2	06:41 18:24-18:37/13 19:04	06:34 20:55	05:44 21:41	05:31 22:05
25	08:34 17:22	07:41 08:12-08:31/19 18:18 17:48-17:52/4	06:39 18:23-18:38/15 19:05	06:32 20:56	05:43 21:42	05:31 22:05
26	08:32 17:24	07:38 08:12-08:31/19 18:19 17:48-17:54/6	06:37 18:22-18:38/16 19:07	06:30 20:58	05:42 21:43	05:31 22:05
27	08:31 17:26	07:36 08:12-08:31/19 18:21 17:47-17:55/8	06:35 18:22-18:38/16 19:09	06:28 21:00	05:41 21:45	05:32 22:05
28	08:30 17:28	07:34 08:11-08:30/19 18:23 17:49-17:54/5	06:32 18:22-18:37/15 19:10	06:26 21:01	05:40 21:46	05:32 22:05
29	08:28 16:58-16:59/1 17:29		07:30 19:22-19:36/14 20:12	06:24 21:03	05:39 21:47	05:33 22:05
30	08:27 16:57-17:01/4 17:31		07:28 19:23-19:35/12 20:14	06:22 21:05	05:38 21:48	05:33 22:04
31	08:25 16:56-17:03/7 17:33		07:26 19:25-19:34/9 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	363	246	303	12	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57		07:44	08:24-08:30/6	07:37		08:26	09:00-09:20/20
	22:04	21:34		20:33		19:25	08:09-08:11/2	17:21		16:42	
2	05:34	06:11		06:59		07:46	08:22-08:32/10	07:38		08:27	09:01-09:21/20
	22:04	21:32		20:31		19:23		17:19		16:42	
3	05:35	06:12		07:00		07:48	08:20-08:33/13	07:40	16:30-16:34/4	08:29	09:01-09:20/19
	22:03	21:30		20:29		19:21		17:17		16:41	
4	05:36	06:14		07:02		07:49	08:19-08:33/14	07:42	16:28-16:36/8	08:30	09:02-09:21/19
	22:03	21:29		20:27		19:19		17:16		16:40	
5	05:37	06:15		07:03		07:51	08:19-08:34/15	07:43	16:27-16:37/10	08:31	09:03-09:21/18
	22:03	21:27		20:24		19:16		17:14		16:40	
6	05:38	06:17		07:05		07:53	08:18-08:33/15	07:45	16:26-16:38/12	08:33	09:04-09:21/17
	22:02	21:25		20:22		19:14		17:12		16:40	
7	05:38	06:18		07:07		07:54	08:19-08:32/13	07:47	16:26-16:39/13	08:34	09:06-09:21/15
	22:02	21:24		20:20		19:12		17:11		16:39	
8	05:39	06:20		07:08		07:56	08:21-08:32/11	07:49	16:26-16:39/13	08:35	09:07-09:21/14
	22:01	21:22		20:18		19:10		17:09		16:39	
9	05:40	06:21		07:10		07:57	08:22-08:29/7	07:50	16:26-16:38/12	08:36	09:08-09:21/13
	22:00	21:20		20:15		19:08		17:07		16:39	
10	05:41	06:23		07:11		07:59	08:50-08:59/9	07:52	16:27-16:36/9	08:37	09:09-09:21/12
	22:00	21:18		20:13		19:05	08:24-08:26/2	17:06		16:38	
11	05:42	06:24		07:13		08:01	08:48-09:01/13	07:54	16:27-16:34/7	08:38	09:10-09:21/11
	21:59	21:16		20:11		19:03		17:04		16:38	
12	05:43	06:26		07:14	19:17-19:25/8	08:02	08:47-09:02/15	07:56	16:28-16:32/4	08:39	09:11-09:21/10
	21:58	21:14		20:09		19:01		17:03		16:38	
13	05:44	06:27		07:16	19:15-19:26/11	08:04	08:45-09:02/17	07:57	16:30-16:31/1	08:40	09:12-09:21/9
	21:57	21:13		20:06		18:59	18:24-18:25/1	17:01		16:38	
14	05:45	06:29		07:18	19:13-19:27/14	08:06	08:44-09:03/19	07:59		08:41	09:13-09:21/8
	21:56	21:11		20:04		18:57	18:21-18:28/7	17:00		16:38	
15	05:47	06:30		07:19	19:12-19:27/15	08:07	08:44-09:03/19	08:01		08:42	09:14-09:21/7
	21:55	21:09		20:02		18:55	18:20-18:27/7	16:59		16:38	
16	05:48	06:32		07:21	19:11-19:27/16	08:09	08:44-09:03/19	08:02		08:43	09:15-09:21/6
	21:54	21:07		20:00		18:53	18:19-18:24/5	16:57		16:38	
17	05:49	06:34		07:22	19:11-19:27/16	08:11	08:44-09:02/18	08:04		08:44	09:16-09:21/5
	21:53	21:05		19:57		18:50	18:19-18:22/3	16:56		16:39	
18	05:50	06:35		07:24	19:10-19:25/15	08:12	08:44-09:02/18	08:06		08:45	09:16-09:20/4
	21:52	21:03		19:55		18:48		16:55		16:39	
19	05:51	06:37		07:25	19:11-19:25/14	08:14	08:45-09:01/16	08:07	09:05-09:09/4	08:45	09:17-09:18/1
	21:51	21:01		19:53		18:46		16:53		16:39	
20	05:53	06:38		07:27	19:12-19:23/11	08:16	08:46-09:00/14	08:09	09:04-09:12/8	08:46	
	21:50	20:59		19:50		18:44		16:52		16:39	
21	05:54	06:40		07:29	19:13-19:20/7	08:18	08:48-08:57/9	08:11	09:03-09:14/11	08:47	
	21:49	20:57		19:48		18:42		16:51		16:40	
22	05:55	06:41		07:30		08:19		08:12	09:02-09:16/14	08:47	
	21:48	20:55		19:46		18:40		16:50		16:40	
23	05:56	06:43		07:32		08:21		08:14	09:01-09:16/15	08:48	
	21:47	20:53		19:44		18:38		16:49		16:41	
24	05:58	06:45		07:33		08:23		08:16	09:01-09:17/16	08:48	09:19-09:20/1
	21:45	20:50		19:41		18:36		16:48		16:41	
25	05:59	06:46		07:35		07:24		08:17	09:02-09:18/16	08:48	09:22-09:24/2
	21:44	20:48		19:39		17:34		16:47		16:42	09:20-09:21/1
26	06:01	06:48		07:36		07:26		08:19	09:01-09:18/17	08:49	09:20-09:25/5
	21:43	20:46		19:37		17:32		16:46		16:43	
27	06:02	06:49		07:38	08:05-08:12/7	07:28		08:20	09:02-09:19/17	08:49	09:20-09:26/6
	21:41	20:44		19:34		17:30		16:45		16:43	
28	06:03	06:51	07:17-07:21/4	07:40	08:04-08:12/8	07:30		08:22	09:02-09:20/18	08:49	09:20-09:26/6
	21:40	20:42		19:32		17:28		16:44		16:44	
29	06:05	06:52	07:18-07:22/4	07:41	08:06-08:12/6	07:31		08:23	09:01-09:19/18	08:49	09:20-09:27/7
	21:38	20:40		19:30		17:27		16:44		16:45	
30	06:06	06:54	07:20-07:23/3	07:43	08:08-08:12/4	07:33		08:25	09:01-09:20/19	08:49	09:20-09:28/8
	21:37	20:38		19:28		17:25		16:43		16:46	
31	06:08	06:56	07:21-07:22/1			07:35				08:50	09:20-09:29/9
	21:35	20:35				17:23				16:47	
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	12		152		317		266		273	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:29-15:53/24	08:24 08:57-09:09/12	07:32 17:35-17:51/16	07:23	06:20	05:36 06:16-06:35/19
	16:48	17:35	18:25	20:17	21:06	21:50 20:17-20:40/23
2	08:49 15:30-15:54/24	08:22 08:58-09:08/10	07:30 17:35-17:51/16	07:21	06:18	05:36 06:17-06:36/19
	16:49	17:36	18:26	20:19	21:08	21:52 20:17-20:42/25
3	08:49 15:29-15:54/25	08:21 08:59-09:06/7	07:28 17:36-17:50/14	07:19	06:16	05:35 06:16-06:35/19
	16:50	17:38	18:28	20:20	21:09	21:53 20:16-20:43/27
4	08:49 15:30-15:55/25	08:19	07:26 17:37-17:49/12	07:17	06:15	05:34 06:16-06:35/19
	16:51	17:40	18:30	20:22	21:11	21:54 20:15-20:43/28
5	08:49 15:30-15:56/26	08:18	07:24 17:39-17:46/7	07:14	06:13	05:34 06:17-06:35/18
	16:53	17:42	18:32	20:24	21:13	21:55 20:15-20:44/29
6	08:49 15:30-15:56/26	08:16	07:21	07:12	06:11	05:33 06:17-06:35/18
	16:54	17:44	18:33	20:25	21:14	21:55 20:14-20:45/31
7	08:48 15:31-15:57/26	08:14	07:19	07:10	06:09	05:32 06:18-06:35/17
	16:55	17:45	18:35	20:27	21:16	21:56 20:14-20:46/32
8	08:48 15:31-15:57/26	08:13	07:17	07:08	06:08	05:32 06:19-06:36/17
	16:56	17:47	18:37	20:29	21:17	21:57 20:13-20:46/33
9	08:47 15:32-15:58/26	08:11	07:15	07:05	06:06	05:31 06:18-06:35/17
	16:58	17:49	18:39	20:30	21:19	21:58 20:14-20:47/33
10	08:47 15:32-15:58/26	08:09	07:13	07:03	06:04	05:31 06:19-06:35/16
	16:59	17:51	18:40	20:32	21:21	21:59 20:14-20:48/34
11	08:46 15:32-15:58/26	08:08	07:10	07:01	06:03	05:31 06:20-06:35/15
	17:00	17:53	18:42	20:33	21:22	22:00 20:14-20:49/35
12	08:46 15:32-15:59/27	08:06	07:08	06:59	06:01	05:30 06:19-06:35/16
	17:02	17:54	18:44	20:35	21:24	22:00 20:13-20:48/35
13	08:45 15:33-16:00/27	08:04	07:06	06:57	05:59	05:30 06:20-06:35/15
	17:03	17:56	18:45	20:37	21:25	22:01 20:13-20:49/36
14	08:44 15:34-16:00/26	08:02 08:26-08:28/2	07:04	06:55	05:58	05:30 06:20-06:35/15
	17:05	17:58	18:47	20:38	21:27	22:01 20:14-20:49/35
15	08:44 15:34-16:00/26	08:00 08:24-08:27/3	07:02	06:52	05:56	05:30 06:21-06:35/14
	17:06	18:00	18:49	20:40	21:28	22:02 20:14-20:50/36
16	08:43 15:35-16:00/25	07:58 08:22-08:26/4	06:59	06:50	05:55	05:30 06:21-06:35/14
	17:08	18:02	18:50	20:42	21:30	22:03 20:14-20:50/36
17	08:42 15:35-16:00/25	07:56	06:57	06:48	05:53	05:29 06:22-06:35/13
	17:09	18:03	18:52	20:43	21:31	22:03 20:14-20:51/37
18	08:41 15:36-16:00/24	07:55	06:55 07:17-07:19/2	06:46	05:52	05:29 06:22-06:35/13
	17:11	18:05	18:54	20:45	21:32	22:03 20:14-20:51/37
19	08:40 15:37-16:00/23	07:53	06:53 07:15-07:20/5	06:44	05:51 06:21-06:29/8	05:30 06:22-06:35/13
	17:12	18:07	18:55	20:47	21:34	22:04 20:14-20:51/37
20	08:39 15:37-15:59/22	07:51	06:50 07:13-07:20/7	06:42	05:49 06:20-06:30/10	05:30 06:22-06:35/13
	17:14	18:09	18:57	20:48	21:35	22:04 20:14-20:51/37
21	08:38 15:38-15:59/21	07:49	06:48 07:10-07:19/9	06:40	05:48 06:19-06:32/13	05:30 06:22-06:35/13
	17:16	18:11	18:59	20:50	21:37	22:04 20:14-20:51/37
22	08:37 15:40-15:59/19	07:47 08:10-08:11/1	06:46 07:08-07:18/10	06:38	05:47 06:17-06:32/15	05:30 06:23-06:36/13
	17:17	18:12	19:00	20:52	21:38	22:04 20:15-20:52/37
23	08:36 15:41-15:59/18	07:45 17:41-17:46/5	06:44 07:10-07:17/7	06:36	05:46 06:17-06:32/15	05:30 06:23-06:36/13
	17:19 09:03-09:04/1	18:14 08:08-08:12/4	19:02 07:06-07:09/3	20:53	21:39	22:05 20:15-20:52/37
24	08:35 15:43-15:57/14	07:43 17:39-17:49/10	06:41 07:04-07:09/5	06:34	05:44 06:16-06:33/17	05:30 06:23-06:36/13
	17:21 09:02-09:06/4	18:16 08:06-08:12/6	19:04	20:55	21:41	22:05 20:15-20:52/37
25	08:34 15:46-15:56/10	07:40 17:37-17:51/14	06:39 07:01-07:07/6	06:32	05:43 06:16-06:34/18	05:31 06:24-06:37/13
	17:22 09:00-09:06/6	18:18 08:04-08:12/8	19:05	20:56	21:42	22:05 20:16-20:53/37
26	08:32 15:51-15:52/1	07:38 17:36-17:52/16	06:37 07:02-07:04/2	06:30	05:42 06:16-06:34/18	05:31 06:23-06:37/14
	17:24 08:59-09:08/9	18:19 08:02-08:12/10	19:07	20:58	21:43	22:05 20:16-20:53/37
27	08:31 08:57-09:08/11	07:36 17:35-17:51/16	06:34	06:28	05:41 06:15-06:34/19	05:32 06:24-06:38/14
	17:26	18:21 08:03-08:11/8	19:09	21:00	21:45 20:25-20:31/6	22:05 20:16-20:52/36
28	08:30 08:56-09:09/13	07:34 17:35-17:51/16	06:32	06:26	05:40 06:15-06:34/19	05:32 06:24-06:38/14
	17:28	18:23 08:04-08:08/4	19:10	21:01	21:46 20:22-20:34/12	22:05 20:17-20:53/36
29	08:28 08:55-09:09/14		07:30	06:24	05:39 06:16-06:35/19	05:33 06:24-06:39/15
	17:29		20:12	21:03	21:47 20:21-20:37/16	22:05 20:16-20:52/36
30	08:27 08:55-09:09/14		07:28	06:22	05:38 06:16-06:35/19	05:33 06:24-06:39/15
	17:31		20:14	21:05	21:48 20:19-20:38/19	22:04 20:17-20:53/36
31	08:25 08:56-09:09/13		07:25		05:37 06:16-06:35/19	
	17:33		20:15		21:49 20:18-20:39/21	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	673	156	121	0	283	1479

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:24-06:40/16	06:09	06:57	07:44	07:36	08:26 15:14-15:40/26
	22:04 20:18-20:53/35	21:34	20:33	19:25	17:21	16:42
2	05:34 06:23-06:39/16	06:11	06:59	07:46	07:38	08:27 15:15-15:41/26
	22:04 20:18-20:52/34	21:32	20:31	19:23	17:19	16:41
3	05:35 06:24-06:40/16	06:12	07:00	07:48	07:40	08:29 15:15-15:41/26
	22:03 20:19-20:52/33	21:30	20:29	19:21	17:17	16:41
4	05:36 06:24-06:41/17	06:14	07:02	07:49	07:42	08:30 15:16-15:42/26
	22:03 20:20-20:52/32	21:29	20:27	19:19	17:16	16:40
5	05:37 06:24-06:41/17	06:15	07:03	07:51	07:43	08:31 15:16-15:42/26
	22:03 20:19-20:51/32	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:41/18	06:17	07:05	07:53	07:45	08:33 15:16-15:42/26
	22:02 20:20-20:51/31	21:25	20:22	19:14	17:12	16:39
7	05:38 06:24-06:42/18	06:18	07:06	07:54	07:47	08:34 15:16-15:42/26
	22:02 20:21-20:51/30	21:23	20:20	19:12	17:11	16:39
8	05:39 06:24-06:42/18	06:20	07:08	07:56 18:17-18:20/3	07:49 08:29-08:37/8	08:35 15:18-15:43/25
	22:01 20:22-20:51/29	21:22	20:18	19:10	17:09	16:39
9	05:40 06:24-06:43/19	06:21	07:10	07:57 18:12-18:22/10	07:50 08:28-08:39/11	08:36 15:18-15:43/25
	22:00 20:23-20:50/27	21:20	20:15	19:08	17:07	16:39
10	05:41 06:24-06:43/19	06:23	07:11	07:59 18:11-18:24/13	07:52 08:28-08:40/12	08:37 15:19-15:43/24
	22:00 20:24-20:50/26	21:18	20:13	19:05	17:06	16:38
11	05:42 06:24-06:43/19	06:24	07:13	08:01 18:10-18:25/15	07:54 08:27-08:41/14	08:38 15:19-15:43/24
	21:59 20:25-20:49/24	21:16	20:11	19:03	17:04	16:38
12	05:43 06:24-06:44/20	06:26	07:14	08:02 18:08-18:24/16	07:56 08:26-08:40/14	08:39 15:20-15:43/23
	21:58 20:26-20:48/22	21:14	20:09	19:01	17:03	16:38
13	05:44 06:24-06:44/20	06:27	07:16	08:04 18:08-18:25/17	07:57 08:27-08:41/14	08:40 15:20-15:44/24
	21:57 20:27-20:47/20	21:12	20:06	18:59	17:01	16:38
14	05:45 06:24-06:44/20	06:29	07:17	08:06 18:08-18:25/17	07:59 08:28-08:41/13	08:41 15:21-15:44/23
	21:56 20:28-20:46/18	21:11	20:04	18:57 08:36-08:42/6	17:00	16:38
15	05:46 06:25-06:44/19	06:30	07:19	08:07 18:08-18:24/16	08:01 08:30-08:41/11	08:42 15:22-15:44/22
	21:55 20:30-20:45/15	21:09	20:02	18:55 08:34-08:44/10	16:59	16:38
16	05:48 06:25-06:44/19	06:32	07:21	08:09 18:08-18:22/14	08:02 15:23-15:25/2	08:43 15:22-15:45/23
	21:54 20:32-20:42/10	21:07	20:00	18:52 08:35-08:44/9	16:57 08:32-08:41/9	16:38
17	05:49 06:25-06:44/19	06:34	07:22	08:11 18:09-18:21/12	08:04 15:19-15:30/11	08:44 15:23-15:46/23
	21:53	21:05	19:57	18:50 08:36-08:44/8	16:56 08:34-08:40/6	16:38
18	05:50 06:25-06:43/18	06:35	07:24 07:49-07:55/6	08:12 18:11-18:19/8	08:06 15:17-15:31/14	08:45 15:23-15:45/22
	21:52	21:03	19:55	18:48 08:38-08:44/6	16:55 08:36-08:40/4	16:39
19	05:51 06:25-06:43/18	06:37	07:25 07:50-07:55/5	08:14 08:40-08:43/3	08:07 15:15-15:33/18	08:45 15:24-15:46/22
	21:51	21:01	19:53	18:46	16:53 08:37-08:38/1	16:39
20	05:52 06:27-06:43/16	06:38	07:27 07:57-08:03/6	08:16	08:09 15:15-15:34/19	08:46 15:25-15:47/22
	21:50	20:59	19:50 07:52-07:55/3	18:44	16:52	16:39
21	05:54 06:27-06:43/16	06:40	07:28 07:55-08:04/9	08:17	08:11 15:14-15:35/21	08:46 15:25-15:47/22
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:28-06:42/14	06:41	07:30 07:55-08:05/10	08:19	08:12 15:14-15:36/22	08:47 15:26-15:48/22
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:41/12	06:43	07:32 07:56-08:04/8	08:21	08:14 15:13-15:36/23	08:48 15:26-15:48/22
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:40/9	06:44	07:33 07:58-08:04/6	08:23	08:15 15:13-15:37/24	08:48 15:26-15:48/22
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:38/5	06:46	07:35 08:00-08:03/3	07:24	08:17 15:13-15:38/25	08:48 15:27-15:49/22
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:57/4	08:19 15:13-15:38/25	08:49 15:27-15:49/22
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 07:54-07:57/3	08:20 15:13-15:39/26	08:49 15:27-15:50/23
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 07:56-07:58/2	08:22 15:14-15:40/26	08:49 15:27-15:50/23
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23 15:13-15:40/27	08:49 15:28-15:51/23
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25 15:14-15:41/27	08:49 15:28-15:51/23
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:49 15:28-15:52/24
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	836	0	57	192	427	732

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT11 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 13:30-13:54/24	08:24	07:32 17:12-17:37/25	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 13:31-13:54/23	08:22	07:30 17:12-17:37/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 13:32-13:53/21	08:21	07:28 17:13-17:36/23	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 13:33-13:53/20	08:19	07:26 17:14-17:36/22	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:51/2	20:22	21:11	21:54
5	08:49 13:35-13:53/18	08:18	07:24 17:14-17:34/20	07:14	06:13	05:33
	16:52	17:42	18:32 07:46-07:50/4	20:24	21:13	21:55
6	08:49 13:37-13:51/14	08:16	07:21 17:16-17:32/16	07:12	06:11 06:36-06:39/3	05:33
	16:54	17:44	18:33 07:44-07:49/5	20:25	21:14	21:55
7	08:48 13:40-13:51/11	08:14	07:19 17:18-17:30/12	07:10	06:09 06:34-06:40/6	05:32
	16:55	17:45	18:35 07:43-07:48/5	20:27	21:16	21:56
8	08:48 13:44-13:47/3	08:13	07:17 17:22-17:26/4	07:08	06:08 06:32-06:41/9	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15	07:05	06:06 06:31-06:42/11	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13	07:03	06:04 06:29-06:42/13	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08 08:32-08:33/1	07:10	07:01	06:03 06:29-06:42/13	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46	08:06 08:30-08:34/4	07:08	06:59	06:01 06:28-06:42/14	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45	08:04 08:28-08:34/6	07:06	06:57	05:59 06:28-06:42/14	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44	08:02 08:26-08:34/8	07:04	06:55	05:58 06:28-06:41/13	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00 08:24-08:34/10	07:02	06:52	05:56 06:29-06:41/12	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:23-08:33/10	06:59	06:50	05:55 06:30-06:40/10	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:25-08:31/6	06:57	06:48	05:53 06:30-06:39/9	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54	06:55	06:46	05:52 06:32-06:37/5	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40	07:53	06:53	06:44	05:51	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 17:22-17:28/6	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49 17:18-17:31/13	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47 17:17-17:33/16	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45 17:15-17:35/20	06:44 07:06-07:07/1	06:36	05:46	05:30
	17:19	18:14 08:08-08:09/1	19:02	20:53	21:39	22:05
24	08:35	07:43 17:14-17:36/22	06:41 07:04-07:07/3	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 17:14-17:37/23	06:39 07:01-07:06/5	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 17:13-17:38/25	06:37 06:59-07:04/5	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 17:12-17:37/25	06:34 06:57-06:58/1	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 17:12-17:37/25	06:32 06:55-06:57/2	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	134	221	180	0	132	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT11 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December	
1	05:34		06:09	06:38-06:52/14	06:57		07:44		07:36	08:26	
	22:04		21:34		20:33		19:25		17:21	16:42	
2	05:34		06:11	06:39-06:53/14	06:59		07:46		07:38	08:27	
	22:04		21:32		20:31		19:23		17:19	16:41	
3	05:35		06:12	06:40-06:52/12	07:00		07:48		07:40	08:29	
	22:03		21:30		20:29		19:21		17:17	16:41	
4	05:36		06:13	06:41-06:51/10	07:02		07:49		07:42	08:30	
	22:03		21:29		20:27		19:19		17:16	16:40	
5	05:37		06:15	06:43-06:51/8	07:03		07:51		07:43	08:31	13:25-13:35/10
	22:03		21:27		20:24		19:16		17:14	16:40	
6	05:37		06:17	06:44-06:49/5	07:05		07:52	17:55-18:05/10	07:45	08:33	13:23-13:37/14
	22:02		21:25		20:22		19:14		17:12	16:39	
7	05:38		06:18	06:46-06:47/1	07:06		07:54	17:53-18:07/14	07:47	08:34	13:21-13:39/18
	22:02		21:23		20:20		19:12	08:19-08:25/6	17:11	16:39	
8	05:39		06:20		07:08		07:56	17:51-18:09/18	07:49	08:35	13:21-13:41/20
	22:01		21:22		20:18		19:10	08:21-08:26/5	17:09	16:39	
9	05:40		06:21		07:10		07:57	17:48-18:09/21	07:50	08:36	13:21-13:42/21
	22:00		21:20		20:15		19:08	08:22-08:25/3	17:07	16:38	
10	05:41		06:23		07:11		07:59	17:47-18:10/23	07:52	08:37	13:20-13:43/23
	22:00		21:18		20:13		19:05	08:24-08:25/1	17:06	16:38	
11	05:42		06:24		07:13		08:01	17:47-18:11/24	07:54	08:38	13:20-13:44/24
	21:59		21:16		20:11		19:03		17:04	16:38	
12	05:43		06:26		07:14		08:02	17:45-18:10/25	07:56	08:39	13:20-13:45/25
	21:58		21:14		20:09		19:01		17:03	16:38	
13	05:44		06:27		07:16		08:04	17:45-18:10/25	07:57	08:40	13:20-13:46/26
	21:57		21:12		20:06		18:59		17:01	16:38	
14	05:45		06:29		07:17		08:06	17:45-18:10/25	07:59	08:41	13:20-13:46/26
	21:56		21:11		20:04		18:57		17:00	16:38	
15	05:46		06:30		07:19	07:44-07:45/1	08:07	17:45-18:10/25	08:01	08:42	13:20-13:47/27
	21:55		21:09		20:02		18:55		16:59	16:38	
16	05:48		06:32		07:21	07:45-07:47/2	08:09	17:44-18:09/25	08:02	08:43	13:20-13:48/28
	21:54		21:07		19:59		18:52		16:57	16:38	09:34-09:36/2
17	05:49		06:34		07:22	07:47-07:52/5	08:11	17:45-18:08/23	08:04	08:44	13:21-13:49/28
	21:53		21:05		19:57		18:50		16:56	16:38	09:34-09:37/3
18	05:50		06:35		07:24	07:49-07:54/5	08:12	17:46-18:07/21	08:06	08:45	13:21-13:49/28
	21:52		21:03		19:55		18:48	08:38-08:39/1	16:55	16:39	09:33-09:38/5
19	05:51		06:37		07:25	07:50-07:54/4	08:14	17:47-18:06/19	08:07	08:45	13:21-13:50/29
	21:51		21:01		19:53		18:46		16:53	16:39	09:34-09:39/5
20	05:52		06:38		07:27	07:52-07:54/2	08:16	17:47-18:03/16	08:09	08:46	13:22-13:51/29
	21:50		20:59		19:50		18:44		16:52	16:39	09:34-09:40/6
21	05:54		06:40		07:28		08:17	17:50-18:01/11	08:11	08:46	13:22-13:51/29
	21:49		20:57		19:48		18:42		16:51	16:40	09:34-09:40/6
22	05:55		06:41		07:30		08:19	17:54-17:57/3	08:12	08:47	13:23-13:52/29
	21:48		20:55		19:46		18:40		16:50	16:40	09:35-09:41/6
23	05:56		06:43		07:32		08:21		08:14	08:47	13:23-13:52/29
	21:46		20:52		19:44		18:38		16:49	16:41	09:35-09:41/6
24	05:58		06:44		07:33		08:23	08:57-09:00/3	08:15	08:48	13:23-13:52/29
	21:45		20:50		19:41		18:36		16:48	16:41	09:36-09:41/5
25	05:59	06:45-06:46/1	06:46		07:35		07:24	07:55-08:02/7	08:17	08:48	13:24-13:53/29
	21:44		20:48		19:39		17:34		16:47	16:42	09:37-09:42/5
26	06:00	06:42-06:49/7	06:48		07:36		07:26	07:54-08:04/10	08:19	08:49	13:25-13:53/28
	21:42		20:46		19:37		17:32		16:46	16:43	09:38-09:41/3
27	06:02	06:40-06:50/10	06:49		07:38		07:28	07:54-08:03/9	08:20	08:49	13:25-13:53/28
	21:41		20:44		19:34		17:30		16:45	16:43	09:39-09:41/2
28	06:03	06:40-06:51/11	06:51		07:40		07:29	07:56-08:04/8	08:22	08:49	13:26-13:53/27
	21:40		20:42		19:32		17:28		16:44	16:44	
29	06:05	06:39-06:52/13	06:52		07:41		07:31	07:58-08:04/6	08:23	08:49	13:27-13:53/26
	21:38		20:40		19:30		17:26		16:43	16:45	
30	06:06	06:38-06:52/14	06:54		07:43		07:33	08:00-08:03/3	08:25	08:49	13:27-13:53/26
	21:37		20:38		19:28		17:25		16:43	16:46	
31	06:08	06:39-06:53/14	06:55				07:35			08:49	13:28-13:54/26
	21:35		20:35				17:23			16:47	
Potential sun hours	498		451		380		333		269	248	
Sum of minutes with flicker	70		64		19		390		0	736	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May	June
1	08:50		08:24	16:12-16:51/39	07:32		07:23	19:38-19:51/13	06:20	05:36
	16:48		17:35		18:25		20:17		21:06	21:51
2	08:50		08:23	16:11-16:51/40	07:30		07:21	19:39-19:53/14	06:18	05:36
	16:49		17:36		18:26		20:19		21:08	21:52
3	08:49		08:21	16:11-16:52/41	07:28		07:19	19:41-19:55/14	06:16	05:35
	16:50		17:38		18:28		20:20		21:10	21:53
4	08:49		08:19	16:11-16:53/42	07:26		07:17	19:47-19:57/10	06:15	05:34
	16:51		17:40		18:30		20:22		21:11	21:54
5	08:49		08:18	16:11-16:53/42	07:24		07:14	19:46-19:58/12	06:13	05:33
	16:53		17:42		18:32		20:24		21:13	21:55
6	08:49		08:16	16:10-16:53/43	07:21		07:12	19:44-19:59/15	06:11	05:33
	16:54		17:44		18:33		20:25		21:14	21:56
7	08:48		08:15	16:10-16:53/43	07:19		07:10	19:44-20:01/17	06:09	05:32
	16:55		17:45		18:35		20:27		21:16	21:57
8	08:48		08:13	16:11-16:54/43	07:17		07:08	19:44-20:03/19	06:08	05:32
	16:56		17:47		18:37		20:29		21:17	21:57
9	08:48		08:11	16:11-16:54/43	07:15		07:05	19:44-20:03/19	06:06	05:31
	16:58		17:49		18:39		20:30		21:19	21:58
10	08:47		08:09	16:11-16:54/43	07:13		07:03	19:44-20:03/19	06:04	05:31
	16:59		17:51		18:40		20:32		21:21	21:59
11	08:47		08:08	16:11-16:53/42	07:11	18:14-18:17/3	07:01	19:44-20:01/17	06:03	05:31
	17:00		17:53		18:42		20:34		21:22	22:00
12	08:46		08:06	16:12-16:53/41	07:08	18:13-18:19/6	06:59	19:45-19:59/14	06:01	05:30
	17:02		17:54		18:44		20:35		21:24	22:00
13	08:45		08:04	16:12-16:52/40	07:06	18:11-18:20/9	06:57	19:47-19:58/11	05:59	05:30
	17:03		17:56		18:45		20:37		21:25	22:01
14	08:45		08:02	16:13-16:52/39	07:04	18:11-18:22/11	06:55	19:50-19:54/4	05:58	05:30
	17:05		17:58		18:47		20:38		21:27	22:02
15	08:44		08:00	16:13-16:51/38	07:02	18:11-18:24/13	06:52		05:56	05:30
	17:06		18:00		18:49		20:40		21:28	22:02
16	08:43		07:58	16:14-16:50/36	06:59	18:11-18:26/15	06:50		05:55	05:30
	17:08		18:02		18:50		20:42		21:30	22:03
17	08:42		07:57	16:15-16:49/34	06:57	18:11-18:25/14	06:48		05:53	05:29
	17:09		18:03		18:52		20:43		21:31	22:03
18	08:41		07:55	16:17-16:48/31	06:55	18:13-18:24/11	06:46		05:52	05:29
	17:11		18:05		18:54		20:45		21:33	22:04
19	08:40		07:53	16:18-16:47/29	06:53	18:15-18:22/7	06:44		05:51	05:29
	17:12		18:07		18:55		20:47		21:34	22:04
20	08:39		07:51	16:21-16:45/24	06:50		06:42		05:49	05:30
	17:14		18:09		18:57		20:48		21:35	22:04
21	08:38	16:22-16:33/11	07:49	16:23-16:43/20	06:48		06:40		05:48	05:30
	17:16		18:11		18:59		20:50		21:37	22:04
22	08:37	16:20-16:36/16	07:47	16:26-16:40/14	06:46		06:38		05:47	05:30
	17:17		18:12		19:00		20:52		21:38	22:05
23	08:36	16:19-16:39/20	07:45		06:44		06:36		05:46	05:30
	17:19		18:14		19:02		20:53		21:40	22:05
24	08:35	16:18-16:41/23	07:43		06:41		06:34		05:44	05:30
	17:21		18:16		19:04		20:55		21:41	22:05
25	08:34	16:16-16:42/26	07:41		06:39		06:32		05:43	05:31
	17:22		18:18		19:05		20:57		21:42	22:05
26	08:32	16:15-16:44/29	07:39		06:37		06:30		05:42	05:31
	17:24		18:19		19:07		20:58		21:43	22:05
27	08:31	16:14-16:45/31	07:36		06:35	18:40-18:44/4	06:28		05:41	05:32
	17:26		18:21		19:09		21:00		21:45	22:05
28	08:30	16:14-16:47/33	07:34		06:32	18:38-18:45/7	06:26		05:40	05:32
	17:28		18:23		19:10		21:01		21:46	22:05
29	08:28	16:13-16:48/35			07:30	19:38-19:47/9	06:24		05:39	05:33
	17:29				20:12		21:03		21:47	22:05
30	08:27	16:13-16:49/36			07:28	19:38-19:49/11	06:22		05:38	05:33
	17:31				20:14		21:05		21:48	22:05
31	08:26	16:12-16:50/38			07:26	19:38-19:50/12			05:37	
	17:33				20:15				21:49	
Potential sun hours	262		279		367		415		482	495
Sum of minutes with flicker	298		807		132		198		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:44-20:01/17	07:44 18:52-18:58/6	07:37 15:41-16:23/42	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:11	06:59 19:42-20:01/19	07:46 18:52-18:56/4	07:38 15:41-16:23/42	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:42-20:01/19	07:48 18:53-18:54/1	07:40 15:41-16:24/43	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02 19:41-20:00/19	07:49	07:42 15:40-16:23/43	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03 19:41-19:58/17	07:51	07:44 15:40-16:23/43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05 19:40-19:55/15	07:53	07:45 15:41-16:23/42	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:07 19:41-19:54/13	07:54	07:47 15:41-16:22/41	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08 19:41-19:51/10	07:56	07:49 15:42-16:22/40	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10 19:35-19:49/14	07:57	07:51 15:42-16:22/40	08:36
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11 19:32-19:46/14	07:59	07:52 15:43-16:22/39	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 19:31-19:44/13	08:01	07:54 15:44-16:21/37	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:29-19:42/13	08:02	07:56 15:44-16:20/36	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:29-19:40/11	08:04	07:57 15:45-16:19/34	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:18 19:28-19:37/9	08:06	07:59 15:46-16:19/33	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 19:29-19:35/6	08:07	08:01 15:47-16:18/31	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 19:28-19:33/5	08:09	08:03 15:48-16:17/29	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49	06:34	07:22 19:30-19:31/1	08:11	08:04 15:50-16:16/26	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12	08:06 15:52-16:15/23	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14 17:02-17:07/5	08:08 15:53-16:13/20	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 16:56-17:12/16	08:09 15:55-16:11/16	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29	08:18 16:53-17:14/21	08:11 15:58-16:09/11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 16:50-17:16/26	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 16:48-17:18/30	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 18:59-19:04/5	08:23 16:47-17:19/32	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:56-19:06/10	07:24 15:46-16:20/34	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:54-19:07/13	07:26 15:45-16:21/36	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:53-19:08/15	07:28 15:43-16:21/38	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:52-19:05/13	07:30 15:42-16:21/39	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:50-19:56/6	07:41 18:52-19:03/11	07:31 15:42-16:22/40	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:48-19:59/11	07:43 18:51-19:00/9	07:33 15:41-16:23/42	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:45-19:59/14		07:35 15:41-16:23/42		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	0	31	291	412	711	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 17:51-17:59/8 18:25	07:23 20:17	06:20 20:36-20:38/2 21:06	05:36 20:33-20:56/23 21:51
2	08:50 16:14-16:15/1 16:49	08:23 17:36	07:30 17:52-18:01/9 18:27	07:21 20:19	06:18 20:35-20:40/5 21:08	05:36 20:35-20:56/21 21:52
3	08:49 16:13-16:17/4 16:50	08:21 17:38	07:28 17:53-18:01/8 18:28	07:19 20:20	06:16 20:34-20:41/7 21:10	05:35 20:35-20:56/21 21:53
4	08:49 16:12-16:17/5 16:51	08:19 17:40	07:26 18:30	07:17 20:22	06:15 20:34-20:43/9 21:11	05:34 20:35-20:55/20 21:54
5	08:49 16:12-16:19/7 16:53	08:18 17:42	07:24 18:32	07:14 20:24	06:13 20:34-20:44/10 21:13	05:34 20:37-20:55/18 21:55
6	08:49 16:11-16:20/9 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 20:34-20:45/11 21:14	05:33 20:37-20:54/17 21:56
7	08:48 16:11-16:22/11 16:55	08:15 17:45	07:19 18:35	07:10 20:27	06:09 20:34-20:47/13 21:16	05:32 20:38-20:54/16 21:57
8	08:48 16:10-16:23/13 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 20:34-20:48/14 21:18	05:32 20:38-20:53/15 21:57
9	08:48 16:11-16:25/14 16:58	08:11 17:49	07:15 18:39	07:06 20:30	06:06 20:34-20:50/16 21:19	05:31 20:40-20:53/13 21:58
10	08:47 16:10-16:26/16 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 20:32-20:51/19 21:21	05:31 20:41-20:53/12 21:59
11	08:47 16:10-16:27/17 17:00	08:08 17:53	07:11 18:15-18:17/2 18:42	07:01 20:34	06:03 20:32-20:53/21 21:22	05:31 20:42-20:53/11 22:00
12	08:46 16:11-16:29/18 17:02	08:06 17:55	07:08 18:15-18:19/4 18:44	06:59 20:35	06:01 20:31-20:54/23 21:24	05:30 20:42-20:52/10 22:00
13	08:45 16:11-16:31/20 17:03	08:04 17:56	07:06 18:14-18:20/6 18:45	06:57 20:37	05:59 20:30-20:56/26 21:25	05:30 20:43-20:51/8 22:01
14	08:45 16:10-16:32/22 17:05	08:02 17:58	07:04 18:14-18:22/8 18:47	06:55 20:38	05:58 20:29-20:57/28 21:27	05:30 20:45-20:51/6 22:02
15	08:44 16:10-16:34/24 17:06	08:00 18:00	07:02 18:14-18:24/10 18:49	06:52 20:40	05:56 20:29-20:59/30 21:28	05:30 20:46-20:50/4 22:02
16	08:43 16:11-16:35/24 17:08	07:58 18:02	06:59 18:14-18:26/12 18:50	06:50 20:42	05:55 20:29-21:00/31 21:30	05:30 22:03
17	08:42 16:11-16:35/24 17:09	07:57 18:04	06:57 18:14-18:27/13 18:52	06:48 20:43	05:54 20:29-21:01/32 21:31	05:29 22:03
18	08:41 16:11-16:36/25 17:11	07:55 18:05	06:55 18:14-18:28/14 18:54	06:46 20:45	05:52 20:29-21:02/33 21:33	05:29 22:04
19	08:40 16:11-16:36/25 17:12	07:53 18:07	06:53 18:16-18:27/11 18:55	06:44 20:47	05:51 20:29-21:04/35 21:34	05:30 22:04
20	08:39 16:12-16:37/25 17:14	07:51 18:09	06:50 18:18-18:25/7 18:57	06:42 20:48	05:49 20:29-21:06/37 21:35	05:30 22:04
21	08:38 16:11-16:36/25 17:16	07:49 18:11	06:48 18:59	06:40 20:50	05:48 20:28-21:06/38 21:37	05:30 22:04
22	08:37 16:12-16:37/25 17:17	07:47 18:12	06:46 19:00	06:38 20:52	05:47 20:59-21:06/7 21:38 20:29-20:58/29	05:30 22:05
23	08:36 16:13-16:37/24 17:19	07:45 18:14	06:44 19:02	06:36 20:53	05:46 21:01-21:04/3 21:40 20:29-20:58/29	05:30 22:05
24	08:35 16:14-16:37/23 17:21	07:43 18:16	06:41 19:04	06:34 20:55	05:44 20:29-20:58/29 21:41	05:30 22:05
25	08:34 16:14-16:37/23 17:22	07:41 18:18	06:39 19:05	06:32 20:57	05:43 20:30-20:58/28 21:42	05:31 22:05
26	08:32 16:15-16:37/22 17:24	07:39 17:52-17:54/2 18:20	06:37 19:07	06:30 20:58	05:42 20:30-20:58/28 21:43	05:31 22:05
27	08:31 16:15-16:36/21 17:26	07:36 17:52-17:56/4 18:21	06:35 19:09	06:28 21:00	05:41 20:31-20:57/26 21:45	05:32 20:49-20:51/2 22:05
28	08:30 16:17-16:36/19 17:28	07:34 17:51-17:57/6 18:23	06:32 19:10	06:26 21:01	05:40 20:31-20:57/26 21:46	05:32 20:48-20:53/5 22:05
29	08:28 16:18-16:34/16 17:29		07:30 20:12	06:24 21:03	05:39 20:32-20:58/26 21:47	05:33 20:47-20:54/7 22:05
30	08:27 16:20-16:34/14 17:31		07:28 20:14	06:22 21:05	05:38 20:33-20:57/24 21:48	05:33 20:47-20:55/8 22:05
31	08:26 16:22-16:31/9 17:33		07:26 20:15		05:37 20:33-20:57/24 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	525	12	112	0	719	237

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 20:47-20:57/10	06:09 20:41-21:04/23	06:57	07:44 18:54-18:58/4	07:37	08:26 15:52-16:09/17
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 20:45-20:57/12	06:11 20:43-21:03/20	06:59	07:46 18:54-18:56/2	07:38	08:27 15:54-16:09/15
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 20:45-20:58/13	06:12 20:43-21:01/18	07:00	07:48	07:40	08:29 15:54-16:08/14
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 20:45-20:59/14	06:14 20:44-20:59/15	07:02	07:49	07:42	08:30 15:56-16:08/12
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 20:44-20:59/15	06:15 20:45-20:58/13	07:03	07:51	07:44	08:31 15:56-16:07/11
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 20:44-21:00/16	06:17 20:44-20:56/12	07:05	07:53	07:45	08:33 15:57-16:06/9
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 20:43-21:01/18	06:18 20:44-20:55/11	07:07	07:54	07:47	08:34 15:59-16:06/7
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 20:43-21:02/19	06:20 20:43-20:53/10	07:08	07:56	07:49	08:35 16:00-16:05/5
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 20:43-21:03/20	06:21 20:43-20:51/8	07:10	07:58	07:51	08:36 16:01-16:05/4
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41 20:42-21:04/22	06:23 20:44-20:50/6	07:11	07:59 18:29-18:34/5	07:52	08:37 16:03-16:05/2
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 20:42-21:04/22	06:24 20:44-20:48/4	07:13	08:01 18:26-18:36/10	07:54 15:54-16:03/9	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 20:42-21:05/23	06:26 20:45-20:46/1	07:14	08:02 18:24-18:33/9	07:56 15:51-16:05/14	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 20:41-21:05/24	06:27	07:16	08:04 18:24-18:31/7	07:57 15:50-16:06/16	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45 20:41-21:06/25	06:29	07:18	08:06 18:24-18:29/5	07:59 15:49-16:08/19	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 20:41-21:06/25	06:30	07:19	08:07 18:24-18:27/3	08:01 15:48-16:09/21	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 20:40-21:07/27	06:32	07:21	08:09	08:03 15:48-16:10/22	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 20:40-21:07/27	06:34	07:22	08:11	08:04 15:48-16:11/23	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 20:39-21:07/28	06:35	07:24	08:12	08:06 15:48-16:11/23	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 20:39-21:07/28	06:37	07:25	08:14	08:08 15:47-16:11/24	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 20:40-21:08/28	06:38	07:27	08:16	08:09 15:47-16:12/25	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:10-21:16/6	06:40	07:29	08:18	08:11 15:47-16:12/25	08:47
	21:49 20:39-21:08/29	20:57	19:48	18:42	16:51	16:40
22	05:55 21:09-21:17/8	06:41	07:30	08:19	08:12 15:48-16:13/25	08:47
	21:48 20:39-21:08/29	20:55	19:46	18:40	16:50	16:40
23	05:56 20:39-21:16/37	06:43	07:32 19:02-19:08/6	08:21	08:14 15:47-16:12/25	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 20:39-21:14/35	06:45	07:33 19:00-19:10/10	08:23	08:16 15:48-16:13/25	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 20:39-21:14/35	06:46	07:35 18:57-19:11/14	07:24	08:17 15:49-16:13/24	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 20:39-21:12/33	06:48	07:36 18:57-19:10/13	07:26	08:19 15:49-16:13/24	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 20:39-21:11/32	06:49	07:38 18:56-19:08/12	07:28	08:20 15:49-16:13/24	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 20:40-21:10/30	06:51	07:40 18:55-19:05/10	07:30	08:22 15:51-16:12/21	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 20:40-21:08/28	06:52	07:41 18:55-19:03/8	07:31	08:23 15:51-16:11/20	08:49
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06 20:40-21:07/27	06:54	07:43 18:54-19:00/6	07:33	08:25 15:52-16:10/18	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 20:41-21:06/25	06:56		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	770	141	79	45	427	96

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 15:46-16:59/73 17:35	07:32 18:25	07:23 20:17	06:20 18:40-19:55/75 21:06 07:06-07:47/41	05:37 18:43-19:58/75 21:51 20:58-21:19/21
2	08:50 16:49	08:23 15:46-16:58/72 17:37	07:30 18:27	07:21 20:19	06:18 18:40-19:56/76 21:08 07:06-07:46/40	05:36 18:45-19:58/73 21:52 20:59-21:20/21
3	08:49 16:50	08:21 15:46-16:58/72 17:38	07:28 18:28	07:19 20:20	06:17 18:40-19:57/77 21:10 07:07-07:47/40	05:35 18:45-19:58/73 21:53 20:59-21:21/22
4	08:49 16:51	08:19 15:47-16:58/71 17:40	07:26 18:30	07:17 20:22	06:15 18:39-19:57/78 20:42-20:43/1 21:11 07:07-07:46/39	05:34 18:45-19:57/72 21:54 20:58-21:21/23
5	08:49 16:53	08:18 15:47-16:58/71 17:42	07:24 18:32	07:14 20:24	06:13 18:38-19:57/79 20:41-20:44/3 21:13 07:07-07:45/38	05:34 18:46-19:58/72 21:55 20:59-21:22/23
6	08:49 16:54	08:16 15:47-16:57/70 17:44	07:22 18:33	07:12 20:25	06:11 18:39-19:58/79 20:40-20:46/6 21:14 07:07-07:45/38	05:33 18:46-19:57/71 21:56 20:59-21:21/22
7	08:48 16:55	08:15 16:36-16:56/20 17:46 15:47-16:35/48	07:19 18:35	07:10 20:27	06:09 18:38-19:58/80 20:39-20:47/8 21:16 07:07-07:44/37	05:32 18:47-19:58/71 21:56 20:59-21:22/23
8	08:48 16:56	08:13 16:38-16:56/18 17:47 15:48-16:35/47	07:17 18:37	07:08 20:01-20:03/2 20:29	06:08 18:38-19:57/79 20:39-20:48/9 21:17 07:08-07:43/35	05:32 18:48-19:58/70 21:57 21:00-21:23/23
9	08:48 16:58	08:11 16:40-16:54/14 17:49 15:49-16:35/46	07:15 18:39	07:06 20:01-20:05/4 20:30	06:06 18:38-19:58/80 20:39-20:50/11 21:19 07:09-07:43/34	05:31 18:47-19:58/71 21:58 20:59-21:22/23
10	08:47 15:58-16:08/10 16:59	08:09 16:42-16:51/9 17:51 15:49-16:34/45	07:13 18:40	07:03 20:02-20:06/4 20:32	06:04 18:37-19:58/81 20:39-20:51/12 21:21 07:09-07:42/33	05:31 18:48-19:58/70 21:59 21:00-21:23/23
11	08:46 15:56-16:11/15 17:00	08:08 15:50-16:34/44 17:53	07:11 18:15-18:17/2 18:42	07:01 20:03-20:08/5 20:34	06:03 18:38-19:58/80 20:39-20:53/14 21:22 07:10-07:41/31	05:31 18:49-19:58/69 22:00 21:00-21:23/23
12	08:46 15:55-16:14/19 17:02	08:06 15:50-16:33/43 17:55	07:08 18:15-18:19/4 18:44	06:59 20:04-20:07/3 20:35	06:01 18:37-19:58/81 20:39-20:54/15 21:24 07:10-07:39/29	05:30 18:48-19:58/70 22:00 21:00-21:22/22
13	08:45 15:54-16:15/21 17:03	08:04 15:51-16:32/41 17:56	07:06 18:15-18:20/5 18:45	06:57 19:17-19:24/7 20:37	06:00 18:38-19:58/80 20:40-20:54/14 21:25 07:12-07:39/27	05:30 18:49-19:58/69 22:01 21:00-21:23/23
14	08:45 15:53-16:17/24 17:05	08:02 15:52-16:31/39 17:58	07:04 18:18-18:21/3 18:47	06:55 19:09-19:32/23 20:39	05:58 18:37-19:58/81 20:41-20:52/11 21:27 07:12-07:37/25	05:30 18:50-19:58/68 22:02 21:01-21:23/22
15	08:44 15:52-16:19/27 17:06	08:00 15:53-16:30/37 18:00	07:02 18:49	06:53 19:05-19:36/31 20:40	05:57 18:38-19:58/80 20:42-20:52/10 21:28 07:14-07:36/22	05:30 18:50-19:58/68 22:02 21:01-21:23/22
16	08:43 15:51-16:20/29 17:08	07:58 15:55-16:29/34 18:02	06:59 18:51	06:50 19:02-19:38/36 20:42 07:26-07:35/9	05:55 18:38-19:59/81 20:44-20:51/7 21:30 07:16-07:35/19	05:30 18:50-19:58/68 22:03 21:01-21:24/23
17	08:42 15:50-16:22/32 17:09	07:57 15:57-16:27/30 18:04	06:57 18:52	06:48 18:59-19:41/42 20:43 07:22-07:39/17	05:54 18:38-19:58/80 21:31 07:17-07:32/15	05:30 18:51-19:59/68 22:03 21:02-21:24/22
18	08:41 15:50-16:23/33 17:11	07:55 15:59-16:26/27 18:05	06:55 18:54	06:46 18:57-19:43/46 20:45 07:19-07:41/22	05:52 18:38-19:58/80 21:33 07:20-07:29/9	05:30 18:51-19:59/68 22:03 21:02-21:24/22
19	08:40 15:49-16:25/36 17:12	07:53 16:02-16:23/21 18:07	06:53 18:56	06:44 18:55-19:44/49 20:47 07:17-07:42/25	05:51 18:39-19:59/80 21:34	05:30 18:51-19:59/68 22:04 21:02-21:24/22
20	08:39 16:39-16:43/4 17:14 15:49-16:26/37	07:51 16:05-16:20/15 18:09	06:50 18:57	06:42 18:53-19:46/53 20:48 07:15-07:44/29	05:49 18:39-19:59/80 21:35	05:30 18:51-19:59/68 22:04 21:02-21:24/22
21	08:38 16:36-16:44/8 17:16 15:48-16:26/38	07:49 17:42-17:44/2 18:11	06:48 18:59	06:40 18:51-19:47/56 20:50 07:13-07:45/32	05:48 18:40-19:59/79 21:37	05:30 18:51-19:59/68 22:04 21:02-21:24/22
22	08:37 16:35-16:46/11 17:17 15:48-16:28/40	07:47 17:42-17:46/4 18:12	06:46 19:01	06:38 18:49-19:49/60 20:52 07:12-07:45/33	05:47 18:39-19:58/79 21:38 21:04-21:07/3	05:30 18:52-20:00/68 22:05 21:03-21:25/22
23	08:36 16:35-16:48/13 17:19 15:48-16:29/41	07:45 17:42-17:48/6 18:14	06:44 19:02	06:36 18:48-19:50/62 20:53 07:11-07:46/35	05:46 18:40-19:58/78 21:40 21:02-21:09/7	05:30 18:52-20:00/68 22:05 21:03-21:25/22
24	08:35 16:34-16:50/16 17:21 15:48-16:30/42	07:43 17:43-17:50/7 18:16	06:41 19:04	06:34 18:47-19:51/64 20:55 07:10-07:46/36	05:44 18:40-19:58/78 21:41 21:01-21:10/9	05:31 18:52-20:00/68 22:05 21:03-21:25/22
25	08:34 16:33-16:51/18 17:22 15:47-16:30/43	07:41 17:45-17:50/5 18:18	06:39 19:06	06:32 18:45-19:51/66 20:57 07:09-07:47/38	05:43 18:40-19:58/78 21:42 21:01-21:11/10	05:31 18:53-20:01/68 22:05 21:04-21:26/22
26	08:32 16:33-16:54/21 17:24 15:47-16:32/45	07:39 18:20	06:37 19:07	06:30 18:44-19:52/68 20:58 07:08-07:47/39	05:42 18:41-19:58/77 21:43 21:00-21:12/12	05:31 18:52-20:00/68 22:05 21:04-21:26/22
27	08:31 15:46-16:55/69 17:26	07:36 18:21	06:35 19:09	06:28 18:43-19:53/70 21:00 07:07-07:47/40	05:41 18:41-19:58/77 21:45 20:59-21:13/14	05:32 18:53-20:01/68 22:05 21:04-21:26/22
28	08:30 15:46-16:57/71 17:28	07:34 18:23	06:32 19:10	06:26 18:43-19:54/71 21:01 07:08-07:48/40	05:40 18:42-19:58/76 21:46 20:59-21:14/15	05:32 18:53-20:01/68 22:05 21:04-21:26/22
29	08:28 15:46-16:59/73 17:29		07:30 20:12	06:24 18:42-19:55/73 21:03 07:07-07:48/41	05:39 18:43-19:58/75 21:47 20:59-21:16/17	05:33 18:53-20:02/69 22:05 21:05-21:27/22
30	08:27 15:46-16:59/73 17:31		07:28 20:14	06:22 18:41-19:55/74 21:05 07:07-07:47/40	05:38 18:43-19:58/75 21:48 20:59-21:17/18	05:33 18:53-20:02/69 22:04 21:04-21:27/23
31	08:26 15:46-16:58/72 17:33		07:26 20:15		05:37 18:43-19:58/75 21:49 20:59-21:18/19	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	981	1031	14	1445	3231	2752

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:53-20:02/69	06:09 18:48-20:08/80 20:50-21:04/14	06:57 20:01-20:07/6	07:45 18:54-18:58/4	07:37 16:11-16:22/11	08:26 15:38-15:53/15
	22:04 21:05-21:27/22	21:34 07:20-07:50/30	20:33	19:25	17:21 15:19-16:04/45	16:42
2	05:35 18:52-20:02/70	06:11 18:48-20:09/81 20:50-21:03/13	06:59 20:00-20:04/4	07:46 18:54-18:56/2	07:38 16:09-16:24/15	08:27 15:41-15:52/11
	22:04 21:04-21:27/23	21:32 07:20-07:52/32	20:31	19:23	17:19 15:18-16:05/47	16:42
3	05:35 18:53-20:03/70	06:12 18:48-20:08/80 20:49-21:01/12	07:00 19:59-20:03/4	07:48 18:53-18:54/1	07:40 16:08-16:26/18	08:29
	22:04 21:05-21:27/22	21:30 07:19-07:52/33	20:29	19:21	17:18 15:18-16:05/47	16:41
4	05:36 18:53-20:03/70	06:14 18:47-20:07/80 20:49-20:59/10	07:02 19:58-20:00/2	07:49	07:42 15:17-16:26/69	08:30
	22:03 21:05-21:28/23	21:29 07:19-07:54/35	20:27	19:19	17:16	16:40
5	05:37 18:53-20:04/71	06:15 18:48-20:08/80 20:49-20:58/9	07:03	07:51	07:44 15:17-16:27/70	08:31
	22:03 21:06-21:28/22	21:27 07:18-07:54/36	20:24	19:17	17:14	16:40
6	05:38 18:52-20:04/72	06:17 18:48-20:07/79 20:49-20:56/7	07:05	07:53	07:45 15:17-16:28/71	08:33
	22:02 21:05-21:28/23	21:25 07:17-07:54/37	20:22	19:14	17:12	16:40
7	05:38 18:52-20:04/72	06:18 18:48-20:07/79 20:50-20:55/5	07:07	07:54	07:47 15:17-16:28/71	08:34
	22:02 21:05-21:28/23	21:24 07:17-07:55/38	20:20	19:12	17:11	16:39
8	05:39 18:52-20:05/73	06:20 18:48-20:06/78 20:50-20:53/3	07:08	07:56	07:49 15:17-16:29/72	08:35
	22:01 21:06-21:28/22	21:22 07:16-07:55/39	20:18	19:10	17:09	16:39
9	05:40 18:52-20:05/73	06:21 18:49-20:06/77	07:10	07:58	07:51 15:17-16:29/72	08:36
	22:00 21:06-21:28/22	21:20 07:16-07:56/40	20:15	19:08	17:08	16:39
10	05:41 18:52-20:05/73	06:23 18:48-20:05/77	07:11	07:59	07:52 15:17-16:30/73	08:37
	22:00 21:06-21:28/22	21:18 07:15-07:55/40	20:13	19:05	17:06	16:38
11	05:42 18:52-20:06/74	06:24 18:49-20:05/76	07:13	08:01	07:54 15:18-16:30/72	08:38
	21:59 21:07-21:27/20	21:16 07:16-07:56/40	20:11	19:03	17:04	16:38
12	05:43 18:52-20:06/74	06:26 18:49-20:04/75	07:14	08:02	07:56 15:17-16:30/73	08:39
	21:58 21:07-21:27/20	21:14 07:15-07:55/40	20:09	19:01	17:03	16:38
13	05:44 18:52-20:06/74	06:27 18:49-20:03/74	07:16	08:04	07:57 15:18-16:31/73	08:40
	21:57 21:07-21:26/19	21:13 07:14-07:55/41	20:06	18:59	17:01	16:38
14	05:45 18:51-20:07/76	06:29 18:50-20:02/72	07:18	08:06	07:59 15:18-16:29/71	08:41
	21:56 21:08-21:25/17	21:11 07:15-07:55/40	20:04	18:57	17:00	16:38
15	05:47 18:51-20:07/76	06:31 18:50-20:01/71	07:19	08:07	08:01 15:19-16:28/69	08:42
	21:56 21:08-21:24/16	21:09 07:14-07:54/40	20:02	18:55	16:59	16:38
16	05:48 18:51-20:07/76	06:32 18:51-20:00/69	07:21	08:09	08:03 16:06-16:27/21	08:43
	21:55 21:09-21:23/14	21:07 07:15-07:54/39	20:00	18:53	16:57 15:20-16:05/45	16:38
17	05:49 18:51-20:07/76	06:34 18:51-19:59/68	07:22	08:11 18:15-18:22/7	08:04 16:07-16:25/18	08:44
	21:54 21:09-21:22/13	21:05 07:15-07:53/38	19:57	18:50	16:56 15:21-16:04/43	16:39
18	05:50 18:50-20:07/77	06:35 18:52-19:58/66	07:24	08:13 18:14-18:20/6	08:06 16:08-16:24/16	08:45
	21:53 21:10-21:21/11	21:03 07:16-07:53/37	19:55	18:48	16:55 15:22-16:04/42	16:39
19	05:51 18:50-20:07/77	06:37 18:53-19:56/63	07:25	08:14 18:13-18:18/5	08:08 16:09-16:22/13	08:45
	21:51 21:10-21:20/10	21:01 07:16-07:52/36	19:53	18:46	16:54 15:22-16:03/41	16:39
20	05:53 18:50-20:09/79	06:38 18:54-19:55/61	07:27	08:16 18:13-18:17/4	08:09 16:10-16:21/11	08:46
	21:50 21:12-21:20/8	20:59 07:17-07:52/35	19:50	18:44	16:52 15:23-16:03/40	16:39
21	05:54 18:50-20:08/78	06:40 18:54-19:53/59	07:29	08:18 18:12-18:14/2	08:11 16:12-16:20/8	08:47
	21:49 21:13-21:18/5	20:57 07:17-07:50/33	19:48	18:42 16:40-16:46/6	16:51 15:24-16:02/38	16:40
22	05:55 18:50-20:08/78	06:41 18:56-19:52/56	07:30	08:19 16:34-16:51/17	08:12 16:15-16:19/4	08:47
	21:48 21:15-21:17/2	20:55 07:18-07:49/31	19:46	18:40	16:50 15:25-16:02/37	16:40
23	05:56 18:49-20:08/79	06:43 18:57-19:49/52	07:32	08:21 16:31-16:54/23	08:14 15:26-16:01/35	08:48
	21:47	20:53 07:19-07:47/28	19:44	18:38	16:49	16:41
24	05:58 18:50-20:09/79	06:45 18:59-19:48/49	07:33	08:23 16:29-16:57/28	08:16 15:27-16:00/33	08:48
	21:45	20:50 07:21-07:46/25	19:41	18:36	16:48	16:41
25	05:59 18:49-20:09/80	06:46 19:00-19:45/45	07:35	07:24 15:27-15:58/31	08:17 15:28-16:00/32	08:48
	21:44 07:34-07:37/3	20:48 07:22-07:43/21	19:39	17:34	16:47	16:42
26	06:01 18:49-20:09/80	06:48 19:02-19:43/41	07:37	07:26 15:25-16:00/35	08:19 15:29-15:58/29	08:49
	21:43 07:29-07:41/12	20:46 07:25-07:41/16	19:37	17:32	16:46	16:43
27	06:02 18:48-20:08/80 20:55-20:59/4	06:49 19:04-19:40/36	07:38	07:28 15:23-16:00/37	08:20 15:31-15:58/27	08:49
	21:41 07:28-07:44/16	20:44 07:28-07:36/8	19:35	17:30	16:45	16:44
28	06:03 18:49-20:09/80 20:54-21:02/8	06:51 19:07-19:37/30	07:40	07:30 15:22-16:01/39	08:22 15:33-15:57/24	08:49
	21:40 07:26-07:46/20	20:42	19:32	17:28	16:44	16:44
29	06:05 18:48-20:09/81 20:52-21:03/11	06:52 19:10-19:32/22	07:41	07:31 15:21-16:02/41	08:23 15:34-15:56/22	08:49
	21:38 07:24-07:47/23	20:40	19:30	17:27	16:44	16:45
30	06:06 18:48-20:08/80 20:51-21:03/12	06:54 19:19-19:24/5	07:43 18:56-19:00/4	07:33 15:20-16:03/43	08:25 15:36-15:55/19	08:50
	21:37 07:23-07:49/26	20:38	19:28	17:25	16:43	16:46
31	06:08 18:48-20:09/81 20:50-21:04/14	06:56 20:04-20:07/3		07:35 15:19-16:04/45		08:50
	21:35 07:22-07:50/28	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	2904	2865	20	376	1637	26

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June
1	08:50	14:50-15:34/44	08:24	08:58-09:29/31	07:32		07:23	19:36-19:52/16	06:20	07:00-07:25/25	05:37
	16:48	12:37-13:24/47	17:35	17:03-17:05/2	18:25		20:17		21:06		21:51
2	08:50	14:51-15:35/44	08:23	08:57-09:29/32	07:30		07:21	19:34-19:53/19	06:18	07:00-07:24/24	05:36
	16:49	12:38-13:24/46	17:37	17:04-17:07/3	18:27		20:19		21:08		21:52
3	08:49	14:52-15:35/43	08:21	08:56-09:29/33	07:28		07:19	19:33-19:55/22	06:17	07:02-07:24/22	05:35
	16:50	12:39-13:25/46	17:38	17:06-17:07/1	18:28		20:20		21:10		21:53
4	08:49	14:52-15:35/43	08:19	08:57-09:31/34	07:26		07:17	19:33-19:57/24	06:15	07:02-07:22/20	05:34
	16:51	12:39-13:24/45	17:40		18:30		20:22		21:11		21:54
5	08:49	14:53-15:36/43	08:18	08:56-09:31/35	07:24		07:14	19:33-19:58/25	06:13	07:03-07:20/17	05:34
	16:53	12:40-13:24/44	17:42		18:32		20:24		21:13		21:55
6	08:49	14:53-15:35/42	08:16	08:56-09:31/35	07:22		07:12	19:32-19:56/24	06:11	07:06-07:19/13	05:33
	16:54	12:41-13:24/43	17:44		18:33		20:25		21:14		21:56
7	08:48	14:54-15:36/42	08:15	08:55-09:31/36	07:19		07:10	19:32-19:55/23	06:09	07:08-07:16/8	05:32
	16:55	12:42-13:24/42	17:46		18:35		20:27		21:16		21:56
8	08:48	14:54-15:36/42	08:13	08:56-09:32/36	07:17		07:08	19:32-19:54/22	06:08		05:32
	16:56	12:43-13:23/40	17:47		18:37		20:29		21:17		21:57
9	08:48	14:55-15:37/42	08:11	08:56-09:32/36	07:15		07:06	19:33-19:53/20	06:06		05:32
	16:58	12:45-13:24/39	17:49		18:39		20:30		21:19		21:58
10	08:47	14:55-15:37/42	08:09	08:56-09:31/35	07:13		07:03	19:34-19:52/18	06:04		05:31
	16:59	12:46-13:23/37	17:51		18:40		20:32		21:21		21:59
11	08:46	14:56-15:37/41	08:08	08:56-09:31/35	07:11		07:01	19:35-19:51/16	06:03		05:31
	17:00	12:47-13:22/35	17:53		18:42		20:34		21:22		22:00
12	08:46	14:57-15:37/40	08:06	08:57-09:31/34	07:08		06:59	19:36-19:48/12	06:01		05:30
	17:02	12:49-13:22/33	17:55		18:44		20:35		21:24		22:00
13	08:45	14:58-15:37/39	08:04	08:57-09:30/33	07:06		06:57	19:40-19:44/4	06:00		05:30
	17:03	12:51-13:21/30	17:56		18:45		20:37		21:25		22:01
14	08:44	14:58-15:37/39	08:02	08:58-09:29/31	07:04		06:55		05:58		05:30
	17:05	12:53-13:20/27	17:58		18:47		20:38		21:27		22:02
15	08:44	14:59-15:37/38	08:00	08:58-09:28/30	07:02		06:53		05:57		05:30
	17:06	12:55-13:18/23	18:00		18:49		20:40		21:28		22:02
16	08:43	15:00-15:37/37	07:58	08:59-09:27/28	06:59	18:25-18:26/1	06:50		05:55		05:30
	17:08	12:58-13:15/17	18:02		18:51		20:42		21:30		22:03
17	08:42	15:01-15:37/36	07:57	09:00-09:26/26	06:57	18:24-18:27/3	06:48	07:11-07:22/11	05:54		05:30
	17:09	13:07-13:10/3	18:04		18:52		20:43		21:31		22:03
18	08:41	15:02-15:37/35	07:55	09:02-09:24/22	06:55	18:25-18:29/4	06:46	07:09-07:24/15	05:52		05:30
	17:11		18:05		18:54		20:45		21:33		22:03
19	08:40	15:03-15:36/33	07:53	09:04-09:21/17	06:53	18:26-18:31/5	06:44	07:07-07:25/18	05:51		05:30
	17:13		18:07		18:56		20:47		21:34		22:04
20	08:39	15:05-15:36/31	07:51	09:07-09:18/11	06:50		06:42	07:05-07:26/21	05:49		05:30
	17:14		18:09	17:40-17:42/2	18:57		20:48		21:35		22:04
21	08:38	15:05-15:35/30	07:49	17:42-17:44/2	06:48		06:40	07:03-07:27/24	05:48		05:30
	17:16		18:11		18:59		20:50		21:37		22:04
22	08:37	15:07-15:34/27	07:47		06:46		06:38	07:02-07:27/25	05:47		05:30
	17:17		18:13		19:01		20:52		21:38		22:05
23	08:36	15:09-15:33/24	07:45		06:44		06:36	07:01-07:28/27	05:46		05:30
	17:19		18:14		19:02		20:53		21:40		22:05
24	08:35	15:12-15:32/20	07:43		06:41		06:34	07:00-07:28/28	05:45		05:31
	17:21		18:16		19:04		20:55		21:41		22:05
25	08:34	15:14-15:30/16	07:41		06:39		06:32	07:00-07:28/28	05:43		05:31
	17:23	09:06-09:17/11	18:18		19:06		20:57		21:42		22:05
26	08:32	15:19-15:27/8	07:39		06:37		06:30	06:59-07:27/28	05:42		05:31
	17:24	09:04-09:20/16	18:20		19:07		20:58		21:43		22:05
27	08:31	09:02-09:22/20	07:36		06:35		06:28	06:59-07:27/28	05:41		05:32
	17:26		18:21		19:09		21:00		21:45		22:05
28	08:30	09:01-09:24/23	07:34		06:32		06:26	07:00-07:28/28	05:40		05:32
	17:28		18:23		19:10		21:01		21:46		22:05
29	08:28	09:00-09:25/25			07:30	19:42-19:47/5	06:24	07:00-07:27/27	05:39		05:33
	17:29				20:12		21:03		21:47		22:05
30	08:27	08:59-09:27/28			07:28	19:39-19:49/10	06:22	07:00-07:26/26	05:38		05:33
	17:31				20:14		21:05		21:48		22:04
31	08:26	08:58-09:27/29			07:26	19:37-19:50/13			05:37		
	17:33	17:01-17:03/2			20:15				21:49		
Potential sun hours	262		279		367		415		482		495
Sum of minutes with flicker	1672		620		41		579		129		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57	19:34-19:50/16	07:45		07:37	08:26-09:01/35	08:26	14:38-15:19/41
	22:04	21:34		20:33		19:25		17:21		16:42	12:29-13:04/35
2	05:35	06:11		06:59	19:32-19:50/18	07:46		07:38	08:26-09:01/35	08:27	14:38-15:20/42
	22:04	21:32		20:31		19:23		17:19		16:42	12:29-13:06/37
3	05:35	06:12		07:00	19:31-19:52/21	07:48		07:40	08:26-09:02/36	08:29	14:38-15:20/42
	22:04	21:30		20:29		19:21		17:18		16:41	12:28-13:07/39
4	05:36	06:14		07:02	19:29-19:51/22	07:49		07:42	08:25-09:01/36	08:30	14:39-15:21/42
	22:03	21:29		20:27		19:19		17:16		16:40	12:28-13:08/40
5	05:37	06:15		07:03	19:29-19:52/23	07:51		07:44	08:25-09:01/36	08:31	14:39-15:21/42
	22:03	21:27		20:24		19:17		17:14		16:40	12:27-13:09/42
6	05:38	06:17	07:16-07:26/10	07:05	19:28-19:52/24	07:53		07:45	08:26-09:01/35	08:33	14:39-15:21/42
	22:02	21:25		20:22		19:14		17:12		16:40	12:27-13:10/43
7	05:38	06:18	07:14-07:29/15	07:07	19:28-19:53/25	07:54		07:47	08:26-09:00/34	08:34	14:40-15:23/43
	22:02	21:24		20:20		19:12		17:11		16:39	12:27-13:11/44
8	05:39	06:20	07:12-07:30/18	07:08	19:27-19:51/24	07:56		07:49	08:27-09:00/33	08:35	14:40-15:23/43
	22:01	21:22		20:18		19:10		17:09	16:36-16:39/3	16:39	12:27-13:12/45
9	05:40	06:21	07:12-07:32/20	07:10	19:28-19:49/21	07:58		07:50	08:28-09:00/32	08:36	14:40-15:23/43
	22:00	21:20		20:15		19:08		17:08	16:34-16:38/4	16:39	12:27-13:13/46
10	05:41	06:23	07:10-07:32/22	07:11	19:27-19:46/19	07:59		07:52	08:29-08:59/30	08:37	14:40-15:24/44
	22:00	21:18		20:13		19:05		17:06	16:33-16:36/3	16:38	12:27-13:13/46
11	05:42	06:24	07:10-07:34/24	07:13	19:28-19:45/17	08:01		07:54	08:30-08:59/29	08:38	14:40-15:24/44
	21:59	21:16		20:11		19:03		17:04	16:33-16:35/2	16:38	12:27-13:14/47
12	05:43	06:26	07:08-07:34/26	07:14	19:28-19:42/14	08:02		07:56	08:31-08:58/27	08:39	14:41-15:24/43
	21:58	21:14		20:09		19:01		17:03		16:38	12:27-13:15/48
13	05:44	06:27	07:08-07:35/27	07:16	19:30-19:40/10	08:04		07:57	08:32-08:57/25	08:40	14:41-15:25/44
	21:57	21:13		20:06		18:59		17:01		16:38	12:27-13:16/49
14	05:45	06:29	07:07-07:35/28	07:18	19:32-19:37/5	08:06		07:59	08:33-08:56/23	08:41	14:42-15:25/43
	21:56	21:11		20:04		18:57		17:00		16:38	12:27-13:16/49
15	05:47	06:31	07:06-07:34/28	07:19		08:07		08:01	08:35-08:55/20	08:42	14:42-15:26/44
	21:56	21:09		20:02		18:55		16:59		16:38	12:28-13:17/49
16	05:48	06:32	07:07-07:35/28	07:21		08:09		08:02	14:52-15:00/8	08:43	14:43-15:27/44
	21:55	21:07		20:00		18:53		16:57	08:37-08:53/16	16:38	12:28-13:18/50
17	05:49	06:34	07:06-07:34/28	07:22		08:11		08:04	14:48-15:04/16	08:44	14:43-15:27/44
	21:54	21:05		19:57		18:50		16:56	08:40-08:51/11	16:39	12:29-13:19/50
18	05:50	06:35	07:06-07:34/28	07:24		08:12		08:06	14:46-15:06/20	08:45	14:43-15:27/44
	21:52	21:03		19:55		18:48		16:55		16:39	12:28-13:18/50
19	05:51	06:37	07:06-07:33/27	07:25		08:14		08:07	14:43-15:07/24	08:45	14:44-15:28/44
	21:51	21:01		19:53		18:46		16:54		16:39	12:29-13:19/50
20	05:53	06:38	07:07-07:33/26	07:27		08:16	18:15-18:17/2	08:09	14:42-15:09/27	08:46	14:45-15:29/44
	21:50	20:59		19:50		18:44		16:52		16:40	12:30-13:20/50
21	05:54	06:40	07:07-07:32/25	07:29		08:18	18:11-18:14/3	08:11	14:41-15:11/30	08:47	14:45-15:29/44
	21:49	20:57		19:48		18:42		16:51		16:40	12:30-13:20/50
22	05:55	06:41	07:08-07:32/24	07:30		08:19	09:36-09:50/14	08:12	14:41-15:12/31	08:47	14:46-15:30/44
	21:48	20:55		19:46		18:40	18:10-18:12/2	16:50		16:40	12:31-13:21/50
23	05:57	06:43	07:09-07:30/21	07:32		08:21	09:34-09:52/18	08:14	14:39-15:12/33	08:48	14:46-15:30/44
	21:47	20:53		19:44		18:38		16:49		16:41	12:31-13:21/50
24	05:58	06:45	07:11-07:29/18	07:33	19:10-19:15/5	08:23	09:32-09:55/23	08:16	14:39-15:14/35	08:48	14:46-15:30/44
	21:45	20:50		19:41		18:36		16:48		16:41	12:31-13:21/50
25	05:59	06:46	07:12-07:26/14	07:35	19:08-19:12/4	07:24	08:31-08:56/25	08:17	14:39-15:15/36	08:48	14:47-15:31/44
	21:44	20:48		19:39		17:34		16:47	12:46-12:47/1	16:42	12:32-13:22/50
26	06:01	06:48	07:14-07:24/10	07:37	19:07-19:10/3	07:26	08:29-08:58/29	08:19	14:38-15:15/37	08:49	14:47-15:31/44
	21:43	20:46		19:37		17:32		16:46	12:36-12:53/17	16:43	12:33-13:23/50
27	06:02	06:49		07:38	19:07-19:08/1	07:28	08:28-08:58/30	08:20	14:38-15:16/38	08:49	14:48-15:32/44
	21:41	20:44		19:35		17:30		16:45	12:34-12:57/23	16:44	12:33-13:23/50
28	06:03	06:51		07:40		07:30	08:27-08:59/32	08:22	14:38-15:17/39	08:49	14:48-15:32/44
	21:40	20:42		19:32		17:28		16:44	12:33-12:59/26	16:44	12:34-13:23/49
29	06:05	06:52		07:41		07:31	08:26-09:00/34	08:23	14:38-15:17/39	08:49	14:48-15:32/44
	21:38	20:40		19:30		17:27		16:44	12:31-13:01/30	16:45	12:34-13:23/49
30	06:06	06:54	19:41-19:45/4	07:43		07:33	08:26-09:00/34	08:25	14:38-15:19/41	08:50	14:49-15:33/44
	21:37	20:38		19:28		17:25		16:43	12:30-13:03/33	16:46	12:35-13:23/48
31	06:08	06:56	19:36-19:48/12			07:35	08:26-09:01/35			08:50	14:49-15:33/44
	21:35	20:35				17:23				16:47	12:36-13:24/48
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	483		272		281		1089		2799	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	08:12-08:31/19	06:20		05:36	
	16:48	17:35	18:25		20:17		21:06		21:51	
2	08:50	08:22	07:30		07:21	08:15-08:28/13	06:18		05:36	
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28		07:19		06:16		05:35	
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26		07:16		06:15		05:34	
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24		07:14		06:13		05:33	
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21		07:12		06:11		05:33	
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19		07:10		06:09		05:32	
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17		07:08		06:08		05:32	
	16:56	17:47	18:37		20:29		21:17		21:57	
9	08:47	08:11	07:15		07:05		06:06		05:31	
	16:57	17:49	18:38		20:30		21:19		21:58	
10	08:47	08:09	07:13		07:03		06:04		05:31	
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:46	08:08	07:10		07:01		06:03	06:28-06:29/1	05:30	06:00-06:01/1
	17:00	17:53	18:42		20:33		21:22		22:00	
12	08:46	08:06	07:08	07:31-07:32/1	06:59		06:01	06:26-06:29/3	05:30	05:59-06:00/1
	17:02	17:54	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	07:29-07:37/8	06:57		05:59	06:25-06:29/4	05:30	05:59-06:00/1
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	07:26-07:38/12	06:55		05:58	06:23-06:28/5	05:30	05:59-06:00/1
	17:05	17:58	18:47		20:38		21:27		22:02	
15	08:44	08:00	07:02	07:24-07:40/16	06:52		05:56	06:22-06:28/6	05:30	05:59-06:00/1
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:22-07:42/20	06:50		05:55	06:21-06:28/7	05:29	05:59-06:00/1
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	07:19-07:42/23	06:48		05:53	06:19-06:27/8	05:29	05:59-06:00/1
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	07:17-07:43/26	06:46		05:52	06:18-06:26/8	05:29	05:59-06:00/1
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:53	07:15-07:43/28	06:44		05:51	06:17-06:25/8	05:29	05:59-06:00/1
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50	07:13-07:44/31	06:42		05:49	06:19-06:24/5	05:29	05:59-06:00/1
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48	07:10-07:43/33	06:40		05:48		05:30	06:00-06:01/1
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46	07:08-07:43/35	06:38		05:47		05:30	06:00-06:01/1
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:43	07:08-07:43/35	06:36		05:45		05:30	06:00-06:01/1
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41	07:08-07:43/35	06:34		05:44		05:30	06:00-06:01/1
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:40	06:39	07:08-07:42/34	06:32		05:43		05:31	06:01-06:02/1
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37	07:08-07:41/33	06:30		05:42		05:31	06:01-06:02/1
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34	07:08-07:40/32	06:28		05:41		05:31	06:02-06:03/1
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32	07:08-07:39/31	06:26		05:40		05:32	06:02-06:03/1
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	08:09-08:37/28	06:24		05:39		05:32	06:03-06:04/1
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	08:10-08:36/26	06:22		05:38		05:33	06:03-06:04/1
	17:31		20:14		21:05		21:48		22:04	
31	08:25		07:25	08:12-08:34/22			05:37			
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	509		32		55		20	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:05/1	06:09 06:37-06:39/2	06:57	07:44 08:09-08:14/5	07:36	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:05/1	06:10	06:59	07:46	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02	07:49	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05	07:52	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:19	07:08	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57	07:50	08:36
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41	06:23	07:11 08:09-08:21/12	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 08:06-08:24/18	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 08:03-08:25/22	08:02	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 08:02-08:27/25	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 08:00-08:28/28	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 07:59-08:29/30	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 07:57-08:29/32	08:09	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 07:56-08:29/33	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 07:55-08:29/34	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 07:55-08:29/34	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 07:55-08:30/35	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 07:54-08:29/35	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 07:55-08:29/34	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 07:56-08:27/31	08:21	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:35/6	06:44	07:33 07:58-08:27/29	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:36/8	06:46	07:35 07:59-08:25/26	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:37/8	06:48	07:36 08:01-08:25/24	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:38/8	06:49	07:38 08:03-08:24/21	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:39/7	06:51	07:40 08:04-08:22/18	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:39/6	06:52	07:41 08:06-08:20/14	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:39/5	06:54	07:43 08:07-08:17/10	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:07 06:36-06:39/3	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	53	2	545	5	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 13:21-14:39/78 16:48	08:24 13:49-14:35/46 17:35	07:32 17:40-17:59/19 18:25	07:23 19:11-19:50/39 20:17	06:20 21:06	05:36 21:51
2	08:50 13:21-14:40/79 16:49	08:23 13:51-14:32/41 17:36	07:30 17:39-18:01/22 18:26	07:21 19:11-19:50/39 20:19	06:18 21:08	05:36 21:52
3	08:49 13:22-14:40/78 16:50	08:21 13:54-14:30/36 17:38	07:28 17:39-18:03/24 18:28	07:19 19:10-19:51/41 20:20	06:16 21:10	05:35 06:03-06:05/2 21:53
4	08:49 13:22-14:40/78 16:51	08:19 13:58-14:28/30 17:40	07:26 17:38-18:05/27 18:30	07:17 19:10-19:51/41 20:22	06:15 21:11	05:34 06:02-06:06/4 21:54
5	08:49 13:23-14:41/78 16:52	08:18 14:03-14:24/21 17:42	07:24 17:37-18:06/29 18:32	07:14 19:10-19:50/40 20:24	06:13 21:13	05:33 06:02-06:07/5 21:55
6	08:49 13:23-14:41/78 16:54	08:16 14:12-14:15/3 17:44	07:21 17:37-18:07/30 18:33	07:12 19:09-19:49/40 20:25	06:11 21:14	05:33 06:01-06:07/6 21:56
7	08:48 13:24-14:41/77 16:55	08:15 17:45	07:19 17:37-18:07/30 18:35	07:10 19:09-19:49/40 20:27	06:09 21:16	05:32 06:01-06:08/7 21:56
8	08:48 13:24-14:41/77 16:56	08:13 17:47	07:17 17:37-18:07/30 18:37	07:08 19:10-19:48/38 20:29	06:08 21:17	05:32 06:01-06:10/9 21:57
9	08:48 13:25-14:42/77 16:58	08:11 17:49	07:15 17:37-18:06/29 18:39	07:05 19:10-19:48/38 20:30	06:06 21:19	05:31 06:00-06:09/9 21:58
10	08:47 13:25-14:42/77 16:59	08:09 17:51	07:13 17:37-18:05/28 18:40	07:03 19:11-19:47/36 20:32	06:04 21:21	05:31 06:00-06:10/10 21:59
11	08:46 13:26-14:42/76 17:00	08:08 17:53	07:10 17:38-18:04/26 18:42	07:01 19:11-19:45/34 20:34	06:03 21:22	05:31 06:00-06:11/11 22:00
12	08:46 13:27-14:43/76 17:02	08:06 17:54	07:08 17:39-18:03/24 18:44	06:59 19:11-19:44/33 20:35	06:01 21:24	05:30 05:59-06:11/12 22:00
13	08:45 13:28-14:43/75 17:03	08:04 17:56	07:06 17:40-18:01/21 18:45	06:57 19:13-19:43/30 20:37	05:59 21:25	05:30 05:59-06:11/12 22:01
14	08:45 13:28-14:43/75 17:05	08:02 17:58	07:04 17:42-17:59/17 18:47	06:55 19:14-19:41/27 20:38	05:58 21:27	05:30 05:59-06:12/13 22:02
15	08:44 13:29-14:43/74 17:06	08:00 18:00	07:02 17:45-17:56/11 18:49	06:52 19:16-19:40/24 20:40	05:56 21:28	05:30 05:59-06:12/13 22:02
16	08:43 13:29-14:43/74 17:08	07:58 18:02	06:59 18:50	06:50 19:18-19:37/19 20:42	05:55 21:30	05:30 05:59-06:13/14 22:03
17	08:42 13:30-14:43/73 17:09	07:57 18:03	06:57 18:21-18:27/6 18:52	06:48 19:20-19:34/14 20:43	05:53 21:31	05:29 05:59-06:13/14 22:03
18	08:41 13:31-14:43/72 17:11	07:55 18:05	06:55 18:19-18:29/10 18:54	06:46 20:45	05:52 21:33	05:29 05:59-06:13/14 22:03
19	08:40 13:32-14:43/71 17:12	07:53 18:07	06:53 18:17-18:31/14 18:55	06:44 20:47	05:51 21:34	05:29 05:59-06:13/14 22:04
20	08:39 13:33-14:43/70 17:14	07:51 18:09	06:50 18:16-18:32/16 18:57	06:42 20:48	05:49 21:35	05:30 05:59-06:13/14 22:04
21	08:38 13:33-14:42/69 17:16	07:49 18:11	06:48 18:14-18:33/19 18:59	06:40 20:50	05:48 21:37	05:30 05:59-06:14/15 22:04
22	08:37 13:34-14:42/68 17:17	07:47 18:12	06:46 18:13-18:35/22 19:00	06:38 20:52	05:47 21:38	05:30 06:00-06:14/14 22:05
23	08:36 13:36-14:42/66 17:19	07:45 18:14	06:44 18:13-18:37/24 19:02	06:36 20:53	05:46 21:40	05:30 06:00-06:14/14 22:05
24	08:35 13:37-14:42/65 17:21	07:43 18:16	06:41 18:12-18:38/26 19:04	06:34 20:55	05:44 21:41	05:30 06:00-06:14/14 22:05
25	08:34 13:37-14:41/64 17:22	07:41 17:48-17:52/4 18:18	06:39 18:11-18:40/29 19:05	06:32 20:57	05:43 21:42	05:31 06:01-06:15/14 22:05
26	08:32 13:39-14:41/62 17:24	07:38 17:46-17:54/8 18:19	06:37 18:12-18:42/30 19:07	06:30 20:58	05:42 21:43	05:31 06:01-06:15/14 22:05
27	08:31 13:40-14:39/59 17:26	07:36 17:44-17:56/12 18:21	06:35 18:12-18:44/32 19:09	06:28 21:00	05:41 21:45	05:32 06:02-06:15/13 22:05
28	08:30 13:42-14:39/57 17:28	07:34 17:41-17:57/16 18:23	06:32 18:11-18:45/34 19:10	06:26 21:01	05:40 21:46	05:32 06:02-06:15/13 22:05
29	08:28 13:43-14:38/55 17:29		07:30 19:12-19:47/35 20:12	06:24 21:03	05:39 21:47	05:33 06:03-06:16/13 22:05
30	08:27 13:45-14:37/52 17:31		07:28 19:12-19:49/37 20:14	06:22 21:05	05:38 21:48	05:33 06:03-06:15/12 22:04
31	08:26 13:46-14:35/49 17:33		07:26 19:13-19:50/37 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	2179	217	738	573	0	319

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:15/11	06:09	06:57 19:10-19:45/35	07:44 18:19-18:42/23	07:37	08:26 13:08-14:24/76
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:15/11	06:11	06:59 19:09-19:45/36	07:46 18:17-18:43/26	07:38	08:27 13:09-14:25/76
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:15/10	06:12	07:00 19:08-19:46/38	07:48 18:16-18:43/27	07:40	08:29 13:08-14:25/77
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:15/9	06:14	07:02 19:07-19:45/38	07:49 18:15-18:43/28	07:42	08:30 13:09-14:26/77
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:15/8	06:15	07:03 19:07-19:46/39	07:51 18:14-18:44/30	07:44 13:39-13:47/8	08:31 13:09-14:26/77
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:14/7	06:17	07:05 19:05-19:45/40	07:53 18:13-18:43/30	07:45 13:32-13:54/22	08:33 13:09-14:27/78
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:14/6	06:18	07:07 19:05-19:46/41	07:54 18:13-18:43/30	07:47 13:27-13:58/31	08:34 13:10-14:28/78
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20	07:08 19:04-19:45/41	07:56 18:13-18:43/30	07:49 13:24-14:01/37	08:35 13:10-14:28/78
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21	07:10 19:05-19:45/40	07:57 18:12-18:40/28	07:50 13:22-14:03/41	08:36 13:10-14:28/78
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:12/1	06:23	07:11 19:04-19:44/40	07:59 18:13-18:38/25	07:52 13:20-14:06/46	08:37 13:10-14:29/79
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 19:04-19:43/39	08:01 18:13-18:36/23	07:54 13:18-14:07/49	08:38 13:11-14:29/78
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:04-19:42/38	08:02 18:13-18:33/20	07:56 13:16-14:08/52	08:39 13:11-14:30/79
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:04-19:40/36	08:04 18:14-18:31/17	07:57 13:15-14:10/55	08:40 13:11-14:30/79
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 19:02-19:37/35	08:06 18:15-18:29/14	07:59 13:14-14:11/57	08:41 13:12-14:31/79
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 19:02-19:35/33	08:07 18:17-18:27/10	08:01 13:13-14:12/59	08:42 13:12-14:31/79
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 19:00-19:33/33	08:09 18:18-18:24/6	08:02 13:12-14:14/62	08:43 13:13-14:32/79
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49	06:34	07:22 19:00-19:31/31	08:11 18:21-18:22/1	08:04 13:11-14:15/64	08:44 13:14-14:33/79
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 18:59-19:28/29	08:12	08:06 13:11-14:16/65	08:45 13:13-14:32/79
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 18:59-19:26/27	08:14	08:08 13:10-14:16/66	08:45 13:14-14:33/79
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 18:59-19:24/25	08:16	08:09 13:09-14:17/68	08:46 13:15-14:34/79
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29 18:59-19:21/22	08:18	08:11 13:09-14:18/69	08:47 13:15-14:34/79
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 19:00-19:20/20	08:19	08:12 13:09-14:19/70	08:47 13:16-14:35/79
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 18:59-19:17/18	08:21	08:14 13:08-14:19/71	08:48 13:16-14:35/79
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 19:01-19:15/14	08:23	08:16 13:08-14:20/72	08:48 13:16-14:35/79
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 19:29-19:31/2	07:35 19:01-19:12/11	07:24	08:17 13:08-14:21/73	08:48 13:17-14:36/79
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 19:23-19:37/14	07:36 19:03-19:10/7	07:26	08:19 13:08-14:21/73	08:49 13:18-14:37/79
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 19:19-19:39/20	07:38 19:07-19:08/1	07:28	08:20 13:08-14:22/74	08:49 13:18-14:37/79
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51 19:17-19:42/25	07:40 18:27-18:36/9	07:30	08:22 13:08-14:23/75	08:49 13:18-14:37/79
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:15-19:42/27	07:41 18:23-18:39/16	07:31	08:23 13:08-14:23/75	08:49 13:19-14:38/79
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:13-19:44/31	07:43 18:20-18:40/20	07:33	08:25 13:08-14:24/76	08:50 13:19-14:38/79
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:11-19:44/33		07:35		08:50 13:20-14:38/78
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	70	152	852	368	1510	2431

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 09:18-09:25/7	07:32 08:04-08:08/4	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49	08:22 08:48-08:49/1	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49	08:21 08:46-08:48/2	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49	08:19 08:45-08:46/1	07:26	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49	08:18 08:43-08:46/3	07:23	07:14	06:13	05:33
	16:52	17:42	18:32	20:23	21:12	21:54
6	08:48	08:16 08:41-08:45/4	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13 08:41-08:42/1	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:07	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:20/6	08:04	07:06	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:22/9	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:26	22:01
15	08:43 09:12-09:23/11	08:00 08:24-08:26/2	07:01	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:24/13	07:58 08:22-08:25/3	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56 08:20-08:25/5	06:57	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:10-09:26/16	07:54 08:18-08:23/5	06:55	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:27/17	07:52 08:16-08:25/9	06:52	06:44	05:51	05:29
	17:12	18:07	18:55	20:46	21:34	22:04
20	08:39 09:09-09:27/18	07:50 08:14-08:25/11	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:09-09:28/19	07:48 08:12-08:26/14	06:48	06:40	05:48	05:30
	17:16 09:05-09:06/1	18:11	18:59	20:50	21:37	22:04
22	08:37 09:09-09:29/20	07:46 08:10-08:26/16	06:46	06:38	05:47	05:30
	17:17 09:04-09:07/3	18:12	19:00	20:51	21:38	22:04
23	08:36 09:10-09:30/20	07:44 08:08-08:26/18	06:43	06:36	05:46	05:30
	17:19 09:03-09:07/4	18:14	19:02	20:53	21:39	22:04
24	08:35 09:09-09:29/20	07:42 08:06-08:25/19	06:41	06:34	05:44	05:30
	17:21 09:02-09:08/6	18:16	19:04	20:55	21:41	22:05
25	08:33 09:10-09:30/20	07:40 08:04-08:24/20	06:39	06:32	05:43	05:31
	17:22 09:00-09:07/7	18:18	19:05	20:56	21:42	22:05
26	08:32 09:11-09:30/19	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24 09:00-09:06/6	18:19 08:14-08:22/8	19:07	20:58	21:43	22:05
27	08:31 09:11-09:29/18	07:36 08:02-08:13/11	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:44	22:05
28	08:29 09:12-09:30/18	07:34 08:02-08:11/9	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:12-09:29/17		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 09:14-09:28/14		07:28	06:22	05:38	05:33
	17:31		20:14	21:04	21:48	22:04
31	08:25 09:15-09:27/12		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	329	185	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:10	06:59	07:46		07:38		08:27	
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:10-08:12/2	08:29	
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:13	07:02	07:49		07:42	08:09-08:14/5	08:30	
	22:03	21:28	20:26	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:15/4	08:31	
	22:02	21:27	20:24	19:16		17:14		16:40	
6	05:37	06:16	07:05	07:52		07:45	08:13-08:15/2	08:32	
	22:02	21:25	20:22	19:14		17:12		16:39	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:17/2	08:34	
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:19/2	08:35	
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	
	22:00	21:20	20:15	19:07		17:07		16:38	
10	05:41	06:23	07:11	07:59		07:52	08:48-08:56/8	08:37	
	21:59	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:46-08:58/12	08:38	
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:55	08:45-08:59/14	08:39	
	21:58	21:14	20:08	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04	08:36-08:43/7	07:57	08:44-09:01/17	08:40	
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06	08:34-08:44/10	07:59	08:44-09:02/18	08:41	
	21:56	21:10	20:04	18:57		17:00		16:38	
15	05:46	06:30	07:19	08:07	08:34-08:45/11	08:01	08:44-09:02/18	08:42	
	21:55	21:08	20:02	18:55	08:47-08:53/6	16:59		16:38	
16	05:48	06:32	07:21	08:09	08:34-08:54/20	08:02	08:44-09:03/19	08:43	
	21:54	21:07	19:59	18:52		16:57	08:33-08:39/6	16:38	
17	05:49	06:33	07:22	08:11	08:36-08:56/20	08:04	08:44-09:04/20	08:44	
	21:53	21:05	19:57	18:50		16:56	08:34-08:41/7	16:38	
18	05:50	06:35	07:24	08:12	08:38-08:57/19	08:06	08:43-09:03/20	08:44	
	21:52	21:03	19:55	18:48		16:55	08:36-08:42/6	16:39	
19	05:51	06:37	07:25	08:14	08:40-08:57/17	08:07	08:44-09:04/20	08:45	09:24-09:26/2
	21:51	21:01	19:53	18:46		16:53	08:37-08:41/4	16:39	
20	05:52	06:38	07:27	08:16	08:42-08:57/15	08:09	08:44-09:04/20	08:46	09:25-09:27/2
	21:50	20:59	19:50	18:44		16:52	08:39-08:42/3	16:39	
21	05:54	06:40	07:28	08:17	08:43-08:56/13	08:11	08:45-09:04/19	08:46	09:25-09:27/2
	21:49	20:56	19:48	18:42		16:51	08:41-08:42/1	16:40	
22	05:55	06:41	07:30	08:19	08:45-08:56/11	08:12	08:45-09:03/18	08:47	09:26-09:28/2
	21:48	20:54	19:46	18:40		16:50		16:40	
23	05:56	06:43	07:32	08:21	08:47-08:55/8	08:14	08:46-09:03/17	08:47	09:26-09:28/2
	21:46	20:52	19:43	18:38		16:49		16:41	
24	05:58	06:44	07:33	08:22	08:49-08:54/5	08:15	08:47-09:04/17	08:48	09:26-09:28/2
	21:45	20:50	19:41	18:36		16:48		16:41	
25	05:59	06:46	07:35	07:24	07:51-07:56/5	08:17	08:48-09:04/16	08:48	09:28-09:29/1
	21:44	20:48	19:39	17:34		16:47		16:42	
26	06:00	06:48	07:36	07:26	07:53-07:56/3	08:18	08:49-09:02/13	08:49	
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28	07:54-07:55/1	08:20	08:51-09:02/11	08:49	
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:39	07:29		08:21	08:53-09:02/9	08:49	
	21:39	20:42	19:32	17:28		16:44		16:44	
29	06:05	06:52	07:41	07:31		08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:43		16:45	
30	06:06	06:54	07:43	07:33		08:24		08:49	
	21:36	20:37	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35				08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	171		356		13	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: MVZ_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 08:50-08:56/6	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:55/7	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:55/9	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:46-08:55/9	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:47-08:53/6	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45 08:16-08:23/7	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:25/10	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:26/9	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50 08:19-08:26/7	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:21-08:27/6	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:23-08:27/4	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:24-08:26/2	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:27/1	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:38-08:45/7	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:37-08:47/10	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02 08:37-08:48/11	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04 08:36-08:49/13	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41 09:09-09:13/4	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06 08:35-08:49/14	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 09:08-09:14/6	07:52	06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:50/13	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:06-09:14/8	07:50	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09 08:39-08:50/11	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:14/9	07:48	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:50/9	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:40
22	08:37 09:04-09:15/11	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:51/8	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:03-09:16/13	07:44	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:50/6	08:47
	17:19	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:01-09:15/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15 08:46-08:50/4	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:02-09:15/13	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:04-09:15/11	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:04-09:14/10	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:06-09:13/7	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:21	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 08:54-08:55/1		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 08:51-08:55/4		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	115	37	0	0	0	0	0	0	0	0	154	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: MVZ_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 16:48	08:24 08:50-08:57/7 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:36 21:50	05:34 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 08:04-08:10/6 17:21	08:26 16:42
2	08:49 16:49	08:22 08:48-08:57/9 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51	05:34 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 08:06-08:11/5 17:19	08:27 16:41
3	08:49 16:50	08:21 08:46-08:56/10 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52	05:35 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:07-08:10/3 17:17	08:29 16:41
4	08:49 16:51	08:19 08:46-08:56/10 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53	05:36 22:03	06:13 21:28	07:02 20:26	07:49 19:19	07:42 08:09-08:10/1 17:16	08:30 16:40
5	08:49 16:53	08:18 08:47-08:55/8 17:42	07:23 18:32	07:14 20:23	06:13 21:12	05:34 21:54	05:37 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 08:18-08:23/5 17:14	08:31 16:40
6	08:48 16:54	08:16 08:49-08:53/4 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 21:55	05:37 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 08:17-08:25/8 17:12	08:32 16:39
7	08:48 16:55	08:14 08:39-08:40/1 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:56	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 08:16-08:26/10 17:11	08:34 16:39
8	08:48 16:56	08:13 08:38-08:41/3 17:47	07:17 18:37	07:08 20:28	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 08:17-08:27/10 17:09	08:35 16:39
9	08:47 16:58	08:11 08:36-08:41/5 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58	05:40 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 08:19-08:28/9 17:07	08:36 16:39
10	08:47 16:59	08:09 08:34-08:40/6 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59	05:41 21:59	06:23 21:18	07:11 20:13	07:59 19:05	07:52 08:21-08:28/7 17:06	08:37 16:38
11	08:46 17:00	08:07 08:32-08:39/7 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 08:22-08:27/5 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:23	05:30 22:00	05:43 21:58	06:26 21:14	07:14 20:08	08:02 19:01	07:55 08:24-08:27/3 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01	05:44 21:57	06:27 21:12	07:16 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:26	05:30 22:01	05:45 21:56	06:29 21:10	07:17 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:43 17:06	08:00 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02	05:46 21:55	06:30 21:08	07:19 20:02	08:07 18:55	08:01 16:59	08:42 16:38
16	08:43 17:08	07:58 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02	05:48 21:54	06:32 21:07	07:21 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03	05:49 21:53	06:33 21:05	07:22 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:54 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:29 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 16:55	08:44 16:39
19	08:40 17:12	07:52 18:07	06:52 18:55	06:44 20:46	05:51 21:34	05:30 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:50 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04	05:52 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:16	07:48 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:56	07:28 19:48	08:17 18:42	08:11 16:51	08:46 16:40
22	08:37 17:17	07:46 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04	05:55 21:48	06:41 20:54	07:30 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:04	05:56 21:46	06:43 20:52	07:32 19:43	08:21 18:38	08:14 16:49	08:47 16:41
24	08:35 17:21	07:42 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05	05:58 21:45	06:44 20:50	07:33 19:41	08:22 18:36	08:15 16:48	08:48 16:41
25	08:33 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:00 21:42	06:48 20:46	07:36 19:37	07:26 17:32	08:18 16:46	08:48 16:43
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 21:44	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:29 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:39	06:51 20:42	07:39 19:32	07:29 17:28	08:21 16:44	08:49 16:44
29	08:28 08:54-08:55/1 17:29		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04	06:05 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 08:53-08:56/3 17:31		07:28 20:14	06:22 21:04	05:38 21:48	05:33 22:04	06:06 21:36	06:54 20:37	07:43 19:28	07:33 08:04-08:06/2 17:25	08:24 16:43	08:49 16:46
31	08:25 08:51-08:56/5 17:33		07:25 20:15		05:37 21:49		06:08 21:35	06:55 20:35		07:35 08:02-08:09/7 17:23		08:49 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	9	70	0	0	0	0	0	0	0	9	72	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:26/6	08:24 08:50-08:54/4	07:32 07:55-08:17/22	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:27/7	08:22 08:48-08:52/4	07:30 07:53-08:18/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:27/7	08:21	07:28 07:51-07:52/1	07:19	06:16	05:35
	16:50	17:38	18:28 07:53-08:19/26	20:20	21:09	21:53
4	08:49 09:19-09:26/7	08:19	07:26 07:49-08:19/30	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:20-09:26/6	08:18	07:24 07:46-08:18/32	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:20-09:25/5	08:16	07:21 07:44-08:18/34	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:23-09:24/1	08:14	07:19 07:42-08:18/36	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13	07:17 07:40-08:18/38	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15 07:38-08:17/39	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13 07:37-08:15/38	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08	07:10 07:38-08:14/36	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08 07:39-07:52/13	06:59	06:01	05:30
	17:02	17:54	18:44 07:54-08:13/19	20:35	21:24	22:00
13	08:45	08:04	07:06 07:40-07:50/10	06:57	05:59	05:30
	17:03	17:56	18:45 07:56-08:10/14	20:37	21:25	22:01
14	08:44	08:02	07:04 07:58-08:06/8	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:23/3	06:57	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:22/4	06:55	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40	07:53 08:16-08:21/5	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 08:16-08:19/3	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:15/15	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:16/19	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	44	75	421	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:18-08:30/12	07:36	08:26
	22:04	21:33	20:33	19:25 08:33-08:51/18	17:21	16:42
2	05:34	06:11	06:59	07:46 08:17-08:52/35	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:15-08:53/38	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:15-08:54/39	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:54/38	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05	07:52 08:17-08:54/37	07:45	08:33 09:06-09:11/5
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:54/35	07:47	08:34 09:07-09:13/6
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:54/33	07:49	08:35 09:07-09:14/7
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:53/31	07:50 08:19-08:23/4	08:36 09:08-09:15/7
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:24-08:53/29	07:52 08:21-08:25/4	08:37 09:09-09:16/7
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:27-08:52/25	07:54 08:23-08:26/3	08:38 09:10-09:16/6
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 08:27-08:51/24	07:56 08:24-08:26/2	08:39 09:11-09:17/6
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:29-08:50/21	07:57	08:40 09:12-09:18/6
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 08:31-08:49/18	07:59	08:41 09:13-09:18/5
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07 08:33-08:47/14	08:01	08:42 09:14-09:19/5
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21	08:09 08:34-08:43/9	08:02	08:43 09:15-09:20/5
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04	08:44 09:16-09:20/4
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 08:38-08:39/1	08:06	08:44 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:21/4
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09	08:46 09:18-09:22/4
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17	08:11	08:46 09:18-09:22/4
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:45-08:50/5	08:12	08:47 09:19-09:23/4
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:47-08:52/5	08:14	08:47 09:19-09:23/4
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 08:49-08:53/4	08:15	08:48 09:19-09:23/4
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 07:51-07:54/3	08:17	08:48 09:20-09:24/4
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:54/1	08:19	08:49 09:20-09:24/4
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:25/5
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:29	08:22	08:49 09:20-09:25/5
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:41-08:45/4	07:31	08:23	08:49 09:20-09:25/5
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43 08:20-08:28/8	07:33	08:24	08:49 09:20-09:25/5
	21:37	20:38	19:28 08:35-08:48/13	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:20-09:26/6
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	25	477	13	131

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: NES_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24 16:55-17:06/11	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:45	07:37	08:26 15:57-16:09/12
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:26	17:21	16:42
2	08:50	08:23 16:55-17:07/12	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 15:58-16:09/11
	16:49	17:37	18:27	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49	08:21 16:55-17:09/14	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29 15:58-16:08/10
	16:50	17:38	18:28	20:20	21:10	21:53	22:04	21:30	20:29	19:21	17:18	16:41
4	08:49 16:16-16:18/2	08:19 16:56-17:11/15	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42 16:30-16:33/3	08:30 16:00-16:08/8
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16 16:39-16:45/6	16:41
5	08:49 16:16-16:19/3	08:18 16:57-17:07/10	07:24	07:14	06:13	05:34	05:37	06:15	07:04	07:51	07:44 16:27-16:36/9	08:31 16:00-16:07/7
	16:53	17:42 17:08-17:13/5	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:17	17:14 16:38-16:44/6	16:40
6	08:49 16:15-16:20/5	08:16 16:58-17:06/8	07:22	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45 16:26-16:37/11	08:33 16:01-16:06/5
	16:54	17:44 17:09-17:15/6	18:34	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12 16:38-16:43/5	16:40
7	08:48 16:15-16:22/7	08:15 17:10-17:15/5	07:19	07:10	06:10	05:33	05:39	06:18	07:07	07:54	07:47 16:26-16:41/15	08:34 16:03-16:06/3
	16:55	17:46	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48 16:15-16:23/8	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 16:25-16:39/14	08:35 16:04-16:06/2
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 16:15-16:25/10	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:58	07:50 16:25-16:38/13	08:36
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:16	19:08	17:08	16:39
10	08:47 16:15-16:26/11	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 16:26-16:36/10	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:06	17:06	16:39
11	08:46 16:14-16:27/13	08:08	07:11	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 16:25-16:34/9	08:38
	17:01	17:53	18:42	20:34	21:22	22:00	21:59	21:16	20:11	19:03	17:05	16:38
12	08:46 16:14-16:29/15	08:06	07:08	06:59	06:01	05:31	05:43	06:26	07:14	08:02	07:56 16:26-16:32/6	08:39
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 16:15-16:31/16	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57 16:27-16:31/4	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:02	16:38
14	08:44 16:15-16:32/17	08:02	07:04	06:55	05:58	05:30	05:46	06:29	07:18	08:06	07:59 16:28-16:29/1	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44 16:15-16:34/19	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43 16:16-16:32/16	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43
	17:08 16:33-16:36/3	18:02	18:51	20:42	21:30	22:03	21:55	21:07	20:00	18:53	16:57	16:38
17	08:42 16:16-16:33/17	07:57	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44
	17:09 16:34-16:37/3	18:04	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:51	16:56	16:39
18	08:41 16:17-16:33/16	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 15:57-16:04/7	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 16:17-16:33/16	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 15:55-16:06/11	08:45
	17:13	18:07	18:56	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39
20	08:39 16:18-16:33/15	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09 15:55-16:07/12	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40
21	08:38 16:18-16:32/14	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:18	08:11 15:54-16:08/14	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37 16:20-16:32/12	07:47	06:46	06:38	05:47	05:30	05:55	06:42	07:30	08:19	08:12 15:54-16:09/15	08:47
	17:18	18:13	19:01	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36 16:21-16:32/11	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14 15:53-16:09/16	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35 16:23-16:30/7	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:16 15:54-16:10/16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 15:54-16:11/17	08:48
	17:23	18:18	19:06	20:57	21:42	22:05	21:44	20:48	19:39	17:34	16:47 16:12-16:15/3	16:42
26	08:32	07:39	06:37	06:30	05:42	05:31	06:01	06:48	07:37	07:26	08:19 15:54-16:10/16	08:49
	17:24	18:20	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46 16:11-16:14/3	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 15:55-16:13/18	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:35	17:30	16:45	16:44
28	08:30 16:56-16:58/2	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22 15:55-16:12/17	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:29	16:44	16:44
29	08:28 16:55-16:59/4		07:30	06:24	05:39	05:33	06:05	06:53	07:41	07:31	08:23 15:55-16:11/16	08:49
	17:30		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:27	16:44	16:45
30	08:27 16:55-17:02/7		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25 15:56-16:11/15	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:26 16:54-17:03/9		07:26		05:37		06:08	06:56		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	278	86	0	0	0	0	0	0	0	0	308	58

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April	May	June
1	08:49		08:24	08:50-08:57/7	07:32		07:23	06:20	05:36
	16:48		17:35	09:06-09:28/22	18:25		20:17	21:06	21:50
2	08:49		08:22	08:48-08:56/8	07:30		07:21	06:18	05:36
	16:49		17:36	09:07-09:27/20	18:26		20:19	21:08	21:51
3	08:49		08:21	08:46-08:55/9	07:28		07:19	06:16	05:35
	16:50		17:38	09:08-09:26/18	18:28		20:20	21:09	21:52
4	08:49		08:19	08:45-08:55/10	07:26		07:16	06:15	05:34
	16:51		17:40	09:10-09:25/15	18:30		20:22	21:11	21:53
5	08:49		08:18	08:43-08:55/12	07:24		07:14	06:13	05:34
	16:53		17:42	09:13-09:22/9	18:32		20:24	21:13	21:54
6	08:49		08:16	08:41-08:56/15	07:21		07:12	06:11	05:33
	16:54		17:44		18:33		20:25	21:14	21:55
7	08:48		08:14	08:39-08:56/17	07:19	07:42-07:43/1	07:10	06:09	05:32
	16:55		17:45		18:35		20:27	21:16	21:56
8	08:48		08:13	08:38-08:56/18	07:17	07:40-07:41/1	07:08	06:08	05:32
	16:56		17:47		18:37		20:28	21:17	21:57
9	08:47	09:17-09:18/1	08:11	08:36-08:56/20	07:15		07:05	06:06	05:31
	16:58		17:49		18:38		20:30	21:19	21:58
10	08:47	09:16-09:18/2	08:09	08:34-08:55/21	07:13		07:03	06:04	05:31
	16:59		17:51		18:40		20:32	21:20	21:59
11	08:46	09:15-09:18/3	08:07	08:37-08:55/18	07:10		07:01	06:03	05:31
	17:00		17:53		18:42		20:33	21:22	21:59
12	08:46	09:14-09:19/5	08:06	08:38-08:54/16	07:08		06:59	06:01	05:30
	17:02		17:54		18:44		20:35	21:23	22:00
13	08:45	09:14-09:19/5	08:04	08:39-08:52/13	07:06		06:57	05:59	05:30
	17:03		17:56		18:45		20:37	21:25	22:01
14	08:44	09:13-09:21/8	08:02	08:42-08:50/8	07:04		06:55	05:58	05:30
	17:05		17:58		18:47		20:38	21:27	22:01
15	08:44	09:12-09:22/10	08:00		07:01		06:52	05:56	05:30
	17:06		18:00		18:49		20:40	21:28	22:02
16	08:43	09:11-09:23/12	07:58	08:22-08:23/1	06:59		06:50	05:55	05:30
	17:08		18:02		18:50		20:42	21:29	22:02
17	08:42	09:10-09:24/14	07:56	08:20-08:22/2	06:57		06:48	05:53	05:30
	17:09		18:03		18:52		20:43	21:31	22:03
18	08:41	09:09-09:25/16	07:54	08:18-08:19/1	06:55		06:46	05:52	05:30
	17:11		18:05		18:54		20:45	21:32	22:03
19	08:40	09:08-09:26/18	07:53		06:53		06:44	05:51	05:30
	17:12		18:07		18:55		20:47	21:34	22:04
20	08:39	09:06-09:26/20	07:51		06:50		06:42	05:49	05:30
	17:14		18:09		18:57		20:48	21:35	22:04
21	08:38	09:05-09:27/22	07:49		06:48		06:40	05:48	05:30
	17:16		18:11		18:59		20:50	21:37	22:04
22	08:37	09:04-09:28/24	07:47		06:46		06:38	05:47	05:30
	17:17		18:12		19:00		20:51	21:38	22:04
23	08:36	09:03-09:28/25	07:45		06:43		06:36	05:46	05:30
	17:19		18:14		19:02		20:53	21:39	22:05
24	08:35	09:02-09:28/26	07:42		06:41		06:34	05:44	05:30
	17:21		18:16		19:04		20:55	21:41	22:05
25	08:33	09:02-09:29/27	07:40		06:39		06:32	05:43	05:31
	17:22		18:18		19:05		20:56	21:42	22:05
26	08:32	09:03-09:29/26	07:38		06:37		06:30	05:42	05:31
	17:24		18:19		19:07		20:58	21:43	22:05
27	08:31	09:03-09:29/26	07:36		06:34		06:28	05:41	05:32
	17:26		18:21		19:09		21:00	21:45	22:05
28	08:30	08:56-08:57/1	07:34		06:32		06:26	05:40	05:32
	17:28	09:03-09:30/27	18:23		19:10		21:01	21:46	22:05
29	08:28	08:54-08:57/3			07:30		06:24	05:39	05:33
	17:29	09:03-09:29/26			20:12		21:03	21:47	22:04
30	08:27	08:53-08:58/5			07:28		06:22	05:38	05:33
	17:31	09:05-09:29/24			20:14		21:05	21:48	22:04
31	08:25	08:51-08:57/6			07:25			05:37	
	17:33	09:05-09:28/23			20:15			21:49	
Potential sun hours	262		279		367		414	482	494
Sum of minutes with flicker	405		280		2		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36	08:04-08:25/21	08:26	08:57-09:00/3
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:11	06:59	07:46		07:38	08:06-08:26/20	08:27	08:59-09:01/2
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:07-08:25/18	08:29	09:00-09:01/1
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:25/16	08:30	
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:25/14	08:31	
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52	08:17-08:18/1	07:45	08:13-08:25/12	08:32	
	22:02	21:25	20:22	19:14		17:12	08:42-08:52/10	16:39	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:25/10	08:34	
	22:01	21:23	20:20	19:12		17:11	08:40-08:55/15	16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:26/9	08:35	
	22:01	21:22	20:18	19:10		17:09	08:39-08:57/18	16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:27/8	08:36	
	22:00	21:20	20:15	19:08		17:07	08:38-08:58/20	16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:28/7	08:37	
	22:00	21:18	20:13	19:05		17:06	08:37-08:59/22	16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:29/6	08:38	
	21:59	21:16	20:11	19:03		17:04	08:36-08:59/23	16:38	
12	05:43	06:26	07:14	08:02		07:55	08:24-08:29/5	08:39	
	21:58	21:14	20:09	19:01		17:03	08:35-09:00/25	16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:29/3	08:40	
	21:57	21:12	20:06	18:59		17:01	08:35-09:01/26	16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:29/1	08:41	
	21:56	21:10	20:04	18:57		17:00	08:35-09:01/26	16:38	
15	05:46	06:30	07:19	08:07		08:01	08:36-09:02/26	08:42	
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09		08:02	08:36-09:02/26	08:43	
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-09:03/27	08:44	
	21:53	21:05	19:57	18:50		16:56		16:38	
18	05:50	06:35	07:24	08:12		08:06	08:36-09:02/26	08:44	
	21:52	21:03	19:55	18:48		16:55		16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-09:02/25	08:45	
	21:51	21:01	19:53	18:46		16:53		16:39	
20	05:52	06:38	07:27	08:16		08:09	08:39-09:03/24	08:46	
	21:50	20:59	19:50	18:44		16:52		16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-09:03/22	08:46	
	21:49	20:57	19:48	18:42		16:51		16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-09:03/20	08:47	
	21:48	20:54	19:46	18:40		16:50		16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-09:02/18	08:47	
	21:46	20:52	19:43	18:38		16:49		16:41	
24	05:58	06:44	07:33	08:23	08:49-08:51/2	08:15	08:46-09:02/16	08:48	
	21:45	20:50	19:41	18:36		16:48		16:41	
25	05:59	06:46	07:35	07:24	07:51-07:53/2	08:17	08:48-09:02/14	08:48	
	21:44	20:48	19:39	17:34		16:47		16:42	
26	06:00	06:48	07:36	07:26	07:53-07:54/1	08:19	08:49-09:01/12	08:49	
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28		08:20	08:51-09:01/10	08:49	
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:40	07:29	08:11-08:20/9	08:22	08:53-09:01/8	08:49	
	21:40	20:42	19:32	17:28		16:44		16:44	
29	06:05	06:52	07:41	07:31	08:09-08:22/13	08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:44		16:45	
30	06:06	06:54	07:43	07:33	08:08-08:23/15	08:24	08:56-09:00/4	08:49	
	21:37	20:38	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35	08:07-08:24/17			08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	60		619		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:31-09:50/19	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26 08:57-08:58/1
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42 09:23-09:30/7
2	08:49 09:32-09:51/19	08:22	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27 09:22-09:32/10
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49 09:31-09:50/19	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40 08:08-08:09/1	08:29 09:21-09:33/12
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49 09:33-09:51/18	08:19	07:26	07:16	06:15	05:34	05:36	06:14	07:02	07:49	07:42 08:09-08:10/1	08:30 09:21-09:35/14
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49 09:34-09:51/17	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31 09:21-09:36/15
	16:53	17:42	18:32	20:24	21:13	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:49 09:34-09:50/16	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:52	07:45	08:32 09:20-09:36/16
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48 09:35-09:51/16	08:14 08:39-08:40/1	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34 09:20-09:37/17
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:36-09:50/14	08:13 08:38-08:39/1	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35 09:21-09:39/18
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:38-09:50/12	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36 09:21-09:39/18
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47 09:39-09:49/10	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:21-09:40/19
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46 09:15-09:16/1	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:21-09:40/19
	17:00 09:41-09:48/7	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:14-09:17/3	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55	08:39 09:21-09:41/20
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 09:14-09:18/4	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:30/4	08:40 09:21-09:41/20
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:13-09:19/6	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:28-08:32/4	08:41 09:22-09:42/20
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44 09:12-09:20/8	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:30-08:33/3	08:42 09:22-09:43/21
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59 08:44-08:50/6	16:38
16	08:43 09:11-09:20/9	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:35-08:36/1	08:02 08:32-08:34/2	08:43 09:23-09:44/21
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57 08:42-08:52/10	16:38 09:17-09:19/2
17	08:42 09:10-09:21/11	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04 08:42-08:54/12	08:44 09:23-09:44/21
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39 09:17-09:20/3
18	08:41 09:09-09:21/12	07:54	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 08:40-08:54/14	08:44 09:23-09:44/21
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39 09:16-09:21/5
19	08:40 09:08-09:22/14	07:52	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:40-08:56/16	08:45 09:24-09:45/21
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39 09:17-09:22/5
20	08:39 09:07-09:22/15	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09 08:40-08:56/16	08:46 09:25-09:46/21
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39 09:18-09:23/5
21	08:38 09:05-09:21/16	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:57/16	08:46 09:24-09:46/22
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40 09:18-09:23/5
22	08:37 09:05-09:21/16	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:58/15	08:47 09:25-09:47/22
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40 09:19-09:24/5
23	08:36 09:06-09:22/16	07:45	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:58/14	08:47 09:26-09:47/21
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41 09:19-09:24/5
24	08:35 09:06-09:20/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:15 08:46-08:58/12	08:48 09:26-09:47/21
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41 09:19-09:24/5
25	08:33 09:08-09:20/12	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:59/11	08:48 09:27-09:48/21
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42 09:20-09:25/5
26	08:32 08:59-09:01/2	07:38 08:02-08:03/1	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18 08:49-08:58/9	08:49 09:27-09:48/21
	17:24 09:09-09:19/10	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43 09:20-09:25/5
27	08:31 08:57-09:00/3	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 08:51-08:59/8	08:49 09:27-09:48/21
	17:26 09:11-09:17/6	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43 09:21-09:24/3
28	08:30 08:56-09:00/4	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22 08:53-08:59/6	08:49 09:28-09:49/21
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44 09:23-09:24/1
29	08:28 08:54-08:58/4		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 08:54-08:59/5	08:49 09:28-09:49/21
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 08:56-08:59/3	08:49 09:29-09:49/20
	17:31		20:14	21:04	21:48	22:04	21:37	20:37	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:55		07:35		08:49 09:30-09:50/20
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	353	3	0	0	0	0	0	0	0	1	188	637

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:48/28	08:24	07:32 07:55-07:59/4	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:49/29	08:22	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:49/29	08:21 08:46-08:47/1	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49 09:19-09:50/31	08:19 08:45-08:48/3	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49 09:19-09:50/31	08:18 08:43-08:47/4	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:18-09:50/32	08:16 08:41-08:46/5	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:51/33	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:51/34	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:17-09:52/35	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:17-09:51/34	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:18-09:51/33	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:20-09:51/31	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 09:21-09:28/7	08:04	07:06	06:57	05:59	05:30
	17:03 09:30-09:52/22	17:56	18:45	20:37	21:25	22:01
14	08:44 09:23-09:27/4	08:02	07:04	06:55	05:58	05:30
	17:05 09:31-09:52/21	17:58	18:47	20:38	21:27	22:01
15	08:44 09:31-09:51/20	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:32-09:51/19	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:54	05:30
	17:09 09:34-09:50/16	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:12/3	07:54	06:55	06:46	05:52	05:30
	17:11 09:35-09:49/14	18:05	18:54	20:45	21:32	22:03
19	08:40 09:08-09:13/5	07:53	06:53	06:44	05:51	05:30
	17:12 09:37-09:48/11	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:13/6	07:51	06:50	06:42	05:49	05:30
	17:14 09:40-09:46/6	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:12/7	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:04-09:12/8	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:12/9	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:02-09:12/10	07:43	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:02-09:10/8	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 09:06-09:08/2	07:38 08:02-08:04/2	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:03/3	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:01/4	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	580	27	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	09:00-09:33/33
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	09:00-09:34/34
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40		08:29	09:00-09:35/35
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:14/5	08:30	09:02-09:36/34
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:16/5	08:31	09:03-09:36/33
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52		07:45	08:13-08:17/4	08:33	09:04-09:36/32
	22:02	21:25	20:22	19:14		17:12		16:40	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:18/3	08:34	09:06-09:37/31
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:18/1	08:35	09:07-09:38/31
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	09:08-09:38/30
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52		08:37	09:09-09:38/29
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54		08:38	09:10-09:39/29
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:56		08:39	09:11-09:39/28
	21:58	21:14	20:09	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04	08:29-08:33/4	07:57		08:40	09:12-09:39/27
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06	08:31-08:35/4	07:59		08:41	09:13-09:40/27
	21:56	21:11	20:04	18:57		17:00		16:38	
15	05:47	06:30	07:19	08:07	08:33-08:36/3	08:01		08:42	09:14-09:40/26
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09	08:35-08:36/1	08:02	08:38-08:42/4	08:43	09:15-09:41/26
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-08:44/8	08:44	09:16-09:42/26
	21:53	21:05	19:57	18:50		16:56		16:39	
18	05:50	06:35	07:24	08:12		08:06	08:36-08:46/10	08:44	09:16-09:41/25
	21:52	21:03	19:55	18:48		16:55		16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-08:46/9	08:45	09:17-09:42/25
	21:51	21:01	19:53	18:46		16:53		16:39	
20	05:53	06:38	07:27	08:16		08:09	08:39-08:47/8	08:46	09:18-09:43/25
	21:50	20:59	19:50	18:44		16:52		16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-08:48/7	08:46	09:18-09:43/25
	21:49	20:57	19:48	18:42		16:51		16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-08:49/6	08:47	09:19-09:44/25
	21:48	20:55	19:46	18:40		16:50	09:16-09:22/6	16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-08:49/5	08:47	09:19-09:44/25
	21:46	20:52	19:44	18:38		16:49	09:13-09:24/11	16:41	
24	05:58	06:45	07:33	08:23		08:15	08:46-08:49/3	08:48	09:19-09:44/25
	21:45	20:50	19:41	18:36		16:48	09:12-09:26/14	16:41	
25	05:59	06:46	07:35	07:24		08:17	08:48-08:50/2	08:48	09:20-09:45/25
	21:44	20:48	19:39	17:34		16:47	09:12-09:28/16	16:42	
26	06:01	06:48	07:36	07:26		08:19	09:11-09:29/18	08:49	09:20-09:46/26
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28		08:20	09:11-09:30/19	08:49	09:20-09:46/26
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:40	07:29		08:22	09:04-09:06/2	08:49	09:20-09:46/26
	21:40	20:42	19:32	17:28		16:44	09:11-09:32/21	16:44	
29	06:05	06:52	07:41	07:31		08:23	09:01-09:08/7	08:49	09:20-09:47/27
	21:38	20:40	19:30	17:26		16:44	09:10-09:32/22	16:45	
30	06:06	06:54	07:43	07:33		08:24	09:01-09:33/32	08:49	09:20-09:47/27
	21:37	20:38	19:28	17:25		16:43		16:46	
31	06:08	06:56		07:35				08:49	09:20-09:48/28
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	12		248		871	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT01 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20 06:44-06:46/2	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:42-06:44/2	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:40-06:42/2	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22 06:50-06:52/2	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24 06:51-06:53/2	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25 06:53-06:54/1	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36 07:03-07:05/2	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38 07:05-07:07/2	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:40 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38 07:01-07:03/2	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35 06:59-07:01/2	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33 06:57-06:59/2	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	6	6	0	0	10	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April		May		June	
1	08:49	08:24	07:32	07:23		06:20		05:36	06:04-06:06/2
	16:48	17:34	18:24	20:17		21:06		21:50	
2	08:49	08:22	07:30	07:21		06:18		05:35	06:04-06:06/2
	16:49	17:36	18:26	20:18		21:08		21:51	
3	08:49	08:21	07:28	07:19		06:16		05:35	06:03-06:05/2
	16:50	17:38	18:28	20:20		21:09		21:52	
4	08:49	08:19	07:26	07:16		06:14		05:34	
	16:51	17:40	18:30	20:22		21:11		21:53	
5	08:49	08:18	07:23	07:14		06:13		05:33	
	16:52	17:42	18:31	20:23		21:13		21:54	
6	08:49	08:16	07:21	07:12	07:34-07:36/2	06:11		05:33	
	16:53	17:43	18:33	20:25		21:14		21:55	
7	08:48	08:14	07:19	07:10	07:32-07:36/4	06:09		05:32	
	16:55	17:45	18:35	20:27		21:16		21:56	
8	08:48	08:13	07:17	07:07	07:30-07:35/5	06:07		05:32	
	16:56	17:47	18:37	20:28		21:17		21:57	
9	08:47	08:11	07:15	07:05	07:28-07:34/6	06:06		05:31	
	16:57	17:49	18:38	20:30		21:19		21:58	
10	08:47	08:09	07:12	07:03		06:04	06:29-06:30/1	05:31	
	16:59	17:51	18:40	20:32		21:20		21:59	
11	08:46	08:07	07:10	07:01		06:02		05:30	
	17:00	17:52	18:42	20:33		21:22		21:59	
12	08:46	08:06	07:08	06:59		06:01		05:30	
	17:01	17:54	18:43	20:35		21:23		22:00	
13	08:45	08:04	07:06	06:57		05:59		05:30	
	17:03	17:56	18:45	20:37		21:25		22:01	
14	08:44	08:02	07:04	06:54		05:58		05:30	
	17:04	17:58	18:47	20:38		21:26		22:01	
15	08:44	08:00	07:01	06:52	07:15-07:17/2	05:56		05:29	
	17:06	18:00	18:49	20:40		21:28		22:02	
16	08:43	07:58	06:59	06:50	07:13-07:17/4	05:55		05:29	
	17:07	18:01	18:50	20:42		21:29		22:02	
17	08:42	07:56	06:57	06:48	07:11-07:16/5	05:53		05:29	
	17:09	18:03	18:52	20:43		21:31		22:03	
18	08:41	07:54	06:55	06:46	07:09-07:15/6	05:52		05:29	
	17:11	18:05	18:54	20:45		21:32		22:03	
19	08:40	07:52	06:52	06:44	07:10-07:12/2	05:50		05:29	
	17:12	18:07	18:55	20:46		21:34		22:04	
20	08:39	07:50	06:50	06:42		05:49		05:29	
	17:14	18:09	18:57	20:48		21:35		22:04	
21	08:38	07:48	06:48	06:40		05:48		05:29	
	17:15	18:10	18:59	20:50		21:37		22:04	
22	08:37	07:46	06:46	06:38		05:47		05:30	
	17:17	18:12	19:00	20:51		21:38		22:04	
23	08:36	07:44	06:43	06:36		05:45		05:30	
	17:19	18:14	19:02	20:53		21:39		22:05	
24	08:35	07:42	06:41	06:33		05:44		05:30	
	17:20	18:16	19:04	20:55		21:41		22:05	
25	08:33	07:40	06:39	06:31		05:43		05:30	
	17:22	18:17	19:05	20:56		21:42		22:05	
26	08:32	07:38	06:37	06:29		05:42		05:31	
	17:24	18:19	19:07	20:58		21:43		22:05	
27	08:31	07:36	06:34	06:28		05:41		05:31	
	17:26	18:21	19:09	21:00		21:45		22:05	
28	08:30	07:34	06:32	06:26		05:40		05:32	
	17:27	18:23	19:10	21:01		21:46		22:05	
29	08:28		07:30	06:24		05:39	06:07-06:08/1	05:32	
	17:29		20:12	21:03		21:47		22:04	
30	08:27		07:28	06:22		05:38	06:06-06:07/1	05:33	
	17:31		20:13	21:04		21:48		22:04	
31	08:25		07:25			05:37	06:05-06:07/2		
	17:33		20:15			21:49			
Potential sun hours	262	279	367	415		482		495	
Sum of minutes with flicker	0	0	0	36		5		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:33	06:09	06:57	07:44	07:36	08:26
	22:04	21:33	20:33	19:25	17:21	16:42
2	05:34	06:10	06:58	07:46	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12 06:40-06:41/1	07:00 07:26-07:32/6	07:47	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02 07:27-07:32/5	07:49	07:42	08:30
	22:03	21:29	20:26	19:18	17:15	16:40
5	05:36	06:15	07:03 07:29-07:33/4	07:51	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05 07:30-07:32/2	07:52	07:45	08:32
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54	07:47	08:34
	22:01	21:23	20:20	19:12	17:10	16:39
8	05:39	06:19	07:08	07:56	07:49	08:35
	22:01	21:22	20:17	19:10	17:09	16:38
9	05:40	06:21	07:09	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:13/2	06:22	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:14/2	06:24	07:13	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:15/2	06:25	07:14	08:02	07:55	08:39
	21:58	21:14	20:08	19:01	17:03	16:38
13	05:44 06:14-06:15/1	06:27	07:16	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:15-06:16/1	06:29	07:17	08:06	07:59	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07	08:01	08:42
	21:55	21:08	20:02	18:54	16:58	16:38
16	05:47	06:32	07:20	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:48	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12	08:06	08:44
	21:52	21:03	19:55	18:48	16:54	16:38
19	05:51	06:36	07:25	08:14	08:07	08:45
	21:51	21:01	19:52	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:53	06:40	07:28	08:17	08:11	08:46
	21:49	20:56	19:48	18:42	16:51	16:39
22	05:55	06:41	07:30	08:19	08:12	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43	07:31	08:21	08:14	08:47
	21:46	20:52	19:43	18:38	16:49	16:40
24	05:57	06:44 07:14-07:17/3	07:33	08:22	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 07:12-07:18/6	07:35	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:47 07:14-07:19/5	07:36	07:26	08:18	08:49
	21:42	20:46	19:36	17:32	16:46	16:42
27	06:02	06:49 07:15-07:19/4	07:38	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51 07:17-07:19/2	07:39	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:04	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:24	08:49
	21:37	20:37	19:27	17:24	16:42	16:46
31	06:07	06:55		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	8	21	17	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14 07:37-07:38/1	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06 07:32-07:33/1	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57 07:19-07:21/2	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:22/5	05:58	05:30	05:45	06:29 06:59-07:05/6	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52 07:15-07:22/7	05:56	05:29	05:46	06:30 06:57-07:06/9	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:21/8	05:55	05:29	05:47	06:32 06:59-07:07/8	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:12-07:20/8	05:53	05:29	05:48	06:33 07:00-07:07/7	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46 07:13-07:18/5	05:52	05:29	05:50	06:35 07:02-07:07/5	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51 06:20-06:22/2	06:36 07:03-07:06/3	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52 06:21-06:23/2	06:38 07:05-07:06/1	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48 06:14-06:15/1	05:29	05:53 06:23-06:25/2	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:47 06:13-06:15/2	05:30	05:55 06:24-06:26/2	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36 06:59-07:01/2	05:45 06:12-06:14/2	05:30	05:56 06:25-06:26/1	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:34 06:57-07:00/3	05:44 06:11-06:13/2	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32 06:55-07:00/5	05:43	05:30	05:59	06:46 07:16-07:21/5	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30 06:53-07:00/7	05:42	05:31	06:00	06:47 07:14-07:23/9	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28 06:51-06:59/8	05:41	05:31	06:02	06:49 07:15-07:23/8	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26 06:49-06:58/9	05:40	05:32	06:03	06:51 07:17-07:23/6	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:51-06:57/6	05:39	05:32	06:04	06:52 07:18-07:23/5	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54 07:20-07:22/2	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	76	7	0	9	74	1	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 08:58-09:13/15	07:32	07:23 07:45-07:53/8	06:20 06:44-06:47/3	05:36
	16:48	17:35	18:25	20:17	21:06 06:53-07:23/30	21:50
2	08:49	08:22 08:59-09:12/13	07:30	07:21 07:43-07:55/12	06:18 06:42-06:46/4	05:35
	16:49	17:36	18:26	20:19	21:08 06:53-07:22/29	21:51
3	08:49	08:21 09:01-09:10/9	07:28	07:19 07:41-07:55/14	06:16 06:41-06:46/5	05:35
	16:50	17:38	18:28	20:20	21:09 06:53-07:22/29	21:52
4	08:49	08:19 09:04-09:08/4	07:26	07:16 07:39-07:56/17	06:14 06:39-06:44/5	05:34
	16:51	17:40 08:45-08:46/1	18:30	20:22	21:11 06:53-07:22/29	21:53
5	08:49	08:18 08:43-08:46/3	07:23	07:14 07:37-07:56/19	06:13 06:53-07:21/28	05:33
	16:52	17:42	18:32	20:23	21:13	21:54
6	08:49	08:16 08:41-08:46/5	07:21	07:12 07:35-07:55/20	06:11 06:53-07:20/27	05:33
	16:54	17:43	18:33	20:25	21:14	21:55
7	08:48 09:18-09:19/1	08:14 08:39-08:47/8	07:19	07:10 07:35-07:55/20	06:09 06:54-07:20/26	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13 08:38-08:48/10	07:17	07:08 07:35-07:54/19	06:07 06:32-06:33/1	05:32
	16:56	17:47	18:37	20:28	21:17 06:55-07:19/24	21:57
9	08:47 09:17-09:21/4	08:11 08:36-08:48/12	07:15 07:38-07:39/1	07:05 07:28-07:29/1	06:06 06:31-06:34/3	05:31
	16:57	17:49	18:38	20:30 07:35-07:53/18	21:19 06:56-07:18/22	21:58
10	08:47 09:16-09:21/5	08:09 08:34-08:48/14	07:13 07:35-07:39/4	07:03 07:36-07:52/16	06:04 06:29-06:34/5	05:31
	16:59	17:51	18:40	20:32	21:20 06:57-07:17/20	21:59
11	08:46 09:15-09:22/7	08:07 08:32-08:47/15	07:10 07:33-07:39/6	07:01 07:37-07:49/12	06:02 06:28-06:36/8	05:30
	17:00	17:53	18:42	20:33	21:22 06:58-07:16/18	21:59
12	08:46 09:15-09:23/8	08:06 08:33-08:46/13	07:08 07:31-07:38/7	06:59 07:39-07:46/7	06:01 06:26-06:36/10	05:30
	17:02	17:54	18:44	20:35	21:23 06:59-07:14/15	22:00
13	08:45 09:14-09:24/10	08:04 08:34-08:45/11	07:06 07:28-07:37/9	06:57	05:59 06:25-06:37/12	05:30
	17:03	17:56	18:45	20:37	21:25 07:02-07:12/10	22:01
14	08:44 09:13-09:24/11	08:02 08:35-08:43/8	07:04 07:26-07:34/8	06:54	05:58 06:23-06:36/13	05:30
	17:04	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:01 07:24-07:31/7	06:52	05:56 06:22-06:37/15	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:25/14	07:58	06:59 07:22-07:32/10	06:50	05:55 06:21-06:37/16	05:29
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56	06:57 07:19-07:31/12	06:48	05:53 06:19-06:36/17	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:25/16	07:54	06:55 07:17-07:31/14	06:46	05:52 06:19-06:36/17	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:25/15	07:52	06:52 07:15-07:31/16	06:44	05:51 06:19-06:36/17	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:09/2	07:50	06:50 07:16-07:30/14	06:42 07:08-07:13/5	05:49 06:20-06:36/16	05:29
	17:14 09:11-09:25/14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:09/4	07:49	06:48 07:16-07:27/11	06:40 07:04-07:17/13	05:48 06:19-06:35/16	05:30
	17:16 09:11-09:24/13	18:10	18:59	20:50	21:37	22:04
22	08:37 09:04-09:11/7	07:46	06:46 07:18-07:25/7	06:38 07:01-07:19/18	05:47 06:20-06:35/15	05:30
	17:17 09:12-09:24/12	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:12/9	07:44	06:43 07:06-07:08/2	06:36 06:59-07:20/21	05:45 06:21-06:34/13	05:30
	17:19 09:14-09:23/9	18:14	19:02	20:53	21:39	22:05
24	08:35 09:01-09:12/11	07:42	06:41 07:04-07:07/3	06:34 06:58-07:21/23	05:44 06:22-06:33/11	05:30
	17:21 09:15-09:21/6	18:16	19:04	20:55	21:41	22:05
25	08:33 09:00-09:13/13	07:40	06:39 07:01-07:05/4	06:32 06:56-07:22/26	05:43 06:23-06:32/9	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 08:59-09:14/15	07:38	06:37	06:30 06:55-07:22/27	05:42 06:25-06:30/5	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 08:57-09:14/17	07:36	06:34	06:28 06:54-07:22/28	05:41	05:31
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 08:56-09:14/18	07:34	06:32	06:26 06:54-07:22/28	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28 08:56-09:14/18		07:30	06:24 06:54-07:23/29	05:39	05:32
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:57-09:14/17		07:28 07:50-07:51/1	06:22 06:46-06:47/1	05:38	05:33
	17:31		20:14	21:04 06:54-07:23/29	21:48	22:04
31	08:25 08:57-09:13/16		07:25 07:48-07:52/4		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	322	141	140	431	543	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 06:37-06:46/9	06:57 07:37-07:49/12	07:44 08:09-08:17/8	07:36 08:04-08:17/13	08:26 08:57-09:04/7
	22:04	21:33 07:09-07:25/16	20:33	19:25	17:21	16:42
2	05:34	06:10 06:39-06:46/7	06:59 07:34-07:50/16	07:46 08:11-08:17/6	07:38 08:06-08:17/11	08:27 08:59-09:05/6
	22:04	21:32 07:07-07:26/19	20:31	19:23	17:19	16:41
3	05:35	06:12 06:40-06:44/4	07:00 07:26-07:27/1	07:48 08:12-08:17/5	07:40 08:07-08:16/9	08:29 09:00-09:04/4
	22:03	21:30 07:07-07:28/21	20:29 07:33-07:51/18	19:21	17:17	16:41
4	05:36	06:13 06:41-06:43/2	07:02 07:32-07:51/19	07:49 08:14-08:16/2	07:42 08:09-08:16/7	08:30 09:02-09:05/3
	22:03	21:29 07:05-07:28/23	20:26	19:19	17:16	16:40
5	05:37	06:15 07:05-07:30/25	07:03 07:32-07:52/20	07:51	07:43 08:11-08:16/5	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16 07:04-07:30/26	07:05 07:31-07:51/20	07:52	07:45 08:13-08:15/2	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18 07:04-07:31/27	07:06 07:32-07:51/19	07:54	07:47 08:34-08:38/4	08:34
	22:01	21:23	20:20	19:12	17:10 08:15-08:16/1	16:39
8	05:39	06:19 07:03-07:31/28	07:08 07:33-07:50/17	07:56	07:49 08:31-08:41/10	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21 06:49-06:54/5	07:10 07:35-07:50/15	07:57	07:50 08:30-08:43/13	08:36
	22:00	21:20 07:02-07:31/29	20:15	19:07	17:07	16:38
10	05:41	06:23 06:50-06:55/5	07:11 07:36-07:48/12	07:59	07:52 08:29-08:44/15	08:37
	22:00	21:18 07:02-07:31/29	20:13	19:05	17:06	16:38
11	05:42	06:24 06:51-06:55/4	07:13 07:38-07:47/9	08:01	07:54 08:29-08:45/16	08:38
	21:59	21:16 07:01-07:31/30	20:11	19:03	17:04	16:38
12	05:43	06:26 06:53-06:55/2	07:14 07:39-07:44/5	08:02	07:55 08:28-08:45/17	08:39
	21:58	21:14 07:02-07:31/29	20:08	19:01	17:03	16:38
13	05:44	06:27 06:54-06:55/1	07:16 07:41-07:42/1	08:04	07:57 08:28-08:46/18	08:40
	21:57	21:12 07:01-07:31/30	20:06	18:59	17:01	16:38
14	05:45	06:29 07:02-07:31/29	07:17	08:06	07:59 08:28-08:46/18	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46	06:30 07:01-07:30/29	07:19	08:07	08:01 08:30-08:46/16	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47	06:32 07:02-07:30/28	07:20	08:09	08:02 08:32-08:47/15	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:02-07:29/27	07:22	08:11	08:04 08:34-08:47/13	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:34-06:41/7	06:35 07:03-07:28/25	07:24 07:49-07:53/4	08:12	08:06 08:35-08:46/11	08:44
	21:52	21:03	19:55	18:48	16:54 08:49-08:55/6	16:39
19	05:51 06:32-06:42/10	06:37 07:04-07:26/22	07:25 07:50-07:54/4	08:14	08:07 08:37-08:46/9	08:45
	21:51	21:01	19:53	18:46	16:53 08:48-08:57/9	16:39
20	05:52 06:32-06:44/12	06:38 07:05-07:26/21	07:27 07:52-07:55/3	08:16	08:09 08:39-08:46/7	08:46
	21:50	20:59	19:50	18:44	16:52 08:47-08:59/12	16:39
21	05:54 06:31-06:45/14	06:40 07:06-07:23/17	07:28 08:05-08:10/5	08:17	08:11 08:41-08:45/4	08:46
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51 08:47-09:00/13	16:40
22	05:55 06:30-06:45/15	06:41 07:09-07:21/12	07:30 08:02-08:12/10	08:19	08:12 08:43-08:45/2	08:47
	21:48	20:54	19:46	18:40	16:50 08:47-09:01/14	16:40
23	05:56 06:30-06:46/16	06:43	07:32 08:00-08:13/13	08:21	08:14 08:46-09:01/15	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:46/17	06:44	07:33 07:59-08:14/15	08:23	08:15 08:46-09:02/16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:29-06:47/18	06:46	07:35 07:59-08:14/15	07:24	08:17 08:48-09:03/15	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:47/18	06:48	07:36 08:01-08:14/13	07:26	08:19 08:49-09:03/14	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:47/17	06:49	07:38 08:03-08:14/11	07:28 08:07-08:10/3	08:20 08:51-09:04/13	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:48/16	06:51	07:39 08:04-08:12/8	07:29 08:04-08:13/9	08:22 08:53-09:04/11	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:47/14	06:52	07:41 08:06-08:13/7	07:31 08:03-08:15/12	08:23 08:54-09:04/10	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:47/13	06:54	07:43 08:07-08:15/8	07:33 08:02-08:16/14	08:24 08:56-09:04/8	08:49
	21:37 07:14-07:20/6	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:47/11	06:55 07:39-07:47/8		07:35 08:02-08:17/15		08:49
	21:35 07:11-07:23/12	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	216	589	301	74	392	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:26-09:43/17	08:24	07:32	07:23 07:46-07:50/4	06:20 06:44-07:03/19	05:36
	16:48	17:35	18:25	20:17 08:19-09:15/56	21:06	21:50
2	08:49 09:26-09:43/17	08:22	07:30	07:21 07:43-07:45/2	06:18 06:42-07:04/22	05:36
	16:49	17:36	18:26	20:19 08:19-09:14/55	21:08	21:51
3	08:49 09:27-09:44/17	08:21	07:28 07:52-08:03/11	07:19 08:19-09:14/55	06:16 06:41-07:05/24	05:35
	16:50 09:20-09:21/1	17:38	18:28	20:20	21:09	21:52
4	08:49 09:27-09:43/16	08:19	07:26 07:50-08:06/16	07:16 08:19-09:14/55	06:15 06:39-07:05/26	05:34
	16:51 09:19-09:21/2	17:40	18:30	20:22	21:11	21:53
5	08:49 09:28-09:44/16	08:18	07:23 07:47-08:06/19	07:14 08:19-09:13/54	06:13 06:37-07:05/28	05:33
	16:52 09:19-09:22/3	17:42	18:32	20:23	21:13	21:54
6	08:49 09:29-09:43/14	08:16	07:21 07:45-08:08/23	07:12 08:18-09:12/54	06:11 06:36-07:05/29	05:33
	16:54 09:18-09:22/4	17:44	18:33	20:25	21:14	21:55
7	08:48 09:30-09:43/13	08:14	07:19 07:44-08:09/25	07:10 08:18-09:11/53	06:09 06:34-07:06/32	05:32
	16:55 09:18-09:22/4	17:45	18:35	20:27	21:16	21:56
8	08:48 09:31-09:43/12	08:13	07:17 07:43-08:10/27	07:08 08:19-09:10/51	06:08 06:34-07:05/31	05:32
	16:56 09:17-09:22/5	17:47	18:37 07:40-07:42/2	20:28	21:17	21:57
9	08:47 09:32-09:43/11	08:11	07:15 07:38-08:09/31	07:05 08:19-09:09/50	06:06 06:35-07:06/31	05:31
	16:57 09:17-09:23/6	17:49	18:38	20:30	21:19	21:58
10	08:47 09:33-09:42/9	08:09	07:13 07:35-08:10/35	07:03 08:20-09:08/48	06:04 06:36-07:05/29	05:31
	16:59 09:16-09:23/7	17:51	18:40	20:32	21:20	21:59
11	08:46 09:35-09:40/5	08:07	07:10 07:33-08:10/37	07:01 08:19-09:06/47	06:03 06:38-07:05/27	05:31
	17:00 09:15-09:23/8	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08 07:41-08:10/29	06:59 08:20-09:05/45	06:01 06:39-07:05/26	05:30
	17:02	17:54	18:44 07:31-07:39/8	20:35	21:23	22:00
13	08:45 09:15-09:23/8	08:04	07:06 07:40-08:09/29	06:57 08:21-09:03/42	05:59 06:40-07:05/25	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:16-09:22/6	08:02 08:26-08:30/4	07:04 07:40-08:08/28	06:54 08:22-09:02/40	05:58 06:39-07:03/24	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00 08:24-08:32/8	07:01 07:41-08:08/27	06:52 08:23-09:00/37	05:56 06:40-07:03/23	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:33/11	06:59 07:41-08:07/26	06:50 08:25-08:58/33	05:55 06:41-07:03/22	05:29
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:34/14	06:57 07:39-08:05/26	06:48 08:26-08:55/29	05:53 06:41-07:01/20	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:34/16	06:55 07:36-08:08/32	06:46 08:28-08:53/25	05:52 06:43-07:00/17	05:29
	17:11	18:05	18:54 07:17-07:19/2	20:45	21:32	22:03
19	08:40	07:52 08:16-08:35/19	06:52 07:34-08:10/36	06:44 08:31-08:49/18	05:51 06:44-07:00/16	05:29
	17:12	18:07	18:55 07:15-07:19/4	20:47	21:34	22:04
20	08:39	07:51 08:14-08:35/21	06:50 07:32-08:12/40	06:42 08:37-08:43/6	05:49 06:46-06:58/12	05:30
	17:14	18:09	18:57 07:13-07:18/5	20:48	21:35	22:04
21	08:38	07:49 08:12-08:35/23	06:48 07:30-08:12/42	06:40 07:03-07:05/2	05:48 06:47-06:56/9	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47 08:10-08:35/25	06:46 07:28-08:13/45	06:38 07:01-07:05/4	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:44 08:10-08:34/24	06:43 07:27-08:14/47	06:36 06:59-07:05/6	05:45	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:42 08:12-08:33/21	06:41 07:25-08:14/49	06:34 06:57-07:05/8	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:16-08:32/16	06:39 07:24-08:15/51	06:32 06:55-07:04/9	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:17-08:31/14	06:37 07:23-08:15/52	06:30 06:53-07:03/10	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:20-08:28/8	06:34 07:23-08:16/53	06:28 06:52-07:02/10	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32 07:21-08:15/54	06:26 06:49-07:00/11	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30 07:52-07:53/1	06:24 06:48-07:01/13	05:39	05:33
	17:29		20:12 08:21-09:15/54	21:03	21:47	22:04
30	08:27		07:28 07:50-07:52/2	06:22 06:46-07:02/16	05:38	05:33
	17:31		20:14 08:20-09:16/56	21:05	21:48	22:04
31	08:25		07:25 07:48-07:52/4		05:37	
	17:33		20:15 08:20-09:16/56		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	209	224	1084	948	492	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 06:49-07:15/26	06:57 08:19-09:06/47	07:44 08:20-08:49/29	07:36	08:26 09:17-09:22/5
	22:04	21:33	20:33	19:25 08:11-08:17/6	17:21	16:42 08:57-09:05/8
2	05:34	06:10 06:48-07:16/28	06:59 08:18-09:06/48	07:46 08:20-08:49/29	07:38	08:27 09:17-09:25/8
	22:04	21:32	20:31	19:23 08:11-08:19/8	17:19	16:41 08:59-09:06/7
3	05:35	06:12 06:46-07:16/30	07:00 08:17-09:07/50	07:48 08:12-08:48/36	07:40	08:29 09:16-09:26/10
	22:03	21:30	20:29	19:21	17:17	16:41 09:00-09:06/6
4	05:36	06:13 06:45-07:15/30	07:02 08:16-09:07/51	07:49 08:14-08:47/33	07:42	08:30 09:16-09:28/12
	22:03	21:29	20:26	19:19	17:16	16:40 09:02-09:07/5
5	05:37	06:15 06:45-07:16/31	07:03 08:15-09:08/53	07:51 08:16-08:47/31	07:43	08:31 09:15-09:28/13
	22:03	21:27	20:24	19:16	17:14	16:40 09:03-09:07/4
6	05:37	06:16 06:44-07:15/31	07:05 08:14-09:08/54	07:52 08:19-08:45/26	07:45	08:33 09:15-09:29/14
	22:02	21:25	20:22	19:14 08:17-08:18/1	17:12	16:39 09:04-09:08/4
7	05:38	06:18 06:46-07:16/30	07:06 08:14-09:08/54	07:54 08:20-08:44/24	07:47	08:34 09:16-09:31/15
	22:01	21:23	20:20	19:12	17:11	16:39 09:06-09:09/3
8	05:39	06:19 06:47-07:15/28	07:08 08:13-09:08/55	07:56 08:22-08:43/21	07:49	08:35 09:15-09:31/16
	22:01	21:22	20:18	19:10	17:09	16:39 09:07-09:09/2
9	05:40	06:21 06:49-07:15/26	07:10 08:13-09:08/55	07:57 08:23-08:41/18	07:50	08:36 09:15-09:32/17
	22:00	21:20	20:15	19:07	17:07	16:38 09:08-09:09/1
10	05:41	06:23 06:50-07:13/23	07:11 07:36-07:37/1	07:59 08:25-08:38/13	07:52	08:37 09:15-09:32/17
	22:00	21:18	20:13 08:12-09:08/56	19:05	17:06	16:38
11	05:42	06:24 06:51-07:12/21	07:13 07:38-07:42/4	08:01 08:29-08:34/5	07:54	08:38 09:16-09:33/17
	21:59	21:16	20:11 08:12-09:08/56	19:03	17:04	16:38
12	05:43	06:26 06:53-07:12/19	07:14 07:39-07:43/4	08:02	07:55	08:39 09:16-09:33/17
	21:58	21:14	20:09 08:11-09:07/56	19:01	17:03	16:38
13	05:44	06:27 06:54-07:10/16	07:16 07:41-07:44/3	08:04	07:57	08:40 09:16-09:34/18
	21:57	21:12	20:06 08:12-09:07/55	18:59	17:01	16:38
14	05:45	06:29 06:56-07:08/12	07:17 07:42-07:43/1	08:06 08:55-08:57/2	07:59	08:41 09:17-09:34/17
	21:56	21:10	20:04 08:11-09:06/55	18:57	17:00	16:38
15	05:46	06:30 06:57-07:08/11	07:19 08:11-09:06/55	08:07 08:51-09:02/11	08:01	08:42 09:17-09:35/18
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:48	06:32 06:59-07:10/11	07:21 08:11-09:04/53	08:09 08:48-09:03/15	08:02	08:43 09:18-09:36/18
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:00-07:10/10	07:22 08:12-09:04/52	08:11 08:45-09:04/19	08:04	08:44 09:18-09:36/18
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35 07:02-07:11/9	07:24 08:11-09:02/51	08:12 08:43-09:05/22	08:06	08:44 09:18-09:36/18
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37 07:03-07:10/7	07:25 08:12-09:02/50	08:14 08:41-09:06/25	08:07	08:45 09:19-09:37/18
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:11/6	07:27 08:13-09:01/48	08:16 08:42-09:06/24	08:09	08:46 09:20-09:38/18
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:10/4	07:28 08:14-08:59/45	08:17 08:43-09:05/22	08:11	08:46 09:20-09:38/18
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 06:59-07:05/6	06:41 07:08-07:09/1	07:30 08:15-08:58/43	08:19 08:45-09:05/20	08:12	08:47 09:21-09:39/18
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56 06:56-07:07/11	06:43 08:39-08:48/9	07:32 08:16-08:56/40	08:21 08:47-09:05/18	08:14	08:47 09:21-09:39/18
	21:46	20:52	19:43 07:56-08:01/5	18:38	16:49	16:41
24	05:58 06:54-07:08/14	06:44 08:35-08:54/19	07:33 08:17-08:54/37	08:23 08:49-09:05/16	08:15	08:48 09:21-09:39/18
	21:45	20:50	19:41 07:58-08:02/4	18:36	16:48	16:41
25	05:59 06:54-07:10/16	06:46 08:31-08:56/25	07:35 08:18-08:51/33	07:24 07:51-08:04/13	08:17	08:48 09:22-09:40/18
	21:44	20:48	19:39 07:59-08:02/3	17:34	16:47	16:42
26	06:00 06:53-07:11/18	06:48 08:29-08:59/30	07:36 08:21-08:49/28	07:26 07:52-08:02/10	08:19	08:49 09:22-09:40/18
	21:42	20:46	19:37 08:01-08:02/1	17:32	16:46	16:43
27	06:02 06:52-07:12/20	06:49 08:26-09:00/34	07:38 08:23-08:48/25	07:28 07:54-08:01/7	08:20	08:49 09:23-09:41/18
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:51-07:14/23	06:51 08:25-09:02/37	07:40 08:22-08:48/26	07:29 07:56-07:59/3	08:22 08:56-09:02/6	08:49 09:23-09:41/18
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:50-07:14/24	06:52 08:23-09:03/40	07:41 08:21-08:49/28	07:31	08:23 08:55-09:03/8	08:49 09:23-09:41/18
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:50-07:14/24	06:54 08:22-09:04/42	07:43 08:20-08:48/28	07:33	08:24 08:56-09:04/8	08:49 09:24-09:42/18
	21:37	20:37	19:28	17:25	16:43	16:46
31	06:07 06:50-07:15/25	06:55 08:20-09:05/45		07:35		08:49 09:25-09:42/17
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	181	691	1413	507	22	541

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 08:03-08:38/35 18:25	07:23 20:17	06:20 06:44-06:45/1 21:06 06:47-06:53/6	05:36 06:27-06:48/21 21:50
2	08:49 16:49	08:22 17:36	07:30 08:04-08:40/36 18:26	07:21 20:19	06:18 06:42-06:44/2 21:08	05:35 06:28-06:49/21 21:52
3	08:49 16:50	08:21 17:38	07:28 08:07-08:41/34 18:28	07:19 20:20	06:16 21:09	05:35 06:28-06:48/20 21:53
4	08:49 16:51	08:19 08:57-09:04/7 17:40	07:26 08:07-08:42/35 18:30	07:16 20:22	06:14 21:11	05:34 06:29-06:47/18 21:54
5	08:49 16:52	08:18 08:53-09:08/15 17:42	07:24 08:05-08:42/37 18:32	07:14 20:24	06:13 21:13	05:33 06:30-06:47/17 21:55
6	08:49 16:54	08:16 08:51-09:10/19 17:44	07:21 08:04-08:42/38 18:33	07:12 20:25	06:11 06:36-06:38/2 21:14	05:33 06:30-06:46/16 21:55
7	08:48 16:55	08:14 08:49-09:11/22 17:45	07:19 08:04-08:43/39 18:35	07:10 20:27	06:09 06:34-06:37/3 21:16	05:32 06:31-06:47/16 21:56
8	08:48 16:56	08:13 08:48-09:13/25 17:47	07:17 08:03-08:43/40 18:37	07:08 20:28	06:07 06:32-06:36/4 21:17	05:32 06:31-06:46/15 21:57
9	08:47 16:57	08:11 08:47-09:14/27 17:49	07:15 08:02-08:42/40 18:38	07:05 20:30	06:06 06:31-06:43/12 21:19	05:31 06:33-06:45/12 21:58
10	08:47 16:59	08:09 08:46-09:15/29 17:51	07:13 08:02-08:42/40 18:40 07:44-07:47/3	07:03 20:32	06:04 06:29-06:44/15 21:20	05:31 06:34-06:45/11 21:59
11	08:46 17:00	08:08 08:45-09:16/31 17:53	07:10 08:02-08:42/40 18:42 07:39-07:52/13	07:01 07:24-07:29/5 20:33	06:02 06:28-06:46/18 21:22	05:30 06:35-06:45/10 22:00
12	08:46 17:02	08:06 08:45-09:16/31 17:54	07:08 08:02-08:42/40 18:44 07:36-07:55/19	06:59 07:21-07:29/8 20:35	06:01 06:26-06:47/21 21:24	05:30 06:35-06:44/9 22:00
13	08:45 17:03	08:04 08:44-09:17/33 17:56	07:06 08:02-08:40/38 18:45 07:34-07:55/21	06:57 07:19-07:30/11 20:37	05:59 06:25-06:48/23 21:25	05:30 06:36-06:43/7 22:01
14	08:44 17:04	08:02 08:44-09:17/33 17:58	07:04 08:02-08:40/38 18:47 07:32-07:56/24	06:54 07:17-07:31/14 20:38	05:58 06:25-06:48/23 21:27	05:30 06:38-06:43/5 22:01
15	08:44 17:06	08:00 08:43-09:17/34 18:00	07:01 08:03-08:39/36 18:49 07:31-07:57/26	06:52 07:15-07:31/16 20:40	05:56 06:25-06:49/24 21:28	05:30 06:39-06:42/3 22:02
16	08:43 17:08	07:58 08:43-09:17/34 18:02	06:59 08:03-08:38/35 18:50 07:30-07:58/28	06:50 07:13-07:31/18 20:42	05:55 06:25-06:50/25 21:30	05:29 22:02
17	08:42 17:09	07:56 08:43-09:17/34 18:03	06:57 08:03-08:36/33 18:52 07:29-07:58/29	06:48 07:13-07:31/18 20:43	05:53 06:24-06:49/25 21:31	05:29 22:03
18	08:41 17:11	07:54 08:43-09:17/34 18:05	06:55 08:04-08:35/31 18:54 07:29-07:58/29	06:46 07:13-07:30/17 20:45	05:52 06:24-06:50/26 21:32	05:29 22:03
19	08:40 17:12	07:53 08:44-09:16/32 18:07	06:52 08:06-08:33/27 18:55 07:28-07:58/30	06:44 07:13-07:29/16 20:47	05:51 06:24-06:50/26 21:34	05:29 22:04
20	08:39 17:14	07:51 08:44-09:16/32 18:09	06:50 08:07-08:31/24 18:57 07:28-07:58/30	06:42 07:14-07:28/14 20:48	05:49 06:24-06:51/27 21:35	05:29 22:04
21	08:38 17:16	07:49 08:45-09:15/30 18:11 08:12-08:16/4	06:48 08:09-08:27/18 18:59 07:28-07:56/28	06:40 07:15-07:27/12 20:50 07:03-07:05/2	05:48 06:23-06:50/27 21:37	05:30 22:04
22	08:37 17:17	07:47 08:45-09:14/29 18:12 08:10-08:18/8	06:46 08:12-08:23/11 19:00 07:28-07:56/28	06:38 07:17-07:24/7 20:51 07:01-07:06/5	05:47 06:23-06:50/27 21:38	05:30 22:04
23	08:36 17:19	07:45 08:46-09:13/27 18:14 08:08-08:19/11	06:43 07:28-07:55/27 19:02	06:36 06:59-07:06/7 20:53	05:45 06:24-06:50/26 21:39	05:30 22:05
24	08:35 17:21	07:42 08:48-09:11/23 18:16 08:06-08:19/13	06:41 07:28-07:53/25 19:04	06:34 06:57-07:06/9 20:55	05:44 06:24-06:50/26 21:41	05:30 22:05
25	08:33 17:22	07:40 08:49-09:10/21 18:18 08:04-08:20/16	06:39 07:29-07:52/23 19:05	06:32 06:55-07:06/11 20:56	05:43 06:24-06:50/26 21:42	05:31 22:05
26	08:32 17:24	07:38 08:02-08:33/31 18:19 08:51-09:07/16	06:37 07:31-07:50/19 19:07	06:30 06:53-07:05/12 20:58	05:42 06:24-06:50/26 21:43	05:31 22:05
27	08:31 17:26	07:36 08:03-08:36/33 18:21 08:55-09:04/9	06:34 07:32-07:48/16 19:09	06:28 06:51-07:04/13 21:00	05:41 06:25-06:50/25 21:45	05:31 22:05
28	08:30 17:27	07:34 08:02-08:37/35 18:23	06:32 07:34-07:44/10 19:10	06:26 06:50-07:03/13 21:01	05:40 06:25-06:49/24 21:46	05:32 06:41-06:45/4 22:05
29	08:28 17:29		07:30 20:12	06:24 06:48-07:02/14 21:03	05:39 06:26-06:50/24 21:47	05:32 06:40-06:46/6 22:05
30	08:27 17:31		07:28 20:14	06:22 06:46-06:55/9 21:05	05:38 06:26-06:50/24 21:48	05:33 06:40-06:48/8 22:04
31	08:25 17:33		07:25 20:15		05:37 06:27-06:49/22 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	0	778	1173	251	560	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:39-06:49/10 22:04	06:09 06:37-06:57/20 21:33	06:57 07:23-07:28/5 20:33	07:44 08:41-09:20/39 19:25 08:14-08:34/20	07:36 08:16-08:44/28 17:21	08:26 16:42
2	05:34 06:38-06:49/11 22:04	06:10 06:39-06:56/17 21:32	06:59 20:31	07:46 08:41-09:21/40 19:23 08:17-08:32/15	07:38 08:17-08:44/27 17:19	08:27 16:41
3	05:35 06:38-06:50/12 22:03	06:12 06:40-06:54/14 21:30	07:00 20:29	07:48 08:40-09:20/40 19:21 08:19-08:28/9	07:40 08:17-08:42/25 17:17	08:29 16:41
4	05:36 06:38-06:52/14 22:03	06:13 06:41-06:51/10 21:29	07:02 20:27	07:49 08:40-09:20/40 19:19	07:42 08:19-08:41/22 17:16	08:30 16:40
5	05:37 06:37-06:52/15 22:03	06:15 06:43-06:47/4 21:27	07:03 20:24	07:51 08:40-09:20/40 19:16	07:43 08:21-08:39/18 17:14	08:31 16:40
6	05:37 06:37-06:53/16 22:02	06:16 06:44-06:47/3 21:25	07:05 20:22	07:52 08:40-09:19/39 19:14	07:45 08:23-08:37/14 17:12	08:33 16:39
7	05:38 06:36-06:53/17 22:02	06:18 06:46-06:47/1 21:23	07:06 20:20	07:54 08:40-09:18/38 19:12	07:47 08:27-08:33/6 17:11	08:34 16:39
8	05:39 06:36-06:54/18 22:01	06:19 21:22	07:08 20:18	07:56 08:41-09:18/37 19:10	07:49 17:09	08:35 16:39
9	05:40 06:36-06:55/19 22:00	06:21 21:20	07:10 20:15	07:57 08:40-09:16/36 19:07	07:50 17:07	08:36 16:38
10	05:41 06:36-06:56/20 22:00	06:23 21:18	07:11 20:13	07:59 08:41-09:16/35 19:05	07:52 17:06	08:37 16:38
11	05:42 06:36-06:57/21 21:59	06:24 06:52-06:54/2 21:16	07:13 20:11	08:01 08:40-09:15/35 19:03	07:54 17:04	08:38 16:38
12	05:43 06:35-06:57/22 21:58	06:26 06:53-06:54/1 21:14 06:55-07:02/7	07:14 20:09	08:02 08:38-09:12/34 19:01	07:56 17:03	08:39 16:38
13	05:44 06:35-06:58/23 21:57	06:27 06:54-07:03/9 21:12	07:16 20:06	08:04 08:36-09:11/35 18:59	07:57 17:01	08:40 16:38
14	05:45 06:35-06:58/23 21:56	06:29 06:56-07:10/14 21:11	07:17 20:04	08:06 08:35-09:09/34 18:57	07:59 17:00	08:41 16:38
15	05:46 06:35-06:59/24 21:55	06:30 06:57-07:11/14 21:09	07:19 08:26-08:34/8 20:02	08:07 08:35-09:07/32 18:54 09:25-09:38/13	08:01 16:58	08:42 16:38
16	05:47 06:34-06:59/25 21:54	06:32 06:59-07:12/13 21:07	07:21 08:21-08:36/15 19:59	08:09 08:35-09:02/27 18:52 09:22-09:39/17	08:02 16:57	08:43 16:38
17	05:49 06:34-06:59/25 21:53	06:33 07:00-07:12/12 21:05	07:22 08:19-08:38/19 19:57	08:11 09:20-09:42/22 18:50 08:36-08:51/15	08:04 16:56	08:44 16:38
18	05:50 06:34-07:00/26 21:52	06:35 07:02-07:13/11 21:03	07:24 08:17-08:39/22 19:55	08:12 09:18-09:43/25 18:48 08:38-08:50/12	08:06 16:55	08:45 16:39
19	05:51 06:34-07:00/26 21:51	06:37 07:03-07:12/9 21:01	07:25 08:16-08:40/24 19:53	08:14 09:17-09:45/28 18:46 08:40-08:50/10	08:07 16:53	08:45 16:39
20	05:52 06:33-07:00/27 21:50	06:38 07:05-07:12/7 20:59	07:27 08:15-08:42/27 19:50	08:16 09:16-09:46/30 18:44 08:42-08:48/6	08:09 16:52	08:46 16:39
21	05:54 06:34-07:01/27 21:49	06:40 07:21-07:30/9 20:57 07:06-07:11/5	07:28 09:00-09:07/7 19:48 08:14-08:41/27	08:17 09:15-09:46/31 18:42 08:43-08:46/3	08:11 16:51	08:46 16:40
22	05:55 06:34-07:01/27 21:48	06:41 07:19-07:32/13 20:55 07:08-07:10/2	07:30 08:55-09:12/17 19:46 08:13-08:42/29	08:19 09:14-09:46/32 18:40	08:12 16:50	08:47 16:40
23	05:56 06:34-07:00/26 21:46	06:43 07:17-07:32/15 20:52	07:32 08:52-09:14/22 19:43 08:12-08:41/29	08:21 09:14-09:47/33 18:38	08:14 16:49	08:48 16:41
24	05:58 06:34-07:00/26 21:45	06:44 07:17-07:33/16 20:50	07:33 08:50-09:16/26 19:41 08:12-08:41/29	08:23 09:14-09:47/33 18:36	08:15 16:48	08:48 16:41
25	05:59 06:34-07:01/27 21:44	06:46 07:16-07:33/17 20:48	07:35 08:47-09:17/30 19:39 08:11-08:40/29	07:24 08:14-08:47/33 17:34	08:17 16:47	08:48 16:42
26	06:00 06:34-07:00/26 21:42	06:48 07:16-07:34/18 20:46	07:36 08:46-09:18/32 19:37 08:11-08:40/29	07:26 08:14-08:47/33 17:32	08:19 16:46	08:49 16:43
27	06:02 06:34-07:00/26 21:41	06:49 07:15-07:33/18 20:44	07:38 08:45-09:19/34 19:34 08:12-08:40/28	07:28 08:13-08:46/33 17:30	08:20 16:45	08:49 16:43
28	06:03 06:36-07:00/24 21:40	06:51 07:17-07:33/16 20:42	07:40 08:44-09:19/35 19:32 08:12-08:38/26	07:29 08:13-08:46/33 17:28	08:22 16:44	08:49 16:44
29	06:05 06:36-06:59/23 21:38	06:52 07:18-07:32/14 20:40	07:41 08:43-09:20/37 19:30 08:13-08:38/25	07:31 08:14-08:46/32 17:26	08:23 16:43	08:49 16:45
30	06:06 06:35-06:58/23 21:37	06:54 07:20-07:31/11 20:38	07:43 08:41-09:20/39 19:28 08:13-08:36/23	07:33 08:14-08:46/32 17:24	08:25 16:43	08:49 16:46
31	06:07 06:36-06:58/22 21:35	06:55 07:21-07:29/8 20:35	 	07:35 08:15-08:45/30 17:23	 	08:49 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	671	330	673	1161	140	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:47-10:30/43	08:24 08:52-09:29/37	07:32	07:23 07:48-07:54/6	06:20	05:36 06:23-06:34/11
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:48-10:30/42	08:22 08:52-09:29/37	07:30	07:21 07:51-08:00/9	06:18	05:36 06:22-06:37/15
	16:49	17:36	18:26	20:19 07:43-07:46/3	21:08	21:52
3	08:49 09:49-10:30/41	08:21 08:52-09:29/37	07:28	07:19 07:41-08:03/22	06:16	05:35 06:20-06:38/18
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:48-10:29/41	08:19 08:54-09:30/36	07:26	07:16 07:39-08:06/27	06:15	05:34 06:19-06:39/20
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:49-10:30/41	08:18 08:55-09:30/35	07:24	07:14 07:37-08:07/30	06:13	05:33 06:19-06:40/21
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 09:49-10:29/40	08:16 08:57-09:30/33	07:21	07:12 07:34-08:07/33	06:11	05:33 06:17-06:41/24
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:50-10:28/38	08:14 09:00-09:30/30	07:19	07:10 07:32-08:08/36	06:09	05:32 06:01-06:02/1
	16:55	17:45	18:35	20:27	21:16	21:56 06:17-06:42/25
8	08:48 09:50-10:27/37	08:13 09:01-09:30/29	07:17	07:08 07:32-08:09/37	06:08	05:32 06:01-06:03/2
	16:56	17:47	18:37	20:28	21:17	21:57 06:16-06:42/26
9	08:47 09:51-10:28/37	08:11 09:01-09:30/29	07:15	07:05 07:33-08:09/36	06:06	05:31 06:00-06:03/3
	16:57	17:49	18:38	20:30 07:28-07:30/2	21:19	21:58 06:16-06:43/27
10	08:47 09:51-10:28/37	08:09 09:02-09:29/27	07:13	07:03 07:34-08:09/35	06:04	05:31 06:00-06:04/4
	16:59	17:51	18:40	20:32 07:26-07:31/5	21:20	21:59 06:16-06:44/28
11	08:46 09:51-10:28/37	08:08 09:02-09:28/26	07:10	07:01 07:37-08:09/32	06:03	05:30 06:00-06:04/4
	17:00	17:53	18:42	20:33 07:24-07:31/7	21:22	22:00 06:16-06:45/29
12	08:46 09:51-10:28/37	08:06 09:03-09:27/24	07:08	06:59 07:35-08:08/33	06:01	05:30 05:59-06:04/5
	17:02	17:54	18:44	20:35 07:21-07:30/9	21:24	22:00 06:16-06:45/29
13	08:45 09:53-10:29/36	08:04 09:04-09:25/21	07:06	06:57 07:35-08:08/33	05:59	05:30 05:59-06:05/6
	17:03	17:56	18:45	20:37 07:19-07:29/10	21:25	22:01 06:16-06:46/30
14	08:44 09:53-10:30/37	08:02 09:06-09:24/18	07:04	06:55 07:35-08:08/33	05:58	05:30 05:59-06:05/6
	17:05	17:58	18:47	20:38 07:17-07:28/11	21:27	22:01 06:16-06:46/30
15	08:44 09:53-10:30/37	08:00 09:08-09:21/13	07:01	06:52 07:35-08:07/32	05:56	05:30 05:59-06:05/6
	17:06	18:00	18:49	20:40 07:18-07:26/8	21:28	22:02 06:16-06:47/31
16	08:43 09:54-10:30/36	07:58 09:12-09:17/5	06:59	06:50 07:35-08:07/32	05:55	05:29 05:59-06:06/7
	17:08	18:02	18:50	20:42	21:30	22:02 06:16-06:47/31
17	08:42 09:55-10:30/35	07:56	06:57 07:19-07:25/6	06:48 07:36-08:06/30	05:53	05:29 05:59-06:06/7
	17:09	18:03	18:52	20:43	21:31	22:03 06:16-06:48/32
18	08:41 09:55-10:30/35	07:54	06:55 07:17-07:27/10	06:46 07:36-08:05/29	05:52	05:29 05:59-06:06/7
	17:11	18:05	18:54	20:45	21:32	22:03 06:16-06:48/32
19	08:40 09:56-10:30/34	07:53	06:52 07:15-07:29/14	06:44 07:07-07:09/2	05:51	05:29 05:59-06:06/7
	17:12	18:07	18:55	20:47 07:37-08:04/27	21:34	22:04 06:16-06:48/32
20	08:39 09:57-10:30/33	07:51	06:50 07:13-07:29/16	06:42 07:05-07:08/3	05:49	05:29 05:59-06:07/8
	17:14	18:09	18:57	20:48 07:38-08:02/24	21:35	22:04 06:16-06:48/32
21	08:38 09:57-10:29/32	07:49	06:48 07:10-07:29/19	06:40 07:03-07:06/3	05:48	05:30 05:59-06:07/8
	17:16	18:11	18:59	20:50 07:39-08:00/21	21:37	22:04 06:16-06:48/32
22	08:37 09:58-10:28/30	07:47	06:46 07:09-07:29/20	06:38 07:01-07:03/2	05:47	05:30 06:00-06:08/8
	17:17	18:12	19:00	20:51 07:40-07:58/18	21:38	22:04 06:17-06:49/32
23	08:36 10:00-10:28/28	07:45	06:43 07:09-07:29/20	06:36 06:59-07:03/4	05:45	05:30 06:00-06:07/7
	17:19 09:10-09:16/6	18:14	19:02	20:53 07:43-07:55/12	21:39	22:05 06:17-06:49/32
24	08:35 10:00-10:27/27 09:02-09:04/2	07:42	06:41 07:09-07:29/20	06:34 06:57-07:02/5	05:44	05:30 06:00-06:07/7
	17:21 09:06-09:18/12	18:16	19:04	20:55 07:48-07:49/1	21:41	22:05 06:17-06:49/32
25	08:33 10:02-10:26/24	07:40	06:39 07:08-07:27/19	06:32 06:55-07:02/7	05:43	05:31 06:01-06:08/7
	17:22 09:00-09:21/21	18:18	19:05	20:56	21:42	22:05 06:18-06:50/32
26	08:32 10:04-10:25/21	07:38	06:37 07:09-07:26/17	06:30 06:53-07:01/8	05:42	05:31 06:01-06:08/7
	17:24 08:59-09:23/24	18:19	19:07	20:58	21:43	22:05 06:18-06:49/31
27	08:31 10:05-10:23/18	07:36	06:34 07:10-07:25/15	06:28 06:51-07:00/9	05:41	05:31 06:02-06:09/7
	17:26 08:57-09:24/27	18:21	19:09	21:00	21:45	22:05 06:18-06:49/31
28	08:30 10:08-10:21/13	07:34	06:32 07:11-07:22/11	06:26 06:51-07:00/9	05:40	05:32 06:02-06:08/6
	17:27 08:56-09:25/29	18:23	19:10 06:55-06:58/3	21:01	21:46	22:05 06:19-06:49/30
29	08:28 10:12-10:16/4		07:30 08:15-08:18/3	06:24 06:53-06:58/5	05:39	05:32 06:03-06:09/6
	17:29 08:54-09:26/32		20:12 07:52-07:57/5	21:03	21:47	22:05 06:19-06:49/30
30	08:27 08:53-09:27/34		07:28 07:50-07:56/6	06:22	05:38	05:33 06:03-06:08/5
	17:31		20:14	21:05	21:48	22:04 06:20-06:49/29
31	08:25 08:51-09:28/37		07:25 07:48-07:56/8		05:37 06:26-06:31/5	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1175	437	212	740	5	975

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:09/5	06:09	06:57 07:36-08:08/32	07:44	07:36 08:31-08:59/28	08:26 09:33-10:10/37
	22:04 06:21-06:50/29	21:33	20:33 07:23-07:30/7	19:25	17:21	16:42
2	05:34 06:04-06:08/4	06:10	06:59 07:32-08:07/35	07:46	07:38 08:31-08:59/28	08:27 09:34-10:11/37
	22:04 06:20-06:49/29	21:32	20:31 07:24-07:29/5	19:23	17:19	16:41
3	05:35 06:05-06:08/3	06:12	07:00 07:31-08:07/36	07:48	07:40 08:29-08:59/30	08:29 09:34-10:11/37
	22:03 06:21-06:49/28	21:30	20:29 07:26-07:28/2	19:21	17:17	16:41
4	05:36 06:06-06:08/2	06:13	07:02 07:29-08:06/37	07:49	07:42 08:29-08:59/30	08:30 09:35-10:12/37
	22:03 06:22-06:49/27	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:09/2	06:15	07:03 07:29-08:05/36	07:51	07:43 08:26-09:00/34	08:31 09:35-10:13/38
	22:03 06:22-06:48/26	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:47/24	06:16	07:05 07:30-08:03/33	07:52	07:45 08:25-09:00/35	08:33 09:35-10:15/40
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:25-06:47/22	06:18	07:06 07:32-08:02/30	07:54	07:47 08:24-09:00/36	08:34 09:36-10:17/41
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39 06:26-06:47/21	06:19	07:08 07:33-08:00/27	07:56	07:49 08:23-09:00/37	08:35 09:36-10:17/41
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:27-06:46/19	06:21	07:10 07:35-07:58/23	07:57	07:50 08:23-09:00/37	08:36 09:37-10:18/41
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:28-06:45/17	06:23	07:11 07:43-07:54/11	07:59	07:52 08:23-09:00/37	08:37 09:37-10:19/42
	22:00	21:18	20:13 07:36-07:39/3	19:05	17:06	16:38
11	05:42 06:30-06:43/13	06:24	07:13 07:40-07:46/6	08:01	07:54 08:23-09:00/37	08:38 09:37-10:20/43
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:33-06:41/8	06:26	07:14 07:39-07:47/8	08:02	07:56 08:24-08:58/34	08:39 09:38-10:20/42
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 07:41-07:48/7	08:04	07:57 09:44-09:49/5	08:40 09:38-10:21/43
	21:57	21:12	20:06	18:59	17:01 08:26-08:58/32	16:38
14	05:45	06:29 07:00-07:06/6	07:17 07:42-07:47/5	08:06	07:59 09:40-09:53/13	08:41 09:39-10:22/43
	21:56	21:11	20:04	18:57	17:00 08:28-08:57/29	16:38
15	05:46	06:30 06:57-07:07/10	07:19 08:02-08:12/10	08:07	08:01 09:38-09:56/18	08:42 09:40-10:23/43
	21:55	21:09	20:02 07:44-07:47/3	18:55	16:58 08:30-08:57/27	16:38
16	05:47	06:32 06:59-07:08/9	07:21 07:59-08:13/14	08:09	08:02 09:37-09:58/21	08:43 09:40-10:24/44
	21:54	21:07	19:59 07:45-07:46/1	18:52	16:57 08:32-08:56/24	16:38
17	05:49	06:33 07:00-07:08/8	07:22 07:58-08:15/17	08:11	08:04 09:36-10:00/24	08:44 09:41-10:24/43
	21:53	21:05	19:57	18:50	16:56 08:34-08:55/21	16:38
18	05:50	06:35 07:02-07:08/6	07:24 07:56-08:15/19	08:12	08:06 09:34-10:01/27 08:36-08:38/2	08:45 09:41-10:24/43
	21:52	21:03	19:55	18:48	16:55 08:40-08:52/12	16:39
19	05:51	06:37 07:03-07:08/5	07:25 07:56-08:15/19	08:14	08:07 09:34-10:02/28	08:45 09:42-10:25/43
	21:51	21:01 07:52-07:57/5	19:53	18:46	16:53 08:44-08:50/6	16:39
20	05:52	06:38 07:05-07:09/4	07:27 07:55-08:16/21	08:16	08:09 09:33-10:03/30	08:46 09:43-10:26/43
	21:50	20:59 07:48-08:02/14	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:08/2	07:28 07:54-08:15/21	08:17	08:11 09:33-10:05/32	08:46 09:43-10:26/43
	21:49	20:57 07:45-08:03/18	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:11/3	07:30 07:55-08:15/20	08:19	08:12 09:33-10:06/33	08:47 09:44-10:27/43
	21:48	20:55 07:43-08:05/22	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:12/3	07:32 07:56-08:13/17	08:21	08:14 09:32-10:06/34	08:47 09:44-10:27/43
	21:46	20:52 07:41-08:06/25	19:43	18:38	16:49	16:41
24	05:58	06:44 07:11-07:13/2	07:33 07:58-08:13/15	08:23	08:15 09:32-10:07/35	08:48 09:44-10:27/43
	21:45	20:50 07:41-08:07/26	19:41	18:36	16:48	16:41
25	05:59	06:46 07:39-08:08/29	07:35 07:59-08:10/11	07:24	08:17 09:33-10:08/35	08:48 09:45-10:28/43
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 07:39-08:09/30	07:36 08:01-08:09/8	07:26 08:41-08:49/8	08:19 09:32-10:08/36	08:49 09:45-10:28/43
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:37-08:09/32	07:38 08:03-08:05/2	07:28 08:37-08:51/14	08:20 09:33-10:09/36	08:49 09:45-10:29/44
	21:41	20:44 07:23-07:25/2	19:34	17:30	16:45	16:43
28	06:03	06:51 07:37-08:09/32	07:40	07:29 08:35-08:54/19	08:22 09:33-10:10/37	08:49 09:46-10:29/43
	21:40	20:42 07:20-07:28/8	19:32	17:28	16:44	16:44
29	06:05	06:52 07:36-08:09/33	07:41	07:31 08:33-08:55/22	08:23 09:33-10:10/37	08:49 09:46-10:29/43
	21:38	20:40 07:18-07:29/11	19:30	17:26	16:43	16:45
30	06:06	06:54 07:36-08:09/33	07:43	07:33 08:32-08:57/25	08:25 09:33-10:10/37	08:49 09:46-10:29/43
	21:37	20:38 07:20-07:30/10	19:28	17:25	16:43	16:46
31	06:07	06:55 07:35-08:08/33		07:35 08:32-08:58/26		08:49 09:47-10:29/42
	21:35	20:35 07:21-07:29/8		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	279	429	541	114	1074	1294

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:49	08:24	07:32		07:23		06:20		05:36	06:04-06:13/9
	16:48	17:34	18:25		20:17		21:06		21:50	
2	08:49	08:22	07:30		07:21		06:18	06:42-06:43/1	05:35	06:04-06:14/10
	16:49	17:36	18:26		20:18		21:08		21:51	
3	08:49	08:21	07:28		07:19		06:16	06:40-06:43/3	05:35	06:03-06:14/11
	16:50	17:38	18:28		20:20		21:09		21:52	
4	08:49	08:19	07:26		07:16		06:14	06:39-06:43/4	05:34	06:02-06:14/12
	16:51	17:40	18:30		20:22		21:11		21:53	
5	08:49	08:18	07:23		07:14		06:13	06:37-06:43/6	05:33	06:02-06:14/12
	16:52	17:42	18:31		20:23		21:13		21:54	
6	08:49	08:16	07:21	07:44-07:47/3	07:12	07:34-07:35/1	06:11	06:35-06:42/7	05:33	06:01-06:14/13
	16:53	17:43	18:33		20:25		21:14		21:55	
7	08:48	08:14	07:19	07:42-07:47/5	07:10	07:32-07:34/2	06:09	06:34-06:42/8	05:32	06:01-06:14/13
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	07:40-07:47/7	07:07	07:30-07:32/2	06:07	06:32-06:41/9	05:32	06:00-06:14/14
	16:56	17:47	18:37		20:28		21:17		21:57	
9	08:47	08:11	07:15	07:37-07:46/9	07:05		06:06	06:31-06:41/10	05:31	06:00-06:14/14
	16:57	17:49	18:38		20:30		21:19		21:58	
10	08:47	08:09	07:12	07:35-07:45/10	07:03		06:04	06:33-06:38/5	05:31	06:00-06:14/14
	16:59	17:51	18:40		20:32		21:20		21:59	
11	08:46	08:07	07:10	07:34-07:44/10	07:01		06:02		05:30	05:59-06:14/15
	17:00	17:52	18:42		20:33		21:22		21:59	
12	08:46	08:06	07:08	07:36-07:42/6	06:59		06:01		05:30	05:59-06:14/15
	17:01	17:54	18:43		20:35		21:23		22:00	
13	08:45	08:04	07:06		06:57		05:59		05:30	05:59-06:14/15
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04		06:54		05:58		05:30	05:59-06:14/15
	17:04	17:58	18:47		20:38		21:26		22:01	
15	08:44	08:00	07:01	07:24-07:26/2	06:52		05:56		05:29	05:59-06:15/16
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:22-07:27/5	06:50	07:13-07:15/2	05:55		05:29	05:59-06:15/16
	17:07	18:01	18:50		20:42		21:29		22:02	
17	08:42	07:56	06:57	07:19-07:26/7	06:48	07:11-07:15/4	05:53		05:29	05:59-06:15/16
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:54	06:55	07:17-07:26/9	06:46	07:09-07:14/5	05:52		05:29	05:59-06:15/16
	17:11	18:05	18:54		20:45		21:32		22:03	
19	08:40	07:52	06:52	07:15-07:26/11	06:44	07:07-07:13/6	05:50		05:29	05:59-06:15/16
	17:12	18:07	18:55		20:46		21:34		22:04	
20	08:39	07:50	06:50	07:13-07:25/12	06:42	07:05-07:11/6	05:49		05:29	05:59-06:15/16
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:48	06:48	07:10-07:22/12	06:40		05:48		05:30	05:59-06:15/16
	17:15	18:10	18:59		20:50		21:37		22:04	
22	08:37	07:46	06:46	07:08-07:20/12	06:38		05:47		05:30	06:00-06:16/16
	17:17	18:12	19:00		20:51		21:38		22:04	
23	08:36	07:44	06:43	07:06-07:14/8	06:36		05:45		05:30	06:00-06:16/16
	17:19	18:14	19:02		20:53		21:39		22:05	
24	08:35	07:42	06:41	07:03-07:11/8	06:34		05:44		05:30	06:00-06:16/16
	17:20	18:16	19:04		20:55		21:41		22:05	
25	08:33	07:40	06:39		06:32		05:43	06:10-06:11/1	05:31	06:01-06:17/16
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37		06:30		05:42	06:09-06:11/2	05:31	06:01-06:17/16
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34		06:28		05:41	06:08-06:12/4	05:31	06:01-06:17/16
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	06:07-06:12/5	05:32	06:02-06:17/15
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30		06:24		05:39	06:06-06:12/6	05:32	06:02-06:17/15
	17:29		20:12		21:03		21:47		22:04	
30	08:27		07:28		06:22		05:38	06:06-06:13/7	05:33	06:03-06:18/15
	17:31		20:14		21:04		21:48		22:04	
31	08:25		07:25				05:37	06:05-06:13/8		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	136		28		86		435	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:19/15	06:09	06:57	07:44	07:36	08:26
	22:04	21:33	20:33	19:25	17:21	16:42
2	05:34 06:04-06:19/15	06:10	06:58	07:46 08:14-08:22/8	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:19/14	06:12 06:42-06:50/8	07:00	07:47 08:12-08:23/11	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:20/14	06:13 06:41-06:50/9	07:02 07:27-07:29/2	07:49 08:14-08:24/10	07:42	08:30
	22:03	21:29	20:26	19:18	17:15	16:40
5	05:36 06:06-06:19/13	06:15 06:43-06:52/9	07:03 07:29-07:31/2	07:51 08:16-08:24/8	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:20/13	06:16 06:44-06:52/8	07:05 07:30-07:31/1	07:52 08:17-08:23/6	07:45	08:32
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:20/12	06:18 06:46-06:53/7	07:06	07:54 08:19-08:23/4	07:47	08:34
	22:01	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:21/12	06:19 06:47-06:52/5	07:08	07:56 08:21-08:23/2	07:49	08:35
	22:01	21:22	20:17	19:10	17:09	16:39
9	05:40 06:10-06:21/11	06:21 06:48-06:52/4	07:09	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:21/10	06:22 06:50-06:52/2	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:22/10	06:24	07:13	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:22/9	06:26	07:14	08:02	07:55	08:39
	21:58	21:14	20:08	19:01	17:03	16:38
13	05:44 06:14-06:22/8	06:27	07:16	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:15-06:22/7	06:29	07:17	08:06	07:59	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:22/6	06:30	07:19	08:07	08:01	08:42
	21:55	21:08	20:02	18:54	16:58	16:38
16	05:47 06:17-06:21/4	06:32	07:20	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:21/3	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:21/2	06:35	07:24	08:12	08:06	08:44
	21:52	21:03	19:55	18:48	16:54	16:38
19	05:51	06:36	07:25 07:51-07:58/7	08:14	08:07	08:45
	21:51	21:01	19:52	18:46	16:53	16:39
20	05:52	06:38	07:27 07:52-08:00/8	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 07:53-08:00/7	08:17	08:11	08:46
	21:49	20:56	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 07:55-08:07/12	08:19	08:12	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:15/6	07:31 07:56-08:08/12	08:21	08:14	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:57	06:44 07:11-07:17/6	07:33 07:58-08:09/11	08:22	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 07:12-07:17/5	07:35 07:59-08:09/10	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:47 07:14-07:18/4	07:36 08:01-08:09/8	07:26	08:18	08:49
	21:42	20:46	19:37	17:32	16:46	16:42
27	06:02	06:49 07:15-07:17/2	07:38 08:03-08:09/6	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:39 08:04-08:07/3	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:04	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:24	08:49
	21:37	20:37	19:27	17:24	16:43	16:46
31	06:07	06:55		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	178	75	89	49	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT09 - VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:41/2	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12 06:37-06:40/3	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11 06:35-06:39/4	05:33	05:37	06:16 06:44-06:48/4	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09 06:34-06:38/4	05:32	05:38	06:18 06:46-06:49/3	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19 06:47-06:50/3	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21 06:48-06:49/1	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:27/1	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:26/1	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:25/2	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:25/3	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:25/4	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:22/3	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01 06:30-06:34/4	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:35/3	06:50	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:36/3	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06 06:34-06:36/2	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:37/1	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	28	0	13	12	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT10 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20 06:44-06:49/5	05:36	05:34 06:04-06:12/8	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:42-06:48/6	05:35	05:34 06:04-06:12/8	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:41-06:47/6	05:35 06:03-06:04/1	05:35 06:05-06:12/7	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:45/6	05:34 06:02-06:04/2	05:36 06:06-06:12/6	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:02-06:05/3	05:36 06:06-06:12/6	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:05/4	05:37 06:07-06:12/5	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:06/5	05:38 06:08-06:12/4	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32 06:00-06:06/6	05:39 06:09-06:12/3	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31 06:00-06:07/7	05:40 06:10-06:12/2	06:21 06:49-06:55/6	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:07/7	05:41 06:11-06:12/1	06:22 06:50-06:56/6	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 05:59-06:07/8	05:42	06:24 06:51-06:56/5	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 05:59-06:07/8	05:43	06:26 06:53-06:57/4	07:14	08:02	07:56	08:39
	17:01	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:08/9	05:44	06:27 06:54-06:57/3	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 05:59-06:08/9	05:45	06:29 06:56-06:58/2	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 05:59-06:09/10	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 05:59-06:09/10	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 05:59-06:09/10	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29 05:59-06:09/10	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44	05:50	05:29 05:59-06:09/10	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 05:59-06:10/11	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:29 05:59-06:10/11	05:54	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:00-06:11/11	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:00-06:11/11	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34	05:44	05:30 06:00-06:10/10	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43	05:31 06:00-06:10/10	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:01-06:11/10	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31 06:01-06:11/10	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32 06:02-06:11/9	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:48-06:50/2	05:39	05:32 06:02-06:11/9	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22 06:46-06:49/3	05:38	05:33 06:03-06:12/9	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	5	23	230	50	26	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 08:50-09:14/24 17:35	07:32 18:25	07:23 07:46-08:07/21 20:17	06:20 06:56-07:17/21 21:06	05:36 06:04-06:24/20 21:50
2	08:49 16:49	08:22 08:48-09:14/26 17:36	07:30 18:26	07:21 07:43-08:05/22 20:19	06:18 06:56-07:16/20 21:08	05:35 06:04-06:25/21 21:51
3	08:49 16:50	08:21 08:48-09:13/25 17:38	07:28 18:28	07:19 07:49-08:04/15 20:20	06:16 06:57-07:14/17 21:09	05:35 06:03-06:25/22 21:53
4	08:49 16:51	08:19 08:49-09:14/25 17:40	07:26 18:30	07:16 07:51-08:02/11 20:22	06:14 06:59-07:13/14 21:11	05:34 06:02-06:26/24 21:54
5	08:49 16:52	08:18 08:49-09:13/24 17:42	07:23 18:32	07:14 07:55-07:57/2 20:23 07:37-07:38/1	06:13 07:02-07:10/8 21:13	05:33 06:02-06:27/25 21:54
6	08:49 16:54	08:16 08:49-09:12/23 17:43	07:21 18:33	07:12 07:34-07:36/2 20:25	06:11 21:14	05:33 06:01-06:27/26 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:50-09:11/21 17:45 08:39-08:41/2	07:19 18:35	07:10 07:32-07:35/3 20:27	06:09 21:16	05:32 06:01-06:28/27 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:52-09:11/19 17:47 08:38-08:42/4	07:17 18:37	07:08 20:28	06:07 21:17	05:32 06:00-06:28/28 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:53-09:10/17 17:49 08:36-08:42/6	07:15 18:38	07:05 20:30	06:06 21:19	05:31 06:00-06:29/29 21:58
10	08:47 09:16-09:22/6 16:59	08:09 08:55-09:08/13 17:51 08:34-08:41/7	07:13 18:40	07:03 20:32	06:04 21:20	05:31 06:00-06:29/29 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:58-09:04/6 17:53 08:32-08:40/8	07:10 18:42	07:01 20:33	06:02 21:22	05:30 05:59-06:29/30 21:59
12	08:46 09:15-09:24/9 17:02	08:06 08:30-08:41/11 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:27/1 21:24	05:30 05:59-06:30/31 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:28-08:41/13 17:56	07:06 18:45	06:57 20:37	05:59 06:25-06:27/2 21:25	05:30 05:59-06:30/31 22:01
14	08:44 09:13-09:25/12 17:04	08:02 08:26-08:41/15 17:58	07:04 18:47	06:54 20:38	05:58 06:23-06:26/3 21:27	05:30 05:59-06:31/32 22:01
15	08:44 09:12-09:26/14 17:06	08:00 08:24-08:41/17 18:00	07:01 18:49	06:52 20:40	05:56 06:22-06:26/4 21:28	05:30 05:59-06:31/32 22:02
16	08:43 09:11-09:26/15 17:08	07:58 08:22-08:41/19 18:02	06:59 07:22-07:24/2 18:50	06:50 07:13-07:16/3 20:42	05:55 06:21-06:26/5 21:30	05:29 05:59-06:32/33 22:02
17	08:42 09:10-09:27/17 17:09	07:56 08:20-08:41/21 18:03	06:57 07:19-07:24/5 18:52	06:48 07:11-07:18/7 20:43	05:53 06:19-06:25/6 21:31	05:29 05:59-06:32/33 22:03
18	08:41 09:09-09:27/18 17:11	07:54 08:20-08:40/20 18:05	06:55 07:17-07:24/7 18:54	06:46 07:09-07:19/10 20:45	05:52 06:18-06:24/6 21:32	05:29 05:59-06:32/33 22:03
19	08:40 09:08-09:27/19 17:12	07:52 08:21-08:39/18 18:07	06:52 07:15-07:24/9 18:55	06:44 07:07-07:20/13 20:47	05:51 06:17-06:23/6 21:34	05:29 05:59-06:32/33 22:04
20	08:39 09:07-09:28/21 17:14	07:51 08:22-08:38/16 18:09	06:50 07:13-07:23/10 18:57	06:42 07:05-07:21/16 20:48	05:49 21:35	05:29 05:59-06:32/33 22:04
21	08:38 09:05-09:27/22 17:16	07:49 08:24-08:36/12 18:10	06:48 07:10-07:21/11 18:59	06:40 07:03-07:21/18 20:50	05:48 21:37	05:30 05:59-06:32/33 22:04
22	08:37 09:04-09:28/24 17:17	07:47 08:27-08:33/6 18:12	06:46 07:10-07:19/9 19:00	06:38 07:01-07:22/21 20:51	05:47 21:38	05:30 06:00-06:33/33 22:04
23	08:36 09:03-09:28/25 17:19	07:44 18:14	06:43 07:13-07:16/3 19:02	06:36 06:59-07:22/23 20:53	05:45 21:39	05:30 06:00-06:33/33 22:05
24	08:35 09:01-09:27/26 17:21	07:42 18:16	06:41 07:03-07:07/4 19:04	06:34 06:57-07:22/25 20:55	05:44 21:41	05:30 06:00-06:33/33 22:05
25	08:33 09:00-09:27/27 17:22	07:40 18:18	06:39 07:01-07:08/7 19:05	06:32 06:55-07:21/26 20:56	05:43 21:42	05:31 06:01-06:34/33 22:05
26	08:32 08:59-09:27/28 17:24	07:38 18:19	06:37 06:59-07:09/10 19:07	06:30 06:54-07:21/27 20:58	05:42 06:09-06:15/6 21:43	05:31 06:01-06:34/33 22:05
27	08:31 08:57-09:25/28 17:26	07:36 18:21	06:34 06:57-07:10/13 19:09	06:28 06:54-07:20/26 21:00	05:41 06:08-06:17/9 21:45	05:31 06:01-06:33/32 22:05
28	08:30 08:56-09:25/29 17:27	07:34 18:23	06:32 06:54-07:09/15 19:10	06:26 06:54-07:20/26 21:01	05:40 06:07-06:19/12 21:46	05:32 06:02-06:34/32 22:05
29	08:28 08:54-09:12/18 17:29 09:13-09:22/9		07:30 07:52-08:09/17 20:12	06:24 06:55-07:20/25 21:03	05:39 06:06-06:20/14 21:47	05:32 06:02-06:33/31 22:04
30	08:27 08:53-09:13/20 17:31		07:28 07:50-08:09/19 20:14	06:22 06:55-07:19/24 21:05	05:38 06:06-06:22/16 21:48	05:33 06:03-06:34/31 22:04
31	08:25 08:51-09:13/22 17:33		07:25 07:48-08:08/20 20:15		05:37 06:05-06:23/18 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	434	418	161	367	188	896

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:34/30 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 08:24-08:38/14 17:21 08:04-08:11/7	08:26 08:57-09:04/7 16:42
2	05:34 06:04-06:34/30 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 08:23-08:40/17 17:19 08:06-08:11/5	08:27 08:59-09:05/6 16:41
3	05:35 06:05-06:34/29 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:21-08:40/19 17:17 08:08-08:12/4	08:29 09:00-09:04/4 16:41
4	05:36 06:06-06:34/28 22:03	06:13 21:29	07:02 20:26	07:49 19:19	07:42 08:20-08:41/21 17:16 08:09-08:11/2	08:30 09:02-09:05/3 16:40
5	05:37 06:06-06:33/27 22:03	06:15 21:27	07:03 07:29-07:32/3 20:24	07:51 19:16	07:43 08:19-08:42/23 17:14	08:31 09:03-09:04/1 16:40
6	05:37 06:07-06:33/26 22:02	06:16 21:25	07:05 07:30-07:32/2 20:22	07:52 19:14	07:45 08:19-08:43/24 17:12	08:33 16:39
7	05:38 06:08-06:33/25 22:02	06:18 21:23	07:06 07:32-07:33/1 20:20	07:54 19:12	07:47 08:19-08:44/25 17:10	08:34 16:39
8	05:39 06:09-06:33/24 22:01	06:19 07:10-07:20/10 21:22	07:08 07:45-07:56/11 20:18	07:56 19:10	07:49 08:18-08:44/26 17:09	08:35 16:39
9	05:40 06:10-06:33/23 22:00	06:21 07:07-07:22/15 21:20	07:10 07:43-07:58/15 20:15	07:57 19:07	07:50 08:19-08:44/25 17:07	08:36 16:38
10	05:41 06:11-06:33/22 22:00	06:23 07:06-07:24/18 21:18	07:11 07:36-07:59/23 20:13	07:59 19:05	07:52 08:21-08:45/24 17:06	08:37 16:38
11	05:42 06:12-06:32/20 21:59	06:24 07:05-07:25/20 21:16	07:13 07:38-08:00/22 20:11	08:01 19:03	07:54 08:23-08:45/22 17:04	08:38 16:38
12	05:43 06:13-06:32/19 21:58	06:26 07:04-07:26/22 21:14	07:14 07:39-07:59/20 20:09	08:02 19:01	07:55 08:24-08:44/20 17:03	08:39 16:38
13	05:44 06:14-06:31/17 21:57	06:27 07:03-07:26/23 21:12	07:16 07:41-08:00/19 20:06	08:04 18:59	07:57 08:26-08:44/18 17:01 08:45-08:54/9	08:40 16:38
14	05:45 06:15-06:30/15 21:56	06:29 07:02-07:27/25 21:10	07:17 07:42-07:59/17 20:04	08:06 18:57	07:59 08:28-08:57/29 17:00	08:41 16:38
15	05:46 06:16-06:29/13 21:55	06:30 07:01-07:27/26 21:09	07:19 07:44-07:59/15 20:02	08:07 18:54	08:01 08:30-08:58/28 16:58	08:42 16:38
16	05:47 06:17-06:28/11 21:54	06:32 07:01-07:28/27 21:07	07:20 07:45-07:58/13 19:59	08:09 18:52	08:02 08:32-09:00/28 16:57	08:43 16:38
17	05:49 06:18-06:26/8 21:53	06:33 07:00-07:28/28 21:05	07:22 07:47-07:58/11 19:57	08:11 18:50	08:04 08:34-09:01/27 16:56	08:44 16:38
18	05:50 06:19-06:23/4 21:52	06:35 07:02-07:28/26 21:03	07:24 07:48-07:56/8 19:55	08:12 18:48	08:06 08:35-09:01/26 16:54	08:44 16:39
19	05:51 21:51	06:37 07:03-07:27/24 21:01	07:25 07:50-07:55/5 19:53	08:14 18:46	08:07 08:37-09:02/25 16:53	08:45 16:39
20	05:52 21:50	06:38 07:05-07:27/22 20:59	07:27 07:52-07:53/1 19:50	08:16 08:57-09:05/8 18:44	08:09 08:39-09:03/24 16:52	08:46 16:39
21	05:54 21:49	06:40 07:06-07:26/20 20:57	07:28 07:56-08:04/8 19:48	08:17 08:54-09:07/13 18:42	08:11 08:41-09:03/22 16:51	08:46 16:40
22	05:55 21:48	06:41 07:08-07:26/18 20:54	07:30 07:55-08:06/11 19:46	08:19 08:52-09:09/17 18:40	08:12 08:43-09:04/21 16:50	08:47 16:40
23	05:56 21:46	06:43 07:09-07:25/16 20:52	07:32 07:56-08:06/10 19:43	08:21 08:51-09:10/19 18:38	08:14 08:44-09:03/19 16:49	08:47 16:41
24	05:58 06:29-06:32/3 21:45	06:44 07:11-07:24/13 20:50	07:33 07:58-08:07/9 19:41	08:23 08:51-09:11/20 18:36	08:15 08:46-09:04/18 16:48	08:48 16:41
25	05:59 06:28-06:34/6 21:44	06:46 07:12-07:22/10 20:48	07:35 07:59-08:06/7 19:39	07:24 07:51-08:11/20 17:34	08:17 08:48-09:05/17 16:47	08:48 16:42
26	06:00 06:29-06:35/6 21:42	06:48 07:14-07:21/7 20:46	07:36 08:01-08:06/5 19:37	07:26 07:53-08:11/18 17:32	08:19 08:49-09:04/15 16:46	08:49 16:43
27	06:02 06:30-06:36/6 21:41	06:49 07:15-07:17/2 20:44	07:38 08:03-08:06/3 19:34	07:28 07:54-08:11/17 17:30	08:20 08:51-09:05/14 16:45	08:49 16:43
28	06:03 06:32-06:37/5 21:40	06:51 20:42	07:39 19:32	07:29 07:56-08:11/15 17:28	08:22 08:53-09:05/12 16:44	08:49 16:44
29	06:05 06:33-06:37/4 21:38	06:52 20:40	07:41 19:30	07:31 07:58-08:10/12 17:26	08:23 08:54-09:05/11 16:43	08:49 16:45
30	06:06 06:34-06:37/3 21:37	06:54 20:37	07:43 19:28	07:33 08:00-08:10/10 17:24	08:24 08:56-09:05/9 16:43	08:49 16:46
31	06:07 06:36-06:38/2 21:35	06:55 20:35		07:35 08:27-08:35/8 17:23 08:02-08:10/8		08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	406	372	239	185	650	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April		May		June
1	08:49	08:24	07:32	07:23	07:45-07:48/3	06:20		05:36
	16:48	17:34	18:24	20:17		21:06		21:50
2	08:49	08:22	07:30	07:21	07:43-07:46/3	06:18		05:35
	16:49	17:36	18:26	20:18		21:08		21:51
3	08:49	08:21	07:28	07:18		06:16		05:35
	16:50	17:38	18:28	20:20		21:09		21:52
4	08:49	08:19	07:26	07:16		06:14		05:34
	16:51	17:40	18:30	20:22		21:11		21:53
5	08:49	08:18	07:23	07:14		06:13		05:33
	16:52	17:42	18:31	20:23		21:12		21:54
6	08:48	08:16	07:21	07:12	07:34-07:35/1	06:11		05:33
	16:53	17:43	18:33	20:25		21:14		21:55
7	08:48	08:14	07:19	07:10	07:32-07:34/2	06:09		05:32
	16:55	17:45	18:35	20:27		21:16		21:56
8	08:48	08:13	07:17	07:07	07:30-07:34/4	06:07		05:32
	16:56	17:47	18:37	20:28		21:17		21:57
9	08:47	08:11	07:15	07:05	07:28-07:32/4	06:06	06:31-06:32/1	05:31
	16:57	17:49	18:38	20:30		21:19		21:58
10	08:47	08:09	07:12	07:03		06:04	06:29-06:30/1	05:31
	16:59	17:51	18:40	20:32		21:20		21:59
11	08:46	08:07	07:10	07:01		06:02	06:28-06:29/1	05:30
	17:00	17:52	18:42	20:33		21:22		21:59
12	08:46	08:06	07:08	06:59		06:01		05:30
	17:01	17:54	18:43	20:35		21:23		22:00
13	08:45	08:04	07:06	06:56		05:59		05:30
	17:03	17:56	18:45	20:37		21:25		22:01
14	08:44	08:02	07:04	06:54		05:58		05:29
	17:04	17:58	18:47	20:38		21:26		22:01
15	08:43	08:00	07:01	06:52		05:56		05:29
	17:06	18:00	18:48	20:40		21:28		22:02
16	08:43	07:58	06:59	06:50		05:55		05:29
	17:07	18:01	18:50	20:41		21:29		22:02
17	08:42	07:56	06:57	06:48		05:53		05:29
	17:09	18:03	18:52	20:43		21:31		22:03
18	08:41	07:54	06:55	06:46		05:52		05:29
	17:10	18:05	18:54	20:45		21:32		22:03
19	08:40	07:52	06:52	06:44		05:50		05:29
	17:12	18:07	18:55	20:46		21:34		22:04
20	08:39	07:50	06:50	06:42		05:49		05:29
	17:14	18:09	18:57	20:48		21:35		22:04
21	08:38	07:48	06:48	06:40		05:48		05:29
	17:15	18:10	18:59	20:50		21:37		22:04
22	08:37	07:46	06:46	06:38		05:46		05:30
	17:17	18:12	19:00	20:51		21:38		22:04
23	08:36	07:44	06:43	06:35		05:45		05:30
	17:19	18:14	19:02	20:53		21:39		22:05
24	08:35	07:42	06:41	06:33		05:44	06:11-06:12/1	05:30
	17:20	18:16	19:04	20:55		21:41		22:05
25	08:33	07:40	06:39	06:31		05:43	06:10-06:12/2	05:30
	17:22	18:17	19:05	20:56		21:42		22:05
26	08:32	07:38	06:37	06:29		05:42	06:09-06:12/3	05:31
	17:24	18:19	19:07	20:58		21:43		22:05
27	08:31	07:36	06:34	06:27		05:41	06:08-06:11/3	05:31
	17:26	18:21	19:08	21:00		21:44		22:05
28	08:29	07:34	06:32	06:26		05:40	06:07-06:11/4	05:32
	17:27	18:23	19:10	21:01		21:46		22:05
29	08:28		07:30	06:24		05:39	06:06-06:10/4	05:32
	17:29		20:12	21:03		21:47		22:04
30	08:27		07:27	06:22		05:38	06:07-06:09/2	05:33
	17:31		20:13	21:04		21:48		22:04
31	08:25		07:25	07:48-07:50/2		05:37		
	17:33		20:15			21:49		
Potential sun hours	262	279	367	415		482		495
Sum of minutes with flicker	0	0	2	17		22		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10	06:39-06:40/1	06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12	06:40-06:41/1	07:00	07:26-07:30/4	07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02	07:27-07:31/4	07:49	07:42	08:30
	22:03		21:28		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03	07:29-07:31/2	07:51	07:43	08:31
	22:02		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05	07:30-07:31/1	07:52	07:45	08:32
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06		07:54	07:47	08:34
	22:01		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08		07:56	07:48	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41		06:22		07:11	07:36-07:39/3	07:59	07:52	08:37
	21:59		21:18		20:13		19:05	17:06	16:38
11	05:42		06:24		07:13	07:38-07:41/3	08:00	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43		06:25		07:14	07:39-07:41/2	08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44		06:27		07:16	07:41-07:42/1	08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45	06:15-06:19/4	06:29		07:17		08:05	07:59	08:41
	21:56		21:10		20:04		18:56	17:00	16:38
15	05:46	06:16-06:20/4	06:30		07:19		08:07	08:01	08:42
	21:55		21:08		20:02		18:54	16:58	16:38
16	05:47	06:17-06:21/4	06:32		07:20		08:09	08:02	08:43
	21:54		21:06		19:59		18:52	16:57	16:38
17	05:48	06:18-06:21/3	06:33		07:22		08:10	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50	06:19-06:21/2	06:35		07:23		08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51	06:20-06:22/2	06:36		07:25		08:14	08:07	08:45
	21:51		21:00		19:52		18:46	16:53	16:39
20	05:52	06:21-06:22/1	06:38		07:27		08:16	08:09	08:46
	21:50		20:58		19:50		18:44	16:52	16:39
21	05:53		06:39		07:28		08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55		06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56		06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44		07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46		07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47		07:36		07:26	08:18	08:49
	21:42		20:46		19:36		17:32	16:46	16:42
27	06:02		06:49		07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51		07:39		07:29	08:21	08:49
	21:39		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52		07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54		07:43		07:33	08:24	08:49
	21:36		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:22		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	20		2		20		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: SWB_WT02_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:01	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:09	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:12	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56 07:19-07:20/1	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:19/2	05:58	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:53	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42 07:05-07:06/1	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40 07:03-07:05/2	05:48	05:29	05:53	06:39 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41 07:08-07:10/2	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43 07:09-07:10/1	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:03	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:36	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52 07:18-07:20/2	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54 07:20-07:21/1	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	6	0	0	0	7	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Ref B WTG: TEN_WT01 - VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	710	1.313	1.567	877	636	560	8.539

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:04-06:14/10	05:34 06:05-06:23/18	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35 06:04-06:15/11	05:34 06:04-06:23/19	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:03-06:16/13	05:35 06:05-06:23/18	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:02-06:16/14	05:36 06:06-06:24/18	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:02-06:17/15	05:36 06:06-06:23/17	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:17/16	05:37 06:07-06:23/16	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:18/17	05:38 06:08-06:23/15	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32 06:00-06:17/17	05:39 06:09-06:23/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 06:00-06:18/18	05:40 06:10-06:23/13	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:19/19	05:41 06:11-06:23/12	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:01-06:19/18	05:42 06:12-06:23/11	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:00-06:19/19	05:43 06:13-06:22/9	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:00-06:19/19	05:44 06:14-06:22/8	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 06:01-06:19/18	05:45 06:15-06:21/6	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 06:01-06:20/19	05:46 06:16-06:19/3	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 06:01-06:20/19	05:47	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 06:01-06:20/19	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29 06:01-06:20/19	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29 06:02-06:21/19	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 06:02-06:21/19	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30 06:02-06:21/19	05:54	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:03-06:22/19	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:03-06:22/19	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30 06:02-06:22/20	05:58	06:44	07:33	08:23	08:16	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31 06:03-06:22/19	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:03-06:22/19	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31 06:03-06:22/19	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:07-06:08/1	05:32 06:04-06:23/19	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:07-06:12/5	05:32 06:03-06:22/19	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:13/7	05:33 06:04-06:23/19	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:05-06:14/9		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	22	529	197	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

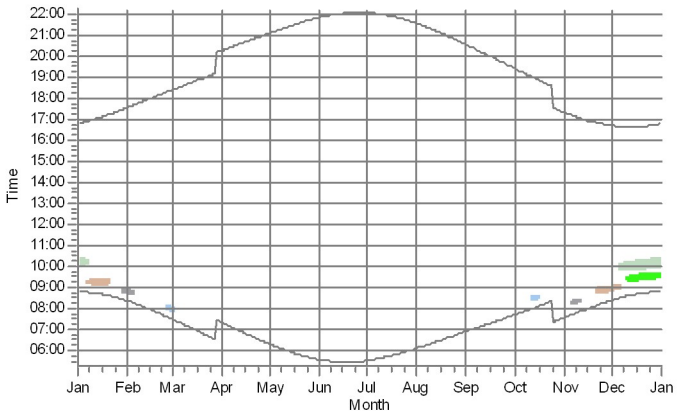
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Calculated:
08/04/2026 22:17/4.1.264

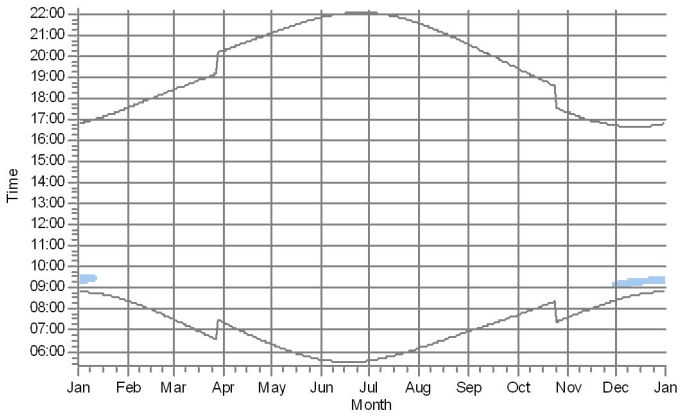
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref B

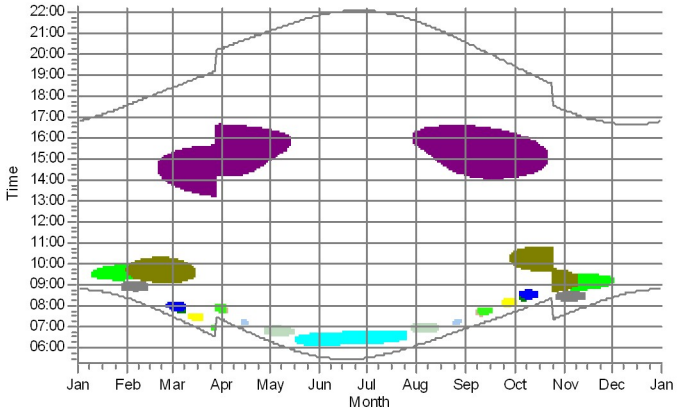
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 1



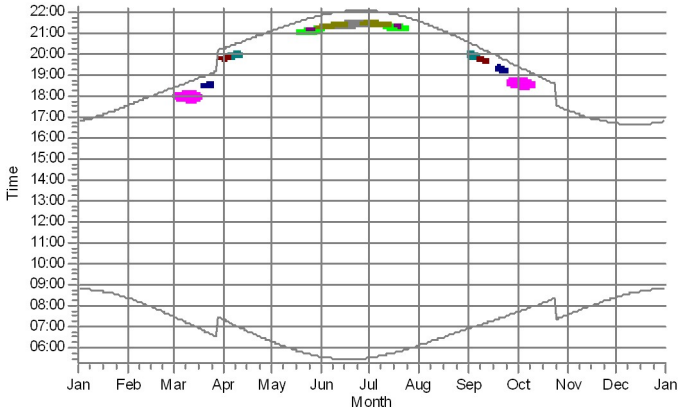
ATS_WT01: NORDEX N149/5.X-pow ercurve 5700 149.0 !O! hub: 156,5 m



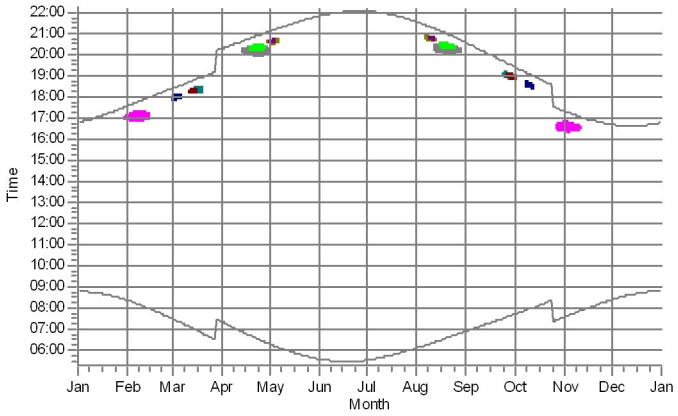
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 r



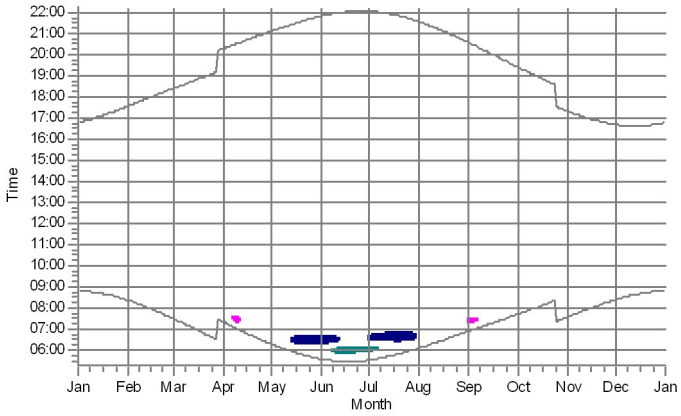
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

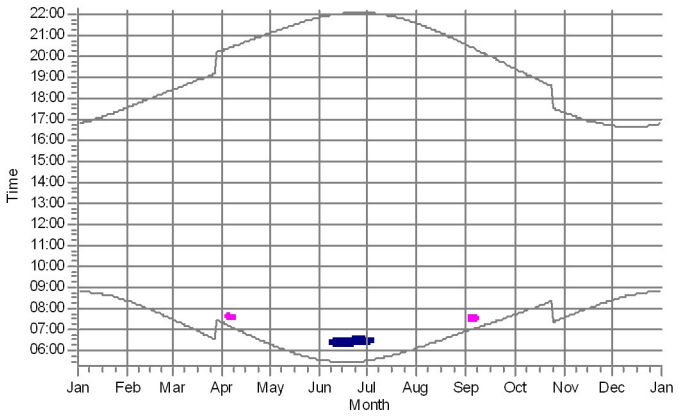
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Calculated:
08/04/2026 22:17/4.1.264

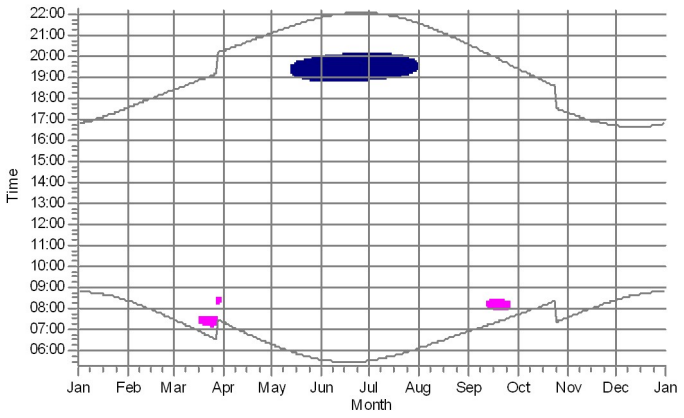
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref B

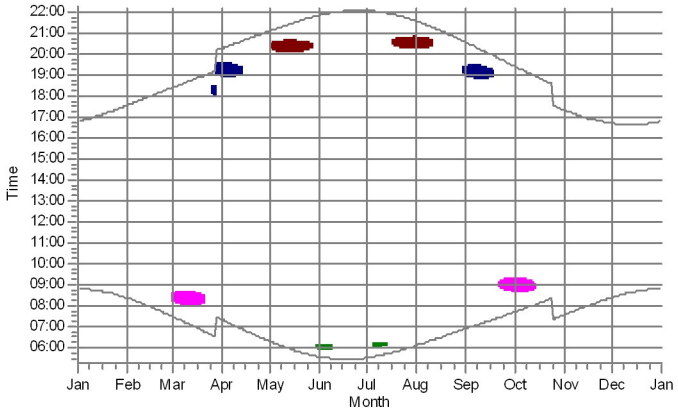
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



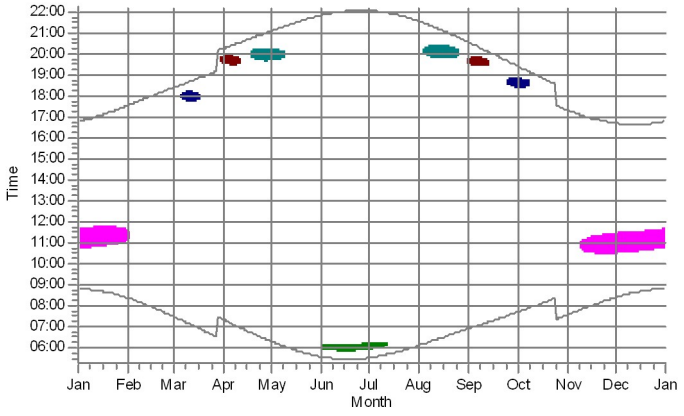
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



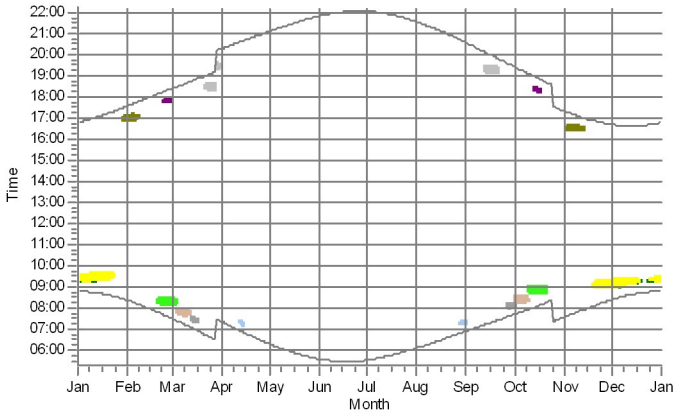
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



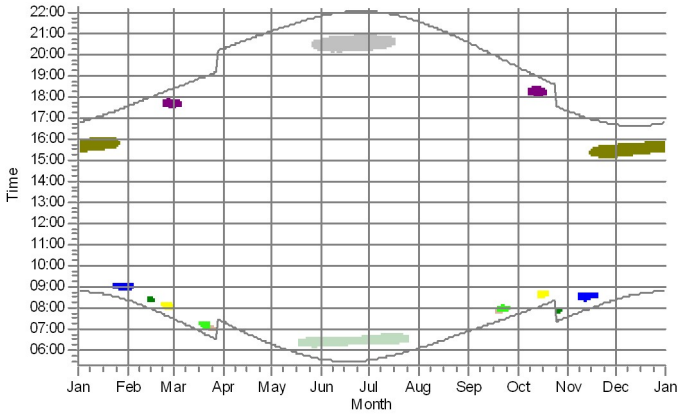
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

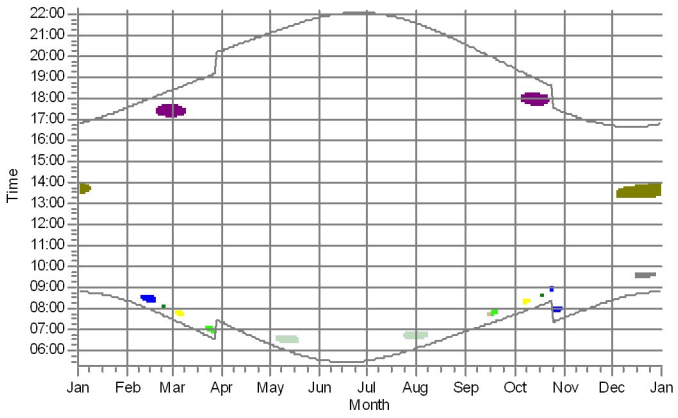
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Calculated:
08/04/2026 22:17/4.1.264

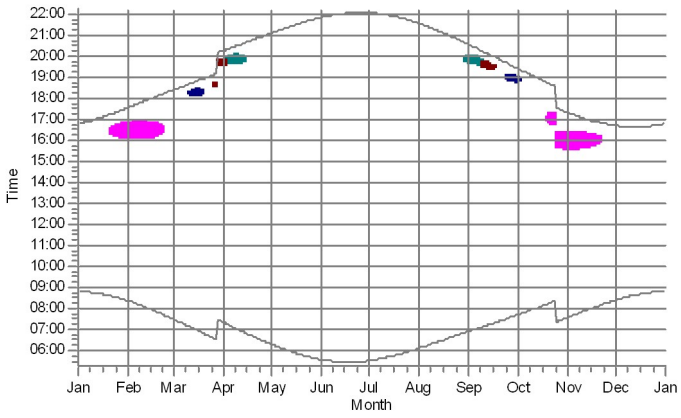
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref B

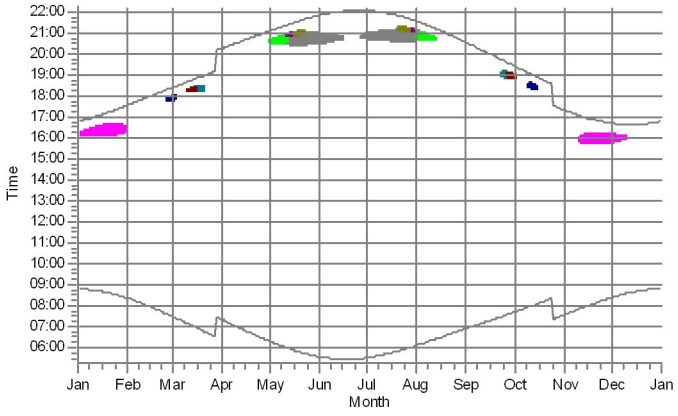
KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



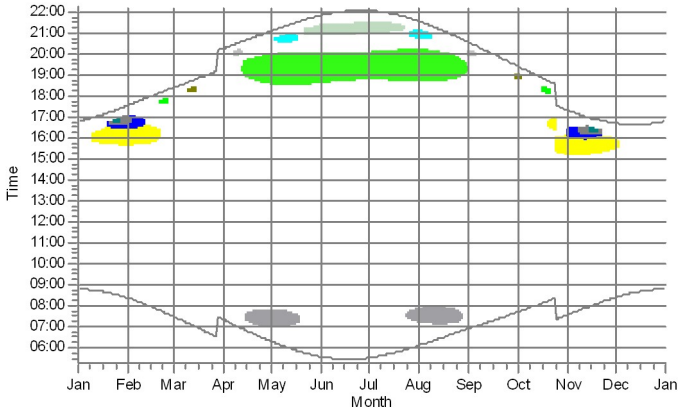
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m



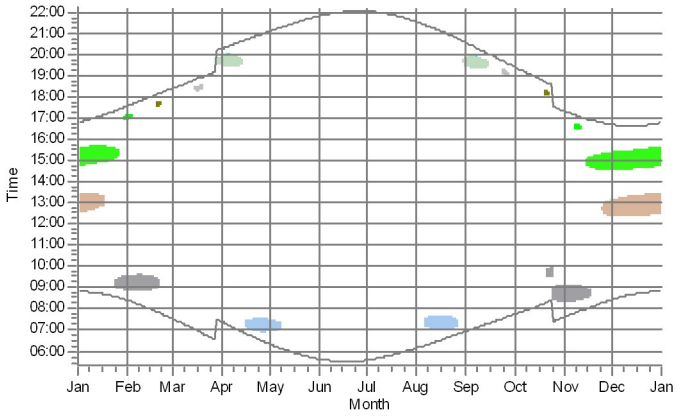
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



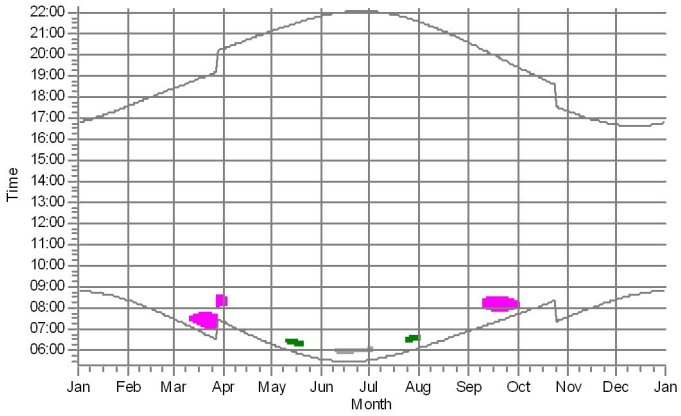
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m



KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



Shadow receptors

1: Hoogstraat 54, 9940 Evergem	7: Christoffel Columbuslaan 23, 9042 Gent	13: Doornzele Dries 107, 9940 Evergem
2: Pachtgoederen 2, 9940 Evergem	8: Christoffel Columbuslaan 17, 9042 Gent	14: Abdijdreef 2, 9940 Evergem
3: Pachtgoederen 2, 9940 Evergem	9: Willem van Rubroeckstraat 2, 9042 Gent	15: Hageland 14, 9940 Evergem
4: James Cookstraat 10, 9042 Gent	10: Willem van Rubroeckstraat 26, 9042 Gent	16: Molendreef 5, 9940 Evergem
5: Pelikaanstraat 60, 9940 Evergem	11: Arbedkaai 3, 9042 Gent	17: Amerigo Vespuccistraat 2A, 9940 Evergem
6: Christoffel Columbuslaan 23, 9042 Gent	12: Terdonkkaai 8, 9042 Gent	18: Pachtgoederen 1, 9940 Evergem

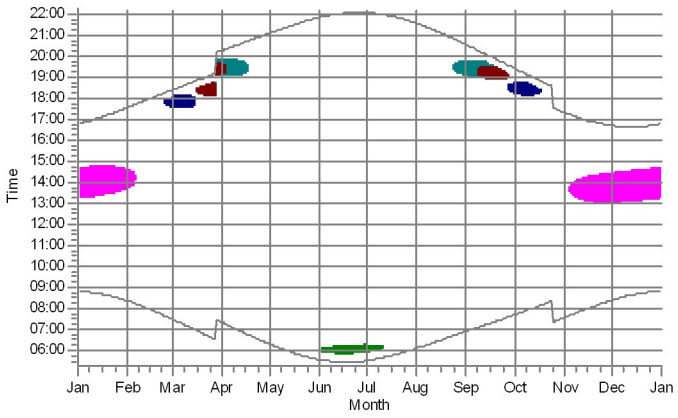
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Calculated:
08/04/2026 22:17/4.1.264

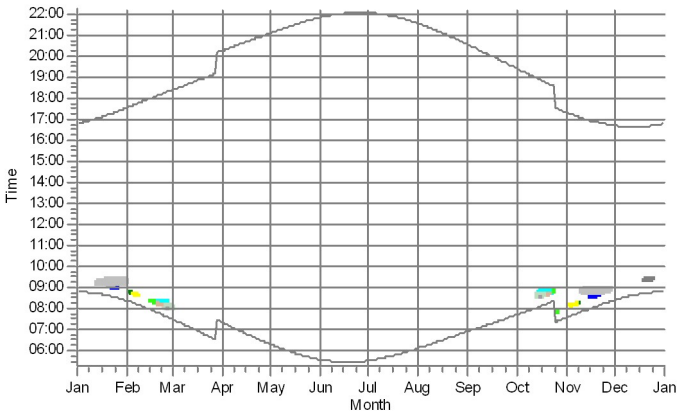
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref B

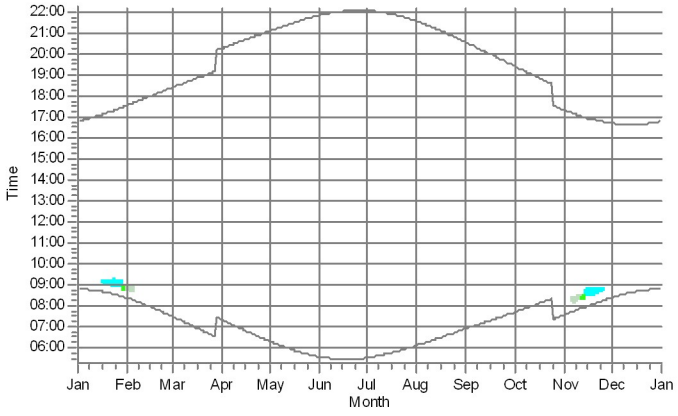
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



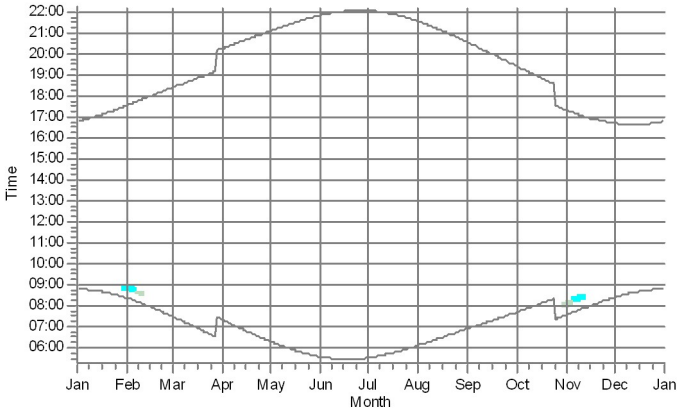
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238



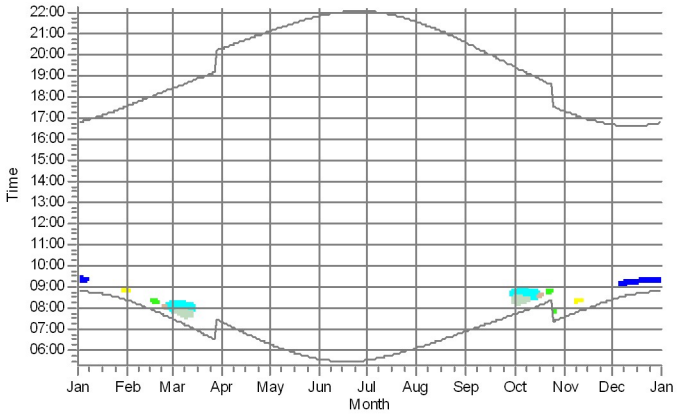
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



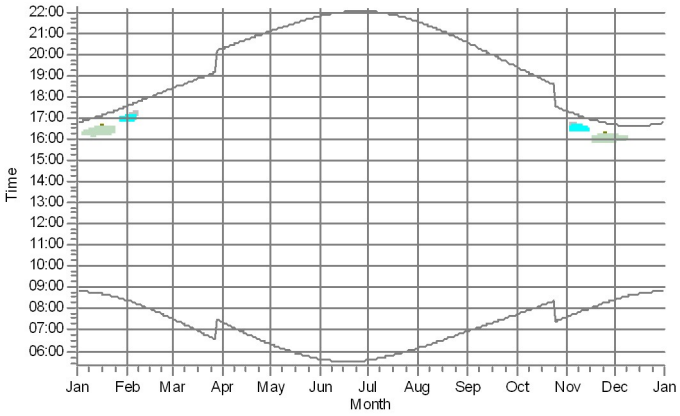
MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 21



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

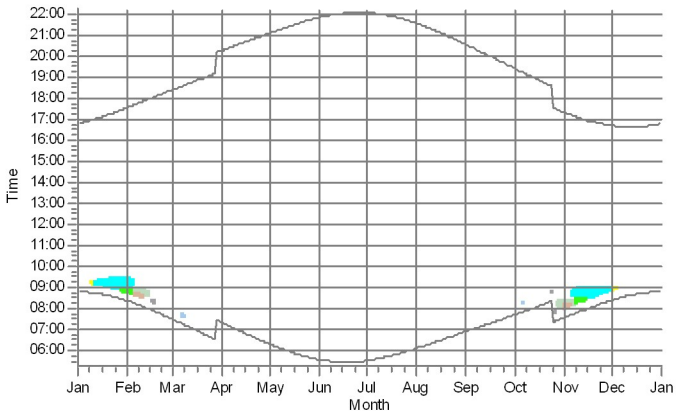
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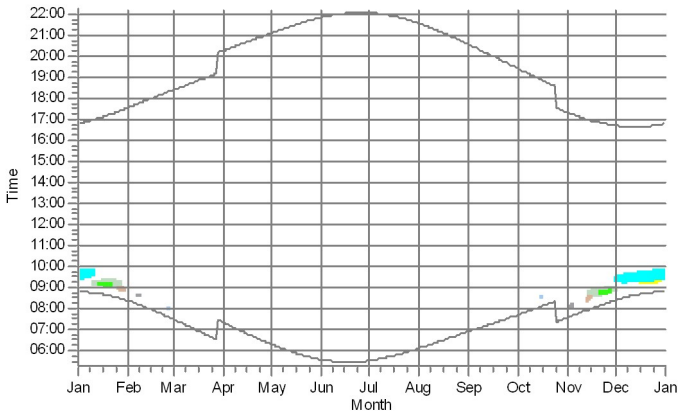
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref B

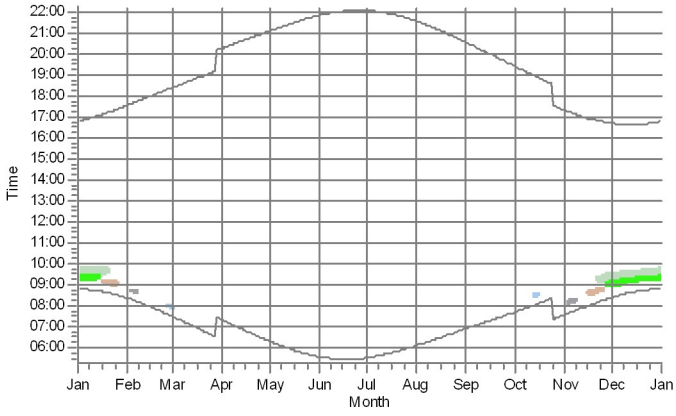
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



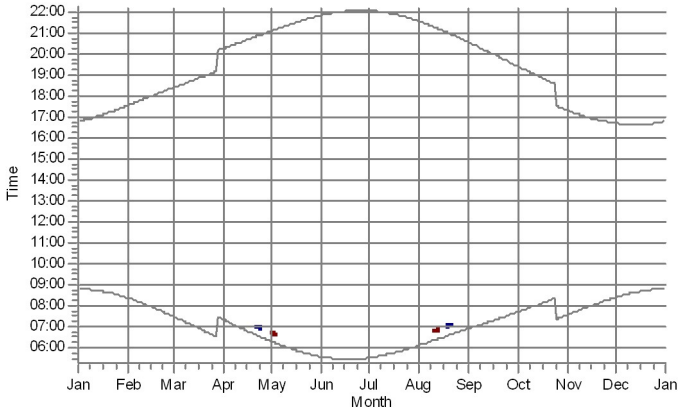
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



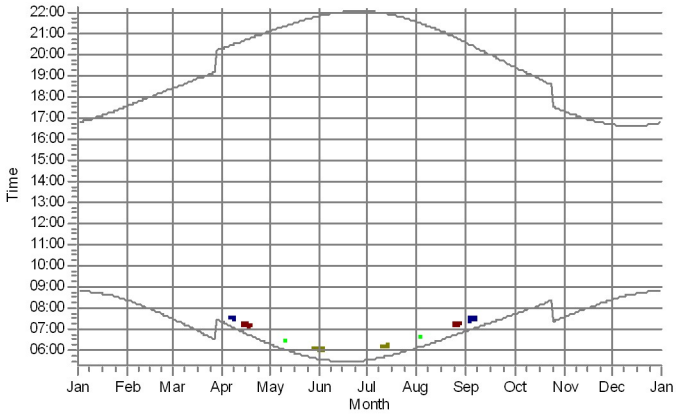
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



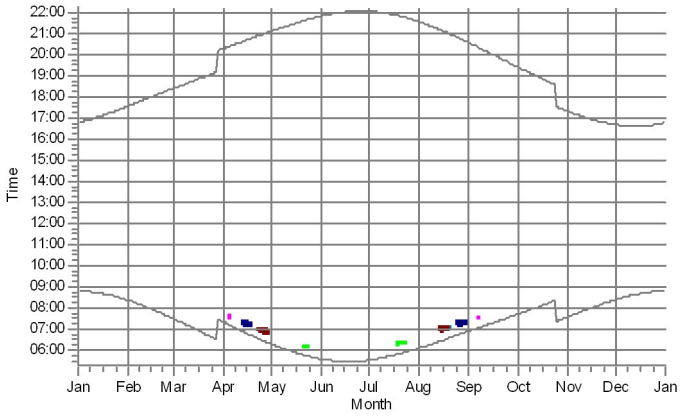
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

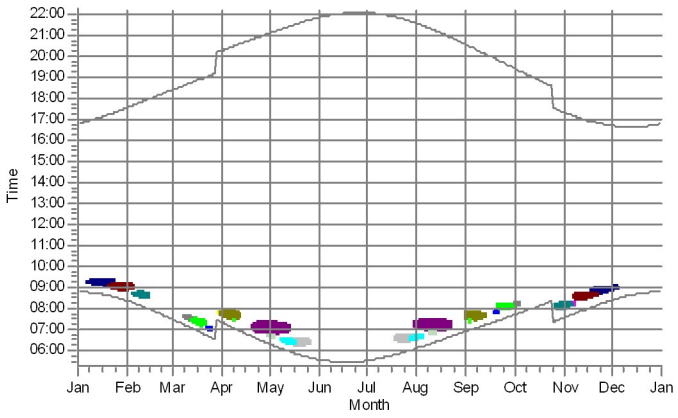
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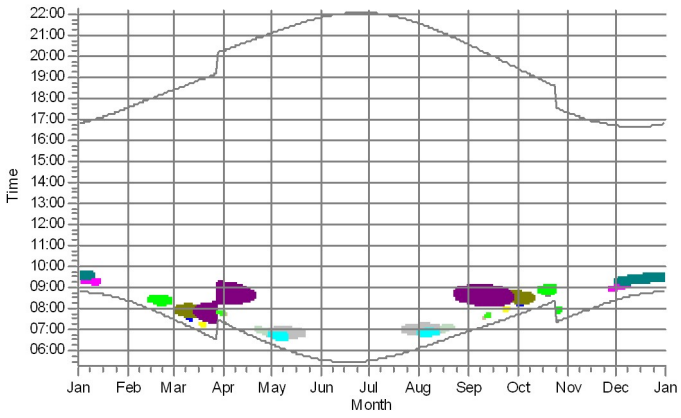
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref B

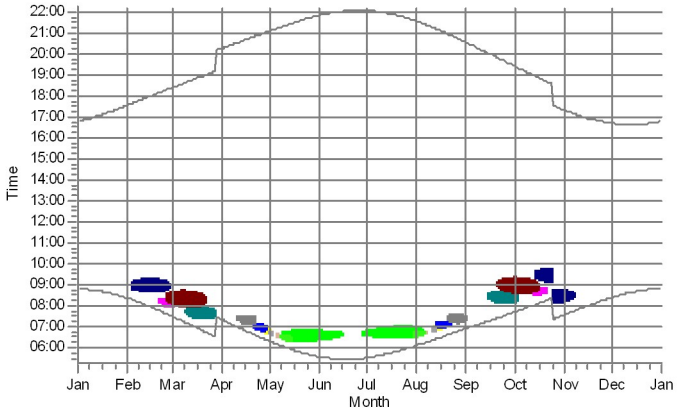
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



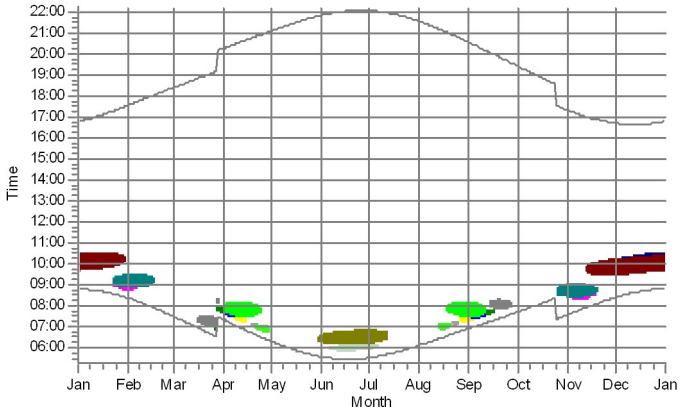
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



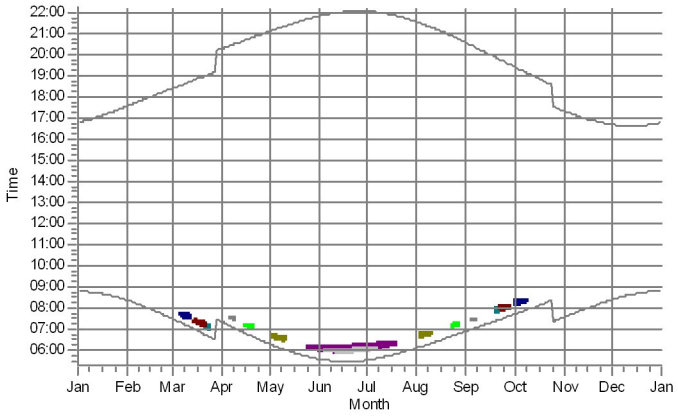
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



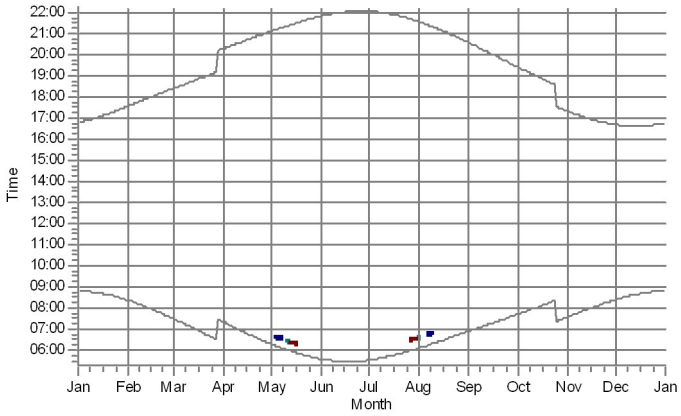
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0



SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
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- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

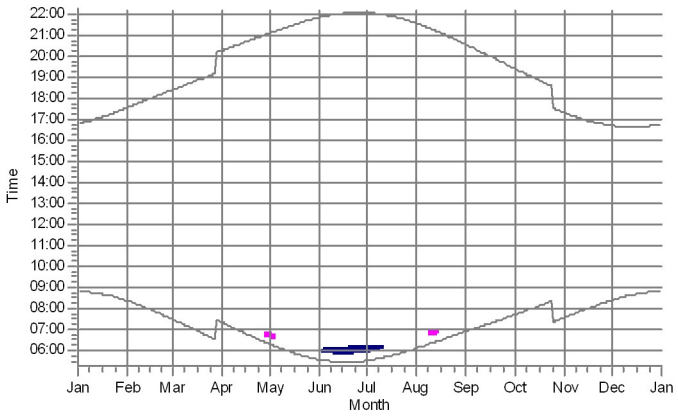
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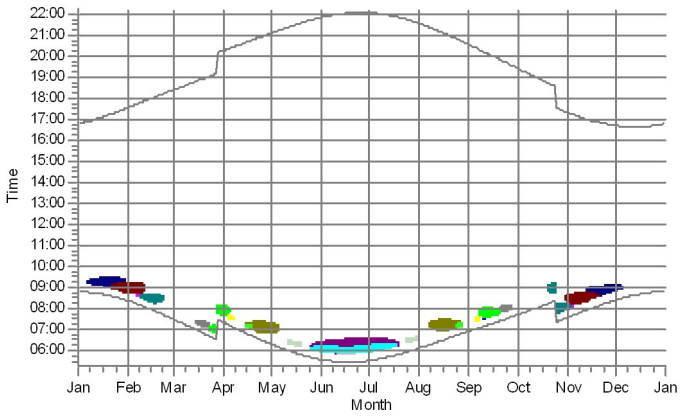
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Ref B

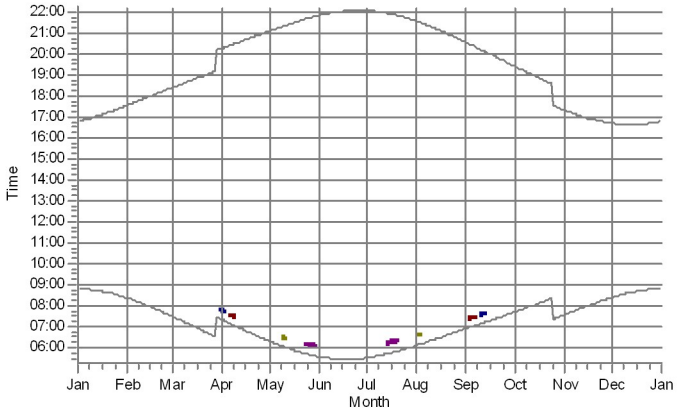
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



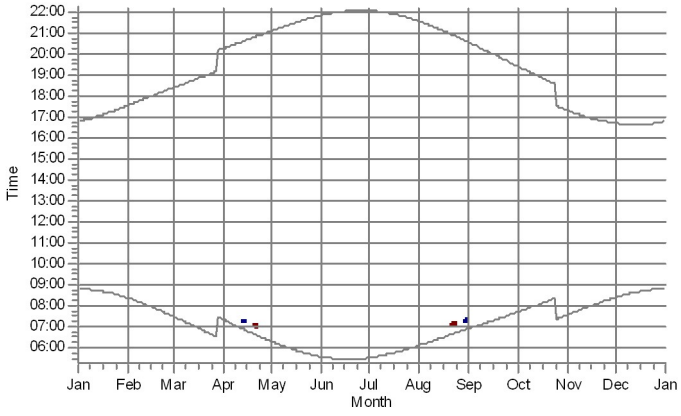
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



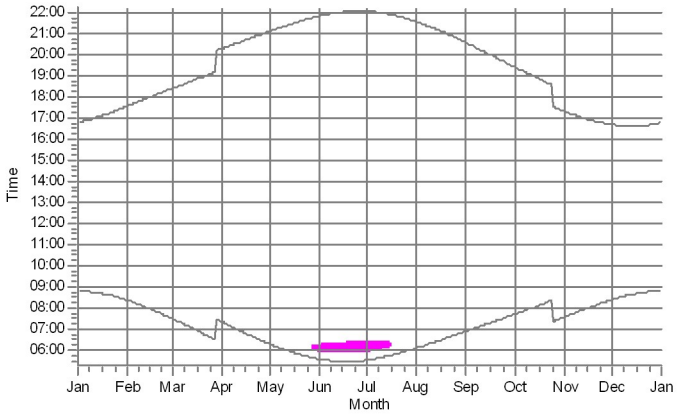
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!



SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!



TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 r



Shadow receptors

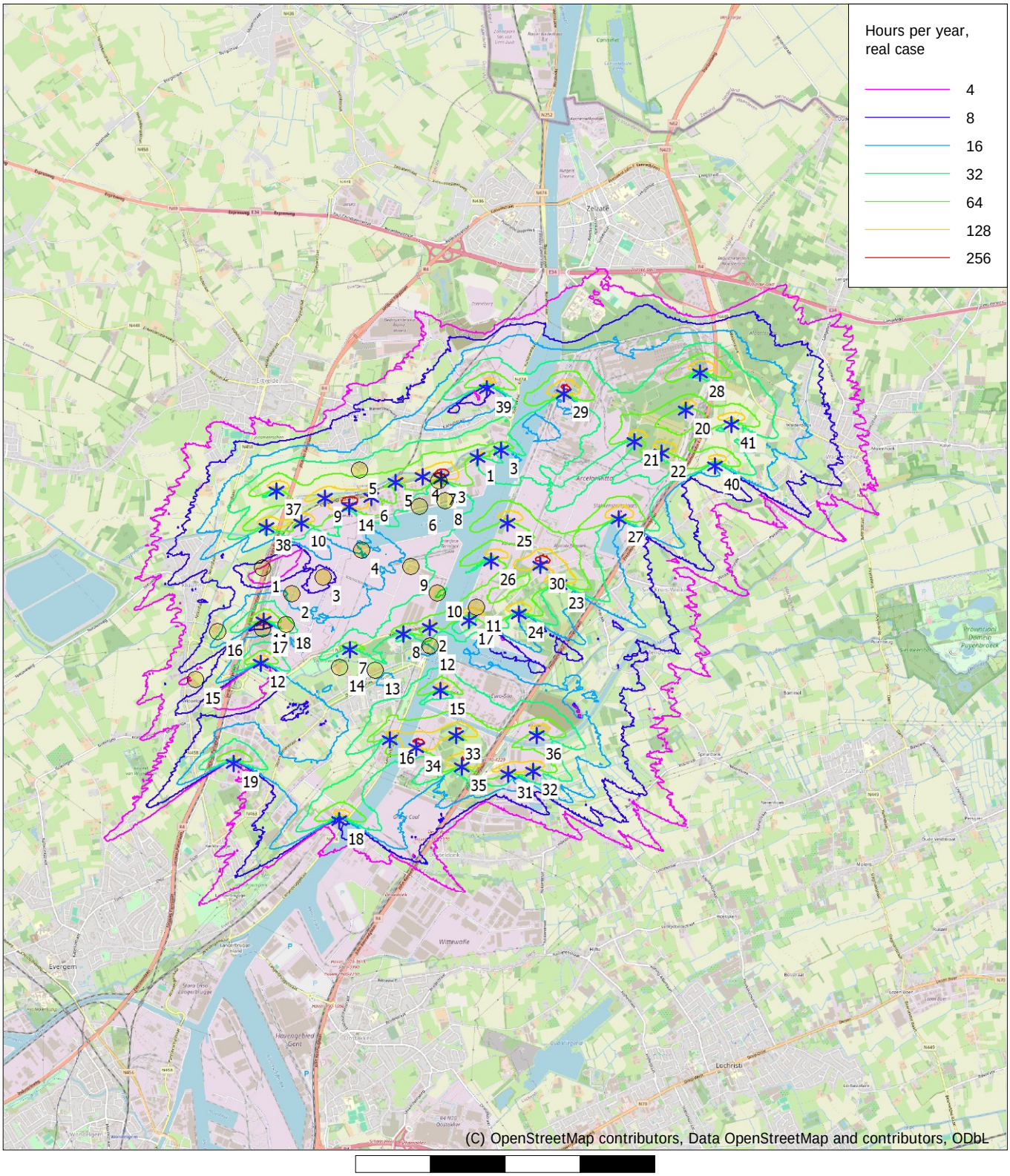
- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

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Calculated:
08/04/2026 22:17/4.1.264

SHADOW - Map

Calculation: Slagschaduw Windpark Armasteel - Ref B



Map: EMD OpenStreetMap , Print scale 1:75.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 109.600 North: 205.160

Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

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Calculated:
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SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

Assumptions for shadow calculations

Maximum distance for influence	No limit
Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

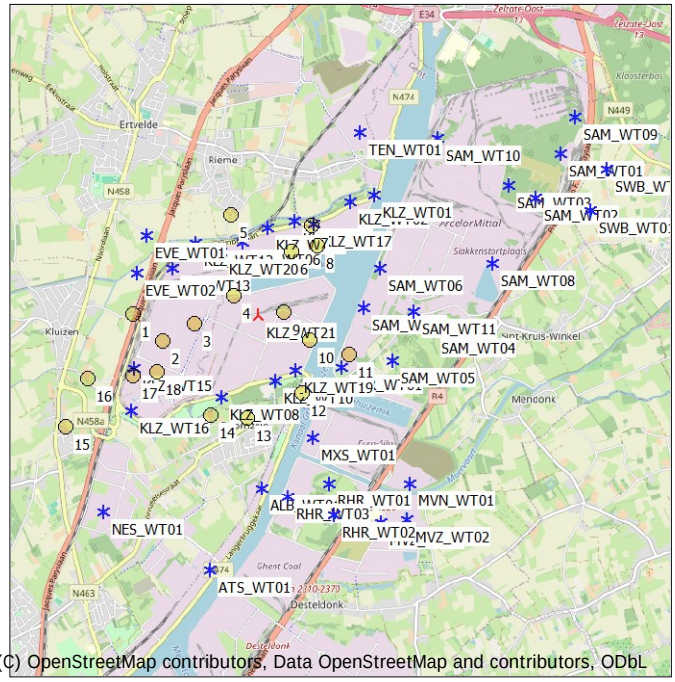
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Monthly aggregation of real case reduction
Idle start wind speed: Cut in wind speed from power curve
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)
Receptor grid resolution: 1,0 m

All coordinates are in
Belgian Lambert72-BD72 (BE 2001 <±1m)



Scale 1:100.000

New WTG | Existing WTG | Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
ALB_WT01	108.129	203.056	6,8	ENERCON E-115 EP3 E...	No	ENERCON	E-115 EP3 E3-4.200	4.200	115,7	135,0	100.000	12,9
ATS_WT01	107.438	201.986	6,5	NORDEX N149/5.X-po...	Yes	NORDEX	N149/5.X-powercurve-5.700	5.700	149,0	156,5	100.000	10,7
CBR_WT01	109.199	204.660	5,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	165,0	100.000	10,4
EVE_WT01	106.632	206.417	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
EVE_WT02	106.491	205.925	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
KLZ_WT01	109.653	206.929	5,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT02	109.337	206.834	6,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT04	108.595	206.585	5,7	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT05	108.233	206.502	6,1	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT06	107.898	206.322	5,5	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT08	107.596	204.270	7,4	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT10	108.320	204.485	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT12	107.283	206.313	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT13	106.963	205.983	6,4	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT15	106.447	204.659	9,6	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT16	106.409	204.106	5,8	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT17	108.845	206.555	5,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT19	108.589	204.627	5,0	VESTAS V168 - FICTIE...	Yes	VESTAS	V168 - FICTIEF-5.600	5.600	168,0	166,0	100.000	-
KLZ_WT20	107.601	206.186	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT21	108.099	205.347	10,0	KLZ_WT21 Armasteel	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	162,5	100.000	-
MVN_WT01	110.103	203.099	14,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	164,0	100.000	10,7
MVZ_WT01	109.715	202.591	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MVZ_WT02	110.052	202.627	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MXS_WT01	108.810	203.720	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
NES_WT01	106.019	202.761	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	147,0	100.000	12,1
RHR_WT01	109.022	203.110	6,7	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT02	109.082	202.694	10,0	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT03	108.481	202.945	6,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
SAM_WT01	112.131	207.449	8,3	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT02	111.799	206.878	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT03	111.438	207.038	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT04	110.414	205.130	10,0	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT05	109.878	204.734	9,9	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT06	109.720	205.956	9,1	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT07	109.509	205.446	5,6	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

...continued from previous page

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
SAM_WT08	111.215	206.006	10,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	123,0	100.000	10,4
SAM_WT09	112.321	207.938	9,4	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	149,0	100.000	-
SAM_WT10	110.490	207.672	5,8	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SAM_WT11	110.164	205.375	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SWB_WT01_RP	112.521	206.699	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
SWB_WT02_RP	112.740	207.253	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
TEN_WT01	109.463	207.750	10,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	165,0	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	James Cookstraat 10, 9042 Gent	107.778	205.604	8,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Pelikaanstraat 60, 9940 Evergem	107.756	206.679	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 17, 9042 Gent	108.899	206.258	5,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Willem van Rubroeckstraat 26, 9042 Gent	108.776	205.017	5,7	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 14, 9940 Evergem	105.526	203.893	6,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow, expected values Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	30:48	194	0:30	7:18
2	Pachtgoederen 2, 9940 Evergem	105:15	245	0:54	22:14
3	Pachtgoederen 2, 9940 Evergem	93:32	235	1:01	22:26
4	James Cookstraat 10, 9042 Gent	250:18	351	1:41	49:04
5	Pelikaanstraat 60, 9940 Evergem	296:36	282	2:30	54:45
6	Christoffel Columbuslaan 23, 9042 Gent	151:13	280	1:05	30:43
7	Christoffel Columbuslaan 23, 9042 Gent	190:20	319	1:37	43:13
8	Christoffel Columbuslaan 17, 9042 Gent	167:49	277	1:14	31:05
9	Willem van Rubroeckstraat 2, 9042 Gent	410:43	336	2:21	104:38
10	Willem van Rubroeckstraat 26, 9042 Gent	394:01	334	2:25	82:46
11	Arbedkaai 3, 9042 Gent	466:45	244	3:57	133:28
12	Terdonkkaai 8, 9042 Gent	68:13	197	0:43	17:06
13	Doornzele Dries 107, 9940 Evergem	96:17	271	0:42	21:43
14	Abdijdreef 2, 9940 Evergem	136:09	300	1:04	30:44
15	Hageland 14, 9940 Evergem	28:51	144	0:28	7:10
16	Molendreef 5, 9940 Evergem	70:39	171	0:57	16:52
17	Amerigo Vespuccistraat 2A, 9940 Evergem	70:01	225	0:50	14:09
18	Pachtgoederen 1, 9940 Evergem	267:21	304	1:44	65:05

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
ALB_WT01	ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)	17:03	2:13
ATS_WT01	NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)	7:12	0:51

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

...continued from previous page

No.	Name	Worst case [h/year]	Expected [h/year]
CBR_WT01	VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)	430:39	115:44
EVE_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)	26:19	6:25
EVE_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)	20:46	4:51
KLZ_WT01	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)	18:12	5:32
KLZ_WT02	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)	7:31	2:15
KLZ_WT04	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)	79:48	19:09
KLZ_WT05	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)	50:48	12:10
KLZ_WT06	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)	89:19	16:19
KLZ_WT08	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)	32:24	5:40
KLZ_WT10	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)	82:36	18:36
KLZ_WT12	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)	48:00	10:25
KLZ_WT13	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)	52:43	11:43
KLZ_WT15	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)	288:02	71:16
KLZ_WT16	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)	132:45	24:33
KLZ_WT17	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)	20:21	4:59
KLZ_WT19	VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)	370:22	75:27
KLZ_WT20	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)	156:49	31:12
KLZ_WT21	KLZ_WT21 Armasteel	691:31	171:03
MVN_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)	17:38	2:38
MVZ_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)	5:06	0:43
MVZ_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)	2:40	0:24
MXS_WT01	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)	19:46	3:42
NES_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)	12:10	2:12
RHR_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)	22:52	3:19
RHR_WT02	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)	19:42	2:28
RHR_WT03	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)	29:02	3:37
SAM_WT01	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)	0:22	0:06
SAM_WT02	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)	1:33	0:27
SAM_WT03	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)	2:47	0:49
SAM_WT04	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)	52:50	12:55
SAM_WT05	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)	105:12	24:27
SAM_WT06	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)	99:16	23:11
SAM_WT07	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)	121:15	24:32
SAM_WT08	VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)	17:56	5:08
SAM_WT09	VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)	0:53	0:16
SAM_WT10	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)	5:34	1:42
SAM_WT11	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)	72:17	17:07
SWB_WT01_RP	VESTAS V150-6.0 6000 150.0 !O!	1:23	0:24
SWB_WT02_RP	VESTAS V150-6.0 6000 150.0 !O!	0:13	0:03
TEN_WT01	VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)	12:28	3:49

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

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SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (KLZ_WT08)	08:24			07:32		07:58 (KLZ_WT19)	07:23		07:48 (SAM_WT07)	06:20			05:36		06:04 (KLZ_WT05)
	16:48	5	09:25 (KLZ_WT08)	17:35			18:25	16	08:14 (KLZ_WT19)	20:17	29	08:17 (KLZ_WT21)	21:06			21:51	2	06:06 (KLZ_WT05)
2	08:50		09:20 (KLZ_WT08)	08:23		08:48 (MVN_WT01)	07:30		07:53 (CBR_WT01)	07:21		07:52 (KLZ_WT21)	06:18			05:36		06:04 (KLZ_WT05)
	16:49	6	09:26 (KLZ_WT08)	17:37	1	08:49 (MVN_WT01)	18:27	15	08:13 (KLZ_WT19)	20:19	24	08:16 (KLZ_WT21)	21:08			21:52	3	06:07 (KLZ_WT05)
3	08:49		09:20 (KLZ_WT08)	08:21		08:46 (MVN_WT01)	07:28		07:51 (CBR_WT01)	07:19		07:52 (KLZ_WT21)	06:17			05:35		06:03 (KLZ_WT05)
	16:50	7	09:27 (KLZ_WT08)	17:38	2	08:48 (MVN_WT01)	18:28	16	08:12 (KLZ_WT19)	20:20	23	08:15 (KLZ_WT21)	21:10			21:53	3	06:06 (KLZ_WT05)
4	08:49		09:19 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (CBR_WT01)	07:17		07:53 (KLZ_WT21)	06:15			05:34		06:02 (KLZ_WT05)
	16:51	7	09:26 (KLZ_WT08)	17:40	1	08:46 (MVN_WT01)	18:30	14	08:10 (KLZ_WT19)	20:22	21	08:14 (KLZ_WT21)	21:11			21:54	4	06:06 (KLZ_WT05)
5	08:49		09:19 (KLZ_WT08)	08:18			07:24		07:47 (CBR_WT01)	07:14		07:54 (KLZ_WT21)	06:13			05:34		06:02 (KLZ_WT05)
	16:53	8	09:27 (KLZ_WT08)	17:42			18:32	8	07:55 (CBR_WT01)	20:24	19	08:13 (KLZ_WT21)	21:13			21:55	5	06:07 (KLZ_WT20)
6	08:49		09:18 (KLZ_WT08)	08:16			07:22		07:44 (CBR_WT01)	07:12		07:55 (KLZ_WT21)	06:11			05:33		06:01 (KLZ_WT05)
	16:54	9	09:27 (KLZ_WT08)	17:44			18:33	10	07:54 (CBR_WT01)	20:25	15	08:10 (KLZ_WT21)	21:14			21:56	6	06:07 (KLZ_WT20)
7	08:48		09:18 (KLZ_WT08)	08:15			07:19		07:43 (CBR_WT01)	07:10		07:57 (KLZ_WT21)	06:09			05:32		06:01 (KLZ_WT05)
	16:55	10	09:28 (KLZ_WT08)	17:46			18:35	10	07:53 (CBR_WT01)	20:27	10	08:07 (KLZ_WT21)	21:16			21:57	7	06:08 (KLZ_WT20)
8	08:48		09:17 (KLZ_WT08)	08:13			07:17		07:45 (CBR_WT01)	07:08			06:08			05:32		06:01 (KLZ_WT06)
	16:56	11	09:28 (KLZ_WT08)	17:47			18:37	6	07:51 (CBR_WT01)	20:29			21:18			21:57	9	06:10 (KLZ_WT20)
9	08:48		09:18 (KLZ_WT08)	08:11			07:15			07:06			06:06			05:31		06:00 (KLZ_WT06)
	16:58	11	09:29 (KLZ_WT08)	17:49			18:39			20:30			21:19			21:58	9	06:09 (KLZ_WT20)
10	08:47		09:18 (KLZ_WT08)	08:09			07:13		07:35 (SAM_WT05)	07:03			06:04			05:31		06:00 (KLZ_WT06)
	16:59	11	09:29 (KLZ_WT08)	17:51			18:40	1	07:36 (SAM_WT05)	20:32			21:21			21:59	10	06:10 (KLZ_WT20)
11	08:47		09:15 (RHR_WT01)	08:08			07:11		07:33 (SAM_WT05)	07:01		07:24 (SAM_WT06)	06:03		06:28 (KLZ_WT17)	05:31		06:00 (KLZ_WT06)
	17:00	12	09:29 (KLZ_WT08)	17:53			18:42	2	07:35 (SAM_WT05)	20:34	1	07:25 (SAM_WT06)	21:22	1	06:29 (KLZ_WT17)	22:00	11	06:11 (KLZ_WT20)
12	08:46		09:15 (RHR_WT01)	08:06			07:08			06:59		07:21 (SAM_WT06)	06:01		06:26 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:02	11	09:29 (KLZ_WT08)	17:55			18:44			20:35	3	07:24 (SAM_WT06)	21:24	3	06:29 (KLZ_WT17)	22:00	12	06:11 (KLZ_WT20)
13	08:45		09:14 (RHR_WT01)	08:04			07:06			06:57		07:19 (SAM_WT06)	06:00		06:25 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:03	10	09:29 (KLZ_WT08)	17:56			18:45			20:37	5	07:24 (SAM_WT06)	21:25	4	06:29 (KLZ_WT17)	22:01	12	06:11 (KLZ_WT20)
14	08:45		09:13 (RHR_WT01)	08:02		08:26 (KLZ_WT10)	07:04			06:55		07:17 (SAM_WT06)	05:58		06:23 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:05	8	09:28 (KLZ_WT08)	17:58	2	08:28 (KLZ_WT10)	18:47			20:39	6	07:23 (SAM_WT06)	21:27	5	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
15	08:44			08:00		08:24 (KLZ_WT10)	07:02			06:53		07:15 (SAM_WT06)	05:56		06:22 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:06			18:00	3	08:27 (KLZ_WT10)	18:49			20:40	6	07:21 (SAM_WT06)	21:28	6	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
16	08:43			07:58		08:22 (KLZ_WT10)	06:59			06:50			05:55		06:21 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:08			18:02	4	08:26 (KLZ_WT10)	18:51			20:42			21:30	7	06:28 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
17	08:42			07:57			06:57			06:48			05:54		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:09			18:04			18:52			20:43			21:31	8	06:27 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
18	08:41			07:55			06:55			06:46			05:52		06:18 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:11			18:05			18:54			20:45			21:33	8	06:26 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
19	08:40			07:53			06:53			06:44			05:51		06:17 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:12			18:07			18:56			20:47			21:34	8	06:25 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
20	08:39			07:51			06:50			06:42			05:49		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:14			18:09			18:57			20:48			21:35	5	06:24 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
21	08:38			07:49			06:48			06:40			05:48			05:30		05:59 (KLZ_WT06)
	17:16			18:11			18:59			20:50			21:37			22:04	15	06:14 (KLZ_WT20)
22	08:37			07:47		08:10 (KLZ_WT19)	06:46			06:38			05:47			05:30		06:00 (KLZ_WT06)
	17:17			18:12	2	08:12 (KLZ_WT19)	19:01			20:52			21:38			22:05	14	06:14 (KLZ_WT20)
23	08:36			07:45		08:08 (KLZ_WT19)	06:44		07:06 (KLZ_WT21)	06:36			05:46			05:30		06:00 (KLZ_WT06)
	17:19			18:14	6	08:14 (KLZ_WT19)	19:02	4	07:10 (KLZ_WT21)	20:53			21:40			22:05	14	06:14 (KLZ_WT20)
24	08:35			07:43		08:06 (KLZ_WT19)	06:41		07:04 (KLZ_WT21)	06:34			05:44			05:31		06:00 (KLZ_WT06)
	17:21			18:16	9	08:15 (KLZ_WT19)	19:04	10	07:14 (KLZ_WT21)	20:55			21:41			22:05	14	06:14 (KLZ_WT20)
25	08:34			07:41		08:04 (KLZ_WT19)	06:39		07:01 (KLZ_WT21)	06:32			05:43			05:31		06:01 (KLZ_WT06)
	17:22			18:18	11	08:15 (KLZ_WT19)	19:06	14	07:15 (KLZ_WT21)	20:57			21:42			22:05	14	06:15 (KLZ_WT20)
26	08:32			07:39		08:02 (KLZ_WT19)	06:37		06:59 (KLZ_WT21)	06:30			05:42			05:31		06:01 (KLZ_WT06)
	17:24			18:20	14	08:16 (KLZ_WT19)	19:07	17	07:16 (KLZ_WT21)	20:58			21:43			22:05	14	06:15 (KLZ_WT20)
27	08:31			07:36		08:00 (KLZ_WT19)	06:35		06:57 (KLZ_WT21)	06:28			05:41			05:32		06:02 (KLZ_WT06)
	17:26			18:21	16	08:16 (KLZ_WT19)	19:09	20	07:17 (KLZ_WT21)	21:00			21:45			22:05	13	06:15 (KLZ_WT20)
28	08:30			07:34		07:57 (KLZ_WT19)	06:32		06:55 (SAM_WT07)	06:26			05:40			05:32		06:02 (KLZ_WT06)
	17:28			18:23	18	08:15 (KLZ_WT19)	19:10	23	07:18 (KLZ_WT21)	21:01			21:46			22:05	13	06:15 (KLZ_WT20)
29	08:28						07:30		07:52 (SAM_WT07)	06:24			05:39			05:33		06:03 (KLZ_WT06)
	17:29						20:12	25	08:17 (KLZ_WT21)	21:03			21:47			22:05	13	06:16 (KLZ_WT20)
30	08:27						07:28		07:50 (SAM_WT07)	06:22			05:38			05:33		06:03 (KLZ_WT06)
	17:31						20:14	27	08:17 (KLZ_WT21)	21:05			21:48			22:05	12	06:15 (KLZ_WT20)
31	08:26						07:26		07:48 (SAM_WT07)				05:37		06:05 (KLZ_WT05)			
	17:33						20:15	29	08:17 (KLZ_WT21)				21:49	1	06:06 (KLZ_WT05)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		126			89			267			162			56			325	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,55			0,60			0,62			0,70			0,71	
Total reduction		0,13			0,16			0,22			0,28			0,31			0,31	
Total, real		16			14			59			45			17			100	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT06)	06:09		06:37 (KLZ_WT17)	06:57		07:23 (SAM_WT06)	07:45			07:37			08:26		08:57 (RHR_WT01)
	22:04	11	06:15 (KLZ_WT20)	21:34	2	06:39 (KLZ_WT17)	20:33	1	07:24 (SAM_WT06)	19:25			17:21			16:42	12	09:11 (KLZ_WT08)
2	05:35		06:04 (KLZ_WT06)	06:11			06:59			07:46		08:11 (SAM_WT05)	07:38			08:27		09:01 (KLZ_WT08)
	22:04	11	06:15 (KLZ_WT20)	21:32			20:31			19:23	2	08:13 (SAM_WT05)	17:19			16:42	11	09:12 (KLZ_WT08)
3	05:35		06:05 (KLZ_WT06)	06:12			07:00			07:48		08:12 (SAM_WT05)	07:40			08:29		09:01 (KLZ_WT08)
	22:04	10	06:15 (KLZ_WT20)	21:30			20:29			19:21	2	08:14 (SAM_WT05)	17:17			16:41	11	09:12 (KLZ_WT08)
4	05:36		06:06 (KLZ_WT06)	06:14			07:02			07:49			07:42			08:30		09:02 (KLZ_WT08)
	22:03	9	06:15 (KLZ_WT20)	21:29			20:27			19:19			17:16			16:40	11	09:13 (KLZ_WT08)
5	05:37		06:07 (KLZ_WT05)	06:15			07:03		07:54 (KLZ_WT21)	07:51		08:23 (CBR_WT01)	07:44			08:31		09:03 (KLZ_WT08)
	22:03	8	06:15 (KLZ_WT20)	21:27			20:24	10	08:04 (KLZ_WT21)	19:17	4	08:27 (CBR_WT01)	17:14			16:40	10	09:13 (KLZ_WT08)
6	05:38		06:07 (KLZ_WT05)	06:17			07:05		07:51 (KLZ_WT21)	07:53		08:20 (CBR_WT01)	07:45			08:33		09:04 (KLZ_WT08)
	22:02	7	06:14 (KLZ_WT20)	21:25			20:22	15	08:06 (KLZ_WT21)	19:14	8	08:28 (CBR_WT01)	17:12			16:40	9	09:13 (KLZ_WT08)
7	05:38		06:08 (KLZ_WT05)	06:18			07:07		07:49 (KLZ_WT21)	07:54		08:19 (CBR_WT01)	07:47		08:15 (MVN_WT01)	08:34		09:06 (KLZ_WT08)
	22:02	6	06:14 (KLZ_WT20)	21:24			20:20	19	08:08 (KLZ_WT21)	19:12	11	08:30 (CBR_WT01)	17:11	2	08:17 (MVN_WT01)	16:39	8	09:14 (KLZ_WT08)
8	05:39		06:09 (KLZ_WT05)	06:20			07:08		07:47 (KLZ_WT21)	07:56		08:21 (CBR_WT01)	07:49		08:17 (MVN_WT01)	08:35		09:07 (KLZ_WT08)
	22:01	4	06:13 (KLZ_WT05)	21:22			20:18	21	08:08 (KLZ_WT21)	19:10	9	08:30 (CBR_WT01)	17:09	2	08:19 (MVN_WT01)	16:39	8	09:15 (KLZ_WT08)
9	05:40		06:10 (KLZ_WT05)	06:21			07:10		07:47 (KLZ_WT21)	07:58		08:22 (CBR_WT01)	07:51			08:36		09:08 (KLZ_WT08)
	22:00	3	06:13 (KLZ_WT05)	21:20			20:16	22	08:09 (KLZ_WT21)	19:08	10	08:41 (KLZ_WT19)	17:07			16:39	7	09:15 (KLZ_WT08)
10	05:41		06:11 (KLZ_WT05)	06:23			07:11		07:45 (KLZ_WT21)	07:59		08:24 (CBR_WT01)	07:52			08:37		09:09 (KLZ_WT08)
	22:00	3	06:14 (KLZ_WT05)	21:18			20:13	24	08:09 (KLZ_WT21)	19:05	15	08:45 (KLZ_WT19)	17:06			16:38	6	09:15 (KLZ_WT08)
11	05:42		06:12 (KLZ_WT05)	06:24			07:13		07:40 (SAM_WT07)	08:01		08:26 (CBR_WT01)	07:54			08:38		09:10 (KLZ_WT08)
	21:59	2	06:14 (KLZ_WT05)	21:16			20:11	29	08:09 (KLZ_WT21)	19:03	17	08:47 (KLZ_WT19)	17:04			16:38	5	09:15 (KLZ_WT08)
12	05:43		06:13 (KLZ_WT05)	06:26			07:14		07:39 (SAM_WT07)	08:02		08:32 (KLZ_WT19)	07:56			08:39		09:11 (KLZ_WT08)
	21:58	2	06:15 (KLZ_WT05)	21:14			20:09	30	08:09 (KLZ_WT21)	19:01	16	08:48 (KLZ_WT19)	17:03			16:38	4	09:15 (KLZ_WT08)
13	05:44		06:14 (KLZ_WT05)	06:27			07:16		07:41 (SAM_WT07)	08:04		08:31 (KLZ_WT19)	07:57			08:40		09:12 (KLZ_WT08)
	21:57	1	06:15 (KLZ_WT05)	21:13			20:06	28	08:09 (KLZ_WT21)	18:59	17	08:48 (KLZ_WT19)	17:01			16:38	4	09:16 (KLZ_WT08)
14	05:45			06:29			07:18		07:42 (SAM_WT07)	08:06		08:31 (KLZ_WT19)	07:59			08:41		09:13 (KLZ_WT08)
	21:57			21:11			20:04	26	08:08 (KLZ_WT21)	18:57	17	08:48 (KLZ_WT19)	17:00			16:38	3	09:16 (KLZ_WT08)
15	05:47			06:30			07:19		07:44 (SAM_WT07)	08:07		08:33 (KLZ_WT19)	08:01			08:42		09:14 (KLZ_WT08)
	21:56			21:09			20:02	23	08:07 (KLZ_WT21)	18:55	15	08:48 (KLZ_WT19)	16:59			16:38	2	09:16 (KLZ_WT08)
16	05:48			06:32			07:21		07:45 (SAM_WT07)	08:09		08:35 (KLZ_WT19)	08:03			08:43		09:15 (KLZ_WT08)
	21:55			21:07			20:00	21	08:06 (KLZ_WT21)	18:53	13	08:48 (KLZ_WT19)	16:57			16:38	2	09:17 (KLZ_WT08)
17	05:49			06:34			07:22		07:47 (KLZ_WT21)	08:11		08:36 (KLZ_WT19)	08:04			08:44		09:16 (KLZ_WT08)
	21:54			21:05			19:57	18	08:05 (KLZ_WT21)	18:50	10	08:46 (KLZ_WT19)	16:56			16:39	1	09:17 (KLZ_WT08)
18	05:50			06:35			07:24		07:49 (KLZ_WT21)	08:13		08:38 (KLZ_WT19)	08:06			08:45		09:16 (KLZ_WT08)
	21:53			21:03			19:55	15	08:04 (KLZ_WT21)	18:48	8	08:46 (KLZ_WT19)	16:55			16:39	1	09:17 (KLZ_WT08)
19	05:51			06:37			07:25		07:50 (KLZ_WT21)	08:14		08:40 (KLZ_WT19)	08:08			08:45		09:17 (KLZ_WT08)
	21:51			21:01			19:53	11	08:01 (KLZ_WT21)	18:46	5	08:45 (KLZ_WT19)	16:53			16:39	1	09:18 (KLZ_WT08)
20	05:53			06:38			07:27		07:52 (KLZ_WT21)	08:16			08:09			08:46		
	21:50			20:59			19:50	6	07:58 (KLZ_WT21)	18:44			16:52			16:39		
21	05:54			06:40			07:29			08:18			08:11			08:47		
	21:49			20:57			19:48			18:42			16:51			16:40		
22	05:55			06:41			07:30			08:19			08:12			08:47		
	21:48			20:55			19:46			18:40			16:50			16:40		
23	05:56			06:43			07:32			08:21			08:14			08:48		
	21:47			20:53			19:44			18:38			16:49			16:41		
24	05:58		06:29 (KLZ_WT17)	06:45			07:33			08:23			08:16			08:48		09:19 (KLZ_WT08)
	21:45	6	06:35 (KLZ_WT17)	20:51			19:41			18:36			16:48			16:41	1	09:20 (KLZ_WT08)
25	05:59		06:28 (KLZ_WT17)	06:46			07:35			07:24			08:17			08:48		09:20 (KLZ_WT08)
	21:44	8	06:36 (KLZ_WT17)	20:48			19:39			17:34			16:47			16:42	1	09:21 (KLZ_WT08)
26	06:01		06:29 (KLZ_WT17)	06:48			07:37			07:26		07:53 (KLZ_WT10)	08:19			08:49		09:20 (KLZ_WT08)
	21:43	8	06:37 (KLZ_WT17)	20:46			19:37			17:32	4	07:57 (KLZ_WT10)	16:46			16:43	1	09:21 (KLZ_WT08)
27	06:02		06:30 (KLZ_WT17)	06:49			07:38			07:28		07:54 (KLZ_WT10)	08:20			08:49		09:20 (KLZ_WT08)
	21:41	8	06:38 (KLZ_WT17)	20:44			19:35			17:30	3	07:57 (KLZ_WT10)	16:45			16:43	2	09:22 (KLZ_WT08)
28	06:03		06:32 (KLZ_WT17)	06:51		07:17 (SAM_WT06)	07:40			07:30		07:56 (KLZ_WT10)	08:22		08:53 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:40	7	06:39 (KLZ_WT17)	20:42	6	07:23 (SAM_WT06)	19:32			17:28	2	07:58 (KLZ_WT10)	16:44	8	09:08 (KLZ_WT08)	16:44	2	09:22 (KLZ_WT08)
29	06:05		06:33 (KLZ_WT17)	06:52		07:18 (SAM_WT06)	07:41			07:31			08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	6	06:39 (KLZ_WT17)	20:40	6	07:24 (SAM_WT06)	19:30			17:27			16:44	10	09:09 (KLZ_WT08)	16:45	3	09:23 (KLZ_WT08)
30	06:06		06:34 (KLZ_WT17)	06:54		07:20 (SAM_WT06)	07:43			07:33			08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	5	06:39 (KLZ_WT17)	20:38	5	07:25 (SAM_WT06)	19:28			17:25			16:43	11	09:10 (KLZ_WT08)	16:46	3	09:23 (KLZ_WT08)
31	06:08		06:36 (KLZ_WT17)	06:56		07:21 (SAM_WT06)				07:35						08:50		09:20 (KLZ_WT08)
	21:35	3	06:39 (KLZ_WT17)	20:36	3	07:24 (SAM_WT06)				17:23						16:47	4	09:24 (KLZ_WT08)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		128			22			319			188			33			133	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,65			0,62			0,55			0,53			0,53	
Total reduction		0,31			0,29			0,26			0,20			0,14			0,12	
Total, real		39			6			83			37			5			15	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June	
1	08:50		09:20 (KLZ_WT08)	08:24		08:50 (MXS_WT01)	07:32			07:23			06:20		06:47 (SAM_WT06)	05:36	
	16:48	11	09:31 (KLZ_WT08)	17:35	53	16:35 (KLZ_WT15)	18:25			20:17			21:06	39	07:28 (KLZ_WT21)	21:51	
2	08:50		09:21 (KLZ_WT08)	08:23		08:48 (MXS_WT01)	07:30			07:21			06:18		06:55 (KLZ_WT21)	05:36	
	16:49	11	09:32 (KLZ_WT08)	17:36	53	16:35 (KLZ_WT15)	18:27			20:19			21:08	32	07:27 (KLZ_WT21)	21:52	
3	08:49		09:21 (KLZ_WT08)	08:21		15:46 (KLZ_WT15)	07:28			07:19			06:17		06:56 (KLZ_WT21)	05:35	
	16:50	12	09:33 (KLZ_WT08)	17:38	49	16:35 (KLZ_WT15)	18:28			20:20			21:10	32	07:28 (KLZ_WT21)	21:53	
4	08:49		09:20 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26			07:17			06:15		06:56 (KLZ_WT21)	05:34	
	16:51	13	09:33 (KLZ_WT08)	17:40	50	16:36 (KLZ_WT15)	18:30			20:22			21:11	31	07:27 (KLZ_WT21)	21:54	
5	08:49		09:20 (KLZ_WT08)	08:18		08:43 (MVN_WT01)	07:24		07:46 (KLZ_WT19)	07:14		07:37 (SAM_WT11)	06:13		06:56 (KLZ_WT21)	05:34	
	16:53	14	09:34 (KLZ_WT08)	17:42	51	16:35 (KLZ_WT15)	18:32	4	07:50 (KLZ_WT19)	20:24	1	07:38 (SAM_WT11)	21:13	30	07:26 (KLZ_WT21)	21:55	
6	08:49		09:20 (KLZ_WT08)	08:16		08:41 (MVN_WT01)	07:21		07:44 (KLZ_WT19)	07:12		07:34 (SAM_WT11)	06:11		06:57 (KLZ_WT21)	05:33	
	16:54	15	09:35 (KLZ_WT08)	17:44	52	16:35 (KLZ_WT15)	18:33	9	07:53 (KLZ_WT19)	20:25	2	07:36 (SAM_WT11)	21:14	29	07:26 (KLZ_WT21)	21:56	
7	08:48		09:20 (KLZ_WT08)	08:15		08:39 (MVN_WT01)	07:19		07:42 (KLZ_WT19)	07:10		07:32 (SAM_WT11)	06:09		06:57 (KLZ_WT21)	05:32	
	16:55	16	09:36 (KLZ_WT08)	17:45	53	16:35 (KLZ_WT15)	18:35	13	07:55 (KLZ_WT19)	20:27	3	07:35 (SAM_WT11)	21:16	28	07:25 (KLZ_WT21)	21:56	
8	08:48		09:20 (KLZ_WT08)	08:13		08:41 (MVN_WT01)	07:17		07:40 (KLZ_WT19)	07:08			06:08		06:57 (KLZ_WT21)	05:32	
	16:56	16	09:36 (KLZ_WT08)	17:47	48	16:35 (KLZ_WT15)	18:37	16	07:56 (KLZ_WT19)	20:29			21:17	27	07:24 (KLZ_WT21)	21:57	
9	08:48		09:17 (RHR_WT01)	08:11		15:49 (KLZ_WT15)	07:15		07:38 (KLZ_WT19)	07:06		07:28 (SAM_WT07)	06:06		06:58 (KLZ_WT21)	05:31	
	16:58	17	09:37 (KLZ_WT08)	17:49	46	16:35 (KLZ_WT15)	18:39	19	07:57 (KLZ_WT19)	20:30	2	07:30 (SAM_WT07)	21:19	25	07:23 (KLZ_WT21)	21:58	
10	08:47		09:16 (RHR_WT01)	08:09		15:49 (KLZ_WT15)	07:13		07:35 (KLZ_WT19)	07:03		07:26 (SAM_WT07)	06:04		06:59 (KLZ_WT21)	05:31	
	16:59	29	16:08 (KLZ_WT15)	17:51	45	16:34 (KLZ_WT15)	18:40	21	07:56 (KLZ_WT19)	20:32	5	07:31 (SAM_WT07)	21:21	23	07:22 (KLZ_WT21)	21:59	
11	08:46		09:15 (RHR_WT01)	08:08		15:50 (KLZ_WT15)	07:11		07:34 (KLZ_WT19)	07:01		07:24 (SAM_WT07)	06:03		07:00 (KLZ_WT21)	05:31	
	17:00	35	16:11 (KLZ_WT15)	17:53	44	16:34 (KLZ_WT15)	18:42	22	07:56 (KLZ_WT19)	20:34	7	07:31 (SAM_WT07)	21:22	21	07:21 (KLZ_WT21)	22:00	
12	08:46		09:15 (RHR_WT01)	08:06		15:50 (KLZ_WT15)	07:08		07:31 (CBR_WT01)	06:59		07:21 (SAM_WT07)	06:01		07:01 (KLZ_WT21)	05:30	
	17:02	40	16:14 (KLZ_WT15)	17:55	43	16:33 (KLZ_WT15)	18:44	25	07:56 (KLZ_WT19)	20:35	9	07:30 (SAM_WT07)	21:24	18	07:19 (KLZ_WT21)	22:00	
13	08:45		09:14 (RHR_WT01)	08:04		15:51 (KLZ_WT15)	07:06		07:29 (CBR_WT01)	06:57		07:19 (SAM_WT07)	06:00		07:03 (KLZ_WT21)	05:30	
	17:03	43	16:15 (KLZ_WT15)	17:56	41	16:32 (KLZ_WT15)	18:45	27	07:56 (KLZ_WT19)	20:37	10	07:29 (SAM_WT07)	21:25	14	07:17 (KLZ_WT21)	22:01	
14	08:45		09:13 (RHR_WT01)	08:02		15:52 (KLZ_WT15)	07:04		07:26 (CBR_WT01)	06:55		07:17 (SAM_WT07)	05:58		07:05 (KLZ_WT21)	05:30	
	17:05	48	16:17 (KLZ_WT15)	17:58	39	16:31 (KLZ_WT15)	18:47	28	07:54 (KLZ_WT19)	20:38	11	07:28 (SAM_WT07)	21:27	9	07:14 (KLZ_WT21)	22:02	
15	08:44		09:12 (RHR_WT01)	08:00		15:53 (KLZ_WT15)	07:02		07:24 (CBR_WT01)	06:53		07:18 (SAM_WT07)	05:56			05:30	
	17:06	51	16:19 (KLZ_WT15)	18:00	37	16:30 (KLZ_WT15)	18:49	30	07:54 (KLZ_WT19)	20:40	8	07:26 (SAM_WT07)	21:28			22:02	
16	08:43		09:11 (RHR_WT01)	07:58		15:55 (KLZ_WT15)	06:59		07:22 (CBR_WT01)	06:50			05:55			05:30	
	17:08	53	16:20 (KLZ_WT15)	18:02	34	16:29 (KLZ_WT15)	18:50	30	07:52 (KLZ_WT19)	20:42			21:30			22:03	
17	08:42		09:11 (RHR_WT01)	07:57		15:57 (KLZ_WT15)	06:57		07:22 (CBR_WT01)	06:48			05:54			05:30	
	17:09	54	16:22 (KLZ_WT15)	18:04	30	16:27 (KLZ_WT15)	18:52	27	07:51 (KLZ_WT19)	20:43			21:31			22:03	
18	08:41		09:13 (RHR_WT01)	07:55		15:59 (KLZ_WT15)	06:55		07:17 (SAM_WT05)	06:46			05:52			05:30	
	17:11	51	16:23 (KLZ_WT15)	18:05	27	16:26 (KLZ_WT15)	18:54	21	07:47 (KLZ_WT19)	20:45			21:33			22:03	
19	08:40		09:25 (KLZ_WT08)	07:53		16:02 (KLZ_WT15)	06:53		07:15 (SAM_WT05)	06:44		07:10 (KLZ_WT21)	05:51			05:30	
	17:12	51	16:25 (KLZ_WT15)	18:07	21	16:23 (KLZ_WT15)	18:56	13	07:32 (CBR_WT01)	20:47	9	07:19 (KLZ_WT21)	21:34			22:04	
20	08:39		09:26 (KLZ_WT08)	07:51		16:05 (KLZ_WT15)	06:50		07:13 (SAM_WT05)	06:42		07:06 (KLZ_WT21)	05:49			05:30	
	17:14	51	16:26 (KLZ_WT15)	18:09	15	16:20 (KLZ_WT15)	18:57	5	07:18 (SAM_WT05)	20:48	16	07:22 (KLZ_WT21)	21:35			22:04	
21	08:38		09:27 (KLZ_WT08)	07:49			06:48			06:40		07:04 (KLZ_WT21)	05:48			05:30	
	17:16	49	16:26 (KLZ_WT15)	18:11			18:59			20:50	20	07:24 (KLZ_WT21)	21:37			22:04	
22	08:37		09:29 (KLZ_WT08)	07:47		08:10 (KLZ_WT10)	06:46			06:38		07:02 (KLZ_WT21)	05:47			05:30	
	17:17	48	16:28 (KLZ_WT15)	18:12	1	08:11 (KLZ_WT10)	19:01			20:52	23	07:25 (KLZ_WT21)	21:38			22:05	
23	08:36		09:32 (KLZ_WT08)	07:45		08:08 (KLZ_WT10)	06:44			06:36		07:01 (KLZ_WT21)	05:46			05:30	
	17:19	44	16:29 (KLZ_WT15)	18:14	4	08:12 (KLZ_WT10)	19:02			20:53	25	07:26 (KLZ_WT21)	21:40			22:05	
24	08:35		15:48 (KLZ_WT15)	07:43		08:06 (KLZ_WT10)	06:41			06:34		06:59 (KLZ_WT21)	05:44			05:31	
	17:21	42	16:30 (KLZ_WT15)	18:16	6	08:12 (KLZ_WT10)	19:04			20:55	28	07:27 (KLZ_WT21)	21:41			22:05	
25	08:34		15:47 (KLZ_WT15)	07:41		08:04 (KLZ_WT10)	06:39			06:32		06:55 (SAM_WT06)	05:43			05:31	
	17:22	43	16:30 (KLZ_WT15)	18:18	8	08:12 (KLZ_WT10)	19:05			20:57	31	07:27 (KLZ_WT21)	21:42			22:05	
26	08:32		15:47 (KLZ_WT15)	07:39		08:02 (KLZ_WT10)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31	
	17:24	45	16:32 (KLZ_WT15)	18:20	10	08:12 (KLZ_WT10)	19:07			20:58	34	07:27 (KLZ_WT21)	21:43			22:05	
27	08:31		15:46 (KLZ_WT15)	07:36		08:03 (KLZ_WT10)	06:35			06:28		06:51 (SAM_WT06)	05:41			05:32	
	17:26	46	16:32 (KLZ_WT15)	18:21	8	08:11 (KLZ_WT10)	19:09			21:00	36	07:27 (KLZ_WT21)	21:45			22:05	
28	08:30		15:46 (KLZ_WT15)	07:34		08:04 (KLZ_WT10)	06:32			06:26		06:50 (SAM_WT06)	05:40			05:32	
	17:28	47	16:33 (KLZ_WT15)	18:23	4	08:08 (KLZ_WT10)	19:10			21:01	38	07:28 (KLZ_WT21)	21:46			22:05	
29	08:28		15:46 (KLZ_WT15)				07:30			06:24		06:48 (SAM_WT06)	05:39			05:33	
	17:29	47	16:33 (KLZ_WT15)				20:12			21:03	40	07:28 (KLZ_WT21)	21:47			22:05	
30	08:27		08:53 (MXS_WT01)				07:28		07:50 (SAM_WT04)	06:22		06:46 (SAM_WT06)	05:38			05:33	
	17:31	50	16:34 (KLZ_WT15)				20:14	1	07:51 (SAM_WT04)	21:05	41	07:28 (KLZ_WT21)	21:48			22:04	
31	08:26		08:51 (MXS_WT01)				07:26		07:48 (SAM_WT04)				05:37				
	17:33	51	16:34 (KLZ_WT15)				20:15	1	07:49 (SAM_WT04)				21:49				
Potential sun hours	262			279			367			415			482			495	
Total, worst case		1143			872			312			399			358			
Sun reduction		0,25			0,30			0,38			0,46			0,46			
Oper. time red.		0,97			0,97			0,97			0,97			0,97			
Wind dir. red.		0,65			0,70			0,58			0,65			0,65			
Total reduction		0,16			0,21			0,21			0,29			0,29			
Total, real		180			179			66			117			103			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:
WP Kluizendok v1

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		07:11 (KLZ_WT21)	06:57		07:23 (SAM_WT07)	07:44		08:09 (CBR_WT01)	07:37		15:19 (KLZ_WT15)	08:26		08:57 (RHR_WT01)
	22:04			21:34	19	07:30 (KLZ_WT21)	20:33	7	07:30 (SAM_WT07)	19:25	26	08:35 (KLZ_WT19)	17:21	45	16:04 (KLZ_WT15)	16:42	35	15:53 (KLZ_WT15)
2	05:35			06:11		07:10 (KLZ_WT21)	06:59		07:24 (SAM_WT07)	07:46		08:11 (CBR_WT01)	07:38		15:18 (KLZ_WT15)	08:27		08:59 (RHR_WT01)
	22:04			21:32	22	07:32 (KLZ_WT21)	20:31	5	07:29 (SAM_WT07)	19:23	24	08:35 (KLZ_WT19)	17:19	47	16:05 (KLZ_WT15)	16:42	30	15:52 (KLZ_WT15)
3	05:35			06:12		07:09 (KLZ_WT21)	07:00		07:26 (SAM_WT07)	07:48		08:12 (KLZ_WT19)	07:40		08:10 (MVN_WT01)	08:29		09:00 (RHR_WT01)
	22:04			21:30	24	07:33 (KLZ_WT21)	20:29	2	07:28 (SAM_WT07)	19:21	22	08:34 (KLZ_WT19)	17:17	49	16:05 (KLZ_WT15)	16:41	17	09:20 (KLZ_WT08)
4	05:36			06:14		07:08 (KLZ_WT21)	07:02			07:49		08:14 (KLZ_WT19)	07:42		08:09 (MVN_WT01)	08:30		09:05 (KLZ_WT08)
	22:03			21:29	25	07:33 (KLZ_WT21)	20:27			19:19	20	08:34 (KLZ_WT19)	17:16	53	16:05 (KLZ_WT15)	16:40	16	09:21 (KLZ_WT08)
5	05:37			06:15		07:07 (KLZ_WT21)	07:03		07:29 (SAM_WT11)	07:51		08:16 (KLZ_WT19)	07:44		08:11 (MVN_WT01)	08:31		09:06 (KLZ_WT08)
	22:03			21:27	27	07:34 (KLZ_WT21)	20:24	3	07:32 (SAM_WT11)	19:16	17	08:33 (KLZ_WT19)	17:14	52	16:05 (KLZ_WT15)	16:40	15	09:21 (KLZ_WT08)
6	05:38			06:17		07:06 (KLZ_WT21)	07:05		07:30 (SAM_WT11)	07:53		08:17 (KLZ_WT19)	07:45		08:13 (MVN_WT01)	08:33		09:06 (KLZ_WT08)
	22:02			21:25	29	07:35 (KLZ_WT21)	20:22	2	07:32 (SAM_WT11)	19:14	14	08:31 (KLZ_WT19)	17:12	50	16:05 (KLZ_WT15)	16:40	15	09:21 (KLZ_WT08)
7	05:38			06:18		07:06 (KLZ_WT21)	07:07		07:32 (SAM_WT11)	07:54		08:19 (KLZ_WT19)	07:47		08:15 (MVN_WT01)	08:34		09:07 (KLZ_WT08)
	22:02			21:24	30	07:36 (KLZ_WT21)	20:20	1	07:33 (SAM_WT11)	19:12	11	08:30 (KLZ_WT19)	17:11	49	16:05 (KLZ_WT15)	16:39	14	09:21 (KLZ_WT08)
8	05:39			06:20		07:05 (KLZ_WT21)	07:08			07:56		08:21 (KLZ_WT19)	07:49		15:17 (KLZ_WT15)	08:35		09:08 (KLZ_WT08)
	22:01			21:22	31	07:36 (KLZ_WT21)	20:18			19:10	7	08:28 (KLZ_WT19)	17:09	49	16:06 (KLZ_WT15)	16:39	13	09:21 (KLZ_WT08)
9	05:40			06:21		07:05 (KLZ_WT21)	07:10			07:58			07:50		08:19 (MXS_WT01)	08:36		09:09 (KLZ_WT08)
	22:00			21:20	31	07:36 (KLZ_WT21)	20:15			19:08			17:07	53	16:06 (KLZ_WT15)	16:39	12	09:21 (KLZ_WT08)
10	05:41			06:23		07:04 (KLZ_WT21)	07:11			07:59			07:52		08:21 (MXS_WT01)	08:37		09:10 (KLZ_WT08)
	22:00			21:18	32	07:36 (KLZ_WT21)	20:13			19:05			17:06	53	16:06 (KLZ_WT15)	16:38	11	09:21 (KLZ_WT08)
11	05:42			06:24		07:05 (KLZ_WT21)	07:13			08:01			07:54		08:23 (MXS_WT01)	08:38		09:10 (KLZ_WT08)
	21:59			21:16	32	07:37 (KLZ_WT21)	20:11			19:03			17:04	51	16:06 (KLZ_WT15)	16:38	11	09:21 (KLZ_WT08)
12	05:43			06:26		06:55 (SAM_WT06)	07:14			08:02			07:56		08:24 (MXS_WT01)	08:39		09:11 (KLZ_WT08)
	21:58			21:14	39	07:36 (KLZ_WT21)	20:09			19:01			17:03	50	16:05 (KLZ_WT15)	16:38	10	09:21 (KLZ_WT08)
13	05:44			06:27		06:54 (SAM_WT06)	07:16		07:41 (SAM_WT04)	08:04			07:57		15:18 (KLZ_WT15)	08:40		09:12 (KLZ_WT08)
	21:57			21:13	42	07:36 (KLZ_WT21)	20:06	1	07:42 (SAM_WT04)	18:59			17:01	47	16:05 (KLZ_WT15)	16:38	9	09:21 (KLZ_WT08)
14	05:45			06:29		06:56 (SAM_WT06)	07:18			08:06		08:36 (KLZ_WT10)	07:59		15:18 (KLZ_WT15)	08:41		09:13 (KLZ_WT08)
	21:56			21:11	40	07:36 (KLZ_WT21)	20:04			18:57	6	08:42 (KLZ_WT10)	17:00	47	16:05 (KLZ_WT15)	16:38	8	09:21 (KLZ_WT08)
15	05:47			06:30		06:57 (SAM_WT06)	07:19			08:07		08:34 (KLZ_WT10)	08:01		15:19 (KLZ_WT15)	08:42		09:15 (KLZ_WT08)
	21:56			21:09	38	07:35 (KLZ_WT21)	20:02			18:55	10	08:44 (KLZ_WT10)	16:59	46	16:05 (KLZ_WT15)	16:38	6	09:21 (KLZ_WT08)
16	05:48			06:32		06:59 (SAM_WT06)	07:21			08:09		08:35 (KLZ_WT10)	08:02		15:20 (KLZ_WT15)	08:43		09:16 (KLZ_WT08)
	21:55			21:07	36	07:35 (KLZ_WT21)	20:00			18:53	9	08:44 (KLZ_WT10)	16:57	45	16:05 (KLZ_WT15)	16:38	5	09:21 (KLZ_WT08)
17	05:49			06:34		07:00 (SAM_WT06)	07:22			08:11		08:36 (KLZ_WT10)	08:04		15:21 (KLZ_WT15)	08:44		09:17 (RHR_WT02)
	21:54			21:05	33	07:34 (KLZ_WT21)	19:57			18:50	8	08:44 (KLZ_WT10)	16:56	43	16:04 (KLZ_WT15)	16:39	4	09:21 (KLZ_WT08)
18	05:50			06:35		07:02 (SAM_WT06)	07:24			08:12		08:38 (KLZ_WT10)	08:06		15:22 (KLZ_WT15)	08:45		09:16 (RHR_WT02)
	21:52			21:03	30	07:34 (KLZ_WT21)	19:55			18:48	6	08:44 (KLZ_WT10)	16:55	42	16:04 (KLZ_WT15)	16:39	5	09:21 (RHR_WT02)
19	05:51			06:37		07:05 (KLZ_WT21)	07:25			08:14		08:40 (KLZ_WT10)	08:08		09:05 (KLZ_WT08)	08:45		09:17 (RHR_WT02)
	21:51			21:01	27	07:32 (KLZ_WT21)	19:53			18:46	3	08:43 (KLZ_WT10)	16:53	45	16:03 (KLZ_WT15)	16:39	5	09:22 (RHR_WT02)
20	05:53			06:38		07:06 (KLZ_WT21)	07:27			08:16			08:09		09:04 (KLZ_WT08)	08:46		09:18 (RHR_WT02)
	21:50			20:59	25	07:31 (KLZ_WT21)	19:50			18:44			16:52	48	16:03 (KLZ_WT15)	16:39	5	09:23 (RHR_WT02)
21	05:54			06:40		07:07 (KLZ_WT21)	07:29			08:18		16:40 (KLZ_WT15)	08:11		09:03 (KLZ_WT08)	08:47		09:18 (RHR_WT02)
	21:49			20:57	22	07:29 (KLZ_WT21)	19:48			18:42	6	16:46 (KLZ_WT15)	16:51	49	16:02 (KLZ_WT15)	16:40	5	09:23 (RHR_WT02)
22	05:55			06:41		07:09 (KLZ_WT21)	07:30			08:19		16:34 (KLZ_WT15)	08:12		09:02 (KLZ_WT08)	08:47		09:19 (RHR_WT02)
	21:48			20:55	19	07:28 (KLZ_WT21)	19:46			18:40	17	16:51 (KLZ_WT15)	16:50	51	16:02 (KLZ_WT15)	16:40	5	09:24 (RHR_WT02)
23	05:56			06:43		07:10 (KLZ_WT21)	07:32		07:56 (SAM_WT05)	08:21		16:31 (KLZ_WT15)	08:14		09:01 (KLZ_WT08)	08:48		09:19 (RHR_WT02)
	21:47			20:53	15	07:25 (KLZ_WT21)	19:44	5	08:01 (SAM_WT05)	18:38	23	16:54 (KLZ_WT15)	16:49	50	16:01 (KLZ_WT15)	16:41	5	09:24 (RHR_WT02)
24	05:58			06:45		07:14 (KLZ_WT21)	07:33		07:58 (SAM_WT05)	08:23		16:29 (KLZ_WT15)	08:16		08:51 (RHR_WT01)	08:48		09:19 (RHR_WT02)
	21:45			20:50	8	07:22 (KLZ_WT21)	19:41	10	08:14 (CBR_WT01)	18:36	28	16:57 (KLZ_WT15)	16:48	50	16:00 (KLZ_WT15)	16:41	5	09:24 (RHR_WT02)
25	05:59			06:46			07:35		07:59 (SAM_WT05)	07:24		15:27 (KLZ_WT15)	08:17		08:49 (RHR_WT01)	08:48		09:20 (RHR_WT02)
	21:44			20:48			19:39	17	08:27 (KLZ_WT19)	17:34	31	15:58 (KLZ_WT15)	16:47	54	16:00 (KLZ_WT15)	16:42	5	09:25 (RHR_WT02)
26	06:01			06:48			07:36		08:01 (SAM_WT05)	07:26		15:25 (KLZ_WT15)	08:19		08:49 (RHR_WT01)	08:49		09:20 (RHR_WT02)
	21:43			20:46			19:37	25	08:31 (KLZ_WT19)	17:32	35	16:00 (KLZ_WT15)	16:46	53	15:58 (KLZ_WT15)	16:43	5	09:25 (RHR_WT02)
27	06:02			06:49		07:23 (SAM_WT07)	07:38		08:03 (CBR_WT01)	07:28		15:23 (KLZ_WT15)	08:20		08:51 (RHR_WT01)	08:49		09:21 (RHR_WT02)
	21:41			20:44	2	07:25 (SAM_WT07)	19:35	30	08:33 (KLZ_WT19)	17:30	37	16:00 (KLZ_WT15)	16:45	50	15:58 (KLZ_WT15)	16:43	5	09:26 (KLZ_WT08)
28	06:03			06:51		07:20 (SAM_WT07)	07:40		08:04 (CBR_WT01)	07:30		15:22 (KLZ_WT15)	08:22		08:53 (RHR_WT01)	08:49		09:21 (KLZ_WT08)
	21:40			20:42	8	07:28 (SAM_WT07)	19:32	30	08:34 (KLZ_WT19)	17:28	39	16:01 (KLZ_WT15)	16:44	48	15:57 (KLZ_WT15)	16:44	5	09:26 (KLZ_WT08)
29	06:05		07:19 (KLZ_WT21)	06:52		07:18 (SAM_WT07)	07:41		08:06 (CBR_WT01)	07:31		15:21 (KLZ_WT15)	08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	3	07:22 (KLZ_WT21)	20:40	11	07:29 (SAM_WT07)	19:30	29	08:35 (KLZ_WT19)	17:27	41	16:02 (KLZ_WT15)	16:44	44	15:56 (KLZ_WT15)	16:45	7	09:27 (KLZ_WT08)
30	06:06		07:15 (KLZ_WT21)	06:54		07:20 (SAM_WT07)	07:43		08:08 (CBR_WT01)	07:33		15:20 (KLZ_WT15)	08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	11	07:26 (KLZ_WT21)	20:38	10	07:30 (SAM_WT07)	19:28	28	08:36 (KLZ_WT19)	17:25	43	16:03 (KLZ_WT15)	16:43	40	15:55 (KLZ_WT15)	16:46	8	09:28 (KLZ_WT08)
31	06:08		07:13 (KLZ_WT21)	06:56		07:21 (SAM_WT07)				07:35		15:19 (KLZ_WT15)				08:50		09:20 (KLZ_WT08)
	21:35	16	07:29 (KLZ_WT21)	20:35	8	07:29 (SAM_WT07)				17:23	45	16:04 (KLZ_WT15)				16:47	9	09:29 (KLZ_WT08)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		30			715			195			528			1453			310	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,65			0,65			0,59			0,66			0,68			0,54	
Total reduction		0,28			0,30			0,25			0,23			0,18			0,12	
Total, real		9			211			48			124			259			37	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (MXS_WT01)	08:24		08:57 (KLZ_WT10)	07:32		07:55 (CBR_WT01)	07:23		07:46 (SAM_WT11)	06:20		07:24 (KLZ_WT21)	05:36		
	16:48	6	09:26 (MXS_WT01)	17:35	38	16:59 (KLZ_WT15)	18:25	30	08:39 (KLZ_WT19)	20:17	5	07:51 (SAM_WT11)	21:06	45	08:09 (KLZ_WT21)	21:51		
2	08:50		09:20 (MXS_WT01)	08:23		08:58 (KLZ_WT10)	07:30		07:53 (CBR_WT01)	07:21		07:43 (SAM_WT07)	06:18		07:24 (KLZ_WT21)	05:36		
	16:49	7	09:27 (MXS_WT01)	17:36	35	16:58 (KLZ_WT15)	18:27	29	08:37 (KLZ_WT19)	20:19	6	07:49 (SAM_WT11)	21:08	44	08:08 (KLZ_WT21)	21:52		
3	08:49		09:20 (MXS_WT01)	08:21		08:59 (KLZ_WT10)	07:28		07:51 (CBR_WT01)	07:19		07:41 (SAM_WT07)	06:16		07:25 (KLZ_WT21)	05:35		
	16:50	7	09:27 (MXS_WT01)	17:38	32	16:58 (KLZ_WT15)	18:28	20	08:31 (KLZ_WT19)	20:20	6	07:47 (SAM_WT07)	21:10	43	08:08 (KLZ_WT21)	21:53		
4	08:49		09:19 (MXS_WT01)	08:19		16:34 (KLZ_WT15)	07:26		07:51 (CBR_WT01)	07:17		07:39 (SAM_WT07)	06:15		07:25 (KLZ_WT21)	05:34		
	16:51	7	09:26 (MXS_WT01)	17:40	24	16:58 (KLZ_WT15)	18:30	18	08:09 (CBR_WT01)	20:22	9	07:48 (SAM_WT07)	21:11	41	08:06 (KLZ_WT21)	21:54		
5	08:49		09:20 (MXS_WT01)	08:18		16:34 (KLZ_WT15)	07:24		07:51 (CBR_WT01)	07:14		07:37 (SAM_WT07)	06:13		07:26 (KLZ_WT21)	05:34		
	16:53	6	09:26 (MXS_WT01)	17:42	24	16:58 (KLZ_WT15)	18:32	16	08:07 (CBR_WT01)	20:24	11	07:48 (SAM_WT07)	21:13	39	08:05 (KLZ_WT21)	21:55		
6	08:49		09:20 (MXS_WT01)	08:16		16:35 (KLZ_WT15)	07:21		07:51 (CBR_WT01)	07:12		07:34 (SAM_WT07)	06:11		07:27 (KLZ_WT21)	05:33		
	16:54	5	09:25 (MXS_WT01)	17:44	22	16:57 (KLZ_WT15)	18:33	16	08:07 (CBR_WT01)	20:25	13	07:47 (SAM_WT07)	21:14	38	08:05 (KLZ_WT21)	21:56		
7	08:48		09:23 (MXS_WT01)	08:15		16:36 (KLZ_WT15)	07:19		07:52 (CBR_WT01)	07:10		07:32 (SAM_WT07)	06:09		07:28 (KLZ_WT21)	05:32		
	16:55	1	09:24 (MXS_WT01)	17:45	20	16:56 (KLZ_WT15)	18:35	13	08:05 (CBR_WT01)	20:27	18	07:54 (KLZ_WT21)	21:16	35	08:03 (KLZ_WT21)	21:56		
8	08:48			08:13		16:38 (KLZ_WT15)	07:17		07:40 (SAM_WT05)	07:08		07:32 (SAM_WT07)	06:08		07:28 (KLZ_WT21)	05:32		
	16:56			17:47	18	16:56 (KLZ_WT15)	18:37	12	08:04 (CBR_WT01)	20:29	29	08:01 (KLZ_WT21)	21:17	33	08:01 (KLZ_WT21)	21:57		
9	08:48			08:11		16:40 (KLZ_WT15)	07:15		07:38 (SAM_WT05)	07:06		07:33 (SAM_WT07)	06:06		07:30 (KLZ_WT21)	05:31		
	16:58			17:49	14	16:54 (KLZ_WT15)	18:39	5	07:43 (SAM_WT05)	20:30	31	08:04 (KLZ_WT21)	21:19	30	08:00 (KLZ_WT21)	21:58		
10	08:47			08:09		16:42 (KLZ_WT15)	07:13		07:35 (SAM_WT05)	07:03		07:34 (SAM_WT07)	06:04		07:31 (KLZ_WT21)	05:31		
	16:59			17:51	9	16:51 (KLZ_WT15)	18:40	6	07:41 (SAM_WT05)	20:32	32	08:06 (KLZ_WT21)	21:21	27	07:58 (KLZ_WT21)	21:59		
11	08:46			08:08			07:11		07:33 (SAM_WT05)	07:01		07:36 (KLZ_WT21)	06:03		07:33 (KLZ_WT21)	05:31		
	17:00			17:53			18:42	8	07:41 (SAM_WT05)	20:34	32	08:08 (KLZ_WT21)	21:22	24	07:57 (KLZ_WT21)	22:00		
12	08:46			08:06			07:08		07:31 (SAM_WT05)	06:59		07:33 (KLZ_WT21)	06:01		07:34 (KLZ_WT21)	05:30		
	17:02			17:55			18:44	8	07:39 (SAM_WT05)	20:35	35	08:08 (KLZ_WT21)	21:24	21	07:55 (KLZ_WT21)	22:00		
13	08:45			08:04		08:28 (KLZ_WT19)	07:06			06:57		07:32 (KLZ_WT21)	05:59		07:37 (KLZ_WT21)	05:30		
	17:03			17:56	8	08:36 (KLZ_WT19)	18:45			20:37	37	08:09 (KLZ_WT21)	21:25	16	07:53 (KLZ_WT21)	22:01		
14	08:44			08:02		08:26 (KLZ_WT19)	07:04			06:55		07:30 (KLZ_WT21)	05:58		07:41 (KLZ_WT21)	05:30		
	17:05			17:58	13	08:39 (KLZ_WT19)	18:47			20:38	40	08:10 (KLZ_WT21)	21:27	7	07:48 (KLZ_WT21)	22:02		
15	08:44			08:00		08:24 (KLZ_WT19)	07:02			06:52		07:29 (KLZ_WT21)	05:56			05:30		
	17:06			18:00	17	08:41 (KLZ_WT19)	18:49			20:40	42	08:11 (KLZ_WT21)	21:28			22:02		
16	08:43			07:58		08:22 (KLZ_WT19)	06:59			06:50		07:28 (KLZ_WT21)	05:55			05:30		
	17:08			18:02	20	08:42 (KLZ_WT19)	18:50			20:42	44	08:12 (KLZ_WT21)	21:30			22:03		
17	08:42			07:57		08:21 (KLZ_WT19)	06:57			06:48		07:27 (KLZ_WT21)	05:54			05:30		
	17:09			18:04	22	08:43 (KLZ_WT19)	18:52			20:43	45	08:12 (KLZ_WT21)	21:31			22:03		
18	08:41			07:55		08:20 (KLZ_WT19)	06:55			06:46		07:26 (KLZ_WT21)	05:52			05:29		
	17:11			18:05	24	08:44 (KLZ_WT19)	18:54			20:45	47	08:13 (KLZ_WT21)	21:33			22:03		
19	08:40			07:53		08:19 (KLZ_WT19)	06:53			06:44		07:26 (KLZ_WT21)	05:51			05:30		
	17:12			18:07	26	08:45 (KLZ_WT19)	18:55			20:47	47	08:13 (KLZ_WT21)	21:34			22:04		
20	08:39		16:39 (KLZ_WT15)	07:51		08:18 (KLZ_WT19)	06:50			06:42		07:25 (KLZ_WT21)	05:49			05:30		
	17:14	4	16:43 (KLZ_WT15)	18:09	27	08:45 (KLZ_WT19)	18:57			20:48	48	08:13 (KLZ_WT21)	21:35			22:04		
21	08:38		09:05 (MVN_WT01)	07:49		08:18 (KLZ_WT19)	06:48			06:40		07:03 (SAM_WT06)	05:48			05:30		
	17:16	9	16:44 (KLZ_WT15)	18:11	27	08:45 (KLZ_WT19)	18:59			20:50	50	08:13 (KLZ_WT21)	21:37			22:04		
22	08:37		09:04 (MVN_WT01)	07:47		08:18 (KLZ_WT19)	06:46			06:38		07:01 (SAM_WT06)	05:47			05:30		
	17:17	14	16:46 (KLZ_WT15)	18:12	27	08:45 (KLZ_WT19)	19:00			20:52	54	08:13 (KLZ_WT21)	21:38			22:05		
23	08:36		09:03 (KLZ_WT10)	07:45		08:18 (KLZ_WT19)	06:44		07:06 (SAM_WT04)	06:36		06:59 (SAM_WT06)	05:46			05:30		
	17:19	17	16:48 (KLZ_WT15)	18:14	27	08:45 (KLZ_WT19)	19:02	2	07:08 (SAM_WT04)	20:53	56	08:13 (KLZ_WT21)	21:40			22:05		
24	08:35		09:02 (KLZ_WT10)	07:43		08:18 (KLZ_WT19)	06:41		07:04 (SAM_WT04)	06:34		06:57 (SAM_WT06)	05:44			05:30		
	17:21	22	16:50 (KLZ_WT15)	18:16	27	08:45 (KLZ_WT19)	19:04	3	07:07 (SAM_WT04)	20:55	58	08:12 (KLZ_WT21)	21:41			22:05		
25	08:34		09:00 (KLZ_WT10)	07:41		08:19 (KLZ_WT19)	06:39		07:01 (SAM_WT04)	06:32		06:55 (SAM_WT06)	05:43			05:31		
	17:22	25	16:51 (KLZ_WT15)	18:18	25	08:44 (KLZ_WT19)	19:05	4	07:05 (SAM_WT04)	20:57	60	08:12 (KLZ_WT21)	21:42			22:05		
26	08:32		08:59 (KLZ_WT10)	07:38		08:02 (CBR_WT01)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31		
	17:24	30	16:54 (KLZ_WT15)	18:20	27	08:44 (KLZ_WT19)	19:07			20:58	61	08:12 (KLZ_WT21)	21:43			22:05		
27	08:31		08:57 (KLZ_WT10)	07:36		08:00 (CBR_WT01)	06:35			06:28		06:52 (SAM_WT06)	05:41			05:32		
	17:26	34	16:55 (KLZ_WT15)	18:21	30	08:43 (KLZ_WT19)	19:09			21:00	60	08:11 (KLZ_WT21)	21:45			22:05		
28	08:30		08:56 (KLZ_WT10)	07:34		07:57 (CBR_WT01)	06:32			06:26		06:53 (SAM_WT06)	05:40			05:32		
	17:28	38	16:57 (KLZ_WT15)	18:23	31	08:41 (KLZ_WT19)	19:10			21:01	57	08:10 (KLZ_WT21)	21:46			22:05		
29	08:28		08:55 (KLZ_WT10)				07:30		07:52 (SAM_WT11)	06:24		06:55 (SAM_WT06)	05:39			05:33		
	17:29	39	16:57 (KLZ_WT15)				20:12	1	07:53 (SAM_WT11)	21:03	54	08:11 (KLZ_WT21)	21:47			22:05		
30	08:27		08:55 (KLZ_WT10)				07:28		07:50 (SAM_WT11)	06:22		07:24 (KLZ_WT21)	05:38			05:33		
	17:31	40	16:58 (KLZ_WT15)				20:14	3	07:53 (SAM_WT11)	21:05	46	08:10 (KLZ_WT21)	21:48			22:04		
31	08:26		08:56 (KLZ_WT10)				07:26		07:48 (SAM_WT11)				05:37					
	17:33	39	16:58 (KLZ_WT15)				20:15	4	07:52 (SAM_WT11)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		350			614			198			1133			443				
Sun reduction		0,25			0,30			0,38			0,46			0,46				
Oper. time red.		0,97			0,97			0,97			0,97			0,97				
Wind dir. red.		0,64			0,61			0,56			0,64			0,64				
Total reduction		0,16			0,18			0,21			0,29			0,28				
Total, real		54			110			41			326			126				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		07:44 (KLZ_WT21)	06:57		07:35 (KLZ_WT21)	07:44		08:11 (SAM_WT05)	07:37		16:11 (KLZ_WT15)	08:26		
	22:04			21:34	22	08:06 (KLZ_WT21)	20:33	32	08:07 (KLZ_WT21)	19:25	6	08:17 (SAM_WT05)	17:21	11	16:22 (KLZ_WT15)	16:42		
2	05:34			06:11		07:43 (KLZ_WT21)	06:59		07:32 (SAM_WT07)	07:46		08:11 (SAM_WT05)	07:38		16:09 (KLZ_WT15)	08:27		
	22:04			21:32	25	08:08 (KLZ_WT21)	20:31	32	08:04 (KLZ_WT21)	19:23	8	08:19 (SAM_WT05)	17:19	15	16:24 (KLZ_WT15)	16:41		
3	05:35			06:12		07:41 (KLZ_WT21)	07:00		07:31 (SAM_WT07)	07:48		08:12 (SAM_WT05)	07:40		16:08 (KLZ_WT15)	08:29		
	22:04			21:30	29	08:10 (KLZ_WT21)	20:29	31	08:02 (KLZ_WT21)	19:21	7	08:19 (SAM_WT05)	17:17	18	16:26 (KLZ_WT15)	16:41		
4	05:36			06:14		07:39 (KLZ_WT21)	07:02		07:29 (SAM_WT07)	07:49		08:14 (SAM_WT05)	07:42		16:05 (KLZ_WT15)	08:30		
	22:03			21:29	31	08:10 (KLZ_WT21)	20:27	29	07:58 (KLZ_WT21)	19:19	6	08:20 (SAM_WT05)	17:16	21	16:26 (KLZ_WT15)	16:40		
5	05:37			06:15		07:38 (KLZ_WT21)	07:03		07:29 (SAM_WT07)	07:51		08:16 (SAM_WT05)	07:44		16:05 (KLZ_WT15)	08:31		
	22:03			21:27	34	08:12 (KLZ_WT21)	20:24	19	07:52 (KLZ_WT21)	19:16	11	08:39 (CBR_WT01)	17:14	22	16:27 (KLZ_WT15)	16:40		
6	05:38			06:17		07:37 (KLZ_WT21)	07:05		07:30 (SAM_WT07)	07:53		08:17 (SAM_WT05)	07:45		16:04 (KLZ_WT15)	08:33		09:06 (MXS_WT01)
	22:02			21:25	36	08:13 (KLZ_WT21)	20:22	13	07:43 (SAM_WT07)	19:14	13	08:41 (CBR_WT01)	17:12	24	16:28 (KLZ_WT15)	16:39	5	09:11 (MXS_WT01)
7	05:38			06:18		07:36 (KLZ_WT21)	07:07		07:32 (SAM_WT07)	07:54		08:28 (CBR_WT01)	07:47		16:04 (KLZ_WT15)	08:34		09:07 (MXS_WT01)
	22:02			21:24	38	08:14 (KLZ_WT21)	20:20	11	07:43 (SAM_WT07)	19:12	14	08:42 (CBR_WT01)	17:11	24	16:28 (KLZ_WT15)	16:39	6	09:13 (MXS_WT01)
8	05:39			06:20		07:35 (KLZ_WT21)	07:08		07:33 (SAM_WT07)	07:56		08:27 (CBR_WT01)	07:49		08:29 (KLZ_WT10)	08:35		09:07 (MXS_WT01)
	22:01			21:22	40	08:15 (KLZ_WT21)	20:18	9	07:42 (SAM_WT07)	19:10	16	08:43 (CBR_WT01)	17:09	33	16:29 (KLZ_WT15)	16:39	7	09:14 (MXS_WT01)
9	05:40			06:21		07:35 (KLZ_WT21)	07:10		07:35 (SAM_WT07)	07:57		08:25 (CBR_WT01)	07:50		08:28 (KLZ_WT10)	08:36		09:08 (MXS_WT01)
	22:00			21:20	41	08:16 (KLZ_WT21)	20:15	7	07:42 (SAM_WT07)	19:08	18	08:43 (CBR_WT01)	17:07	36	16:29 (KLZ_WT15)	16:39	7	09:15 (MXS_WT01)
10	05:41			06:23		07:34 (KLZ_WT21)	07:11		07:36 (SAM_WT07)	07:59		08:25 (CBR_WT01)	07:52		08:28 (KLZ_WT10)	08:37		09:09 (MXS_WT01)
	22:00			21:18	42	08:16 (KLZ_WT21)	20:13	6	07:42 (SAM_WT11)	19:05	18	08:43 (CBR_WT01)	17:06	38	16:30 (KLZ_WT15)	16:38	7	09:16 (MXS_WT01)
11	05:42			06:24		07:32 (KLZ_WT21)	07:13		07:38 (SAM_WT11)	08:01		08:26 (CBR_WT01)	07:54		08:27 (KLZ_WT10)	08:38		09:10 (MXS_WT01)
	21:59			21:16	45	08:17 (KLZ_WT21)	20:11	6	07:44 (SAM_WT11)	19:03	26	09:09 (KLZ_WT19)	17:04	40	16:30 (KLZ_WT15)	16:38	6	09:16 (MXS_WT01)
12	05:43			06:26		07:32 (KLZ_WT21)	07:14		07:39 (SAM_WT11)	08:02		08:28 (CBR_WT01)	07:56		08:26 (KLZ_WT10)	08:39		09:11 (MXS_WT01)
	21:58			21:14	46	08:18 (KLZ_WT21)	20:09	5	07:44 (SAM_WT11)	19:01	29	09:12 (KLZ_WT19)	17:03	40	16:29 (KLZ_WT15)	16:38	6	09:17 (MXS_WT01)
13	05:44			06:27		07:31 (KLZ_WT21)	07:16		07:41 (SAM_WT11)	08:04		08:29 (CBR_WT01)	07:57		08:27 (KLZ_WT10)	08:40		09:12 (MXS_WT01)
	21:57			21:13	46	08:17 (KLZ_WT21)	20:06	3	07:44 (SAM_WT11)	18:59	31	09:13 (KLZ_WT19)	17:01	39	16:29 (KLZ_WT15)	16:38	6	09:18 (MXS_WT01)
14	05:45			06:29		07:02 (SAM_WT06)	07:18		07:42 (SAM_WT11)	08:06		08:31 (CBR_WT01)	07:59		08:28 (KLZ_WT10)	08:41		09:13 (MXS_WT01)
	21:56			21:11	55	08:18 (KLZ_WT21)	20:04	1	07:43 (SAM_WT11)	18:57	30	09:14 (KLZ_WT19)	17:00	38	16:29 (KLZ_WT15)	16:38	5	09:18 (MXS_WT01)
15	05:46			06:30		07:00 (SAM_WT06)	07:19			08:07		08:33 (CBR_WT01)	08:01		08:30 (KLZ_WT10)	08:42		09:14 (MXS_WT01)
	21:56			21:09	59	08:18 (KLZ_WT21)	20:02			18:55	28	09:15 (KLZ_WT19)	16:59	34	16:28 (KLZ_WT15)	16:38	5	09:19 (MXS_WT01)
16	05:48			06:32		07:00 (SAM_WT06)	07:21			08:09		08:51 (KLZ_WT19)	08:02		08:32 (KLZ_WT10)	08:43		09:15 (MXS_WT01)
	21:55			21:07	61	08:19 (KLZ_WT21)	20:00			18:53	25	09:16 (KLZ_WT19)	16:57	30	16:27 (KLZ_WT15)	16:38	5	09:20 (MXS_WT01)
17	05:49			06:34		07:00 (SAM_WT06)	07:22			08:11		08:50 (KLZ_WT19)	08:04		08:34 (KLZ_WT10)	08:44		09:16 (MXS_WT01)
	21:54			21:05	60	08:18 (KLZ_WT21)	19:57			18:50	26	09:16 (KLZ_WT19)	16:56	25	16:25 (KLZ_WT15)	16:38	4	09:20 (MXS_WT01)
18	05:50			06:35		07:02 (SAM_WT06)	07:24		07:49 (SAM_WT04)	08:12		08:49 (KLZ_WT19)	08:06		08:36 (KLZ_WT10)	08:45		09:16 (MXS_WT01)
	21:52			21:03	60	08:19 (KLZ_WT21)	19:55	4	07:53 (SAM_WT04)	18:48	27	09:16 (KLZ_WT19)	16:55	22	16:24 (KLZ_WT15)	16:39	4	09:20 (MXS_WT01)
19	05:51			06:37		07:03 (SAM_WT06)	07:25		07:50 (SAM_WT04)	08:14		08:49 (KLZ_WT19)	08:07		08:37 (KLZ_WT10)	08:45		09:17 (MXS_WT01)
	21:51			21:01	58	08:18 (KLZ_WT21)	19:53	4	07:54 (SAM_WT04)	18:46	28	09:17 (KLZ_WT19)	16:53	17	16:22 (KLZ_WT15)	16:39	4	09:21 (MXS_WT01)
20	05:53			06:38		07:05 (SAM_WT06)	07:27		07:52 (SAM_WT04)	08:16		08:49 (KLZ_WT19)	08:09		08:39 (MVN_WT01)	08:46		09:18 (MXS_WT01)
	21:50			20:59	56	08:18 (KLZ_WT21)	19:50	3	07:55 (SAM_WT04)	18:44	28	09:17 (KLZ_WT19)	16:52	14	16:21 (KLZ_WT15)	16:39	4	09:22 (MXS_WT01)
21	05:54			06:40		07:06 (SAM_WT06)	07:29		07:53 (SAM_WT04)	08:18		08:49 (KLZ_WT19)	08:11		08:41 (MVN_WT01)	08:47		09:18 (MXS_WT01)
	21:49			20:57	54	08:18 (KLZ_WT21)	19:48	1	07:54 (SAM_WT04)	18:42	27	09:16 (KLZ_WT19)	16:51	9	16:20 (KLZ_WT15)	16:40	4	09:22 (MXS_WT01)
22	05:55			06:41		07:08 (SAM_WT06)	07:30			08:19		08:49 (KLZ_WT19)	08:12		16:15 (KLZ_WT15)	08:47		09:19 (MXS_WT01)
	21:48			20:55	51	08:18 (KLZ_WT21)	19:46			18:40	26	09:15 (KLZ_WT19)	16:50	4	16:19 (KLZ_WT15)	16:40	4	09:23 (MXS_WT01)
23	05:56			06:43		07:29 (KLZ_WT21)	07:32			08:21		08:50 (KLZ_WT19)	08:14			08:48		09:19 (MXS_WT01)
	21:47			20:53	48	08:17 (KLZ_WT21)	19:44			18:38	25	09:15 (KLZ_WT19)	16:49			16:41	4	09:23 (MXS_WT01)
24	05:58			06:45		07:30 (KLZ_WT21)	07:33			08:23		08:50 (KLZ_WT19)	08:16			08:48		09:19 (MXS_WT01)
	21:45			20:50	47	08:17 (KLZ_WT21)	19:41			18:36	24	09:14 (KLZ_WT19)	16:48			16:41	4	09:23 (MXS_WT01)
25	05:59			06:46		07:29 (KLZ_WT21)	07:35			07:24		07:51 (KLZ_WT19)	08:17			08:48		09:20 (MXS_WT01)
	21:44			20:48	46	08:15 (KLZ_WT21)	19:39			17:34	23	08:14 (KLZ_WT19)	16:47			16:42	4	09:24 (MXS_WT01)
26	06:00			06:48		07:30 (KLZ_WT21)	07:36			07:26		07:53 (KLZ_WT19)	08:19			08:49		09:20 (MXS_WT01)
	21:43			20:46	45	08:15 (KLZ_WT21)	19:37			17:32	19	08:12 (KLZ_WT19)	16:46			16:43	4	09:24 (MXS_WT01)
27	06:02			06:49		07:30 (KLZ_WT21)	07:38			07:28		07:54 (KLZ_WT19)	08:20			08:49		09:20 (MXS_WT01)
	21:41			20:44	44	08:14 (KLZ_WT21)	19:34			17:30	16	08:10 (KLZ_WT19)	16:45			16:43	5	09:25 (MXS_WT01)
28	06:03			06:51		07:31 (KLZ_WT21)	07:40			07:30		07:56 (KLZ_WT19)	08:22			08:49		09:20 (MXS_WT01)
	21:40			20:42	42	08:13 (KLZ_WT21)	19:32			17:28	12	08:08 (KLZ_WT19)	16:44			16:44	5	09:25 (MXS_WT01)
29	06:05			06:52		07:31 (KLZ_WT21)	07:41			07:31		07:59 (KLZ_WT19)	08:23			08:49		09:20 (MXS_WT01)
	21:38			20:40	40	08:11 (KLZ_WT21)	19:30			17:27	5	08:04 (KLZ_WT19)	16:44			16:45	5	09:25 (MXS_WT01)
30	06:06		07:49 (KLZ_WT21)	06:54		07:33 (KLZ_WT21)	07:43			07:33			08:25			08:50		09:20 (MXS_WT01)
	21:37	11	08:00 (KLZ_WT21)	20:38	37	08:10 (KLZ_WT21)	19:28			17:25			16:43			16:46	5	09:25 (MXS_WT01)
31	06:08		07:47 (KLZ_WT21)	06:56		07:33 (KLZ_WT21)				07:35						08:50		09:20 (MXS_WT01)
	21:35	17	08:04 (KLZ_WT21)	20:35	35	08:08 (KLZ_WT21)				17:23						16:47	6	09:26 (MXS_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		28			1373			216			572			554			131	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,64			0,64			0,63			0,56			0,67			0,53	
Total reduction		0,28			0,29			0,27			0,20			0,18			0,12	
Total, real		8			399			58			113			97			15	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:36 (KLZ_WT19)	08:24		08:50 (CBR_WT01)	07:32		09:04 (KLZ_T21)	07:23		10:09 (KLZ_T21)	06:20			05:36		20:33 (KLZ_WT13)
	16:48	33	10:09 (KLZ_WT19)	17:35	26	16:57 (KLZ_WT15)	18:25	90	10:34 (KLZ_T21)	20:17	48	10:57 (KLZ_T21)	21:06			21:51	23	20:56 (KLZ_WT13)
2	08:50		09:37 (KLZ_WT19)	08:23		08:48 (CBR_WT01)	07:30		09:03 (KLZ_T21)	07:21		10:12 (KLZ_T21)	06:18			05:36		20:35 (KLZ_WT13)
	16:49	33	10:10 (KLZ_WT19)	17:36	24	16:55 (KLZ_WT15)	18:26	91	10:34 (KLZ_T21)	20:19	42	10:54 (KLZ_T21)	21:08			21:52	21	20:56 (KLZ_WT13)
3	08:49		09:37 (KLZ_WT19)	08:21		08:48 (CBR_WT01)	07:28		09:03 (KLZ_T21)	07:19		10:14 (KLZ_T21)	06:16			05:35		20:35 (KLZ_WT13)
	16:50	33	10:10 (KLZ_WT19)	17:38	20	09:08 (CBR_WT01)	18:28	91	10:34 (KLZ_T21)	20:20	36	10:50 (KLZ_T21)	21:09			21:53	21	20:56 (KLZ_WT13)
4	08:49		09:37 (KLZ_WT19)	08:19		08:48 (CBR_WT01)	07:26		09:03 (KLZ_T21)	07:17		10:17 (KLZ_T21)	06:15			05:34		20:35 (KLZ_WT13)
	16:51	33	10:10 (KLZ_WT19)	17:40	21	09:09 (CBR_WT01)	18:30	92	10:35 (KLZ_T21)	20:22	29	10:46 (KLZ_T21)	21:11			21:54	22	21:21 (EVE_WT01)
5	08:49		09:38 (KLZ_WT19)	08:18		08:48 (CBR_WT01)	07:24		09:01 (KLZ_T21)	07:14		10:23 (KLZ_T21)	06:13			05:34		20:37 (KLZ_WT13)
	16:53	33	10:11 (KLZ_WT19)	17:42	21	09:09 (CBR_WT01)	18:32	93	10:34 (KLZ_T21)	20:24	17	10:40 (KLZ_T21)	21:13			21:55	22	21:23 (EVE_WT01)
6	08:49		09:38 (KLZ_WT19)	08:16		08:47 (CBR_WT01)	07:21		09:01 (KLZ_T21)	07:12		07:34 (SAM_WT08)	06:11		20:40 (KLZ_WT13)	05:33		20:37 (KLZ_WT13)
	16:54	33	10:11 (KLZ_WT19)	17:44	42	10:00 (KLZ_WT21)	18:33	93	10:34 (KLZ_T21)	20:25	1	07:35 (SAM_WT08)	21:14	5	20:45 (KLZ_WT13)	21:56	22	21:23 (EVE_WT01)
7	08:48		09:38 (KLZ_WT19)	08:15		08:47 (CBR_WT01)	07:19		09:01 (KLZ_T21)	07:10		07:32 (SAM_WT08)	06:09		20:37 (KLZ_WT13)	05:32		20:38 (KLZ_WT13)
	16:55	34	10:12 (KLZ_WT19)	17:45	51	10:05 (KLZ_WT21)	18:35	93	10:34 (KLZ_T21)	20:27	2	07:34 (SAM_WT08)	21:16	10	20:47 (KLZ_WT13)	21:56	22	21:24 (EVE_WT01)
8	08:48		09:38 (KLZ_WT19)	08:13		08:49 (CBR_WT01)	07:17		09:01 (KLZ_T21)	07:08		07:30 (SAM_WT08)	06:08		20:35 (KLZ_WT13)	05:32		20:38 (KLZ_WT13)
	16:56	34	10:12 (KLZ_WT19)	17:47	56	10:09 (KLZ_WT21)	18:37	93	10:34 (KLZ_T21)	20:29	2	07:32 (SAM_WT08)	21:17	13	20:48 (KLZ_WT13)	21:57	22	21:25 (EVE_WT01)
9	08:48		09:39 (KLZ_WT19)	08:11		08:49 (CBR_WT01)	07:15		07:38 (SAM_WT04)	07:05			06:06		20:34 (KLZ_WT13)	05:31		20:40 (KLZ_WT13)
	16:58	34	10:13 (KLZ_WT19)	17:49	62	10:12 (KLZ_WT21)	18:39	94	10:34 (KLZ_T21)	20:30			21:19	16	20:50 (KLZ_WT13)	21:58	21	21:26 (EVE_WT01)
10	08:47		09:40 (KLZ_WT19)	08:09		08:49 (CBR_WT01)	07:13		07:35 (SAM_WT04)	07:03			06:04		20:32 (KLZ_WT13)	05:31		20:41 (KLZ_WT13)
	16:59	33	10:13 (KLZ_WT19)	17:51	65	10:14 (KLZ_WT21)	18:40	96	10:32 (KLZ_T21)	20:32			21:21	19	20:51 (KLZ_WT13)	21:59	21	21:27 (EVE_WT01)
11	08:46		09:40 (KLZ_WT19)	08:08		08:50 (CBR_WT01)	07:10		07:33 (SAM_WT04)	07:01		07:24 (SAM_WT06)	06:03		20:32 (KLZ_WT13)	05:31		20:42 (KLZ_WT13)
	17:00	33	10:13 (KLZ_WT19)	17:53	68	10:16 (KLZ_WT21)	18:42	98	10:32 (KLZ_T21)	20:34	5	07:29 (SAM_WT06)	21:22	21	20:53 (KLZ_WT13)	22:00	21	21:28 (EVE_WT01)
12	08:46		09:41 (KLZ_WT19)	08:06		08:51 (CBR_WT01)	07:08		07:31 (SAM_WT04)	06:59		07:21 (SAM_WT06)	06:01		20:31 (KLZ_WT13)	05:30		20:42 (KLZ_WT13)
	17:02	33	10:14 (KLZ_WT19)	17:54	70	10:18 (KLZ_WT21)	18:44	99	10:32 (KLZ_T21)	20:35	8	07:29 (SAM_WT06)	21:24	23	20:54 (KLZ_WT13)	22:00	20	21:27 (EVE_WT01)
13	08:45		09:41 (KLZ_WT19)	08:04		08:53 (CBR_WT01)	07:06		07:29 (SAM_WT04)	06:57		07:19 (SAM_WT06)	05:59		20:30 (KLZ_WT13)	05:30		20:43 (KLZ_WT13)
	17:03	33	10:14 (KLZ_WT19)	17:56	69	10:20 (KLZ_WT21)	18:45	99	10:31 (KLZ_T21)	20:37	11	07:30 (SAM_WT06)	21:25	26	20:56 (KLZ_WT13)	22:01	19	21:28 (EVE_WT01)
14	08:44		09:42 (KLZ_WT19)	08:02		09:19 (KLZ_WT21)	07:04		07:29 (SAM_WT04)	06:55		07:17 (SAM_WT06)	05:58		20:29 (KLZ_WT13)	05:30		20:45 (KLZ_WT13)
	17:05	32	10:14 (KLZ_WT19)	17:58	63	10:22 (KLZ_WT21)	18:47	96	10:30 (KLZ_T21)	20:38	14	07:31 (SAM_WT06)	21:27	27	20:56 (KLZ_WT13)	22:02	17	21:29 (EVE_WT01)
15	08:44		09:42 (KLZ_WT19)	08:00		09:18 (KLZ_WT21)	07:02		08:59 (KLZ_T21)	06:52		07:15 (SAM_WT06)	05:56		20:29 (KLZ_WT13)	05:30		20:46 (KLZ_WT13)
	17:06	32	10:14 (KLZ_WT19)	18:00	65	10:23 (KLZ_WT21)	18:49	90	10:29 (KLZ_T21)	20:40	21	20:14 (EVE_WT02)	21:28	28	20:57 (KLZ_WT13)	22:02	15	21:29 (EVE_WT01)
16	08:43		09:43 (KLZ_WT19)	07:58		09:16 (KLZ_WT21)	06:59		07:22 (SAM_WT11)	06:50		07:13 (SAM_WT06)	05:55		20:29 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:08	31	10:14 (KLZ_WT19)	18:02	68	10:24 (KLZ_WT21)	18:50	91	10:29 (KLZ_T21)	20:42	26	20:15 (EVE_WT02)	21:30	29	20:58 (KLZ_WT13)	22:03	12	21:30 (EVE_WT01)
17	08:42		09:44 (KLZ_WT19)	07:57		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT07)	06:48		07:13 (SAM_WT06)	05:53		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:09	30	10:14 (KLZ_WT19)	18:03	73	10:26 (KLZ_WT21)	18:52	94	10:27 (KLZ_T21)	20:43	29	20:17 (EVE_WT02)	21:31	29	20:58 (KLZ_WT13)	22:03	12	21:30 (EVE_WT01)
18	08:41		09:44 (KLZ_WT19)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT07)	06:46		07:13 (SAM_WT06)	05:52		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:11	30	10:14 (KLZ_WT19)	18:05	78	10:27 (KLZ_WT21)	18:54	97	10:26 (KLZ_T21)	20:45	32	20:19 (EVE_WT02)	21:33	29	20:58 (KLZ_WT13)	22:03	13	21:31 (EVE_WT01)
19	08:40		09:45 (KLZ_WT19)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT07)	06:44		07:13 (SAM_WT06)	05:51		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:12	29	10:14 (KLZ_WT19)	18:07	83	10:28 (KLZ_WT21)	18:55	99	10:25 (KLZ_T21)	20:47	32	20:20 (EVE_WT02)	21:34	29	20:58 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
20	08:39		09:46 (KLZ_WT19)	07:51		08:14 (SAM_WT05)	06:50		07:13 (SAM_WT07)	06:42		07:14 (SAM_WT06)	05:49		20:29 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:14	28	10:14 (KLZ_WT19)	18:09	88	10:29 (KLZ_WT21)	18:57	100	10:24 (KLZ_T21)	20:48	33	20:22 (EVE_WT02)	21:35	30	20:59 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
21	08:38		09:46 (KLZ_WT19)	07:49		08:12 (SAM_WT05)	06:48		07:10 (SAM_WT07)	06:40		07:15 (SAM_WT06)	05:48		20:28 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:16	28	16:44 (KLZ_WT15)	18:11	91	10:30 (KLZ_WT21)	18:59	101	10:22 (KLZ_T21)	20:50	33	20:23 (EVE_WT02)	21:37	30	20:58 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
22	08:37		09:48 (KLZ_WT19)	07:47		08:10 (SAM_WT05)	06:46		07:09 (SAM_WT07)	06:38		07:17 (SAM_WT06)	05:47		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:17	27	16:46 (KLZ_WT15)	18:12	95	10:31 (KLZ_WT21)	19:00	99	10:20 (KLZ_T21)	20:52	30	20:25 (EVE_WT02)	21:38	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
23	08:36		09:49 (KLZ_WT19)	07:45		08:10 (SAM_WT05)	06:44		07:09 (SAM_WT07)	06:36		20:02 (EVE_WT02)	05:46		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:19	28	16:48 (KLZ_WT15)	18:14	94	10:31 (KLZ_WT21)	19:02	98	10:19 (KLZ_T21)	20:53	23	20:25 (EVE_WT02)	21:40	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
24	08:35		09:51 (KLZ_WT19)	07:43		08:12 (SAM_WT05)	06:41		07:09 (SAM_WT07)	06:34		20:02 (EVE_WT02)	05:44		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:21	27	16:50 (KLZ_WT15)	18:16	92	10:32 (KLZ_WT21)	19:04	96	10:18 (KLZ_T21)	20:55	22	20:24 (EVE_WT02)	21:41	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
25	08:34		09:52 (KLZ_WT19)	07:41		09:07 (KLZ_WT21)	06:39		07:08 (SAM_WT07)	06:32		20:02 (EVE_WT02)	05:43		20:30 (KLZ_WT13)	05:31		21:20 (EVE_WT01)
	17:22	25	16:51 (KLZ_WT15)	18:18	86	10:33 (KLZ_WT21)	19:05	92	10:15 (KLZ_T21)	20:56	22	20:24 (EVE_WT02)	21:42	28	20:58 (KLZ_WT13)	22:05	13	21:33 (EVE_WT01)
26	08:32		09:55 (KLZ_WT19)	07:38		09:06 (KLZ_WT21)	06:37		07:09 (SAM_WT07)	06:30		20:02 (EVE_WT02)	05:42		20:30 (KLZ_WT13)	05:31		21:20 (EVE_WT01)
	17:24	23	16:54 (KLZ_WT15)	18:19	87	10:33 (KLZ_WT21)	19:07	87	10:13 (KLZ_T21)	20:58	21	20:23 (EVE_WT02)	21:43	28	20:58 (KLZ_WT13)	22:05	12	21:32 (EVE_WT01)
27	08:31		09:58 (KLZ_WT19)	07:36		09:06 (KLZ_WT21)	06:35		07:10 (SAM_WT07)	06:28		20:03 (EVE_WT02)	05:41		20:31 (KLZ_WT13)	05:32		20:49 (KLZ_WT13)
	17:26	17	16:55 (KLZ_WT15)	18:21	88	10:34 (KLZ_WT21)	19:09	82	10:11 (KLZ_T21)	21:00	19	20:22 (EVE_WT02)	21:45	26	20:57 (KLZ_WT13)	22:05	14	21:32 (EVE_WT01)
28	08:30		16:44 (KLZ_WT15)	07:34		09:04 (KLZ_WT21)	06:32		07:11 (SAM_WT07)	06:26		20:04 (EVE_WT02)	05:40		20:31 (KLZ_WT13)	05:32		20:48 (KLZ_WT13)
	17:28	13	16:57 (KLZ_WT15)	18:23	89	10:33 (KLZ_WT21)	19:10	75	10:08 (KLZ_T21)	21:01	16	20:20 (EVE_WT02)	21:46	26	20:57 (KLZ_WT13)	22:05	16	21:32 (EVE_WT01)
29	08:28		08:54 (CBR_WT01)				07:30		08:15 (SAM_WT07)	06:24		20:06 (EVE_WT02)	05:39		20:32 (KLZ_WT13)	05:33		20:47 (KLZ_WT13)
	17:29	23	16:59 (KLZ_WT15)				20:12	63	11:06 (KLZ_T21)	21:03	14	20:20 (EVE_WT02)	21:47	26	20:58 (KLZ_WT13)	22:05	18	21:32 (EVE_WT01)
30	08:27		08:53 (CBR_WT01)				07:28		10:07 (KLZ_T21)	06:22		20:08 (EVE_WT02)	05:38		20:33 (KLZ_WT13)	05:33		20:47 (KLZ_WT13)
	17:31	25	16:59 (KLZ_WT15)				20:14	56	11:03 (KLZ_T21)	21:05	9	20:17 (EVE_WT02)	21:48	24	20:57 (KLZ_WT13)	22:04	19	21:32 (EVE_WT01)
31	08:26		08:51 (CBR_WT01)				07:26		10:09 (KLZ_T21)				05:37		20:33 (KLZ_WT13)			
	17:33	26	16:58 (KLZ_WT15)				20:15	52	11:01 (KLZ_T21)				21:49	24	20:57 (KLZ_WT13)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		906			1835			2790			597			633			516	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,56			0,55			0,55			0,58			0,56			0,55	
Total reduction		0,14			0,16			0,20			0,26			0,25			0,24	
Total, real		123			294			566			156			157			123	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		20:47 (KLZ_WT13)	06:09		20:41 (KLZ_WT13)	06:57		07:23 (SAM_WT06)	07:44		08:09 (SAM_WT04)	07:37		08:19 (CBR_WT01)	08:26		09:22 (KLZ_WT19)
	22:04	20	21:32 (EVE_WT01)	21:34	23	21:04 (KLZ_WT13)	20:33	5	07:28 (SAM_WT06)	19:25	99	11:10 (KLZ_WT21)	17:21	65	09:44 (KLZ_WT21)	16:42	33	09:55 (KLZ_WT19)
2	05:34		20:45 (KLZ_WT13)	06:11		20:43 (KLZ_WT13)	06:59			07:46		08:11 (SAM_WT04)	07:38		08:18 (CBR_WT01)	08:27		09:23 (KLZ_WT19)
	22:04	21	21:31 (EVE_WT01)	21:32	20	21:03 (KLZ_WT13)	20:31			19:23	98	11:11 (KLZ_WT21)	17:19	62	09:41 (KLZ_WT21)	16:41	33	09:56 (KLZ_WT19)
3	05:35		20:45 (KLZ_WT13)	06:12		20:43 (KLZ_WT13)	07:00			07:48		08:12 (SAM_WT04)	07:40		08:17 (CBR_WT01)	08:29		09:23 (KLZ_WT19)
	22:04	21	21:31 (EVE_WT01)	21:30	18	21:01 (KLZ_WT13)	20:29			19:21	97	11:10 (KLZ_WT21)	17:17	56	09:37 (KLZ_WT21)	16:41	33	09:56 (KLZ_WT19)
4	05:36		20:45 (KLZ_WT13)	06:14		20:44 (KLZ_WT13)	07:02		07:27 (SAM_WT08)	07:49		08:14 (SAM_WT04)	07:42		08:17 (CBR_WT01)	08:30		09:23 (KLZ_WT19)
	22:03	21	21:31 (EVE_WT01)	21:29	15	20:59 (KLZ_WT13)	20:27	2	07:29 (SAM_WT08)	19:19	95	11:11 (KLZ_WT21)	17:16	50	09:34 (KLZ_WT21)	16:40	34	09:57 (KLZ_WT19)
5	05:37		20:44 (KLZ_WT13)	06:15		20:46 (KLZ_WT13)	07:03		07:29 (SAM_WT08)	07:51		09:38 (KLZ_WT21)	07:44		08:17 (CBR_WT01)	08:31		09:24 (KLZ_WT19)
	22:03	22	21:30 (EVE_WT01)	21:27	12	20:58 (KLZ_WT13)	20:24	2	07:31 (SAM_WT08)	19:16	93	11:11 (KLZ_WT21)	17:14	40	09:29 (KLZ_WT21)	16:40	33	09:57 (KLZ_WT19)
6	05:37		20:44 (KLZ_WT13)	06:17		20:48 (KLZ_WT13)	07:05		07:30 (SAM_WT08)	07:53		09:37 (KLZ_WT21)	07:45		08:18 (CBR_WT01)	08:33		09:24 (KLZ_WT19)
	22:02	22	21:30 (EVE_WT01)	21:25	8	20:56 (KLZ_WT13)	20:22	1	07:31 (SAM_WT08)	19:14	93	11:10 (KLZ_WT21)	17:12	21	08:39 (CBR_WT01)	16:39	33	09:57 (KLZ_WT19)
7	05:38		20:43 (KLZ_WT13)	06:18			07:07		10:18 (KLZ_WT21)	07:54		09:37 (KLZ_WT21)	07:47		08:18 (CBR_WT01)	08:34		09:25 (KLZ_WT19)
	22:02	22	21:29 (EVE_WT01)	21:24			20:20	16	10:34 (KLZ_WT21)	19:12	93	11:10 (KLZ_WT21)	17:11	21	08:39 (CBR_WT01)	16:39	33	09:58 (KLZ_WT19)
8	05:39		20:43 (KLZ_WT13)	06:20			07:08		10:12 (KLZ_WT21)	07:56		09:37 (KLZ_WT21)	07:49		08:19 (CBR_WT01)	08:35		09:25 (KLZ_WT19)
	22:01	22	21:29 (EVE_WT01)	21:22			20:18	28	10:40 (KLZ_WT21)	19:10	93	11:10 (KLZ_WT21)	17:09	20	08:39 (CBR_WT01)	16:39	33	09:58 (KLZ_WT19)
9	05:40		20:43 (KLZ_WT13)	06:21			07:10		10:09 (KLZ_WT21)	07:57		09:37 (KLZ_WT21)	07:50		08:19 (CBR_WT01)	08:36		09:25 (KLZ_WT19)
	22:00	21	21:29 (EVE_WT01)	21:20			20:15	35	10:44 (KLZ_WT21)	19:08	92	11:09 (KLZ_WT21)	17:07	24	16:26 (KLZ_WT15)	16:39	33	09:58 (KLZ_WT19)
10	05:41		20:42 (KLZ_WT13)	06:23			07:11		10:05 (KLZ_WT21)	07:59		09:37 (KLZ_WT21)	07:52		08:21 (CBR_WT01)	08:37		09:26 (KLZ_WT19)
	22:00	22	21:04 (KLZ_WT13)	21:18			20:13	42	10:47 (KLZ_WT21)	19:05	92	11:09 (KLZ_WT21)	17:06	26	16:28 (KLZ_WT15)	16:38	33	09:59 (KLZ_WT19)
11	05:42		20:42 (KLZ_WT13)	06:24			07:13		10:03 (KLZ_WT21)	08:01		09:37 (KLZ_WT21)	07:54		08:23 (CBR_WT01)	08:38		09:26 (KLZ_WT19)
	21:59	22	21:04 (KLZ_WT13)	21:16			20:11	47	10:50 (KLZ_WT21)	19:03	91	11:08 (KLZ_WT21)	17:04	26	16:30 (KLZ_WT15)	16:38	33	09:59 (KLZ_WT19)
12	05:43		20:42 (KLZ_WT13)	06:26		20:19 (EVE_WT02)	07:14		10:00 (KLZ_WT21)	08:02		09:38 (KLZ_WT21)	07:56		08:24 (CBR_WT01)	08:39		09:27 (KLZ_WT19)
	21:58	23	21:05 (KLZ_WT13)	21:14	3	20:22 (EVE_WT02)	20:09	52	10:52 (KLZ_WT21)	19:01	90	11:08 (KLZ_WT21)	17:03	25	16:30 (KLZ_WT15)	16:38	32	09:59 (KLZ_WT19)
13	05:44		20:41 (KLZ_WT13)	06:27		20:15 (EVE_WT02)	07:16		09:58 (KLZ_WT21)	08:04		09:37 (KLZ_WT21)	07:57		08:26 (CBR_WT01)	08:40		09:27 (KLZ_WT19)
	21:57	24	21:05 (KLZ_WT13)	21:13	10	20:25 (EVE_WT02)	20:06	56	10:54 (KLZ_WT21)	18:59	90	11:07 (KLZ_WT21)	17:01	22	16:31 (KLZ_WT15)	16:38	33	10:00 (KLZ_WT19)
14	05:45		20:41 (KLZ_WT13)	06:29		20:13 (EVE_WT02)	07:17		09:56 (KLZ_WT21)	08:06		09:38 (KLZ_WT21)	07:59		16:16 (KLZ_WT15)	08:41		09:28 (KLZ_WT19)
	21:56	25	21:06 (KLZ_WT13)	21:11	15	20:28 (EVE_WT02)	20:04	60	10:56 (KLZ_WT21)	18:57	88	11:06 (KLZ_WT21)	17:00	13	16:29 (KLZ_WT15)	16:38	32	10:00 (KLZ_WT19)
15	05:46		20:41 (KLZ_WT13)	06:30		20:11 (EVE_WT02)	07:19		08:02 (SAM_WT07)	08:07		09:38 (KLZ_WT21)	08:01		09:31 (KLZ_WT19)	08:42		09:28 (KLZ_WT19)
	21:56	25	21:06 (KLZ_WT13)	21:09	17	20:28 (EVE_WT02)	20:02	73	10:58 (KLZ_WT21)	18:55	88	11:06 (KLZ_WT21)	16:59	18	16:28 (KLZ_WT15)	16:38	33	10:01 (KLZ_WT19)
16	05:48		20:40 (KLZ_WT13)	06:32		20:10 (EVE_WT02)	07:21		07:59 (SAM_WT07)	08:09		09:38 (KLZ_WT21)	08:02		09:28 (KLZ_WT19)	08:43		09:29 (KLZ_WT19)
	21:55	27	21:07 (KLZ_WT13)	21:07	19	20:29 (EVE_WT02)	20:00	80	10:59 (KLZ_WT21)	18:52	86	11:04 (KLZ_WT21)	16:57	24	16:27 (KLZ_WT15)	16:38	32	10:01 (KLZ_WT19)
17	05:49		20:40 (KLZ_WT13)	06:34		20:09 (EVE_WT02)	07:22		07:58 (SAM_WT07)	08:11		08:45 (SAM_WT05)	08:04		09:26 (KLZ_WT19)	08:44		09:30 (KLZ_WT19)
	21:54	27	21:07 (KLZ_WT13)	21:05	21	20:30 (EVE_WT02)	19:57	86	11:01 (KLZ_WT21)	18:50	89	11:04 (KLZ_WT21)	16:56	25	16:25 (KLZ_WT15)	16:38	32	10:02 (KLZ_WT19)
18	05:50		20:39 (KLZ_WT13)	06:35		20:09 (EVE_WT02)	07:24		07:56 (SAM_WT07)	08:12		08:43 (SAM_WT05)	08:06		09:24 (KLZ_WT19)	08:45		09:29 (KLZ_WT19)
	21:52	28	21:07 (KLZ_WT13)	21:03	21	20:30 (EVE_WT02)	19:55	91	11:02 (KLZ_WT21)	18:48	93	11:03 (KLZ_WT21)	16:55	27	16:23 (KLZ_WT15)	16:39	33	10:02 (KLZ_WT19)
19	05:51		20:39 (KLZ_WT13)	06:37		20:07 (EVE_WT02)	07:25		07:56 (SAM_WT07)	08:14		08:41 (SAM_WT05)	08:07		09:23 (KLZ_WT19)	08:45		09:24 (MVN_WT01)
	21:51	28	21:07 (KLZ_WT13)	21:01	23	20:30 (EVE_WT02)	19:53	94	11:04 (KLZ_WT21)	18:46	94	11:02 (KLZ_WT21)	16:53	28	16:22 (KLZ_WT15)	16:39	34	10:02 (KLZ_WT19)
20	05:52		20:40 (KLZ_WT13)	06:38		20:08 (EVE_WT02)	07:27		07:55 (SAM_WT07)	08:16		08:42 (SAM_WT05)	08:09		09:23 (KLZ_WT19)	08:46		09:25 (MVN_WT01)
	21:50	28	21:08 (KLZ_WT13)	20:59	23	20:31 (EVE_WT02)	19:50	98	11:05 (KLZ_WT21)	18:44	93	11:02 (KLZ_WT21)	16:52	27	16:21 (KLZ_WT15)	16:39	34	10:03 (KLZ_WT19)
21	05:54		20:39 (KLZ_WT13)	06:40		07:21 (SAM_WT06)	07:28		07:54 (SAM_WT07)	08:18		08:43 (SAM_WT05)	08:11		09:22 (KLZ_WT19)	08:47		09:25 (MVN_WT01)
	21:49	29	21:08 (KLZ_WT13)	20:57	31	20:29 (EVE_WT02)	19:48	101	11:06 (KLZ_WT21)	18:42	90	11:00 (KLZ_WT21)	16:51	28	16:20 (KLZ_WT15)	16:40	34	10:03 (KLZ_WT19)
22	05:55		20:39 (KLZ_WT13)	06:41		07:19 (SAM_WT06)	07:30		07:55 (SAM_WT07)	08:19		08:45 (SAM_WT05)	08:12		09:22 (KLZ_WT19)	08:47		09:26 (MVN_WT01)
	21:48	29	21:08 (KLZ_WT13)	20:55	34	20:28 (EVE_WT02)	19:46	101	11:07 (KLZ_WT21)	18:40	86	10:59 (KLZ_WT21)	16:50	28	09:50 (KLZ_WT19)	16:40	34	10:04 (KLZ_WT19)
23	05:56		20:39 (KLZ_WT13)	06:43		07:17 (SAM_WT06)	07:32		07:56 (SAM_WT07)	08:21		08:47 (SAM_WT05)	08:14		09:21 (KLZ_WT19)	08:48		09:26 (MVN_WT01)
	21:47	29	21:08 (KLZ_WT13)	20:53	33	20:25 (EVE_WT02)	19:44	100	11:07 (KLZ_WT21)	18:38	82	10:58 (KLZ_WT21)	16:49	29	09:50 (KLZ_WT19)	16:41	34	10:04 (KLZ_WT19)
24	05:58		20:39 (KLZ_WT13)	06:45		07:17 (SAM_WT06)	07:33		07:58 (SAM_WT07)	08:23		08:49 (SAM_WT05)	08:16		09:21 (KLZ_WT19)	08:48		09:26 (MVN_WT01)
	21:45	29	21:08 (KLZ_WT13)	20:50	33	20:24 (EVE_WT02)	19:41	99	11:08 (KLZ_WT21)	18:36	77	10:57 (KLZ_WT21)	16:48	30	09:51 (KLZ_WT19)	16:41	34	10:04 (KLZ_WT19)
25	05:59		20:39 (KLZ_WT13)	06:46		07:16 (SAM_WT06)	07:35		07:59 (SAM_WT07)	07:24		07:51 (SAM_WT05)	08:17		09:22 (KLZ_WT19)	08:48		09:28 (MVN_WT01)
	21:44	30	21:09 (KLZ_WT13)	20:48	31	20:21 (EVE_WT02)	19:39	97	11:08 (KLZ_WT21)	17:34	72	09:56 (KLZ_WT21)	16:47	30	09:52 (KLZ_WT19)	16:42	33	10:05 (KLZ_WT19)
26	06:00		20:39 (KLZ_WT13)	06:48		07:16 (SAM_WT06)	07:36		08:01 (SAM_WT07)	07:26		08:47 (KLZ_WT21)	08:19		09:21 (KLZ_WT19)	08:49		09:34 (KLZ_WT19)
	21:43	29	21:08 (KLZ_WT13)	20:46	29	20:20 (EVE_WT02)	19:37	95	11:09 (KLZ_WT21)	17:32	68	09:55 (KLZ_WT21)	16:46	31	09:52 (KLZ_WT19)	16:43	32	10:06 (KLZ_WT19)
27	06:02		20:39 (KLZ_WT13)	06:49		07:15 (SAM_WT06)	07:38		08:03 (SAM_WT07)	07:28		08:48 (KLZ_WT21)	08:20		09:21 (KLZ_WT19)	08:49		09:34 (KLZ_WT19)
	21:41	29	21:08 (KLZ_WT13)	20:44	26	20:17 (EVE_WT02)	19:34	91	11:10 (KLZ_WT21)	17:30	64	09:52 (KLZ_WT21)	16:45	32	09:53 (KLZ_WT19)	16:43	32	10:06 (KLZ_WT19)
28	06:03		20:40 (KLZ_WT13)	06:51		07:17 (SAM_WT06)	07:40		09:40 (KLZ_WT21)	07:30		08:25 (CBR_WT01)	08:22		09:22 (KLZ_WT19)	08:49		09:34 (KLZ_WT19)
	21:40	28	21:08 (KLZ_WT13)	20:42	20	20:15 (EVE_WT02)	19:32	90	11:10 (KLZ_WT21)	17:28	67	09:51 (KLZ_WT21)	16:44	32	09:54 (KLZ_WT19)	16:44	32	10:06 (KLZ_WT19)
29	06:05		20:40 (KLZ_WT13)	06:52		07:18 (SAM_WT06)	07:41		08:11 (SAM_WT04)	07:31		08:22 (CBR_WT01)	08:23		09:21 (KLZ_WT19)	08:49		09:34 (KLZ_WT19)
	21:38	28	21:08 (KLZ_WT13)	20:40	14	07:32 (SAM_WT06)	19:30	92	11:10 (KLZ_WT21)	17:26	70	09:49 (KLZ_WT21)	16:43	33	09:54 (KLZ_WT19)	16:45	33	10:07 (KLZ_WT19)
30	06:06		20:40 (KLZ_WT13)	06:54		07:20 (SAM_WT06)	07:43		08:07 (SAM_WT04)	07:33		08:21 (CBR_WT01)	08:25		09:22 (KLZ_WT19)	08:50		09:35 (KLZ_WT19)
	21:37	27	21:07 (KLZ_WT13)	20:38	11	07:31 (SAM_WT06)	19:28	99	11:10 (KLZ_WT21)	17:25	69	09:48 (KLZ_WT21)	16:43	33	09:55 (KLZ_WT19)	16:46	32	10:07 (KLZ_WT19)
31	06:08		20:41 (KLZ_WT13)	06:56		07:21 (SAM_WT06)				07:35		08:20 (CBR_WT01)				08:50		09:35 (KLZ_WT19)
	21:35	25	21:06 (KLZ_WT13)	20:35	8	07:29 (SAM_WT06)				17:23	67	09:46 (KLZ_WT21)				16:47	33	10:08 (KLZ_WT19)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		783			518			1833			2659			926			1022	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,56			0,58			0,55			0,54			0,57			0,54	
Total reduction		0,24			0,27			0,23			0,19			0,15			0,12	
Total, real		190			138			427			512			137			122	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		10:51 (KLZ_WT06)	08:24		08:52 (SAM_WT07)	07:32		08:03 (SAM_WT06)	07:23		08:12 (KLZ_WT17)	06:20		06:44 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:48	125	14:39 (KLZ_WT20)	17:35	119	17:05 (EVE_WT02)	18:25	27	08:33 (KLZ_WT05)	20:17	19	08:31 (KLZ_WT17)	21:06	5	06:49 (SAM_WT10)	21:51	10	06:14 (TEN_WT01)
2	08:50		10:51 (KLZ_WT06)	08:23		08:52 (SAM_WT07)	07:30		08:04 (SAM_WT06)	07:21		08:15 (KLZ_WT17)	06:18		06:42 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:49	127	16:15 (KLZ_WT13)	17:36	107	17:07 (EVE_WT02)	18:26	30	18:01 (EVE_WT01)	20:19	13	08:28 (KLZ_WT17)	21:08	6	06:48 (SAM_WT10)	21:52	11	06:15 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:52 (SAM_WT07)	07:28		08:07 (SAM_WT06)	07:19			06:16		06:41 (SAM_WT10)	05:35		06:03 (TEN_WT01)
	16:50	130	16:17 (KLZ_WT13)	17:38	105	17:09 (EVE_WT02)	18:28	36	18:03 (EVE_WT01)	20:20			21:10	6	06:47 (SAM_WT10)	21:53	13	06:16 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT04)	07:26		08:14 (KLZ_WT05)	07:17		07:39 (KLZ_WT02)	06:15		06:39 (SAM_WT10)	05:34		06:02 (TEN_WT01)
	16:51	132	16:17 (KLZ_WT13)	17:40	101	17:11 (EVE_WT02)	18:30	38	18:05 (EVE_WT01)	20:22	3	07:42 (KLZ_WT02)	21:11	6	06:45 (SAM_WT10)	21:54	14	06:16 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24		08:11 (KLZ_WT05)	07:14		07:37 (KLZ_WT02)	06:13			05:33		06:02 (TEN_WT01)
	16:52	136	16:19 (KLZ_WT13)	17:42	94	17:13 (EVE_WT02)	18:32	45	18:06 (EVE_WT01)	20:24	6	07:43 (KLZ_WT02)	21:13			21:55	15	06:17 (TEN_WT01)
6	08:49		09:18 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21		08:10 (KLZ_WT05)	07:12		07:34 (KLZ_WT02)	06:11			05:33		06:01 (TEN_WT01)
	16:54	139	16:20 (KLZ_WT13)	17:44	76	17:15 (EVE_WT02)	18:33	50	18:08 (EVE_WT01)	20:25	8	07:42 (KLZ_WT02)	21:14			21:56	16	06:17 (TEN_WT01)
7	08:48		09:18 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19		08:09 (KLZ_WT05)	07:10		07:32 (KLZ_WT01)	06:09			05:32		06:01 (TEN_WT01)
	16:55	140	16:22 (KLZ_WT13)	17:45	68	17:16 (EVE_WT02)	18:35	54	18:10 (EVE_WT01)	20:27	10	07:42 (KLZ_WT02)	21:16			21:57	17	06:18 (TEN_WT01)
8	08:48		09:17 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17		08:09 (KLZ_WT05)	07:08		07:30 (KLZ_WT01)	06:08			05:32		06:00 (TEN_WT01)
	16:56	143	16:23 (KLZ_WT13)	17:47	70	17:18 (EVE_WT02)	18:37	57	18:12 (EVE_WT01)	20:29	11	07:41 (KLZ_WT02)	21:17			21:57	17	06:17 (TEN_WT01)
9	08:48		09:17 (SAM_WT05)	08:11		08:36 (SAM_WT11)	07:15		07:38 (SAM_WT08)	07:05		07:28 (KLZ_WT01)	06:06			05:31		06:00 (TEN_WT01)
	16:58	145	16:25 (KLZ_WT13)	17:49	69	17:17 (EVE_WT02)	18:39	59	18:12 (EVE_WT01)	20:30	12	07:40 (KLZ_WT02)	21:19			21:58	18	06:18 (TEN_WT01)
10	08:47		09:16 (SAM_WT05)	08:09		08:34 (SAM_WT11)	07:13		07:35 (SAM_WT08)	07:03		07:26 (KLZ_WT01)	06:04			05:31		06:00 (TEN_WT01)
	16:59	148	16:26 (KLZ_WT13)	17:51	70	17:17 (EVE_WT02)	18:40	62	18:12 (EVE_WT01)	20:32	6	07:32 (KLZ_WT01)	21:21			21:59	19	06:19 (TEN_WT01)
11	08:47		09:15 (SAM_WT05)	08:08		08:32 (SAM_WT11)	07:10		08:07 (KLZ_WT05)	07:01		07:27 (KLZ_WT01)	06:03			05:31		06:01 (TEN_WT01)
	17:00	149	16:27 (KLZ_WT13)	17:53	68	17:16 (EVE_WT02)	18:42	60	18:12 (EVE_WT01)	20:34	3	07:30 (KLZ_WT01)	21:22			22:00	18	06:19 (TEN_WT01)
12	08:46		09:15 (SAM_WT05)	08:06		08:30 (SAM_WT11)	07:08		07:31 (KLZ_WT17)	06:59			06:01			05:30		06:00 (TEN_WT01)
	17:02	149	16:29 (KLZ_WT13)	17:54	66	17:15 (EVE_WT02)	18:44	59	18:11 (EVE_WT01)	20:35			21:24			22:00	19	06:19 (TEN_WT01)
13	08:45		09:15 (SAM_WT05)	08:04		08:32 (SAM_WT11)	07:06		07:29 (KLZ_WT17)	06:57			05:59			05:30		06:00 (TEN_WT01)
	17:03	150	16:31 (KLZ_WT13)	17:56	56	17:13 (EVE_WT02)	18:45	66	18:11 (EVE_WT01)	20:37			21:25			22:01	19	06:19 (TEN_WT01)
14	08:45		09:16 (SAM_WT05)	08:02		16:13 (KLZ_WT12)	07:04		07:26 (KLZ_WT17)	06:55			05:58			05:30		06:01 (TEN_WT01)
	17:05	150	16:32 (KLZ_WT13)	17:58	47	17:11 (EVE_WT02)	18:47	67	18:09 (EVE_WT01)	20:38			21:27			22:02	18	06:19 (TEN_WT01)
15	08:44		10:57 (KLZ_WT06)	08:00		16:13 (KLZ_WT12)	07:02		07:24 (KLZ_WT17)	06:52			05:56			05:30		06:01 (TEN_WT01)
	17:06	144	16:34 (KLZ_WT13)	18:00	38	16:51 (KLZ_WT12)	18:49	68	18:08 (EVE_WT01)	20:40			21:28			22:02	19	06:20 (TEN_WT01)
16	08:43		10:57 (KLZ_WT06)	07:58		16:14 (KLZ_WT12)	06:59		07:22 (KLZ_WT17)	06:50			05:55			05:29		06:01 (TEN_WT01)
	17:08	144	16:35 (KLZ_WT13)	18:02	36	16:50 (KLZ_WT12)	18:50	67	18:07 (EVE_WT01)	20:42			21:30			22:03	19	06:20 (TEN_WT01)
17	08:42		10:58 (KLZ_WT06)	07:57		16:15 (KLZ_WT12)	06:57		07:19 (KLZ_WT17)	06:48			05:53			05:29		06:01 (TEN_WT01)
	17:09	143	16:35 (KLZ_WT13)	18:03	34	16:49 (KLZ_WT12)	18:52	64	18:04 (EVE_WT01)	20:43			21:31			22:03	19	06:20 (TEN_WT01)
18	08:41		10:58 (KLZ_WT06)	07:55		16:17 (KLZ_WT12)	06:55		07:17 (KLZ_WT17)	06:46			05:52			05:29		06:01 (TEN_WT01)
	17:11	143	16:36 (KLZ_WT13)	18:05	31	16:48 (KLZ_WT12)	18:54	58	18:01 (EVE_WT01)	20:45			21:33			22:04	19	06:20 (TEN_WT01)
19	08:40		10:59 (KLZ_WT06)	07:53		16:18 (KLZ_WT12)	06:53		07:15 (KLZ_WT17)	06:44			05:51			05:29		06:02 (TEN_WT01)
	17:12	141	16:36 (KLZ_WT13)	18:07	29	16:47 (KLZ_WT12)	18:55	48	08:31 (KLZ_WT05)	20:47			21:34			22:04	19	06:21 (TEN_WT01)
20	08:39		11:00 (KLZ_WT06)	07:51		16:21 (KLZ_WT12)	06:50		07:13 (KLZ_WT17)	06:42			05:49			05:30		06:02 (TEN_WT01)
	17:14	139	16:37 (KLZ_WT13)	18:09	24	16:45 (KLZ_WT12)	18:57	47	08:29 (KLZ_WT05)	20:48			21:35			22:04	19	06:21 (TEN_WT01)
21	08:38		11:00 (KLZ_WT06)	07:49		08:12 (SAM_WT06)	06:48		07:10 (KLZ_WT17)	06:40			05:48			05:30		06:02 (TEN_WT01)
	17:16	137	16:36 (KLZ_WT13)	18:11	24	16:43 (KLZ_WT12)	18:59	42	08:24 (KLZ_WT05)	20:50			21:37			22:04	19	06:21 (TEN_WT01)
22	08:37		11:01 (KLZ_WT06)	07:47		08:10 (SAM_WT06)	06:46		07:08 (KLZ_WT17)	06:38			05:47			05:30		06:03 (TEN_WT01)
	17:17	135	16:37 (KLZ_WT13)	18:12	22	16:40 (KLZ_WT12)	19:00	35	07:43 (KLZ_WT17)	20:52			21:38			22:05	19	06:22 (TEN_WT01)
23	08:36		11:02 (KLZ_WT06)	07:45		08:08 (SAM_WT06)	06:44		07:08 (KLZ_WT17)	06:36			05:46			05:30		06:03 (TEN_WT01)
	17:19	133	16:39 (KLZ_WT12)	18:14	11	08:19 (SAM_WT06)	19:02	35	07:43 (KLZ_WT17)	20:53			21:40			22:05	19	06:22 (TEN_WT01)
24	08:35		09:02 (SAM_WT07)	07:43		08:06 (SAM_WT06)	06:41		07:08 (KLZ_WT17)	06:34			05:44			05:30		06:02 (TEN_WT01)
	17:21	134	16:41 (KLZ_WT12)	18:16	13	08:19 (SAM_WT06)	19:04	35	07:43 (KLZ_WT17)	20:55			21:41			22:05	20	06:22 (TEN_WT01)
25	08:34		09:00 (SAM_WT07)	07:41		08:04 (SAM_WT06)	06:39		07:08 (KLZ_WT17)	06:32			05:43			05:31		06:03 (TEN_WT01)
	17:22	135	16:42 (KLZ_WT12)	18:18	16	08:20 (SAM_WT06)	19:05	34	07:42 (KLZ_WT17)	20:57			21:42			22:05	19	06:22 (TEN_WT01)
26	08:32		08:59 (SAM_WT07)	07:38		08:02 (SAM_WT06)	06:37		07:08 (KLZ_WT17)	06:30			05:42			05:31		06:03 (TEN_WT01)
	17:24	134	16:44 (KLZ_WT12)	18:19	18	08:20 (SAM_WT06)	19:07	33	07:41 (KLZ_WT17)	20:58			21:43			22:05	19	06:22 (TEN_WT01)
27	08:31		08:57 (SAM_WT07)	07:36		08:03 (SAM_WT06)	06:35		07:08 (KLZ_WT17)	06:28			05:41			05:32		06:03 (TEN_WT01)
	17:26	133	16:45 (KLZ_WT12)	18:21	16	08:19 (SAM_WT06)	19:09	32	07:40 (KLZ_WT17)	21:00			21:45			22:05	19	06:22 (TEN_WT01)
28	08:30		08:56 (SAM_WT07)	07:34		08:02 (SAM_WT06)	06:32		07:08 (KLZ_WT17)	06:26			05:40		06:07 (TEN_WT01)	05:32		06:04 (TEN_WT01)
	17:28	134	16:47 (KLZ_WT12)	18:23	16	08:18 (SAM_WT06)	19:10	31	07:39 (KLZ_WT17)	21:01			21:46	1	06:08 (TEN_WT01)	22:05	19	06:23 (TEN_WT01)
29	08:28		08:54 (SAM_WT07)				07:30		08:09 (KLZ_WT17)	06:24		06:48 (SAM_WT10)	05:39		06:07 (TEN_WT01)	05:33		06:03 (TEN_WT01)
	17:29	133	16:48 (KLZ_WT12)				20:12	28	08:37 (KLZ_WT17)	21:03	2	06:50 (SAM_WT10)	21:47	5	06:12 (TEN_WT01)	22:05	19	06:22 (TEN_WT01)
30	08:27		08:53 (SAM_WT07)				07:28		08:10 (KLZ_WT17)	06:22		06:46 (SAM_WT10)	05:38		06:06 (TEN_WT01)	05:33		06:04 (TEN_WT01)
	17:31	128	16:49 (KLZ_WT12)				20:14	26	08:36 (KLZ_WT17)	21:05	3	06:49 (SAM_WT10)	21:48	7	06:13 (TEN_WT01)	22:04	19	06:23 (TEN_WT01)
31	08:26		08:51 (SAM_WT07)				07:25		08:12 (KLZ_WT17)				05:37		06:05 (TEN_WT01)			
	17:33	127	17:03 (EVE_WT02)				20:15	22	08:34 (KLZ_WT17)				21:49	9	06:14 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		4280			1444			1415			96			45			529	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,67			0,68			0,59			0,63			0,69			0,71	
Total reduction		0,16			0,20			0,22			0,28			0,31			0,31	
Total, real		692			289			309			27			14			162	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:05 (TEN_WT01)	06:09			06:57		07:26 (KLZ_WT01)	07:44		08:09 (KLZ_WT17)	07:37		08:04 (SAM_WT11)	08:26		08:57 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:34			20:33	3	07:29 (KLZ_WT01)	19:25	63	18:50 (EVE_WT01)	17:21	69	16:47 (EVE_WT02)	16:42	149	16:09 (KLZ_WT13)
2	05:34		06:04 (TEN_WT01)	06:10			06:59		07:24 (KLZ_WT01)	07:46		08:46 (KLZ_WT05)	07:38		08:06 (SAM_WT11)	08:27		08:59 (SAM_WT05)
	22:04	19	06:23 (TEN_WT01)	21:32			20:31	6	07:30 (KLZ_WT01)	19:23	58	18:50 (EVE_WT01)	17:19	67	16:47 (EVE_WT02)	16:41	146	16:09 (KLZ_WT13)
3	05:35		06:05 (TEN_WT01)	06:12			07:00		07:26 (KLZ_WT01)	07:48		08:12 (SAM_WT08)	07:40		08:08 (SAM_WT04)	08:29		09:00 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:30			20:29	12	07:38 (KLZ_WT02)	19:21	62	18:49 (EVE_WT01)	17:17	70	16:47 (EVE_WT02)	16:41	145	16:08 (KLZ_WT13)
4	05:36		06:06 (TEN_WT01)	06:13			07:02		07:27 (KLZ_WT01)	07:49		08:14 (SAM_WT08)	07:42		08:09 (SAM_WT04)	08:30		09:02 (SAM_WT05)
	22:03	18	06:24 (TEN_WT01)	21:29			20:27	11	07:38 (KLZ_WT02)	19:19	59	18:49 (EVE_WT01)	17:16	69	16:46 (EVE_WT02)	16:40	142	16:08 (KLZ_WT13)
5	05:37		06:06 (TEN_WT01)	06:15			07:03		07:29 (KLZ_WT01)	07:51		08:46 (KLZ_WT05)	07:44		08:11 (SAM_WT04)	08:31		09:03 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:27			20:24	10	07:39 (KLZ_WT02)	19:16	57	18:49 (EVE_WT01)	17:14	81	16:44 (EVE_WT02)	16:40	140	16:07 (KLZ_WT13)
6	05:37		06:07 (TEN_WT01)	06:17			07:05		07:30 (KLZ_WT02)	07:53		08:45 (KLZ_WT05)	07:45		08:13 (SAM_WT04)	08:33		09:04 (SAM_WT05)
	22:02	16	06:23 (TEN_WT01)	21:25			20:22	8	07:38 (KLZ_WT02)	19:14	56	18:47 (EVE_WT01)	17:12	93	16:42 (EVE_WT02)	16:39	139	16:06 (KLZ_WT13)
7	05:38		06:08 (TEN_WT01)	06:18			07:06		07:32 (KLZ_WT02)	07:54		08:46 (KLZ_WT05)	07:47		08:15 (SAM_WT04)	08:34		09:06 (SAM_WT05)
	22:02	15	06:23 (TEN_WT01)	21:24			20:20	6	07:38 (KLZ_WT02)	19:12	51	18:45 (EVE_WT01)	17:11	101	16:41 (EVE_WT02)	16:39	136	16:06 (KLZ_WT13)
8	05:39		06:09 (TEN_WT01)	06:20			07:08		07:33 (KLZ_WT02)	07:56		08:47 (KLZ_WT05)	07:49		08:23 (SAM_WT07)	08:35		09:07 (SAM_WT05)
	22:01	14	06:23 (TEN_WT01)	21:22			20:18	4	07:37 (KLZ_WT02)	19:10	46	18:43 (EVE_WT01)	17:09	105	16:39 (EVE_WT02)	16:39	132	16:05 (KLZ_WT13)
9	05:40		06:10 (TEN_WT01)	06:21		06:49 (SAM_WT10)	07:10			07:57		08:47 (KLZ_WT05)	07:50		08:23 (SAM_WT07)	08:36		09:08 (SAM_WT05)
	22:00	13	06:23 (TEN_WT01)	21:20	6	06:55 (SAM_WT10)	20:15			19:08	41	18:40 (EVE_WT01)	17:07	107	16:38 (EVE_WT02)	16:38	130	16:05 (KLZ_WT13)
10	05:41		06:11 (TEN_WT01)	06:23		06:50 (SAM_WT10)	07:11		08:09 (KLZ_WT17)	07:59		08:49 (KLZ_WT05)	07:52		08:23 (SAM_WT07)	08:37		10:40 (KLZ_WT06)
	22:00	12	06:23 (TEN_WT01)	21:18	6	06:56 (SAM_WT10)	20:13	12	08:21 (KLZ_WT17)	19:05	34	18:38 (EVE_WT01)	17:06	119	16:36 (EVE_WT02)	16:38	129	16:05 (KLZ_WT13)
11	05:42		06:12 (TEN_WT01)	06:24		06:51 (SAM_WT10)	07:13		08:06 (KLZ_WT17)	08:01		08:40 (SAM_WT06)	07:54		08:23 (SAM_WT07)	08:38		10:41 (KLZ_WT06)
	21:59	11	06:23 (TEN_WT01)	21:16	5	06:56 (SAM_WT10)	20:11	18	08:24 (KLZ_WT17)	19:03	34	18:36 (EVE_WT01)	17:04	126	16:35 (EVE_WT02)	16:38	125	14:29 (KLZ_WT20)
12	05:43		06:13 (TEN_WT01)	06:26		06:53 (SAM_WT10)	07:14		08:03 (KLZ_WT17)	08:02		08:38 (SAM_WT06)	07:56		08:24 (SAM_WT07)	08:39		10:41 (KLZ_WT06)
	21:58	9	06:22 (TEN_WT01)	21:14	4	06:57 (SAM_WT10)	20:09	22	08:25 (KLZ_WT17)	19:01	28	09:09 (KLZ_WT05)	17:03	128	16:20 (KLZ_WT12)	16:38	126	14:30 (KLZ_WT20)
13	05:44		06:14 (TEN_WT01)	06:27		06:54 (SAM_WT10)	07:16		08:02 (KLZ_WT17)	08:04		08:36 (SAM_WT06)	07:57		08:26 (SAM_WT07)	08:40		10:42 (KLZ_WT06)
	21:57	8	06:22 (TEN_WT01)	21:13	3	06:57 (SAM_WT10)	20:06	25	08:27 (KLZ_WT17)	18:59	22	09:04 (KLZ_WT05)	17:01	132	16:19 (KLZ_WT12)	16:38	126	14:30 (KLZ_WT20)
14	05:45		06:15 (TEN_WT01)	06:29		06:56 (SAM_WT10)	07:17		08:00 (KLZ_WT17)	08:06		08:35 (SAM_WT06)	07:59		08:28 (SAM_WT07)	08:41		10:42 (KLZ_WT06)
	21:56	6	06:21 (TEN_WT01)	21:11	2	06:58 (SAM_WT10)	20:04	28	08:28 (KLZ_WT17)	18:57	16	08:51 (SAM_WT06)	17:00	134	16:19 (KLZ_WT12)	16:38	126	14:31 (KLZ_WT20)
15	05:46		06:16 (TEN_WT01)	06:30			07:19		07:59 (KLZ_WT17)	08:07		08:35 (SAM_WT06)	08:01		08:30 (SAM_WT07)	08:42		10:43 (KLZ_WT06)
	21:56	3	06:19 (TEN_WT01)	21:09			20:02	30	08:29 (KLZ_WT17)	18:55	17	08:52 (SAM_WT06)	16:59	133	16:18 (KLZ_WT12)	16:38	126	14:31 (KLZ_WT20)
16	05:48			06:32			07:21		07:57 (KLZ_WT17)	08:09		08:35 (SAM_WT06)	08:02		08:32 (SAM_WT07)	08:43		10:44 (KLZ_WT06)
	21:55			21:07			20:00	32	08:29 (KLZ_WT17)	18:52	17	08:52 (SAM_WT06)	16:57	134	16:17 (KLZ_WT12)	16:38	125	14:32 (KLZ_WT20)
17	05:49			06:34			07:22		07:56 (KLZ_WT17)	08:11		08:36 (SAM_WT06)	08:04		08:34 (SAM_WT07)	08:44		10:44 (KLZ_WT06)
	21:54			21:05			19:57	33	08:29 (KLZ_WT17)	18:50	15	08:51 (SAM_WT06)	16:56	135	16:16 (KLZ_WT12)	16:38	126	14:33 (KLZ_WT20)
18	05:50			06:35			07:24		07:55 (KLZ_WT17)	08:12		08:38 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		10:44 (KLZ_WT06)
	21:53			21:03			19:55	34	08:29 (KLZ_WT17)	18:48	12	08:50 (SAM_WT06)	16:55	134	16:15 (KLZ_WT12)	16:39	125	14:32 (KLZ_WT20)
19	05:51			06:37			07:25		07:55 (KLZ_WT17)	08:14		08:40 (SAM_WT06)	08:08		10:36 (KLZ_WT06)	08:45		10:45 (KLZ_WT06)
	21:51			21:01			19:53	34	08:29 (KLZ_WT17)	18:46	15	17:07 (KLZ_WT12)	16:53	133	16:13 (KLZ_WT12)	16:39	125	14:33 (KLZ_WT20)
20	05:52			06:38			07:27		07:55 (KLZ_WT17)	08:16		08:42 (SAM_WT06)	08:09		10:36 (KLZ_WT06)	08:46		10:46 (KLZ_WT06)
	21:50			20:59			19:50	35	08:30 (KLZ_WT17)	18:44	22	17:12 (KLZ_WT12)	16:52	135	16:12 (KLZ_WT13)	16:39	125	14:34 (KLZ_WT20)
21	05:54			06:40			07:28		07:54 (KLZ_WT17)	08:18		08:43 (SAM_WT06)	08:11		10:36 (KLZ_WT06)	08:47		10:46 (KLZ_WT06)
	21:49			20:57			19:48	35	08:29 (KLZ_WT17)	18:42	24	17:14 (KLZ_WT12)	16:51	137	16:12 (KLZ_WT13)	16:40	125	14:34 (KLZ_WT20)
22	05:55			06:41			07:30		07:55 (KLZ_WT17)	08:19		16:50 (KLZ_WT12)	08:12		10:36 (KLZ_WT06)	08:47		10:47 (KLZ_WT06)
	21:48			20:55			19:46	38	09:07 (KLZ_WT05)	18:40	26	17:16 (KLZ_WT12)	16:50	139	16:13 (KLZ_WT13)	16:40	125	14:35 (KLZ_WT20)
23	05:56			06:43			07:32		07:56 (KLZ_WT17)	08:21		16:48 (KLZ_WT12)	08:14		10:35 (KLZ_WT06)	08:48		10:47 (KLZ_WT06)
	21:47			20:53			19:44	45	09:11 (KLZ_WT05)	18:38	30	17:18 (KLZ_WT12)	16:49	141	16:12 (KLZ_WT13)	16:41	125	14:35 (KLZ_WT20)
24	05:58			06:44			07:33		07:58 (KLZ_WT17)	08:23		16:47 (KLZ_WT12)	08:16		10:35 (KLZ_WT06)	08:48		10:47 (KLZ_WT06)
	21:45			20:50			19:41	48	09:14 (KLZ_WT05)	18:36	32	17:19 (KLZ_WT12)	16:48	143	16:13 (KLZ_WT13)	16:41	125	14:35 (KLZ_WT20)
25	05:59			06:46			07:35		07:59 (KLZ_WT17)	07:24		15:46 (KLZ_WT12)	08:17		10:36 (KLZ_WT06)	08:48		10:48 (KLZ_WT06)
	21:44			20:48			19:39	52	18:41 (EVE_WT01)	17:34	34	16:20 (KLZ_WT12)	16:47	143	16:13 (KLZ_WT13)	16:42	125	14:36 (KLZ_WT20)
26	06:00			06:48			07:36		08:01 (KLZ_WT17)	07:26		15:45 (KLZ_WT12)	08:19		10:35 (KLZ_WT06)	08:49		10:48 (KLZ_WT06)
	21:43			20:46			19:37	63	18:46 (EVE_WT01)	17:32	36	16:21 (KLZ_WT12)	16:46	144	16:13 (KLZ_WT13)	16:43	126	14:37 (KLZ_WT20)
27	06:02			06:49			07:38		08:03 (KLZ_WT17)	07:28		15:43 (KLZ_WT12)	08:20		10:36 (KLZ_WT06)	08:49		10:48 (KLZ_WT06)
	21:41			20:44			19:34	66	18:48 (EVE_WT01)	17:30	38	16:21 (KLZ_WT12)	16:45	144	16:13 (KLZ_WT13)	16:43	126	14:37 (KLZ_WT20)
28	06:03			06:51			07:40		08:04 (KLZ_WT17)	07:30		15:42 (KLZ_WT12)	08:22		08:56 (SAM_WT05)	08:49		10:49 (KLZ_WT06)
	21:40			20:42			19:32	67	18:48 (EVE_WT01)	17:28	48	16:41 (EVE_WT02)	16:44	149	16:12 (KLZ_WT13)	16:44	125	14:37 (KLZ_WT20)
29	06:05			06:52			07:41		08:06 (KLZ_WT17)	07:31		08:01 (SAM_WT11)	08:23		08:55 (SAM_WT05)	08:49		10:49 (KLZ_WT06)
	21:38			20:40			19:30	68	18:50 (EVE_WT01)	17:26	59	16:43 (EVE_WT02)	16:43	150	16:11 (KLZ_WT13)	16:45	126	14:38 (KLZ_WT20)
30	06:06			06:54			07:43		08:07 (KLZ_WT17)	07:33		08:00 (SAM_WT11)	08:25		08:56 (SAM_WT05)	08:50		10:50 (KLZ_WT06)
	21:37			20:38			19:28	66	18:49 (EVE_WT01)	17:25	68	16:45 (EVE_WT02)	16:43	149	16:10 (KLZ_WT13)	16:46	125	14:38 (KLZ_WT20)
31	06:08			06:56						07:35		08:02 (SAM_WT11)				08:50		10:50 (KLZ_WT06)
	21:35			20:35						17:23	68	16:46 (EVE_WT02)				16:47	125	14:38 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		197			26			911			1188			3644			4021	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,67			0,60			0,63			0,68			0,66	
Total reduction		0,31			0,31			0,25			0,22			0,18			0,15	
Total, real		61			8			229			266			642			586	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:26 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32			07:23		19:11 (KLZ_WT20)	06:20		19:47 (KLZ_WT06)	05:36		
	16:48	63	15:12 (KLZ_WT21)	17:35	29	09:29 (SAM_WT07)	18:25			20:17	39	19:50 (KLZ_WT20)	21:06	25	20:12 (KLZ_WT06)	21:51		
2	08:50		09:26 (SAM_WT05)	08:23		09:00 (SAM_WT07)	07:30			07:21		19:11 (KLZ_WT20)	06:18		19:47 (KLZ_WT06)	05:36		
	16:49	62	15:12 (KLZ_WT21)	17:36	29	09:29 (SAM_WT07)	18:26			20:19	42	19:53 (KLZ_WT12)	21:08	24	20:11 (KLZ_WT06)	21:52		
3	08:49		09:27 (SAM_WT05)	08:21		08:59 (SAM_WT07)	07:28			07:19		19:10 (KLZ_WT20)	06:16		19:47 (KLZ_WT06)	05:35		
	16:50	62	15:13 (KLZ_WT21)	17:38	30	09:29 (SAM_WT07)	18:28			20:20	45	19:55 (KLZ_WT12)	21:09	23	20:10 (KLZ_WT06)	21:53		
4	08:49		09:27 (SAM_WT05)	08:19		09:00 (SAM_WT07)	07:26			07:16		19:10 (KLZ_WT20)	06:15		19:49 (KLZ_WT06)	05:34		
	16:51	61	15:13 (KLZ_WT21)	17:40	30	09:30 (SAM_WT07)	18:30			20:22	47	19:57 (EVE_WT01)	21:11	21	20:10 (KLZ_WT06)	21:54		
5	08:49		09:28 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24			07:14		19:10 (KLZ_WT20)	06:13		19:50 (KLZ_WT06)	05:33		
	16:52	60	15:13 (KLZ_WT21)	17:42	32	09:30 (SAM_WT07)	18:32			20:24	48	19:58 (EVE_WT01)	21:13	19	20:09 (KLZ_WT06)	21:55		
6	08:49		09:29 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21			07:12		19:09 (KLZ_WT20)	06:11		19:50 (KLZ_WT06)	05:33		
	16:54	58	15:13 (KLZ_WT21)	17:44	35	09:30 (SAM_WT07)	18:33			20:25	50	19:59 (EVE_WT01)	21:14	17	20:07 (KLZ_WT06)	21:56		
7	08:48		09:30 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19			07:10		19:09 (KLZ_WT20)	06:09		19:53 (KLZ_WT06)	05:32		
	16:55	57	15:14 (KLZ_WT21)	17:45	38	09:30 (SAM_WT07)	18:35			20:27	52	20:01 (EVE_WT01)	21:16	13	20:06 (KLZ_WT06)	21:56		
8	08:48		09:31 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17			07:08		07:30 (SWB_WT01_RP)	06:08		19:54 (KLZ_WT06)	05:32		06:00 (KLZ_WT01)
	16:56	55	15:13 (KLZ_WT21)	17:47	39	09:30 (SAM_WT07)	18:37			20:29	54	20:03 (EVE_WT01)	21:17	10	20:04 (KLZ_WT06)	21:57	2	06:02 (KLZ_WT01)
9	08:47		09:32 (SAM_WT05)	08:11		08:36 (SAM_WT04)	07:15			07:05		07:28 (SWB_WT01_RP)	06:06			05:31		06:00 (KLZ_WT01)
	16:57	54	15:14 (KLZ_WT21)	17:49	41	09:30 (SAM_WT07)	18:39			20:30	57	20:05 (EVE_WT01)	21:19			21:58	3	06:03 (KLZ_WT01)
10	08:47		09:33 (SAM_WT05)	08:09		08:34 (SAM_WT04)	07:13		07:44 (SAM_WT06)	07:03		19:11 (KLZ_WT20)	06:04			05:31		06:00 (KLZ_WT01)
	16:59	51	15:14 (KLZ_WT21)	17:51	41	09:29 (SAM_WT07)	18:40	3	07:47 (SAM_WT06)	20:32	55	20:06 (EVE_WT01)	21:21			21:59	4	06:04 (KLZ_WT01)
11	08:46		09:35 (SAM_WT05)	08:08		08:32 (SAM_WT04)	07:10		07:39 (SAM_WT06)	07:01		19:11 (KLZ_WT20)	06:03		06:28 (SAM_WT09)	05:31		05:59 (KLZ_WT01)
	17:00	47	15:14 (KLZ_WT21)	17:53	41	09:28 (SAM_WT07)	18:42	13	07:52 (SAM_WT06)	20:33	52	20:03 (EVE_WT01)	21:22	1	06:29 (SAM_WT09)	22:00	5	06:04 (KLZ_WT01)
12	08:46		14:34 (KLZ_WT21)	08:06		08:30 (SAM_WT11)	07:08		07:36 (SAM_WT06)	06:59		19:11 (KLZ_WT20)	06:01		06:26 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:02	40	15:14 (KLZ_WT21)	17:54	40	09:27 (SAM_WT07)	18:44	20	18:19 (KLZ_WT13)	20:35	49	20:01 (EVE_WT01)	21:24	1	06:27 (SAM_WT09)	22:00	6	06:05 (KLZ_WT01)
13	08:45		14:35 (KLZ_WT21)	08:04		08:28 (SAM_WT11)	07:06		07:34 (SAM_WT06)	06:57		19:13 (KLZ_WT20)	05:59		06:25 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:03	39	15:14 (KLZ_WT21)	17:56	38	09:25 (SAM_WT07)	18:45	25	18:20 (KLZ_WT13)	20:37	41	19:58 (KLZ_WT12)	21:25	1	06:26 (SAM_WT09)	22:01	7	06:06 (KLZ_WT01)
14	08:44		14:35 (KLZ_WT21)	08:02		08:26 (SAM_WT11)	07:04		07:32 (SAM_WT06)	06:55		19:14 (KLZ_WT20)	05:58			05:30		05:59 (KLZ_WT01)
	17:05	39	15:14 (KLZ_WT21)	17:58	35	09:24 (SAM_WT07)	18:47	31	18:22 (KLZ_WT13)	20:38	31	19:54 (KLZ_WT12)	21:27			22:02	7	06:06 (KLZ_WT01)
15	08:44		14:36 (KLZ_WT21)	08:00		08:24 (SAM_WT11)	07:02		07:31 (SAM_WT06)	06:52		19:16 (KLZ_WT20)	05:56			05:30		05:59 (KLZ_WT01)
	17:06	38	15:14 (KLZ_WT21)	18:00	30	09:21 (SAM_WT07)	18:49	36	18:24 (KLZ_WT13)	20:40	24	19:40 (KLZ_WT20)	21:28			22:02	8	06:07 (KLZ_WT01)
16	08:43		14:37 (KLZ_WT21)	07:58		08:22 (SAM_WT11)	06:59		07:30 (SAM_WT06)	06:50		07:13 (SAM_WT02)	05:55			05:29		05:59 (KLZ_WT01)
	17:08	36	15:13 (KLZ_WT21)	18:02	24	09:17 (SAM_WT07)	18:50	40	18:26 (KLZ_WT13)	20:42	21	19:37 (KLZ_WT20)	21:30			22:03	8	06:07 (KLZ_WT01)
17	08:42		14:39 (KLZ_WT21)	07:56		08:20 (SAM_WT11)	06:57		07:29 (SAM_WT06)	06:48		07:11 (SAM_WT02)	05:53			05:29		05:59 (KLZ_WT01)
	17:09	34	15:13 (KLZ_WT21)	18:03	21	08:41 (SAM_WT11)	18:52	42	18:27 (KLZ_WT13)	20:43	17	19:34 (KLZ_WT20)	21:31			22:03	8	06:07 (KLZ_WT01)
18	08:41		14:40 (KLZ_WT21)	07:55		08:20 (SAM_WT11)	06:55		07:29 (SAM_WT06)	06:46		07:09 (SAM_WT02)	05:52			05:29		05:59 (KLZ_WT01)
	17:11	33	15:13 (KLZ_WT21)	18:05	20	08:40 (SAM_WT11)	18:54	43	18:28 (KLZ_WT13)	20:45	3	07:12 (SAM_WT02)	21:33			22:03	8	06:07 (KLZ_WT01)
19	08:40		14:42 (KLZ_WT21)	07:53		08:21 (SAM_WT11)	06:53		07:15 (SAM_WT08)	06:44		19:56 (KLZ_WT06)	05:51			05:29		05:59 (KLZ_WT01)
	17:12	30	15:12 (KLZ_WT21)	18:07	18	08:39 (SAM_WT11)	18:55	42	18:27 (KLZ_WT13)	20:47	10	20:06 (KLZ_WT06)	21:34			22:04	9	06:08 (KLZ_WT01)
20	08:39		14:43 (KLZ_WT21)	07:51		08:22 (SAM_WT11)	06:50		07:13 (SAM_WT08)	06:42		19:53 (KLZ_WT06)	05:49			05:30		05:59 (KLZ_WT01)
	17:14	28	15:11 (KLZ_WT21)	18:09	16	08:38 (SAM_WT11)	18:57	40	18:25 (KLZ_WT13)	20:48	16	20:09 (KLZ_WT06)	21:35			22:04	9	06:08 (KLZ_WT01)
21	08:38		14:44 (KLZ_WT21)	07:49		08:24 (SAM_WT11)	06:48		07:10 (SAM_WT08)	06:40		19:52 (KLZ_WT06)	05:48			05:30		05:59 (KLZ_WT01)
	17:16	25	15:09 (KLZ_WT21)	18:11	12	08:36 (SAM_WT11)	18:59	33	07:56 (SAM_WT06)	20:50	18	20:10 (KLZ_WT06)	21:37			22:04	9	06:08 (KLZ_WT01)
22	08:37		14:47 (KLZ_WT21)	07:47		08:27 (SAM_WT11)	06:46		07:08 (SAM_WT08)	06:38		19:50 (KLZ_WT06)	05:47			05:30		06:00 (KLZ_WT01)
	17:17	21	15:08 (KLZ_WT21)	18:12	6	08:33 (SAM_WT11)	19:00	35	07:56 (SAM_WT06)	20:52	21	20:11 (KLZ_WT06)	21:38			22:05	9	06:09 (KLZ_WT01)
23	08:36		09:10 (SAM_WT07)	07:45			06:44		07:06 (SAM_WT08)	06:36		06:59 (SAM_WT03)	05:45			05:30		06:00 (KLZ_WT01)
	17:19	24	16:48 (KLZ_WT15)	18:14			19:02	44	18:37 (KLZ_WT20)	20:53	25	20:12 (KLZ_WT06)	21:40			22:05	9	06:09 (KLZ_WT01)
24	08:35		09:06 (SAM_WT07)	07:43			06:41		07:03 (SAM_WT08)	06:34		06:57 (SAM_WT03)	05:44			05:30		06:00 (KLZ_WT01)
	17:21	24	16:49 (KLZ_WT15)	18:16			19:04	48	18:38 (KLZ_WT20)	20:55	28	20:13 (KLZ_WT06)	21:41			22:05	9	06:09 (KLZ_WT01)
25	08:34		09:05 (SAM_WT07)	07:41			06:39		07:29 (SAM_WT06)	06:32		06:55 (SAM_WT03)	05:43			05:31		06:01 (KLZ_WT01)
	17:22	18	16:51 (KLZ_WT15)	18:18			19:05	42	18:40 (KLZ_WT20)	20:56	31	20:13 (KLZ_WT06)	21:42			22:05	8	06:09 (KLZ_WT01)
26	08:32		09:04 (SAM_WT07)	07:38			06:37		07:31 (SAM_WT06)	06:30		06:53 (SAM_WT03)	05:42			05:31		06:01 (KLZ_WT01)
	17:24	20	16:53 (KLZ_WT15)	18:19			19:07	42	18:42 (KLZ_WT20)	20:58	32	20:13 (KLZ_WT06)	21:43			22:05	8	06:09 (KLZ_WT01)
27	08:31		09:02 (SAM_WT07)	07:36			06:34		07:32 (SAM_WT06)	06:28		06:53 (SAM_WT03)	05:41			05:32		06:01 (KLZ_WT01)
	17:26	22	09:24 (SAM_WT07)	18:21			19:09	43	18:44 (KLZ_WT20)	21:00	31	20:13 (KLZ_WT06)	21:45			22:05	8	06:09 (KLZ_WT01)
28	08:30		09:02 (SAM_WT07)	07:34			06:32		07:34 (SAM_WT06)	06:26		19:46 (KLZ_WT06)	05:40			05:32		06:02 (KLZ_WT01)
	17:28	23	09:25 (SAM_WT07)	18:23			19:10	40	18:45 (KLZ_WT20)	21:01	27	20:13 (KLZ_WT06)	21:46			22:05	7	06:09 (KLZ_WT01)
29	08:28		09:01 (SAM_WT07)				07:30		19:14 (KLZ_WT20)	06:24		19:47 (KLZ_WT06)	05:39			05:33		06:02 (KLZ_WT01)
	17:29	25	09:26 (SAM_WT07)				20:12	33	19:47 (KLZ_WT20)	21:03	26	20:13 (KLZ_WT06)	21:47			22:05	7	06:09 (KLZ_WT01)
30	08:27		09:01 (SAM_WT07)				07:28		19:13 (KLZ_WT20)	06:22		19:47 (KLZ_WT06)	05:38			05:33		06:03 (KLZ_WT01)
	17:31	26	09:27 (SAM_WT07)				20:14	36	19:49 (KLZ_WT20)	21:05	26	20:13 (KLZ_WT06)	21:48			22:04	6	06:09 (KLZ_WT01)
31	08:25		09:00 (SAM_WT07)				07:25		19:13 (KLZ_WT20)				05:37					
	17:33	28	09:28 (SAM_WT07)				20:15	37	19:50 (KLZ_WT20)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1203			645			768			1018			155			164	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,68			0,55			0,60			0,60			0,57			0,71	
Total reduction		0,16			0,16			0,22			0,27			0,25			0,31	
Total, real		197			104			171			277			39			50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT01)	06:09		06:37 (SAM_WT09)	06:57		19:10 (KLZ_WT20)	07:44		08:14 (SAM_WT06)	07:36		08:04 (SAM_WT04)	08:26		09:17 (SAM_WT05)
	22:04	6	06:10 (KLZ_WT01)	21:34	1	06:38 (SAM_WT09)	20:33	53	20:03 (EVE_WT01)	19:25	22	18:58 (KLZ_WT13)	17:21	41	08:59 (SAM_WT07)	16:42	47	14:56 (KLZ_WT21)
2	05:34		06:04 (KLZ_WT01)	06:10			06:59		19:09 (KLZ_WT20)	07:46		08:17 (SAM_WT06)	07:38		08:06 (SAM_WT04)	08:27		09:17 (SAM_WT05)
	22:04	5	06:09 (KLZ_WT01)	21:32			20:31	54	20:03 (EVE_WT01)	19:23	15	08:32 (SAM_WT06)	17:19	39	08:59 (SAM_WT07)	16:41	50	14:57 (KLZ_WT21)
3	05:35		06:05 (KLZ_WT01)	06:12			07:00		07:26 (SWB_WT01_RP)	07:48		08:19 (SAM_WT06)	07:40		08:07 (SAM_WT04)	08:29		09:16 (SAM_WT05)
	22:04	4	06:09 (KLZ_WT01)	21:30			20:29	57	20:03 (EVE_WT01)	19:21	9	08:28 (SAM_WT06)	17:17	39	08:59 (SAM_WT07)	16:41	52	14:57 (KLZ_WT21)
4	05:36		06:06 (KLZ_WT01)	06:13		20:07 (KLZ_WT06)	07:02		07:27 (SWB_WT01_RP)	07:49			07:42		08:09 (SAM_WT04)	08:30		09:16 (SAM_WT05)
	22:03	3	06:09 (KLZ_WT01)	21:29	4	20:11 (KLZ_WT06)	20:27	54	20:00 (EVE_WT01)	19:19			17:16	37	08:59 (SAM_WT07)	16:40	55	14:58 (KLZ_WT21)
5	05:37		06:06 (KLZ_WT01)	06:15		20:04 (KLZ_WT06)	07:03		19:07 (KLZ_WT20)	07:51			07:43		08:11 (SAM_WT04)	08:31		09:15 (SAM_WT05)
	22:03	1	06:07 (KLZ_WT01)	21:27	11	20:15 (KLZ_WT06)	20:24	51	19:58 (EVE_WT01)	19:16			17:14	36	09:00 (SAM_WT07)	16:40	57	14:59 (KLZ_WT21)
6	05:37			06:16		20:01 (KLZ_WT06)	07:05		19:05 (KLZ_WT20)	07:53			07:45		08:13 (SAM_WT04)	08:33		09:15 (SAM_WT05)
	22:02			21:25	15	20:16 (KLZ_WT06)	20:22	50	19:55 (EVE_WT01)	19:14			17:12	32	09:00 (SAM_WT07)	16:39	58	14:59 (KLZ_WT21)
7	05:38			06:18		20:00 (KLZ_WT06)	07:06		19:05 (KLZ_WT20)	07:54			07:47		08:30 (SAM_WT07)	08:34		09:16 (SAM_WT05)
	22:02			21:24	18	20:18 (KLZ_WT06)	20:20	49	19:54 (EVE_WT01)	19:12			17:11	30	09:00 (SAM_WT07)	16:39	59	15:00 (KLZ_WT21)
8	05:39			06:20		19:59 (KLZ_WT06)	07:08		19:04 (KLZ_WT20)	07:56			07:49		08:30 (SAM_WT07)	08:35		09:15 (SAM_WT05)
	22:01			21:22	20	20:19 (KLZ_WT06)	20:18	47	19:51 (EVE_WT01)	19:10			17:09	30	09:00 (SAM_WT07)	16:39	61	15:01 (KLZ_WT21)
9	05:40			06:21		19:57 (KLZ_WT06)	07:10		19:05 (KLZ_WT20)	07:57			07:50		08:31 (SAM_WT07)	08:36		09:15 (SAM_WT05)
	22:00			21:20	22	20:19 (KLZ_WT06)	20:15	44	19:49 (KLZ_WT12)	19:08			17:07	29	09:00 (SAM_WT07)	16:38	62	15:01 (KLZ_WT21)
10	05:41			06:23		19:57 (KLZ_WT06)	07:11		19:04 (KLZ_WT20)	07:59			07:52		08:31 (SAM_WT07)	08:37		09:15 (SAM_WT05)
	22:00			21:18	23	20:20 (KLZ_WT06)	20:13	42	19:46 (KLZ_WT12)	19:05			17:06	29	09:00 (SAM_WT07)	16:38	62	15:01 (KLZ_WT21)
11	05:42			06:24		19:55 (KLZ_WT06)	07:13		19:04 (KLZ_WT20)	08:01			07:54		08:32 (SAM_WT07)	08:38		09:16 (SAM_WT05)
	21:59			21:16	25	20:20 (KLZ_WT06)	20:11	39	19:43 (KLZ_WT20)	19:03			17:04	28	09:00 (SAM_WT07)	16:38	63	15:02 (KLZ_WT21)
12	05:43			06:26		19:55 (KLZ_WT06)	07:14		19:04 (KLZ_WT20)	08:02			07:56		08:32 (SAM_WT07)	08:39		09:16 (SAM_WT05)
	21:58			21:14	26	20:21 (KLZ_WT06)	20:09	38	19:42 (KLZ_WT20)	19:01			17:03	26	08:58 (SAM_WT07)	16:38	63	15:02 (KLZ_WT21)
13	05:44			06:27		19:54 (KLZ_WT06)	07:16		19:05 (KLZ_WT20)	08:04			07:57		08:33 (SAM_WT07)	08:40		09:16 (SAM_WT05)
	21:57			21:12	26	20:20 (KLZ_WT06)	20:06	35	19:40 (KLZ_WT20)	18:59			17:01	25	08:58 (SAM_WT07)	16:38	64	15:03 (KLZ_WT21)
14	05:45			06:29		19:54 (KLZ_WT06)	07:17		19:04 (KLZ_WT20)	08:06			07:59		08:34 (SAM_WT07)	08:41		09:17 (SAM_WT05)
	21:56			21:11	27	20:21 (KLZ_WT06)	20:04	33	19:37 (KLZ_WT20)	18:57			17:00	23	08:57 (SAM_WT07)	16:38	63	15:03 (KLZ_WT21)
15	05:46			06:30		19:54 (KLZ_WT06)	07:19		08:26 (SAM_WT06)	08:07			08:01		08:35 (SAM_WT07)	08:42		09:17 (SAM_WT05)
	21:56			21:09	26	20:20 (KLZ_WT06)	20:02	38	19:35 (KLZ_WT20)	18:55			16:58	22	08:57 (SAM_WT07)	16:38	64	15:04 (KLZ_WT21)
16	05:48			06:32		07:00 (SAM_WT03)	07:21		08:21 (SAM_WT06)	08:09			08:02		08:37 (SAM_WT07)	08:43		09:18 (SAM_WT05)
	21:55			21:07	31	20:20 (KLZ_WT06)	19:59	42	19:33 (KLZ_WT20)	18:52			16:57	21	16:26 (KLZ_WT15)	16:38	65	15:05 (KLZ_WT21)
17	05:49			06:33		07:00 (SAM_WT03)	07:22		08:19 (SAM_WT06)	08:11			08:04		08:39 (SAM_WT07)	08:44		09:18 (SAM_WT05)
	21:54			21:05	31	20:19 (KLZ_WT06)	19:57	43	19:31 (KLZ_WT20)	18:50			16:56	18	16:25 (KLZ_WT15)	16:38	64	15:05 (KLZ_WT21)
18	05:50			06:35		07:02 (SAM_WT03)	07:24		08:17 (SAM_WT06)	08:12			08:06		08:40 (SAM_WT07)	08:45		09:18 (SAM_WT05)
	21:52			21:03	30	20:19 (KLZ_WT06)	19:55	42	19:28 (KLZ_WT20)	18:48			16:55	24	16:23 (KLZ_WT15)	16:39	64	15:05 (KLZ_WT21)
19	05:51			06:37		07:03 (SAM_WT03)	07:25		07:51 (SAM_WT08)	08:14			08:07		08:44 (SAM_WT07)	08:45		09:19 (SAM_WT05)
	21:51			21:01	27	20:18 (KLZ_WT06)	19:53	47	19:26 (KLZ_WT20)	18:46			16:53	24	16:22 (KLZ_WT15)	16:39	65	15:06 (KLZ_WT21)
20	05:52			06:38		07:05 (SAM_WT03)	07:27		07:52 (SAM_WT08)	08:16		08:57 (SAM_WT11)	08:09		14:22 (KLZ_WT21)	08:46		09:20 (SAM_WT05)
	21:50			20:59	24	20:18 (KLZ_WT06)	19:50	46	19:24 (KLZ_WT20)	18:44	8	09:05 (SAM_WT11)	16:52	21	14:43 (KLZ_WT21)	16:39	65	15:07 (KLZ_WT21)
21	05:54			06:40		19:55 (KLZ_WT06)	07:28		07:53 (SAM_WT08)	08:17		08:54 (SAM_WT11)	08:11		14:20 (KLZ_WT21)	08:47		09:20 (SAM_WT05)
	21:49			20:57	21	20:16 (KLZ_WT06)	19:48	34	08:41 (SAM_WT06)	18:42	13	09:07 (SAM_WT11)	16:51	25	14:45 (KLZ_WT21)	16:40	65	15:07 (KLZ_WT21)
22	05:55			06:41		19:56 (KLZ_WT06)	07:30		07:55 (SAM_WT08)	08:19		08:52 (SAM_WT11)	08:12		14:19 (KLZ_WT21)	08:47		09:21 (SAM_WT05)
	21:48			20:55	18	20:14 (KLZ_WT06)	19:46	35	08:42 (SAM_WT06)	18:40	17	09:09 (SAM_WT11)	16:50	28	14:47 (KLZ_WT21)	16:40	65	15:08 (KLZ_WT21)
23	05:56			06:43		19:57 (KLZ_WT06)	07:32		07:56 (SAM_WT08)	08:21		08:51 (SAM_WT11)	08:14		14:18 (KLZ_WT21)	08:48		09:21 (SAM_WT05)
	21:47			20:52	15	20:12 (KLZ_WT06)	19:44	39	19:08 (KLZ_WT13)	18:38	19	09:10 (SAM_WT11)	16:49	30	14:48 (KLZ_WT21)	16:41	65	15:08 (KLZ_WT21)
24	05:58			06:44		20:00 (KLZ_WT06)	07:33		07:58 (SAM_WT08)	08:23		08:51 (SAM_WT11)	08:16		14:17 (KLZ_WT21)	08:48		09:21 (SAM_WT05)
	21:45			20:50	10	20:10 (KLZ_WT06)	19:41	40	19:10 (KLZ_WT13)	18:36	20	09:11 (SAM_WT11)	16:48	33	14:50 (KLZ_WT21)	16:41	65	15:08 (KLZ_WT21)
25	05:59			06:46		07:12 (SAM_WT02)	07:35		08:11 (SAM_WT06)	07:24		07:51 (SAM_WT11)	08:17		14:17 (KLZ_WT21)	08:48		09:22 (SAM_WT05)
	21:44			20:48	5	19:31 (KLZ_WT20)	19:39	43	19:11 (KLZ_WT13)	17:34	20	08:11 (SAM_WT11)	16:47	34	14:51 (KLZ_WT21)	16:42	64	15:09 (KLZ_WT21)
26	06:00			06:48		07:14 (SAM_WT02)	07:36		08:11 (SAM_WT06)	07:26		07:53 (SAM_WT11)	08:19		14:16 (KLZ_WT21)	08:49		09:22 (SAM_WT05)
	21:43			20:46	17	19:37 (KLZ_WT20)	19:37	42	19:10 (KLZ_WT13)	17:32	26	08:49 (SAM_WT07)	16:46	35	14:51 (KLZ_WT21)	16:43	64	15:09 (KLZ_WT21)
27	06:02			06:49		07:15 (SAM_WT02)	07:38		08:12 (SAM_WT06)	07:28		07:54 (SAM_WT11)	08:20		14:15 (KLZ_WT21)	08:49		09:23 (SAM_WT05)
	21:41			20:44	22	19:39 (KLZ_WT20)	19:34	40	19:08 (KLZ_WT13)	17:30	31	08:51 (SAM_WT07)	16:45	38	14:53 (KLZ_WT21)	16:43	65	15:10 (KLZ_WT21)
28	06:03			06:51		19:17 (KLZ_WT20)	07:40		08:12 (SAM_WT06)	07:30		07:56 (SAM_WT11)	08:22		14:16 (KLZ_WT21)	08:49		09:23 (SAM_WT05)
	21:40			20:42	25	19:42 (KLZ_WT20)	19:32	36	19:05 (KLZ_WT13)	17:28	36	08:54 (SAM_WT07)	16:44	38	14:54 (KLZ_WT21)	16:44	64	15:10 (KLZ_WT21)
29	06:05			06:52		19:15 (KLZ_WT20)	07:41		08:13 (SAM_WT06)	07:31		07:58 (SAM_WT11)	08:23		14:15 (KLZ_WT21)	08:49		09:23 (SAM_WT05)
	21:38			20:40	33	19:56 (KLZ_WT12)	19:30	33	19:03 (KLZ_WT13)	17:26	39	08:55 (SAM_WT07)	16:43	39	14:54 (KLZ_WT21)	16:45	64	15:10 (KLZ_WT21)
30	06:06			06:54		19:13 (KLZ_WT20)	07:43		08:13 (SAM_WT06)	07:33		08:00 (SAM_WT11)	08:25		14:15 (KLZ_WT21)	08:50		09:24 (SAM_WT05)
	21:37			20:38	42	19:59 (KLZ_WT12)	19:28	28	19:00 (KLZ_WT13)	17:25	41	08:57 (SAM_WT07)	16:43	40	14:55 (KLZ_WT21)	16:46	64	15:11 (KLZ_WT21)
31	06:08		06:36 (SAM_WT09)	06:55		19:11 (KLZ_WT20)				07:35		08:02 (SAM_WT04)				08:50		09:25 (SAM_WT05)
	21:35	1	06:37 (SAM_WT09)	20:35	49	20:01 (EVE_WT01)				17:23	41	08:58 (SAM_WT07)				16:47	63	15:11 (KLZ_WT21)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		20			644			1274			357			914			1911	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,71			0,58			0,61			0,56			0,62			0,67	
Total reduction		0,31			0,27			0,26			0,20			0,16			0,15	
Total, real		6			171			326			70			149			283	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		10:08 (SAM_WT07)	08:24			07:32		17:40 (KLZ_WT20)	07:23		07:45 (SWB_WT01_RP)	06:20			05:36		06:24 (KLZ_WT01)
	16:48	38	15:14 (KLZ_WT21)	17:35			18:25	19	17:59 (KLZ_WT13)	20:17	31	19:30 (KLZ_WT05)	21:06			21:51	79	19:56 (KLZ_WT04)
2	08:50		10:09 (SAM_WT07)	08:22			07:30		17:39 (KLZ_WT20)	07:21		07:43 (SWB_WT01_RP)	06:18			05:36		06:25 (KLZ_WT01)
	16:49	35	15:14 (KLZ_WT21)	17:36			18:26	22	18:01 (KLZ_WT13)	20:19	32	19:31 (KLZ_WT05)	21:08			21:52	78	19:57 (KLZ_WT04)
3	08:49		10:10 (SAM_WT07)	08:21			07:28		17:39 (KLZ_WT20)	07:19		19:01 (KLZ_WT05)	06:16			05:35		06:03 (SAM_WT10)
	16:50	32	15:13 (KLZ_WT21)	17:38			18:28	24	18:03 (EVE_WT02)	20:20	30	19:31 (KLZ_WT05)	21:09			21:53	79	19:57 (KLZ_WT04)
4	08:49		10:10 (SAM_WT07)	08:19		08:57 (SAM_WT06)	07:26		17:38 (KLZ_WT20)	07:16		19:01 (KLZ_WT05)	06:15		06:39 (SAM_WT09)	05:34		06:02 (SAM_WT10)
	16:51	28	15:12 (KLZ_WT21)	17:40	7	09:04 (SAM_WT06)	18:30	27	18:05 (EVE_WT02)	20:22	30	19:31 (KLZ_WT05)	21:11	2	06:41 (SAM_WT09)	21:54	81	19:58 (KLZ_WT04)
5	08:49		10:12 (SAM_WT07)	08:18		08:53 (SAM_WT06)	07:24		17:37 (KLZ_WT20)	07:14		19:01 (KLZ_WT05)	06:13		06:37 (SAM_WT09)	05:33		06:02 (SAM_WT10)
	16:52	23	15:11 (KLZ_WT21)	17:42	15	09:08 (SAM_WT06)	18:32	29	18:06 (EVE_WT02)	20:24	30	19:31 (KLZ_WT05)	21:13	3	06:40 (SAM_WT09)	21:55	81	19:59 (KLZ_WT04)
6	08:49		10:12 (SAM_WT07)	08:16		08:51 (SAM_WT06)	07:21		07:44 (SAM_WT08)	07:12		07:34 (SAM_WT02)	06:11		06:35 (SAM_WT09)	05:33		06:01 (SAM_WT10)
	16:54	17	10:29 (SAM_WT07)	17:44	19	09:10 (SAM_WT06)	18:33	33	18:07 (KLZ_WT20)	20:25	31	19:30 (KLZ_WT05)	21:14	4	06:39 (SAM_WT09)	21:56	81	19:59 (KLZ_WT04)
7	08:48		09:18 (SAM_WT04)	08:15		08:49 (SAM_WT06)	07:19		07:42 (SAM_WT08)	07:10		07:32 (SAM_WT02)	06:09		06:34 (SAM_WT09)	05:32		06:01 (SAM_WT10)
	16:55	15	10:28 (SAM_WT07)	17:45	22	09:11 (SAM_WT06)	18:35	35	18:07 (KLZ_WT20)	20:27	32	19:29 (KLZ_WT05)	21:16	4	06:38 (SAM_WT09)	21:56	82	20:00 (KLZ_WT04)
8	08:48		09:17 (SAM_WT04)	08:13		08:48 (SAM_WT06)	07:17		07:40 (SAM_WT08)	07:08		07:30 (SAM_WT02)	06:08			05:32		06:00 (SAM_WT10)
	16:56	15	10:27 (SAM_WT07)	17:47	25	09:13 (SAM_WT06)	18:37	38	18:08 (KLZ_WT06)	20:29	31	19:28 (KLZ_WT05)	21:17			21:57	86	20:00 (KLZ_WT04)
9	08:47		09:17 (SAM_WT04)	08:11		08:47 (SAM_WT06)	07:15		07:37 (SAM_WT08)	07:05		07:28 (SAM_WT02)	06:06			05:31		06:00 (SAM_WT10)
	16:57	12	10:26 (SAM_WT07)	17:49	27	09:14 (SAM_WT06)	18:38	40	18:08 (KLZ_WT06)	20:30	32	19:28 (KLZ_WT05)	21:19			21:58	89	20:00 (KLZ_WT04)
10	08:47		09:16 (SAM_WT04)	08:09		08:46 (SAM_WT06)	07:13		07:35 (SAM_WT08)	07:03		19:03 (KLZ_WT05)	06:04			05:31		06:00 (SAM_WT10)
	16:59	6	09:22 (SAM_WT11)	17:51	29	09:15 (SAM_WT06)	18:40	42	18:09 (KLZ_WT06)	20:32	23	19:26 (KLZ_WT05)	21:21			21:59	89	20:01 (KLZ_WT04)
11	08:46		09:15 (SAM_WT04)	08:08		08:45 (SAM_WT06)	07:10		07:34 (SAM_WT08)	07:01		19:04 (KLZ_WT05)	06:03			05:30		05:59 (SAM_WT10)
	17:00	7	09:22 (SAM_WT04)	17:53	31	09:16 (SAM_WT06)	18:42	44	18:17 (KLZ_WT12)	20:33	20	19:24 (KLZ_WT05)	21:22			22:00	92	20:01 (KLZ_WT04)
12	08:46		09:15 (SAM_WT04)	08:06		08:45 (SAM_WT06)	07:08		07:36 (SAM_WT08)	06:59		19:06 (KLZ_WT05)	06:01			05:30		05:59 (SAM_WT10)
	17:02	9	09:24 (SAM_WT11)	17:54	31	09:16 (SAM_WT06)	18:44	42	18:19 (KLZ_WT12)	20:35	16	19:22 (KLZ_WT05)	21:24			22:00	90	20:01 (KLZ_WT04)
13	08:45		09:14 (SAM_WT04)	08:04		08:44 (SAM_WT06)	07:06		17:40 (KLZ_WT20)	06:57		07:19 (SAM_WT03)	05:59			05:30		05:59 (SAM_WT10)
	17:03	10	09:24 (SAM_WT04)	17:56	33	09:17 (SAM_WT06)	18:45	37	18:20 (KLZ_WT12)	20:37	14	19:20 (KLZ_WT05)	21:25			22:01	91	20:02 (KLZ_WT04)
14	08:44		09:13 (SAM_WT04)	08:02		08:44 (SAM_WT06)	07:04		17:42 (KLZ_WT20)	06:55		07:17 (SAM_WT03)	05:58		06:29 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:05	12	09:25 (SAM_WT11)	17:58	33	09:17 (SAM_WT06)	18:47	37	18:22 (KLZ_WT12)	20:38	5	07:22 (SAM_WT03)	21:27	19	19:30 (KLZ_WT04)	22:02	91	20:02 (KLZ_WT04)
15	08:44		09:12 (SAM_WT04)	08:00		08:43 (SAM_WT06)	07:02		17:45 (KLZ_WT20)	06:52		07:15 (SAM_WT03)	05:56		06:27 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:06	14	09:26 (SAM_WT11)	18:00	34	09:17 (SAM_WT06)	18:49	35	18:24 (KLZ_WT12)	20:40	7	07:22 (SAM_WT03)	21:28	33	19:35 (KLZ_WT04)	22:02	94	20:03 (KLZ_WT04)
16	08:43		09:11 (SAM_WT04)	07:58		08:43 (SAM_WT06)	06:59		17:53 (KLZ_WT06)	06:50		07:13 (SAM_WT03)	05:55		06:26 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:08	15	09:26 (SAM_WT11)	18:02	34	09:17 (SAM_WT06)	18:50	28	18:26 (KLZ_WT12)	20:42	8	07:21 (SAM_WT03)	21:30	40	19:38 (KLZ_WT04)	22:03	95	20:03 (KLZ_WT04)
17	08:42		09:10 (SAM_WT04)	07:56		08:43 (SAM_WT06)	06:57		17:55 (KLZ_WT06)	06:48		07:12 (SAM_WT03)	05:53		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:09	17	09:27 (SAM_WT11)	18:03	34	09:17 (SAM_WT06)	18:52	21	18:25 (KLZ_WT12)	20:43	8	07:20 (SAM_WT03)	21:31	47	19:39 (KLZ_WT04)	22:03	94	20:03 (KLZ_WT04)
18	08:41		09:09 (SAM_WT04)	07:55		08:43 (SAM_WT06)	06:55		18:13 (KLZ_WT12)	06:46		07:13 (SAM_WT03)	05:52		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:11	18	09:27 (SAM_WT11)	18:05	34	09:17 (SAM_WT06)	18:54	11	18:24 (KLZ_WT12)	20:45	5	07:18 (SAM_WT03)	21:33	52	19:41 (KLZ_WT04)	22:03	95	20:04 (KLZ_WT04)
19	08:40		09:08 (SAM_WT11)	07:53		08:44 (SAM_WT06)	06:53		18:15 (KLZ_WT12)	06:44			05:51		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:12	19	09:27 (SAM_WT11)	18:07	32	09:16 (SAM_WT06)	18:55	9	18:31 (EVE_WT01)	20:47			21:34	56	19:43 (KLZ_WT04)	22:04	96	20:04 (KLZ_WT04)
20	08:39		09:07 (SAM_WT11)	07:51		08:44 (SAM_WT06)	06:50		18:29 (EVE_WT01)	06:42			05:49		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:14	21	09:28 (SAM_WT11)	18:09	32	09:16 (SAM_WT06)	18:57	3	18:32 (EVE_WT01)	20:48			21:35	60	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
21	08:38		09:05 (SAM_WT11)	07:49		08:45 (SAM_WT06)	06:48		18:27 (EVE_WT01)	06:40			05:48		06:22 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:16	22	09:27 (SAM_WT11)	18:11	30	09:15 (SAM_WT06)	18:59	6	18:33 (EVE_WT01)	20:50			21:37	63	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
22	08:37		09:05 (SAM_WT11)	07:47		08:45 (SAM_WT06)	06:46		18:27 (EVE_WT01)	06:38		07:01 (SAM_WT01)	05:47		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:17	23	09:28 (SAM_WT11)	18:12	29	09:14 (SAM_WT06)	19:00	8	18:35 (EVE_WT01)	20:52	2	07:03 (SAM_WT01)	21:38	66	19:47 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
23	08:36		09:06 (SAM_WT11)	07:45		08:46 (SAM_WT06)	06:43		18:28 (EVE_WT01)	06:36		06:59 (SAM_WT01)	05:45		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:19	22	09:28 (SAM_WT11)	18:14	27	09:13 (SAM_WT06)	19:02	9	18:37 (EVE_WT01)	20:53	2	07:01 (SAM_WT01)	21:40	68	19:48 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
24	08:35		09:06 (SAM_WT11)	07:43		08:48 (SAM_WT06)	06:41		18:28 (EVE_WT01)	06:34		06:57 (SAM_WT01)	05:44		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:21	21	09:27 (SAM_WT11)	18:16	23	09:11 (SAM_WT06)	19:04	10	18:38 (EVE_WT01)	20:55	2	06:59 (SAM_WT01)	21:41	71	19:49 (KLZ_WT04)	22:05	96	20:05 (KLZ_WT04)
25	08:34		09:07 (SAM_WT11)	07:40		08:49 (SAM_WT06)	06:39		18:30 (EVE_WT01)	06:32			05:43		06:22 (KLZ_WT01)	05:31		06:00 (SAM_WT10)
	17:22	20	09:27 (SAM_WT11)	18:18	25	17:52 (KLZ_WT20)	19:05	6	18:36 (EVE_WT01)	20:56			21:42	72	19:50 (KLZ_WT04)	22:05	95	20:05 (KLZ_WT04)
26	08:32		09:09 (SAM_WT11)	07:38		08:51 (SAM_WT06)	06:37		18:15 (KLZ_WT05)	06:30			05:42		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:24	18	09:27 (SAM_WT11)	18:19	24	17:54 (KLZ_WT13)	19:07	7	18:22 (KLZ_WT05)	20:58			21:43	74	19:51 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
27	08:31		09:09 (SAM_WT11)	07:36		08:55 (SAM_WT06)	06:34		18:11 (KLZ_WT05)	06:28			05:41		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:26	16	09:25 (SAM_WT11)	18:21	21	17:56 (KLZ_WT13)	19:09	14	18:25 (KLZ_WT05)	21:00			21:45	75	19:52 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
28	08:30		09:11 (SAM_WT11)	07:34		17:41 (KLZ_WT20)	06:32		18:08 (KLZ_WT05)	06:26			05:40		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:27	14	09:25 (SAM_WT11)	18:23	16	17:57 (KLZ_WT13)	19:10	18	18:26 (KLZ_WT05)	21:01			21:46	75	19:52 (KLZ_WT04)	22:05	93	20:06 (KLZ_WT04)
29	08:28		09:13 (SAM_WT11)				07:30		19:06 (KLZ_WT05)	06:24			05:39		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:29	9	09:22 (SAM_WT11)				20:12	22	19:28 (KLZ_WT05)	21:03			21:47	77	19:53 (KLZ_WT04)	22:05	91	20:05 (KLZ_WT04)
30	08:27						07:28		19:05 (KLZ_WT05)	06:22			05:38		06:23 (KLZ_WT01)	05:33		06:03 (SAM_WT10)
	17:31						20:14	25	19:30 (KLZ_WT05)	21:05			21:48	78	19:55 (KLZ_WT04)	22:04	90	20:06 (KLZ_WT04)
31	08:25						07:25		07:48 (SWB_WT01_RP)				05:37		06:24 (KLZ_WT01)			
	17:33						20:15	29	19:31 (KLZ_WT05)				21:49	77	19:55 (KLZ_WT04)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		528			667			730			391			1116			2704	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,57			0,56			0,64			0,63			0,59			0,59	
Total reduction		0,14			0,16			0,24			0,28			0,26			0,25	
Total, real		73			109			173			111			294			689	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT10)	06:09			06:57		19:04 (KLZ_WT05)	07:44		18:19 (KLZ_WT20)	07:36		08:16 (SAM_WT06)	08:26		08:57 (SAM_WT04)
	22:04	92	20:06 (KLZ_WT04)	21:34			20:33	20	19:24 (KLZ_WT05)	19:25	35	18:58 (KLZ_WT12)	17:21	28	08:44 (SAM_WT06)	16:42	7	09:04 (SAM_WT04)
2	05:34		06:04 (SAM_WT10)	06:10			06:59		19:01 (KLZ_WT05)	07:46		08:14 (SAM_WT08)	07:38		08:17 (SAM_WT06)	08:27		08:59 (SAM_WT04)
	22:04	90	20:05 (KLZ_WT04)	21:32			20:31	23	19:24 (KLZ_WT05)	19:23	43	18:56 (KLZ_WT12)	17:19	27	08:44 (SAM_WT06)	16:41	6	09:05 (SAM_WT04)
3	05:35		06:05 (SAM_WT10)	06:12			07:00		07:26 (SAM_WT02)	07:48		08:12 (SAM_WT08)	07:40		08:17 (SAM_WT06)	08:29		09:00 (SAM_WT04)
	22:04	90	20:06 (KLZ_WT04)	21:30			20:29	32	19:26 (KLZ_WT05)	19:21	43	18:54 (KLZ_WT12)	17:17	25	08:42 (SAM_WT06)	16:41	12	10:09 (SAM_WT07)
4	05:36		06:06 (SAM_WT10)	06:13			07:02		07:27 (SAM_WT02)	07:49		08:14 (SAM_WT08)	07:42		08:19 (SAM_WT06)	08:30		09:02 (SAM_WT04)
	22:03	88	20:06 (KLZ_WT04)	21:29			20:27	31	19:25 (KLZ_WT05)	19:19	41	18:46 (KLZ_WT06)	17:16	22	08:41 (SAM_WT06)	16:40	14	10:12 (SAM_WT07)
5	05:37		06:06 (SAM_WT10)	06:15			07:03		07:29 (SAM_WT02)	07:51		08:16 (SAM_WT08)	07:43		08:21 (SAM_WT06)	08:31		09:03 (SAM_WT04)
	22:03	83	20:05 (KLZ_WT04)	21:27			20:24	32	19:26 (KLZ_WT05)	19:16	39	18:45 (KLZ_WT06)	17:14	18	08:39 (SAM_WT06)	16:40	15	10:13 (SAM_WT07)
6	05:37		06:07 (SAM_WT10)	06:16		06:44 (SAM_WT09)	07:05		07:30 (SAM_WT02)	07:52		08:17 (SAM_WT08)	07:45		08:23 (SAM_WT06)	08:33		09:59 (SAM_WT07)
	22:02	82	20:05 (KLZ_WT04)	21:25	4	06:48 (SAM_WT09)	20:22	31	19:26 (KLZ_WT05)	19:14	36	18:43 (KLZ_WT06)	17:12	14	08:37 (SAM_WT06)	16:39	16	10:15 (SAM_WT07)
7	05:38		06:08 (SAM_WT10)	06:18		06:46 (SAM_WT09)	07:06		18:57 (KLZ_WT05)	07:54		08:19 (SAM_WT08)	07:47		08:27 (SAM_WT06)	08:34		09:59 (SAM_WT07)
	22:02	82	20:05 (KLZ_WT04)	21:24	3	06:49 (SAM_WT09)	20:20	29	19:26 (KLZ_WT05)	19:12	34	18:43 (KLZ_WT20)	17:11	6	08:33 (SAM_WT06)	16:39	22	14:57 (KLZ_WT21)
8	05:39		06:09 (SAM_WT10)	06:19		06:47 (SAM_WT09)	07:08		18:55 (KLZ_WT05)	07:56		08:21 (SAM_WT08)	07:49			08:35		09:59 (SAM_WT07)
	22:01	81	20:05 (KLZ_WT04)	21:22	3	06:50 (SAM_WT09)	20:18	30	19:25 (KLZ_WT05)	19:10	32	18:43 (KLZ_WT20)	17:09			16:39	27	15:00 (KLZ_WT21)
9	05:40		06:10 (SAM_WT10)	06:21		06:48 (SAM_WT09)	07:10		18:56 (KLZ_WT05)	07:57		18:12 (KLZ_WT20)	07:50			08:36		09:58 (SAM_WT07)
	22:00	80	20:05 (KLZ_WT04)	21:20	1	06:49 (SAM_WT09)	20:15	29	19:25 (KLZ_WT05)	19:08	28	18:40 (EVE_WT02)	17:07			16:38	31	15:01 (KLZ_WT21)
10	05:41		06:11 (SAM_WT10)	06:23			07:11		07:36 (SWB_WT01_RP)	07:59		18:13 (KLZ_WT20)	07:52			08:37		09:58 (SAM_WT07)
	22:00	79	20:05 (KLZ_WT04)	21:18			20:13	32	19:24 (KLZ_WT05)	19:05	25	18:38 (EVE_WT02)	17:06			16:38	35	15:03 (KLZ_WT21)
11	05:42		06:32 (KLZ_WT01)	06:24			07:13		07:38 (SWB_WT01_RP)	08:01		18:13 (KLZ_WT20)	07:54			08:38		09:58 (SAM_WT07)
	21:59	78	20:04 (KLZ_WT04)	21:16			20:11	31	19:23 (KLZ_WT05)	19:03	23	18:36 (KLZ_WT13)	17:04			16:38	38	15:04 (KLZ_WT21)
12	05:43		06:32 (KLZ_WT01)	06:26			07:14		07:39 (SWB_WT01_RP)	08:02		18:13 (KLZ_WT20)	07:56			08:39		09:58 (SAM_WT07)
	21:58	78	20:04 (KLZ_WT04)	21:14			20:09	29	19:22 (KLZ_WT05)	19:01	20	18:33 (KLZ_WT13)	17:03			16:38	39	15:05 (KLZ_WT21)
13	05:44		06:32 (KLZ_WT01)	06:27			07:16		07:41 (SWB_WT01_RP)	08:04		18:14 (KLZ_WT20)	07:57		08:45 (SAM_WT11)	08:40		09:58 (SAM_WT07)
	21:57	78	20:04 (KLZ_WT04)	21:12			20:06	26	19:21 (KLZ_WT05)	18:59	17	18:31 (KLZ_WT13)	17:01	9	08:54 (SAM_WT11)	16:38	41	15:06 (KLZ_WT21)
14	05:45		06:32 (KLZ_WT01)	06:29			07:17		18:56 (KLZ_WT05)	08:06		18:15 (KLZ_WT20)	07:59		08:43 (SAM_WT11)	08:41		09:59 (SAM_WT07)
	21:56	77	20:03 (KLZ_WT04)	21:11			20:04	23	19:19 (KLZ_WT05)	18:57	14	18:29 (KLZ_WT13)	17:00	14	08:57 (SAM_WT11)	16:38	42	15:07 (KLZ_WT21)
15	05:46		06:32 (KLZ_WT01)	06:30			07:19		18:58 (KLZ_WT05)	08:07		09:25 (SAM_WT06)	08:01		08:42 (SAM_WT11)	08:42		09:59 (SAM_WT07)
	21:56	76	20:02 (KLZ_WT04)	21:09			20:02	19	19:17 (KLZ_WT05)	18:55	23	18:27 (KLZ_WT13)	16:58	16	08:58 (SAM_WT11)	16:38	43	15:07 (KLZ_WT21)
16	05:47		06:32 (KLZ_WT01)	06:32			07:21		18:59 (KLZ_WT05)	08:09		09:22 (SAM_WT06)	08:02		08:42 (SAM_WT11)	08:43		09:59 (SAM_WT07)
	21:55	75	20:02 (KLZ_WT04)	21:07			19:59	15	19:14 (KLZ_WT05)	18:52	23	18:24 (KLZ_WT20)	16:57	18	09:00 (SAM_WT11)	16:38	45	15:08 (KLZ_WT21)
17	05:49		06:31 (KLZ_WT01)	06:33			07:22		19:02 (KLZ_WT05)	08:11		09:20 (SAM_WT06)	08:04		08:41 (SAM_WT11)	08:44		10:00 (SAM_WT07)
	21:54	75	20:01 (KLZ_WT04)	21:05			19:57	9	19:11 (KLZ_WT05)	18:50	23	18:22 (KLZ_WT20)	16:56	20	09:01 (SAM_WT11)	16:38	44	15:09 (KLZ_WT21)
18	05:50		06:31 (KLZ_WT01)	06:35			07:24		19:18 (EVE_WT01)	08:12		09:18 (SAM_WT06)	08:06		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:52	73	20:00 (KLZ_WT04)	21:03			19:55	5	19:23 (EVE_WT01)	18:48	25	09:43 (SAM_WT06)	16:55	21	09:01 (SAM_WT11)	16:39	45	15:09 (KLZ_WT21)
19	05:51		06:31 (KLZ_WT01)	06:37		07:03 (SAM_WT01)	07:25		19:16 (EVE_WT01)	08:14		09:17 (SAM_WT06)	08:07		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:51	71	19:59 (KLZ_WT04)	21:01	2	07:05 (SAM_WT01)	19:53	10	19:26 (EVE_WT01)	18:46	28	09:45 (SAM_WT06)	16:53	22	09:02 (SAM_WT11)	16:39	46	15:10 (KLZ_WT21)
20	05:52		06:31 (KLZ_WT01)	06:38		07:05 (SAM_WT01)	07:27		19:15 (EVE_WT01)	08:16		09:16 (SAM_WT06)	08:09		08:40 (SAM_WT11)	08:46		10:01 (SAM_WT07)
	21:50	70	19:58 (KLZ_WT04)	20:59	2	07:07 (SAM_WT01)	19:50	9	19:24 (EVE_WT01)	18:44	30	09:46 (SAM_WT06)	16:52	23	09:03 (SAM_WT11)	16:39	46	15:11 (KLZ_WT21)
21	05:54		06:32 (KLZ_WT01)	06:40		07:06 (SAM_WT01)	07:28		19:13 (EVE_WT01)	08:17		09:15 (SAM_WT06)	08:11		08:41 (SAM_WT11)	08:47		10:01 (SAM_WT07)
	21:49	68	19:58 (KLZ_WT04)	20:57	1	07:07 (SAM_WT01)	19:48	8	19:21 (EVE_WT01)	18:42	31	09:46 (SAM_WT06)	16:51	22	09:03 (SAM_WT11)	16:40	46	15:11 (KLZ_WT21)
22	05:55		06:32 (KLZ_WT01)	06:41			07:30		19:13 (EVE_WT01)	08:19		09:14 (SAM_WT06)	08:12		08:43 (SAM_WT11)	08:47		10:02 (SAM_WT07)
	21:48	65	19:57 (KLZ_WT04)	20:55			19:46	7	19:20 (EVE_WT01)	18:40	32	09:46 (SAM_WT06)	16:50	21	09:04 (SAM_WT11)	16:40	46	15:12 (KLZ_WT21)
23	05:56		06:32 (KLZ_WT01)	06:43			07:32		19:12 (EVE_WT01)	08:21		09:14 (SAM_WT06)	08:14		08:44 (SAM_WT11)	08:48		10:02 (SAM_WT07)
	21:47	62	19:55 (KLZ_WT04)	20:52			19:43	5	19:17 (EVE_WT01)	18:38	33	09:47 (SAM_WT06)	16:49	19	09:03 (SAM_WT11)	16:41	46	15:12 (KLZ_WT21)
24	05:58		06:33 (KLZ_WT01)	06:44			07:33		18:59 (KLZ_WT12)	08:23		09:14 (SAM_WT06)	08:16		08:46 (SAM_WT04)	08:48		10:02 (SAM_WT07)
	21:45	58	19:54 (KLZ_WT04)	20:50			19:41	7	19:15 (EVE_WT01)	18:36	33	09:47 (SAM_WT06)	16:48	18	09:04 (SAM_WT11)	16:41	46	15:12 (KLZ_WT21)
25	05:59		06:34 (KLZ_WT01)	06:46		07:16 (SAM_WT03)	07:35		18:56 (KLZ_WT12)	07:24		08:14 (SAM_WT06)	08:17		08:48 (SAM_WT04)	08:48		10:04 (SAM_WT07)
	21:44	55	19:53 (KLZ_WT04)	20:48	5	07:21 (SAM_WT03)	19:39	10	19:06 (KLZ_WT12)	17:34	33	08:47 (SAM_WT06)	16:47	17	09:05 (SAM_WT11)	16:42	45	15:13 (KLZ_WT21)
26	06:00		06:34 (KLZ_WT01)	06:48		07:14 (SAM_WT03)	07:36		18:39 (KLZ_WT06)	07:26		08:14 (SAM_WT06)	08:19		08:49 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:43	51	19:51 (KLZ_WT04)	20:46	9	07:23 (SAM_WT03)	19:37	18	19:07 (KLZ_WT12)	17:32	33	08:47 (SAM_WT06)	16:46	15	09:04 (SAM_WT11)	16:43	44	15:13 (KLZ_WT21)
27	06:02		06:35 (KLZ_WT01)	06:49		07:15 (SAM_WT03)	07:38		18:36 (KLZ_WT06)	07:28		08:13 (SAM_WT06)	08:20		08:51 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:41	45	19:49 (KLZ_WT04)	20:44	8	07:23 (SAM_WT03)	19:34	26	19:08 (KLZ_WT12)	17:30	33	08:46 (SAM_WT06)	16:45	14	09:05 (SAM_WT11)	16:43	45	15:13 (KLZ_WT21)
28	06:03		06:37 (KLZ_WT01)	06:51		07:17 (SAM_WT03)	07:40		18:27 (KLZ_WT20)	07:30		08:13 (SAM_WT06)	08:22		08:53 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:40	37	19:47 (KLZ_WT04)	20:42	6	07:23 (SAM_WT03)	19:32	33	19:05 (KLZ_WT12)	17:28	33	08:46 (SAM_WT06)	16:44	12	09:05 (SAM_WT11)	16:44	43	15:13 (KLZ_WT21)
29	06:05		06:38 (KLZ_WT01)	06:52		07:18 (SAM_WT03)	07:41		18:23 (KLZ_WT20)	07:31		08:14 (SAM_WT06)	08:23		08:54 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:38	28	19:44 (KLZ_WT04)	20:40	5	07:23 (SAM_WT03)	19:30	36	19:03 (KLZ_WT12)	17:26	32	08:46 (SAM_WT06)	16:43	11	09:05 (SAM_WT11)	16:45	42	15:13 (KLZ_WT21)
30	06:06		19:28 (KLZ_WT04)	06:54		07:20 (SAM_WT03)	07:43		18:20 (KLZ_WT20)	07:33		08:14 (SAM_WT06)	08:25		08:56 (SAM_WT04)	08:50		10:06 (SAM_WT07)
	21:37	10	19:38 (KLZ_WT04)	20:38	14	19:21 (KLZ_WT05)	19:28	37	19:00 (KLZ_WT12)	17:25	32	08:46 (SAM_WT06)	16:43	9	09:05 (SAM_WT11)	16:46	41	15:14 (KLZ_WT21)
31	06:07			06:55		19:05 (KLZ_WT05)				07:35		08:15 (SAM_WT06)				08:50		10:07 (SAM_WT07)
	21:35			20:35	17	19:22 (KLZ_WT05)				17:23	30	08:45 (SAM_WT06)				16:47	39	15:14 (KLZ_WT21)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		2077			80			652			937			441			1097	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,59			0,64			0,63			0,60			0,54			0,64	
Total reduction		0,26			0,29			0,27			0,21			0,14			0,14	
Total, real		533			23			174			198			62			153	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:47 (SAM_WT07)	08:24		08:50 (SAM_WT11)	07:32		08:10 (SAM_WT06)	07:23		19:14 (KLZ_WT20)	06:20		06:44 (SAM_WT01)	05:36		
	16:48	71	16:01 (KLZ_WT21)	17:35	24	09:14 (SAM_WT11)	18:25	28	08:38 (SAM_WT06)	20:17	33	19:51 (EVE_WT01)	21:06	2	06:46 (SAM_WT01)	21:50		
2	08:50		09:48 (SAM_WT07)	08:22		08:48 (SAM_WT11)	07:30		08:09 (SAM_WT06)	07:21		19:16 (KLZ_WT20)	06:18		06:42 (SAM_WT01)	05:36		
	16:49	71	16:01 (KLZ_WT21)	17:36	26	09:14 (SAM_WT11)	18:26	31	08:40 (SAM_WT06)	20:19	31	19:53 (EVE_WT01)	21:08	8	20:26 (KLZ_WT05)	21:52		
3	08:49		09:49 (SAM_WT07)	08:21		08:48 (SAM_WT11)	07:28		08:08 (SAM_WT06)	07:19		19:19 (KLZ_WT20)	06:16		06:40 (SAM_WT01)	05:35		
	16:50	71	16:02 (KLZ_WT21)	17:38	25	09:13 (SAM_WT11)	18:28	33	08:41 (SAM_WT06)	20:20	28	19:55 (EVE_WT01)	21:09	14	20:29 (KLZ_WT05)	21:53		
4	08:49		09:48 (SAM_WT07)	08:19		08:49 (SAM_WT11)	07:26		08:07 (SAM_WT06)	07:16		19:36 (KLZ_WT06)	06:15		20:16 (KLZ_WT05)	05:34		
	16:51	71	16:02 (KLZ_WT21)	17:40	25	09:14 (SAM_WT11)	18:30	35	08:42 (SAM_WT06)	20:22	20	19:56 (EVE_WT01)	21:11	15	20:31 (KLZ_WT05)	21:54		
5	08:49		09:49 (SAM_WT07)	08:18		08:49 (SAM_WT11)	07:24		08:05 (SAM_WT06)	07:14		19:36 (KLZ_WT06)	06:13		20:14 (KLZ_WT05)	05:33		
	16:52	72	16:03 (KLZ_WT21)	17:42	24	09:13 (SAM_WT11)	18:32	37	08:42 (SAM_WT06)	20:24	18	19:54 (EVE_WT01)	21:13	18	20:32 (KLZ_WT05)	21:55		
6	08:49		09:49 (SAM_WT07)	08:16		08:49 (SAM_WT11)	07:21		08:04 (SAM_WT06)	07:12		07:34 (SWB_WT01_RP)	06:11		20:13 (KLZ_WT05)	05:33		
	16:54	72	16:03 (KLZ_WT21)	17:44	23	09:12 (SAM_WT11)	18:33	38	08:42 (SAM_WT06)	20:25	19	19:52 (KLZ_WT06)	21:14	20	20:33 (KLZ_WT05)	21:56		
7	08:48		09:50 (SAM_WT07)	08:14		08:50 (SAM_WT11)	07:19		08:04 (SAM_WT06)	07:10		07:32 (SWB_WT01_RP)	06:09		20:12 (KLZ_WT05)	05:32		
	16:55	72	16:04 (KLZ_WT21)	17:45	21	09:11 (SAM_WT11)	18:35	39	08:43 (SAM_WT06)	20:27	18	19:51 (KLZ_WT06)	21:16	22	20:34 (KLZ_WT05)	21:56		
8	08:48		09:50 (SAM_WT07)	08:13		08:52 (SAM_WT11)	07:17		08:03 (SAM_WT06)	07:08		07:30 (SWB_WT01_RP)	06:08		20:11 (KLZ_WT05)	05:32		
	16:56	72	16:04 (KLZ_WT21)	17:47	19	09:11 (SAM_WT11)	18:37	40	08:43 (SAM_WT06)	20:29	20	19:51 (KLZ_WT06)	21:17	23	20:34 (KLZ_WT05)	21:57		
9	08:47		09:51 (SAM_WT07)	08:11		08:53 (SAM_WT11)	07:15		08:02 (SAM_WT06)	07:05		07:28 (SWB_WT01_RP)	06:06		20:11 (KLZ_WT05)	05:31		
	16:57	72	16:05 (KLZ_WT21)	17:49	17	09:10 (SAM_WT11)	18:38	40	08:42 (SAM_WT06)	20:30	18	19:50 (KLZ_WT06)	21:19	24	20:35 (KLZ_WT05)	21:58		
10	08:47		09:51 (SAM_WT07)	08:09		08:55 (SAM_WT11)	07:13		08:02 (SAM_WT06)	07:03		19:38 (KLZ_WT06)	06:04		20:10 (KLZ_WT05)	05:31		
	16:59	74	16:06 (KLZ_WT21)	17:51	13	09:08 (SAM_WT11)	18:40	40	08:42 (SAM_WT06)	20:32	10	19:48 (KLZ_WT06)	21:21	25	20:35 (KLZ_WT05)	21:59		
11	08:46		09:51 (SAM_WT07)	08:08		08:58 (SAM_WT11)	07:10		08:02 (SAM_WT06)	07:01		19:39 (KLZ_WT06)	06:03		20:11 (KLZ_WT05)	05:30		
	17:00	73	16:06 (KLZ_WT21)	17:53	6	09:04 (SAM_WT11)	18:42	42	18:17 (KLZ_WT13)	20:33	5	19:44 (KLZ_WT06)	21:22	25	20:36 (KLZ_WT05)	22:00		
12	08:46		09:51 (SAM_WT07)	08:06			07:08		08:02 (SAM_WT06)	06:59			06:01		20:10 (KLZ_WT05)	05:30		
	17:02	73	16:06 (KLZ_WT21)	17:54			18:44	44	18:19 (KLZ_WT13)	20:35			21:24	26	20:36 (KLZ_WT05)	22:00		
13	08:45		09:53 (SAM_WT07)	08:04			07:06		08:02 (SAM_WT06)	06:57			05:59		06:25 (SAM_WT09)	05:30		
	17:03	72	16:07 (KLZ_WT21)	17:56			18:45	44	18:20 (KLZ_WT13)	20:37			21:25	26	20:36 (KLZ_WT05)	22:01		
14	08:44		09:53 (SAM_WT07)	08:02			07:04		08:02 (SAM_WT06)	06:55			05:58		06:23 (SAM_WT09)	05:30		
	17:05	73	16:07 (KLZ_WT21)	17:58			18:47	46	18:22 (KLZ_WT13)	20:38			21:27	28	20:36 (KLZ_WT05)	22:02		
15	08:44		09:53 (SAM_WT07)	08:00			07:02		07:24 (SAM_WT08)	06:52		07:15 (SAM_WT02)	05:56		06:22 (SAM_WT09)	05:30		
	17:06	73	16:08 (KLZ_WT21)	18:00			18:49	47	18:24 (KLZ_WT13)	20:40	2	07:17 (SAM_WT02)	21:28	28	20:36 (KLZ_WT05)	22:02		
16	08:43		09:54 (SAM_WT07)	07:58			06:59		07:22 (SAM_WT08)	06:50		07:13 (SAM_WT02)	05:55		06:21 (SAM_WT09)	05:29		
	17:08	72	16:08 (KLZ_WT21)	18:02			18:50	47	18:24 (KLZ_WT13)	20:42	4	07:17 (SAM_WT02)	21:30	29	20:36 (KLZ_WT05)	22:03		
17	08:42		09:55 (SAM_WT07)	07:56			06:57		07:19 (SAM_WT08)	06:48		07:11 (SAM_WT02)	05:53		06:19 (SAM_WT09)	05:29		
	17:09	71	16:08 (KLZ_WT21)	18:03			18:52	46	18:27 (KLZ_WT20)	20:43	5	07:16 (SAM_WT02)	21:31	27	20:35 (KLZ_WT05)	22:03		
18	08:41		09:55 (SAM_WT07)	07:55			06:55		07:17 (SAM_WT08)	06:46		07:09 (SAM_WT02)	05:52		20:12 (KLZ_WT05)	05:29		
	17:11	70	16:08 (KLZ_WT21)	18:05			18:54	50	18:29 (KLZ_WT20)	20:45	6	07:15 (SAM_WT02)	21:33	23	20:35 (KLZ_WT05)	22:03		
19	08:40		09:56 (SAM_WT07)	07:53			06:53		07:15 (SAM_WT08)	06:44		07:10 (SAM_WT02)	05:51		20:12 (KLZ_WT05)	05:29		
	17:12	69	16:09 (KLZ_WT21)	18:07			18:55	52	18:31 (KLZ_WT20)	20:47	2	07:12 (SAM_WT02)	21:34	23	20:35 (KLZ_WT05)	22:04		
20	08:39		09:07 (SAM_WT04)	07:51			06:50		07:13 (SAM_WT08)	06:42		07:05 (SWB_WT02_RP)	05:49		20:13 (KLZ_WT05)	05:29		
	17:14	69	16:09 (KLZ_WT21)	18:09			18:57	52	18:32 (KLZ_WT20)	20:48	1	07:06 (SWB_WT02_RP)	21:35	21	20:34 (KLZ_WT05)	22:04		
21	08:38		09:05 (SAM_WT04)	07:49			06:48		07:13 (SAM_WT08)	06:40		07:03 (SWB_WT02_RP)	05:48		20:13 (KLZ_WT05)	05:30		
	17:16	70	16:08 (KLZ_WT21)	18:11			18:59	46	18:33 (KLZ_WT20)	20:50	2	07:05 (SWB_WT02_RP)	21:37	20	20:33 (KLZ_WT05)	22:04		
22	08:37		09:04 (SAM_WT04)	07:47			06:46		07:15 (SAM_WT08)	06:38			05:47		20:14 (KLZ_WT05)	05:30		
	17:17	70	16:08 (KLZ_WT21)	18:12			19:00	38	18:35 (KLZ_WT20)	20:52			21:38	18	20:32 (KLZ_WT05)	22:05		
23	08:36		09:03 (SAM_WT04)	07:45			06:43		18:13 (KLZ_WT20)	06:36		06:59 (SAM_WT03)	05:45		20:16 (KLZ_WT05)	05:30		
	17:19	69	16:08 (KLZ_WT21)	18:14			19:02	24	18:37 (KLZ_WT20)	20:53	1	07:00 (SAM_WT03)	21:39	16	20:32 (KLZ_WT05)	22:05		
24	08:35		09:01 (SAM_WT04)	07:43			06:41		18:12 (KLZ_WT20)	06:34		06:57 (SAM_WT03)	05:44		20:17 (KLZ_WT05)	05:30		
	17:21	68	16:07 (KLZ_WT21)	18:16			19:04	26	18:38 (KLZ_WT20)	20:55	3	07:00 (SAM_WT03)	21:41	14	20:31 (KLZ_WT05)	22:05		
25	08:34		09:00 (SAM_WT04)	07:40			06:39		18:11 (KLZ_WT20)	06:32		06:55 (SAM_WT03)	05:43		20:18 (KLZ_WT05)	05:31		
	17:22	66	16:07 (KLZ_WT21)	18:18			19:05	29	18:40 (KLZ_WT20)	20:56	5	07:00 (SAM_WT03)	21:42	12	20:30 (KLZ_WT05)	22:05		
26	08:32		08:59 (SAM_WT04)	07:38		08:18 (SAM_WT06)	06:37		18:12 (KLZ_WT20)	06:30		06:53 (SAM_WT03)	05:42		20:20 (KLZ_WT05)	05:31		
	17:24	63	16:07 (KLZ_WT21)	18:19	15	08:33 (SAM_WT06)	19:07	29	18:41 (KLZ_WT20)	20:58	7	07:00 (SAM_WT03)	21:43	8	20:28 (KLZ_WT05)	22:05		
27	08:31		08:57 (SAM_WT04)	07:36		08:15 (SAM_WT06)	06:34		18:12 (KLZ_WT20)	06:28		06:51 (SAM_WT03)	05:41		20:22 (KLZ_WT05)	05:31		
	17:26	60	16:06 (KLZ_WT21)	18:21	21	08:36 (SAM_WT06)	19:09	32	18:44 (KLZ_WT12)	21:00	8	06:59 (SAM_WT03)	21:45	4	20:26 (KLZ_WT05)	22:05		
28	08:30		08:56 (SAM_WT04)	07:34		08:12 (SAM_WT06)	06:32		18:11 (KLZ_WT20)	06:26		06:49 (SAM_WT03)	05:40			05:32		
	17:27	53	16:05 (KLZ_WT21)	18:23	25	08:37 (SAM_WT06)	19:10	34	18:45 (KLZ_WT12)	21:01	9	06:58 (SAM_WT03)	21:46			22:05		
29	08:28		08:54 (SAM_WT11)				07:30		19:12 (KLZ_WT20)	06:24		06:51 (SAM_WT03)	05:39			05:32		
	17:29	43	16:03 (KLZ_WT21)				20:12	35	19:47 (KLZ_WT12)	21:03	6	06:57 (SAM_WT03)	21:47			22:05		
30	08:27		08:53 (SAM_WT11)				07:28		19:12 (KLZ_WT20)	06:22			05:38			05:33		
	17:31	36	16:02 (KLZ_WT21)				20:14	36	19:49 (EVE_WT01)	21:05			21:48			22:04		
31	08:25		08:51 (SAM_WT11)				07:25		19:14 (KLZ_WT20)				05:37					
	17:33	30	15:58 (KLZ_WT21)				20:15	34	19:50 (EVE_WT01)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2061			284			1194			281			519				
Sun reduction		0,25			0,30			0,38			0,46			0,46				
Oper. time red.		0,97			0,97			0,97			0,97			0,97				
Wind dir. red.		0,63			0,55			0,58			0,62			0,56				
Total reduction		0,15			0,16			0,22			0,28			0,25				
Total, real		315			46			257			79			129				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		20:21 (KLZ_WT05)	06:57		19:39 (KLZ_WT06)	07:44		08:41 (SAM_WT06)	07:36		08:24 (SAM_WT11)	08:26		09:33 (SAM_WT07)
	22:04			21:34	25	20:46 (KLZ_WT05)	20:33	5	19:44 (KLZ_WT06)	19:25	43	18:58 (KLZ_WT13)	17:21	14	08:38 (SAM_WT11)	16:42	73	15:48 (KLZ_WT21)
2	05:34			06:10		20:20 (KLZ_WT05)	06:59		19:36 (KLZ_WT06)	07:46		08:41 (SAM_WT06)	07:38		08:23 (SAM_WT11)	08:27		09:34 (SAM_WT07)
	22:04			21:32	25	20:45 (KLZ_WT05)	20:31	10	19:46 (KLZ_WT06)	19:23	42	18:56 (KLZ_WT13)	17:19	17	08:40 (SAM_WT11)	16:41	73	15:49 (KLZ_WT21)
3	05:35			06:12		20:21 (KLZ_WT05)	07:00		07:26 (SWB_WT01_RP)	07:48		08:40 (SAM_WT06)	07:40		08:21 (SAM_WT11)	08:29		09:34 (SAM_WT07)
	22:04			21:30	25	20:46 (KLZ_WT05)	20:29	18	19:48 (KLZ_WT06)	19:21	40	09:20 (SAM_WT06)	17:17	19	08:40 (SAM_WT11)	16:41	72	15:48 (KLZ_WT21)
4	05:36			06:13		20:21 (KLZ_WT05)	07:02		07:27 (SWB_WT01_RP)	07:49		08:40 (SAM_WT06)	07:42		08:20 (SAM_WT11)	08:30		09:35 (SAM_WT07)
	22:03			21:29	24	20:45 (KLZ_WT05)	20:27	20	19:48 (KLZ_WT06)	19:19	40	09:20 (SAM_WT06)	17:16	21	08:41 (SAM_WT11)	16:40	72	15:49 (KLZ_WT21)
5	05:37			06:15		20:22 (KLZ_WT05)	07:03		07:29 (SWB_WT01_RP)	07:51		08:40 (SAM_WT06)	07:43		08:19 (SAM_WT11)	08:31		09:35 (SAM_WT07)
	22:03			21:27	23	20:45 (KLZ_WT05)	20:24	18	19:48 (KLZ_WT06)	19:16	40	09:20 (SAM_WT06)	17:14	23	08:42 (SAM_WT11)	16:40	72	15:49 (KLZ_WT21)
6	05:37			06:16		20:22 (KLZ_WT05)	07:05		07:30 (SWB_WT01_RP)	07:52		08:40 (SAM_WT06)	07:45		08:19 (SAM_WT11)	08:33		09:35 (SAM_WT07)
	22:02			21:25	21	20:43 (KLZ_WT05)	20:22	18	19:48 (KLZ_WT06)	19:14	39	09:19 (SAM_WT06)	17:12	24	08:43 (SAM_WT11)	16:39	72	15:49 (KLZ_WT21)
7	05:38			06:18		20:23 (KLZ_WT05)	07:06		19:31 (KLZ_WT06)	07:54		08:40 (SAM_WT06)	07:47		08:19 (SAM_WT11)	08:34		09:36 (SAM_WT07)
	22:02			21:23	20	20:43 (KLZ_WT05)	20:20	17	19:48 (KLZ_WT06)	19:12	38	09:18 (SAM_WT06)	17:11	25	08:44 (SAM_WT11)	16:39	72	15:50 (KLZ_WT21)
8	05:39			06:19		20:24 (KLZ_WT05)	07:08		19:30 (KLZ_WT06)	07:56		08:41 (SAM_WT06)	07:49		08:18 (SAM_WT11)	08:35		09:36 (SAM_WT07)
	22:01			21:22	17	20:41 (KLZ_WT05)	20:18	21	19:51 (EVE_WT01)	19:10	37	09:18 (SAM_WT06)	17:09	26	08:44 (SAM_WT11)	16:39	72	15:50 (KLZ_WT21)
9	05:40			06:21		20:25 (KLZ_WT05)	07:10		19:13 (KLZ_WT20)	07:57		08:40 (SAM_WT06)	07:50		08:19 (SAM_WT11)	08:36		09:37 (SAM_WT07)
	22:00			21:20	14	20:39 (KLZ_WT05)	20:15	28	19:49 (EVE_WT01)	19:08	36	09:16 (SAM_WT06)	17:07	25	08:44 (SAM_WT11)	16:38	71	15:50 (KLZ_WT21)
10	05:41			06:23		06:50 (SAM_WT01)	07:11		19:09 (KLZ_WT20)	07:59		08:41 (SAM_WT06)	07:52		08:21 (SAM_WT11)	08:37		09:37 (SAM_WT07)
	22:00			21:18	12	20:37 (KLZ_WT05)	20:13	31	19:46 (EVE_WT01)	19:05	35	09:16 (SAM_WT06)	17:06	24	08:45 (SAM_WT11)	16:38	71	15:50 (KLZ_WT21)
11	05:42			06:24		06:51 (SAM_WT01)	07:13		19:08 (KLZ_WT20)	08:01		08:42 (SAM_WT06)	07:54		08:23 (SAM_WT11)	08:38		09:37 (SAM_WT07)
	21:59			21:16	2	06:53 (SAM_WT01)	20:11	33	19:45 (EVE_WT01)	19:03	33	09:15 (SAM_WT06)	17:04	31	15:31 (KLZ_WT21)	16:38	71	15:51 (KLZ_WT21)
12	05:43			06:26		06:53 (SAM_WT01)	07:14		19:05 (KLZ_WT20)	08:02		08:43 (SAM_WT06)	07:56		08:24 (SAM_WT11)	08:39		09:38 (SAM_WT07)
	21:58			21:14	1	06:54 (SAM_WT01)	20:09	35	19:42 (EVE_WT01)	19:01	29	09:12 (SAM_WT06)	17:03	36	15:33 (KLZ_WT21)	16:38	71	15:51 (KLZ_WT21)
13	05:44			06:27			07:16		19:04 (KLZ_WT20)	08:04		08:44 (SAM_WT06)	07:57		08:26 (SAM_WT11)	08:40		09:38 (SAM_WT07)
	21:57			21:12			20:06	36	19:40 (EVE_WT01)	18:59	27	09:11 (SAM_WT06)	17:01	44	15:35 (KLZ_WT21)	16:38	70	15:51 (KLZ_WT21)
14	05:45			06:29		06:59 (SAM_WT03)	07:17		19:02 (KLZ_WT20)	08:06		08:46 (SAM_WT06)	07:59		08:28 (SAM_WT04)	08:41		09:39 (SAM_WT07)
	21:56			21:11	6	07:05 (SAM_WT03)	20:04	35	19:37 (KLZ_WT12)	18:57	23	09:09 (SAM_WT06)	17:00	54	15:37 (KLZ_WT21)	16:38	69	15:52 (KLZ_WT21)
15	05:46			06:30		06:57 (SAM_WT03)	07:19		19:02 (KLZ_WT20)	08:07		08:49 (SAM_WT06)	08:01		08:30 (SAM_WT04)	08:42		09:40 (SAM_WT07)
	21:55			21:09	9	07:06 (SAM_WT03)	20:02	33	19:35 (KLZ_WT12)	18:55	18	09:07 (SAM_WT06)	16:58	60	15:39 (KLZ_WT21)	16:38	69	15:52 (KLZ_WT21)
16	05:47			06:32		06:59 (SAM_WT03)	07:21		19:00 (KLZ_WT20)	08:09		08:51 (SAM_WT06)	08:02		08:32 (SAM_WT04)	08:43		09:40 (SAM_WT07)
	21:55			21:07	8	07:07 (SAM_WT03)	19:59	33	19:33 (KLZ_WT12)	18:52	11	09:02 (SAM_WT06)	16:57	63	15:40 (KLZ_WT21)	16:38	69	15:53 (KLZ_WT21)
17	05:49		20:30 (KLZ_WT05)	06:33		07:00 (SAM_WT03)	07:22		19:00 (KLZ_WT20)	08:11			08:04		08:34 (SAM_WT04)	08:44		09:41 (SAM_WT07)
	21:53	7	20:37 (KLZ_WT05)	21:05	7	07:07 (SAM_WT03)	19:57	30	19:31 (KLZ_WT12)	18:50			16:56	66	15:41 (KLZ_WT21)	16:38	68	15:53 (KLZ_WT21)
18	05:50		20:28 (KLZ_WT05)	06:35		07:02 (SAM_WT03)	07:24		18:59 (KLZ_WT20)	08:12			08:06		08:35 (SAM_WT04)	08:45		09:41 (SAM_WT07)
	21:52	11	20:39 (KLZ_WT05)	21:03	5	07:07 (SAM_WT03)	19:55	29	19:28 (KLZ_WT20)	18:48			16:55	68	15:41 (KLZ_WT21)	16:39	68	15:53 (KLZ_WT21)
19	05:51		20:27 (KLZ_WT05)	06:37		07:03 (SAM_WT03)	07:25		18:59 (KLZ_WT20)	08:14			08:07		08:37 (SAM_WT04)	08:45		09:42 (SAM_WT07)
	21:51	13	20:40 (KLZ_WT05)	21:01	3	07:06 (SAM_WT03)	19:53	27	19:26 (KLZ_WT20)	18:46			16:53	69	15:42 (KLZ_WT21)	16:39	69	15:54 (KLZ_WT21)
20	05:52		20:26 (KLZ_WT05)	06:38			07:27		18:59 (KLZ_WT20)	08:16			08:09		08:39 (SAM_WT04)	08:46		09:43 (SAM_WT07)
	21:50	15	20:41 (KLZ_WT05)	20:59			19:50	25	19:24 (KLZ_WT20)	18:44			16:52	70	15:43 (KLZ_WT21)	16:39	67	15:54 (KLZ_WT21)
21	05:54		20:26 (KLZ_WT05)	06:40		07:06 (SWB_WT02_RP)	07:28		09:00 (SAM_WT06)	08:17			08:11		08:41 (SAM_WT04)	08:47		09:43 (SAM_WT07)
	21:49	17	20:43 (KLZ_WT05)	20:57	1	07:07 (SWB_WT02_RP)	19:48	29	19:21 (KLZ_WT20)	18:42			16:51	70	15:44 (KLZ_WT21)	16:40	67	15:54 (KLZ_WT21)
22	05:55		20:24 (KLZ_WT05)	06:41		07:08 (SWB_WT02_RP)	07:30		07:59 (SAM_WT08)	08:19			08:12		08:43 (SAM_WT04)	08:47		09:44 (SAM_WT07)
	21:48	19	20:43 (KLZ_WT05)	20:55	2	07:10 (SWB_WT02_RP)	19:46	45	19:20 (KLZ_WT20)	18:40			16:50	69	15:45 (KLZ_WT21)	16:40	67	15:55 (KLZ_WT21)
23	05:56		20:23 (KLZ_WT05)	06:43		07:09 (SWB_WT02_RP)	07:32		07:56 (SAM_WT08)	08:21			08:14		09:32 (SAM_WT07)	08:48		09:44 (SAM_WT07)
	21:47	21	20:44 (KLZ_WT05)	20:52	1	07:10 (SWB_WT02_RP)	19:43	52	19:17 (KLZ_WT20)	18:38			16:49	69	15:45 (KLZ_WT21)	16:41	67	15:55 (KLZ_WT21)
24	05:58		20:22 (KLZ_WT05)	06:44		07:14 (SAM_WT02)	07:33		07:58 (SAM_WT08)	08:23			08:16		09:32 (SAM_WT07)	08:48		09:44 (SAM_WT07)
	21:45	22	20:44 (KLZ_WT05)	20:50	3	07:17 (SAM_WT02)	19:41	51	19:15 (KLZ_WT20)	18:36			16:48	70	15:45 (KLZ_WT21)	16:41	67	15:55 (KLZ_WT21)
25	05:59		20:23 (KLZ_WT05)	06:46		07:12 (SAM_WT02)	07:35		07:59 (SAM_WT08)	07:24			08:17		09:33 (SAM_WT07)	08:48		09:45 (SAM_WT07)
	21:44	22	20:45 (KLZ_WT05)	20:48	6	07:18 (SAM_WT02)	19:39	51	19:12 (KLZ_WT20)	17:34			16:47	70	15:46 (KLZ_WT21)	16:42	68	15:57 (KLZ_WT21)
26	06:00		20:22 (KLZ_WT05)	06:48		07:14 (SAM_WT02)	07:36		08:01 (SAM_WT08)	07:26			08:19		09:32 (SAM_WT07)	08:49		09:45 (SAM_WT07)
	21:43	23	20:45 (KLZ_WT05)	20:46	5	07:19 (SAM_WT02)	19:37	47	19:10 (KLZ_WT20)	17:32			16:46	72	15:46 (KLZ_WT21)	16:43	68	15:57 (KLZ_WT21)
27	06:02		06:30 (SAM_WT09)	06:49		07:15 (SAM_WT02)	07:38		08:03 (SAM_WT08)	07:28			08:20		09:33 (SAM_WT07)	08:49		09:45 (SAM_WT07)
	21:41	29	20:46 (KLZ_WT05)	20:44	4	07:19 (SAM_WT02)	19:34	46	19:08 (KLZ_WT20)	17:30			16:45	72	15:47 (KLZ_WT21)	16:43	68	15:57 (KLZ_WT21)
28	06:03		06:32 (SAM_WT09)	06:51		07:17 (SAM_WT02)	07:40		08:04 (SAM_WT08)	07:30			08:22		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:40	27	20:46 (KLZ_WT05)	20:42	2	07:19 (SAM_WT02)	19:32	47	19:05 (KLZ_WT13)	17:28			16:44	73	15:47 (KLZ_WT21)	16:44	69	15:58 (KLZ_WT21)
29	06:05		06:33 (SAM_WT09)	06:52			07:41		08:43 (SAM_WT06)	07:31			08:23		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:38	28	20:46 (KLZ_WT05)	20:40			19:30	45	19:03 (KLZ_WT13)	17:26			16:43	73	15:47 (KLZ_WT21)	16:45	69	15:58 (KLZ_WT21)
30	06:06		06:34 (SAM_WT09)	06:54			07:43		08:41 (SAM_WT06)	07:33			08:25		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:37	28	20:46 (KLZ_WT05)	20:38			19:28	45	19:00 (KLZ_WT13)	17:25			16:43	73	15:48 (KLZ_WT21)	16:46	70	15:59 (KLZ_WT21)
31	06:07		06:36 (SAM_WT09)	06:55						07:35		08:27 (SAM_WT11)				08:50		09:47 (SAM_WT07)
	21:35	27	20:47 (KLZ_WT05)	20:35						17:23	8	08:35 (SAM_WT11)				16:47	70	16:00 (KLZ_WT21)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		309			271			960			539			1490			2161	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,56			0,58			0,60			0,56			0,62			0,64	
Total reduction		0,24			0,26			0,25			0,20			0,16			0,14	
Total, real		76			71			245			106			240			302	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

Assumptions for shadow calculations

Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

January			February			March			April			May			June		
1	08:50	11:31 (KLZ_WT19)	08:24		09:22 (CBR_WT01)	07:32			07:23		07:47 (SAM_WT11)	06:20		17:25 (KLZ_WT21)	05:36		06:27 (SAM_WT06)
	16:48	48 12:19 (KLZ_WT19)	17:35	37	17:05 (KLZ_WT16)	18:25			20:17	73	18:52 (KLZ_WT21)	21:06	113	20:38 (KLZ_WT13)	21:50	124	21:13 (EVE_WT01)
2	08:49	11:31 (KLZ_WT19)	08:22		09:22 (CBR_WT01)	07:30			07:21		07:48 (SAM_WT11)	06:18		17:25 (KLZ_WT21)	05:36		06:28 (SAM_WT06)
	16:49	48 12:19 (KLZ_WT19)	17:36	37	17:07 (KLZ_WT16)	18:26			20:19	75	18:54 (KLZ_WT21)	21:08	116	20:40 (KLZ_WT13)	21:52	120	21:13 (EVE_WT01)
3	08:49	11:31 (KLZ_WT19)	08:21		09:22 (CBR_WT01)	07:28			07:19		07:47 (SAM_WT07)	06:16		17:25 (KLZ_WT21)	05:35		06:28 (SAM_WT06)
	16:50	48 12:19 (KLZ_WT19)	17:38	35	17:07 (KLZ_WT16)	18:28			20:20	80	18:57 (KLZ_WT21)	21:09	118	20:41 (KLZ_WT13)	21:53	114	19:14 (KLZ_WT21)
4	08:49	11:32 (KLZ_WT19)	08:19		09:23 (CBR_WT01)	07:26			07:17		07:45 (SAM_WT07)	06:15		17:26 (KLZ_WT21)	05:34		06:29 (SAM_WT06)
	16:51	47 12:19 (KLZ_WT19)	17:40	33	09:56 (CBR_WT01)	18:30			20:22	89	18:59 (KLZ_WT21)	21:11	119	20:43 (KLZ_WT13)	21:54	111	19:13 (KLZ_WT21)
5	08:49	11:34 (KLZ_WT19)	08:18		09:23 (CBR_WT01)	07:24			07:14		07:43 (SAM_WT07)	06:13		17:25 (KLZ_WT21)	05:33		06:30 (SAM_WT06)
	16:52	45 12:19 (KLZ_WT19)	17:42	32	09:55 (CBR_WT01)	18:32			20:24	96	19:01 (KLZ_WT21)	21:13	121	20:44 (KLZ_WT13)	21:55	110	19:14 (KLZ_WT21)
6	08:49	11:34 (KLZ_WT19)	08:16		09:24 (CBR_WT01)	07:21			07:12		07:40 (SAM_WT07)	06:11		17:25 (KLZ_WT21)	05:33		06:30 (SAM_WT06)
	16:54	45 12:19 (KLZ_WT19)	17:44	30	09:54 (CBR_WT01)	18:33			20:25	102	19:01 (KLZ_WT21)	21:14	122	20:45 (KLZ_WT13)	21:56	108	19:13 (KLZ_WT21)
7	08:48	11:35 (KLZ_WT19)	08:14		09:25 (CBR_WT01)	07:19			07:10		07:39 (SAM_WT07)	06:09		17:26 (KLZ_WT21)	05:32		06:31 (SAM_WT06)
	16:55	44 12:19 (KLZ_WT19)	17:45	28	09:53 (CBR_WT01)	18:35			20:27	107	19:03 (KLZ_WT21)	21:16	123	20:47 (KLZ_WT13)	21:56	108	19:14 (KLZ_WT21)
8	08:48	11:36 (KLZ_WT19)	08:13		09:26 (CBR_WT01)	07:17			07:08		07:38 (SAM_WT07)	06:08		17:26 (KLZ_WT21)	05:32		06:31 (SAM_WT06)
	16:56	43 12:19 (KLZ_WT19)	17:47	27	09:53 (CBR_WT01)	18:37			20:29	113	19:05 (KLZ_WT21)	21:17	124	20:48 (KLZ_WT13)	21:57	106	19:13 (KLZ_WT21)
9	08:47	11:37 (KLZ_WT19)	08:11		09:28 (CBR_WT01)	07:15			07:05		07:38 (SAM_WT07)	06:06		06:32 (SAM_WT06)	05:31		06:33 (SAM_WT06)
	16:58	42 12:19 (KLZ_WT19)	17:49	23	09:51 (CBR_WT01)	18:39			20:30	116	19:06 (KLZ_WT21)	21:19	134	20:49 (KLZ_WT13)	21:58	103	19:14 (KLZ_WT21)
10	08:47	11:38 (KLZ_WT19)	08:09		09:29 (CBR_WT01)	07:13			07:03		07:37 (SAM_WT07)	06:04		06:29 (SAM_WT02)	05:31		06:34 (SAM_WT06)
	16:59	41 12:19 (KLZ_WT19)	17:51	20	09:49 (CBR_WT01)	18:40			20:32	119	19:07 (KLZ_WT21)	21:21	136	20:48 (KLZ_WT13)	21:59	101	19:14 (KLZ_WT21)
11	08:46	09:31 (CBR_WT01)	08:08		09:31 (CBR_WT01)	07:10			07:01		07:37 (SAM_WT07)	06:03		06:29 (SAM_WT06)	05:31		06:35 (SAM_WT06)
	17:00	43 12:18 (KLZ_WT19)	17:53	16	09:47 (CBR_WT01)	18:42			20:33	121	19:08 (KLZ_WT21)	21:22	134	20:47 (KLZ_WT13)	22:00	99	19:14 (KLZ_WT21)
12	08:46	09:28 (CBR_WT01)	08:06		09:34 (CBR_WT01)	07:08			06:59		07:35 (SAM_WT07)	06:01		06:27 (SAM_WT06)	05:30		06:35 (SAM_WT06)
	17:02	47 12:17 (KLZ_WT19)	17:54	9	09:43 (CBR_WT01)	18:44			20:35	124	19:08 (KLZ_WT21)	21:24	135	20:45 (KLZ_WT13)	22:00	99	19:14 (KLZ_WT21)
13	08:45	09:27 (CBR_WT01)	08:04			07:06		07:28 (SAM_WT04)	06:57		07:35 (SAM_WT07)	05:59		06:27 (SAM_WT06)	05:30		06:36 (SAM_WT06)
	17:03	50 12:18 (KLZ_WT19)	17:56			18:45	1	07:29 (SAM_WT04)	20:37	127	19:09 (KLZ_WT21)	21:25	129	19:16 (KLZ_WT21)	22:01	96	19:14 (KLZ_WT21)
14	08:44	09:26 (CBR_WT01)	08:02		08:26 (SAM_WT05)	07:04		07:26 (SAM_WT04)	06:55		07:35 (SAM_WT07)	05:58		06:25 (SAM_WT06)	05:30		06:38 (SAM_WT06)
	17:05	51 12:17 (KLZ_WT19)	17:58	4	08:30 (SAM_WT05)	18:47	4	07:30 (SAM_WT04)	20:38	129	19:10 (KLZ_WT21)	21:27	130	19:15 (KLZ_WT21)	22:01	94	19:14 (KLZ_WT21)
15	08:44	09:25 (CBR_WT01)	08:00		08:24 (SAM_WT05)	07:02		07:24 (SAM_WT04)	06:52		07:35 (SAM_WT07)	05:56		06:25 (SAM_WT06)	05:30		06:39 (SAM_WT06)
	17:06	50 12:16 (KLZ_WT19)	18:00	8	08:32 (SAM_WT05)	18:49	7	07:31 (SAM_WT04)	20:40	130	19:11 (KLZ_WT21)	21:28	131	19:16 (KLZ_WT21)	22:02	91	19:14 (KLZ_WT21)
16	08:43	09:24 (CBR_WT01)	07:58		08:22 (SAM_WT05)	06:59		07:22 (SAM_WT04)	06:50		07:13 (SAM_WT08)	05:55		06:25 (SAM_WT06)	05:29		17:46 (KLZ_WT21)
	17:08	51 12:15 (KLZ_WT19)	18:02	11	08:33 (SAM_WT05)	18:50	10	07:32 (SAM_WT04)	20:42	134	19:12 (KLZ_WT21)	21:30	131	19:16 (KLZ_WT21)	22:03	88	19:14 (KLZ_WT21)
17	08:42	09:23 (CBR_WT01)	07:56		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT04)	06:48		07:11 (SAM_WT08)	05:53		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:09	49 12:13 (KLZ_WT19)	18:03	14	08:34 (SAM_WT05)	18:52	12	07:31 (SAM_WT04)	20:43	135	19:12 (KLZ_WT21)	21:31	131	19:15 (KLZ_WT21)	22:03	88	19:15 (KLZ_WT21)
18	08:41	09:23 (CBR_WT01)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT04)	06:46		07:09 (SAM_WT08)	05:52		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:11	45 12:11 (KLZ_WT19)	18:05	16	08:34 (SAM_WT05)	18:54	14	07:31 (SAM_WT04)	20:45	136	19:13 (KLZ_WT21)	21:33	132	21:03 (EVE_WT01)	22:03	88	19:15 (KLZ_WT21)
19	08:40	09:22 (CBR_WT01)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT04)	06:44		07:07 (SAM_WT08)	05:51		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:12	42 12:08 (KLZ_WT19)	18:07	19	08:35 (SAM_WT05)	18:55	16	07:31 (SAM_WT04)	20:47	139	20:20 (EVE_WT02)	21:34	132	21:04 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
20	08:39	09:22 (CBR_WT01)	07:51		08:14 (SAM_WT05)	06:50		07:16 (SAM_WT04)	06:42		07:05 (SAM_WT08)	05:49		06:24 (SAM_WT06)	05:30		17:47 (KLZ_WT21)
	17:14	29 09:51 (CBR_WT01)	18:09	21	08:35 (SAM_WT05)	18:57	14	07:30 (SAM_WT04)	20:48	140	20:22 (EVE_WT02)	21:35	135	21:06 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
21	08:38	09:21 (CBR_WT01)	07:49		08:14 (SAM_WT05)	06:48		07:16 (SAM_WT04)	06:40		07:39 (SAM_WT07)	05:48		06:14 (SAM_WT03)	05:30		17:47 (KLZ_WT21)
	17:16	30 09:51 (CBR_WT01)	18:11	23	17:44 (KLZ_WT15)	18:59	11	07:27 (SAM_WT04)	20:50	133	20:23 (EVE_WT02)	21:37	137	21:06 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
22	08:37	09:21 (CBR_WT01)	07:47		08:14 (SAM_WT05)	06:46		07:18 (SAM_WT04)	06:38		07:40 (SAM_WT07)	05:47		06:13 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:17	31 09:52 (CBR_WT01)	18:12	25	17:46 (KLZ_WT15)	19:00	7	07:25 (SAM_WT04)	20:52	134	20:25 (EVE_WT02)	21:38	138	21:07 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
23	08:36	09:21 (CBR_WT01)	07:45		08:14 (SAM_WT05)	06:44			06:36		07:43 (SAM_WT07)	05:46		06:12 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:19	32 09:53 (CBR_WT01)	18:14	26	17:48 (KLZ_WT15)	19:02			20:53	130	20:26 (EVE_WT02)	21:39	138	21:09 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
24	08:35	09:20 (CBR_WT01)	07:43		08:15 (SAM_WT05)	06:41		07:03 (SAM_WT11)	06:34		07:48 (SAM_WT07)	05:44		06:11 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:21	33 09:53 (CBR_WT01)	18:16	25	17:50 (KLZ_WT15)	19:04	4	07:07 (SAM_WT11)	20:55	121	20:28 (EVE_WT02)	21:41	137	21:10 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
25	08:34	09:20 (CBR_WT01)	07:40		08:16 (SAM_WT05)	06:39		07:01 (SAM_WT11)	06:32		17:26 (KLZ_WT21)	05:43		06:24 (SAM_WT06)	05:31		17:49 (KLZ_WT21)
	17:22	34 09:54 (CBR_WT01)	18:18	21	17:50 (KLZ_WT15)	19:05	7	07:08 (SAM_WT11)	20:56	121	20:29 (EVE_WT02)	21:42	136	21:11 (EVE_WT01)	22:05	88	19:17 (KLZ_WT21)
26	08:32	09:21 (CBR_WT01)	07:38		08:17 (SAM_WT05)	06:37		06:59 (SAM_WT11)	06:30		17:26 (KLZ_WT21)	05:42		06:24 (SAM_WT06)	05:31		17:48 (KLZ_WT21)
	17:24	34 09:55 (CBR_WT01)	18:19	14	08:31 (SAM_WT05)	19:07	10	07:09 (SAM_WT11)	20:58	118	20:27 (EVE_WT02)	21:43	135	21:12 (EVE_WT01)	22:05	89	19:17 (KLZ_WT21)
27	08:31	09:20 (CBR_WT01)	07:36		08:20 (SAM_WT05)	06:34		06:57 (SAM_WT11)	06:28		17:26 (KLZ_WT21)	05:41		06:25 (SAM_WT06)	05:32		17:48 (KLZ_WT21)
	17:26	35 09:55 (CBR_WT01)	18:21	8	08:28 (SAM_WT05)	19:09	13	07:10 (SAM_WT11)	21:00	112	20:24 (EVE_WT02)	21:45	135	21:13 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
28	08:30	09:21 (CBR_WT01)	07:34			06:32		06:54 (SAM_WT11)	06:26		17:25 (KLZ_WT21)	05:40		06:25 (SAM_WT06)	05:32		06:41 (SAM_WT06)
	17:28	35 09:56 (CBR_WT01)	18:23			19:10	25	17:32 (KLZ_WT21)	21:01	110	19:15 (KLZ_WT21)	21:46	134	21:14 (EVE_WT01)	22:05	92	19:17 (KLZ_WT21)
29	08:28	09:20 (CBR_WT01)				07:30		07:52 (SAM_WT11)	06:24		17:26 (KLZ_WT21)	05:39		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:29	35 09:55 (CBR_WT01)				20:12	45	18:41 (KLZ_WT21)	21:03	110	19:16 (KLZ_WT21)	21:47	134	21:16 (EVE_WT01)	22:05	95	19:17 (KLZ_WT21)
30	08:27	09:21 (CBR_WT01)				07:28		07:50 (SAM_WT11)	06:22		17:26 (KLZ_WT21)	05:38		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:31	35 09:56 (CBR_WT01)				20:14	58	18:46 (KLZ_WT21)	21:05	110	19:16 (KLZ_WT21)	21:48	131	21:15 (EVE_WT01)	22:04	98	19:18 (KLZ_WT21)
31	08:25	09:21 (CBR_WT01)				07:25		07:48 (SAM_WT11)				05:37		06:27 (SAM_WT06)			
	17:33	37 17:03 (KLZ_WT16)				20:15	67	18:50 (KLZ_WT21)				21:49	127	21:14 (EVE_WT01)			
Potential sun hours	262		279			367			415			482			495		
Total, worst case	1279		562			325			3484			4028			2926		
Sun reduction	0,25		0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,58		0,55			0,62			0,63			0,64			0,64		
Total reduction	0,14		0,16			0,23			0,29			0,28			0,28		
Total, real	180		90			74			993			1142			805		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

Assumptions for shadow calculations

Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:39 (SAM_WT06)	06:09		06:38 (SAM_WT06)	06:57		07:36 (SAM_WT07)	07:44			07:36		08:58 (CBR_WT01)	08:26		09:13 (CBR_WT01)
	22:04	99	19:18 (KLZ_WT21)	21:34	134	20:56 (KLZ_WT13)	20:33	121	19:07 (KLZ_WT21)	19:25			17:21	22	09:20 (CBR_WT01)	16:42	43	12:00 (KLZ_WT19)
2	05:34		06:38 (SAM_WT06)	06:10		06:40 (SAM_WT06)	06:59		07:35 (SAM_WT07)	07:46			07:38		08:57 (CBR_WT01)	08:27		11:21 (KLZ_WT19)
	22:04	101	19:18 (KLZ_WT21)	21:32	135	20:58 (KLZ_WT13)	20:31	119	19:05 (KLZ_WT21)	19:23			17:19	24	09:21 (CBR_WT01)	16:41	41	12:02 (KLZ_WT19)
3	05:35		06:38 (SAM_WT06)	06:12		06:40 (SAM_WT02)	07:00		07:36 (SAM_WT07)	07:48			07:40		08:55 (CBR_WT01)	08:29		11:20 (KLZ_WT19)
	22:04	103	19:19 (KLZ_WT21)	21:30	136	20:59 (KLZ_WT13)	20:29	116	19:04 (KLZ_WT21)	19:21			17:17	27	09:22 (CBR_WT01)	16:41	42	12:02 (KLZ_WT19)
4	05:36		06:38 (SAM_WT06)	06:13		06:43 (SAM_WT06)	07:02		07:35 (SAM_WT07)	07:49			07:42		08:54 (CBR_WT01)	08:30		11:21 (KLZ_WT19)
	22:03	105	19:19 (KLZ_WT21)	21:29	132	20:59 (KLZ_WT13)	20:27	113	19:02 (KLZ_WT21)	19:19			17:16	29	09:23 (CBR_WT01)	16:40	43	12:04 (KLZ_WT19)
5	05:37		06:37 (SAM_WT06)	06:15		17:36 (KLZ_WT21)	07:03		07:36 (SAM_WT07)	07:51			07:43		08:54 (CBR_WT01)	08:31		11:20 (KLZ_WT19)
	22:03	106	19:19 (KLZ_WT21)	21:27	123	20:58 (KLZ_WT13)	20:24	107	19:00 (KLZ_WT21)	19:16			17:14	30	09:24 (CBR_WT01)	16:40	44	12:04 (KLZ_WT19)
6	05:37		06:37 (SAM_WT06)	06:17		17:36 (KLZ_WT21)	07:05		07:37 (SAM_WT07)	07:53			07:45		08:53 (CBR_WT01)	08:33		11:20 (KLZ_WT19)
	22:02	108	19:20 (KLZ_WT21)	21:25	122	20:56 (KLZ_WT13)	20:22	102	18:58 (KLZ_WT21)	19:14			17:12	32	09:25 (CBR_WT01)	16:39	45	12:05 (KLZ_WT19)
7	05:38		06:36 (SAM_WT06)	06:18		17:36 (KLZ_WT21)	07:06		07:38 (SAM_WT07)	07:54			07:47		08:53 (CBR_WT01)	08:34		11:21 (KLZ_WT19)
	22:02	109	19:20 (KLZ_WT21)	21:23	121	20:55 (KLZ_WT13)	20:20	96	18:56 (KLZ_WT21)	19:12			17:11	33	09:26 (CBR_WT01)	16:39	46	12:07 (KLZ_WT19)
8	05:39		06:36 (SAM_WT06)	06:20		17:35 (KLZ_WT21)	07:08		07:39 (SAM_WT07)	07:56			07:49		08:53 (CBR_WT01)	08:35		11:21 (KLZ_WT19)
	22:01	112	19:21 (KLZ_WT21)	21:22	121	20:53 (KLZ_WT13)	20:18	89	18:53 (KLZ_WT21)	19:10			17:09	36	16:39 (KLZ_WT16)	16:39	46	12:07 (KLZ_WT19)
9	05:40		06:36 (SAM_WT06)	06:21		17:34 (KLZ_WT21)	07:10		07:41 (SAM_WT07)	07:57			07:50		08:52 (CBR_WT01)	08:36		11:21 (KLZ_WT19)
	22:00	113	19:21 (KLZ_WT21)	21:20	119	20:51 (KLZ_WT13)	20:15	80	18:51 (KLZ_WT21)	19:08			17:07	39	16:38 (KLZ_WT16)	16:38	47	12:08 (KLZ_WT19)
10	05:41		06:36 (SAM_WT06)	06:23		17:34 (KLZ_WT21)	07:11		07:41 (SAM_WT11)	07:59			07:52		08:52 (CBR_WT01)	08:37		11:21 (KLZ_WT19)
	22:00	119	21:20 (EVE_WT01)	21:18	117	20:50 (KLZ_WT13)	20:13	77	18:48 (KLZ_WT21)	19:05			17:06	38	16:36 (KLZ_WT16)	16:38	47	12:08 (KLZ_WT19)
11	05:42		06:36 (SAM_WT06)	06:24		17:34 (KLZ_WT21)	07:13		07:40 (SAM_WT11)	08:01			07:54		08:53 (CBR_WT01)	08:38		11:21 (KLZ_WT19)
	21:59	122	21:21 (EVE_WT01)	21:16	114	20:48 (KLZ_WT13)	20:11	73	18:45 (KLZ_WT21)	19:03			17:04	37	16:35 (KLZ_WT16)	16:38	48	12:09 (KLZ_WT19)
12	05:43		06:35 (SAM_WT06)	06:26		17:34 (KLZ_WT21)	07:14		07:39 (SAM_WT11)	08:02			07:56		08:52 (CBR_WT01)	08:39		11:21 (KLZ_WT19)
	21:58	125	21:22 (EVE_WT01)	21:14	112	20:46 (KLZ_WT13)	20:09	67	18:41 (KLZ_WT21)	19:01			17:03	35	09:27 (CBR_WT01)	16:38	48	12:09 (KLZ_WT19)
13	05:44		06:35 (SAM_WT06)	06:27		17:33 (KLZ_WT21)	07:16		07:41 (SAM_WT11)	08:04			07:57		08:52 (CBR_WT01)	08:40		11:21 (KLZ_WT19)
	21:57	130	21:23 (EVE_WT01)	21:12	111	19:24 (KLZ_WT21)	20:06	59	18:38 (KLZ_WT21)	18:59			17:01	35	09:27 (CBR_WT01)	16:38	49	12:10 (KLZ_WT19)
14	05:45		06:35 (SAM_WT06)	06:29		17:34 (KLZ_WT21)	07:17		07:42 (SAM_WT11)	08:06		08:55 (SAM_WT05)	07:59		08:53 (CBR_WT01)	08:41		11:21 (KLZ_WT19)
	21:56	131	21:24 (EVE_WT01)	21:11	110	19:24 (KLZ_WT21)	20:04	47	18:32 (KLZ_WT21)	18:57	2	08:57 (SAM_WT05)	17:00	35	09:28 (CBR_WT01)	16:38	50	12:11 (KLZ_WT19)
15	05:46		06:35 (SAM_WT06)	06:30		17:33 (KLZ_WT21)	07:19		07:44 (SAM_WT11)	08:07		08:51 (SAM_WT05)	08:01		08:53 (CBR_WT01)	08:42		11:22 (KLZ_WT19)
	21:55	134	21:24 (EVE_WT01)	21:09	110	19:23 (KLZ_WT21)	20:02	30	18:25 (KLZ_WT21)	18:55	11	09:02 (SAM_WT05)	16:59	35	09:28 (CBR_WT01)	16:38	50	12:12 (KLZ_WT19)
16	05:48		06:34 (SAM_WT06)	06:32		17:33 (KLZ_WT21)	07:21		07:45 (SAM_WT11)	08:09		08:48 (SAM_WT05)	08:02		08:54 (CBR_WT01)	08:43		11:22 (KLZ_WT19)
	21:54	134	21:23 (EVE_WT01)	21:07	115	20:32 (EVE_WT02)	19:59	13	07:58 (SAM_WT11)	18:52	15	09:03 (SAM_WT05)	16:57	34	09:28 (CBR_WT01)	16:38	50	12:12 (KLZ_WT19)
17	05:49		06:34 (SAM_WT06)	06:33		17:33 (KLZ_WT21)	07:22		07:47 (SAM_WT11)	08:11		08:47 (SAM_WT05)	08:04		08:54 (CBR_WT01)	08:44		11:23 (KLZ_WT19)
	21:53	136	21:22 (EVE_WT01)	21:05	119	20:34 (EVE_WT02)	19:57	11	07:58 (SAM_WT11)	18:50	24	18:22 (KLZ_WT15)	16:56	34	09:28 (CBR_WT01)	16:38	50	12:13 (KLZ_WT19)
18	05:50		06:34 (SAM_WT06)	06:35		17:33 (KLZ_WT21)	07:24		07:48 (SAM_WT11)	08:12		08:46 (SAM_WT05)	08:06		08:54 (CBR_WT01)	08:45		11:23 (KLZ_WT19)
	21:52	136	21:21 (EVE_WT01)	21:03	121	20:35 (EVE_WT02)	19:55	8	07:56 (SAM_WT11)	18:48	25	18:20 (KLZ_WT15)	16:55	33	09:27 (CBR_WT01)	16:39	50	12:13 (KLZ_WT19)
19	05:51		06:20 (SAM_WT03)	06:37		07:52 (SAM_WT07)	07:25		07:50 (SAM_WT11)	08:14		08:45 (SAM_WT05)	08:07		08:55 (CBR_WT01)	08:45		11:23 (KLZ_WT19)
	21:51	138	21:20 (EVE_WT01)	21:01	124	20:33 (EVE_WT02)	19:53	5	07:55 (SAM_WT11)	18:46	26	18:18 (KLZ_WT15)	16:53	32	09:27 (CBR_WT01)	16:39	51	12:14 (KLZ_WT19)
20	05:52		06:21 (SAM_WT03)	06:38		07:48 (SAM_WT07)	07:27		07:52 (SAM_WT11)	08:16		08:45 (SAM_WT05)	08:09		08:56 (CBR_WT01)	08:46		11:24 (KLZ_WT19)
	21:50	139	21:19 (EVE_WT01)	20:59	131	20:32 (EVE_WT02)	19:50	1	07:53 (SAM_WT11)	18:44	25	18:17 (KLZ_WT15)	16:52	31	09:27 (CBR_WT01)	16:39	51	12:15 (KLZ_WT19)
21	05:54		06:23 (SAM_WT03)	06:40		07:45 (SAM_WT07)	07:28		08:05 (SAM_WT04)	08:17		08:44 (SAM_WT05)	08:11		08:57 (CBR_WT01)	08:47		11:24 (KLZ_WT19)
	21:49	139	21:19 (EVE_WT01)	20:57	132	20:29 (EVE_WT02)	19:48	5	08:10 (SAM_WT04)	18:42	23	18:14 (KLZ_WT15)	16:51	30	09:27 (CBR_WT01)	16:40	51	12:15 (KLZ_WT19)
22	05:55		06:24 (SAM_WT03)	06:41		07:43 (SAM_WT07)	07:30		08:02 (SAM_WT04)	08:19		08:45 (SAM_WT05)	08:12		08:58 (CBR_WT01)	08:47		11:25 (KLZ_WT19)
	21:48	138	21:17 (EVE_WT01)	20:55	135	20:28 (EVE_WT02)	19:46	10	08:12 (SAM_WT04)	18:40	20	09:05 (SAM_WT05)	16:50	29	09:27 (CBR_WT01)	16:40	51	12:16 (KLZ_WT19)
23	05:56		06:25 (SAM_WT03)	06:43		07:09 (SAM_WT08)	07:32		08:00 (SAM_WT04)	08:21		08:47 (SAM_WT05)	08:14		08:58 (CBR_WT01)	08:48		11:25 (KLZ_WT19)
	21:47	135	21:16 (EVE_WT01)	20:52	141	20:25 (EVE_WT02)	19:44	13	08:13 (SAM_WT04)	18:38	18	09:05 (SAM_WT05)	16:49	42	11:44 (KLZ_WT19)	16:41	51	12:16 (KLZ_WT19)
24	05:58		06:34 (SAM_WT06)	06:44		07:11 (SAM_WT08)	07:33		07:59 (SAM_WT04)	08:23		08:49 (SAM_WT05)	08:16		09:00 (CBR_WT01)	08:48		11:25 (KLZ_WT19)
	21:45	133	21:14 (EVE_WT01)	20:50	138	20:24 (EVE_WT02)	19:41	15	08:14 (SAM_WT04)	18:36	16	09:05 (SAM_WT05)	16:48	46	11:48 (KLZ_WT19)	16:41	51	12:16 (KLZ_WT19)
25	05:59		06:34 (SAM_WT06)	06:46		07:12 (SAM_WT08)	07:35		07:59 (SAM_WT04)	07:24		07:51 (SAM_WT05)	08:17		09:01 (CBR_WT01)	08:48		11:27 (KLZ_WT19)
	21:44	134	21:14 (EVE_WT01)	20:48	137	19:16 (KLZ_WT21)	19:39	15	08:14 (SAM_WT04)	17:34	13	08:04 (SAM_WT05)	16:47	49	11:51 (KLZ_WT19)	16:42	50	12:17 (KLZ_WT19)
26	06:00		06:34 (SAM_WT06)	06:48		07:14 (SAM_WT08)	07:36		08:01 (SAM_WT04)	07:26		07:52 (SAM_WT05)	08:19		09:02 (CBR_WT01)	08:49		11:27 (KLZ_WT19)
	21:43	132	19:26 (KLZ_WT21)	20:46	135	19:15 (KLZ_WT21)	19:37	13	08:14 (SAM_WT04)	17:32	10	08:02 (SAM_WT05)	16:46	51	11:53 (KLZ_WT19)	16:43	50	12:17 (KLZ_WT19)
27	06:02		06:34 (SAM_WT06)	06:49		07:15 (SAM_WT08)	07:38		08:03 (SAM_WT04)	07:28		07:54 (SAM_WT05)	08:20		09:04 (CBR_WT01)	08:49		11:27 (KLZ_WT19)
	21:41	132	19:26 (KLZ_WT21)	20:44	134	19:14 (KLZ_WT21)	19:34	11	08:14 (SAM_WT04)	17:30	7	08:01 (SAM_WT05)	16:45	51	11:55 (KLZ_WT19)	16:43	50	12:17 (KLZ_WT19)
28	06:03		06:36 (SAM_WT06)	06:51		07:37 (SAM_WT07)	07:40		08:04 (SAM_WT04)	07:30		07:56 (SAM_WT05)	08:22		09:06 (CBR_WT01)	08:49		11:28 (KLZ_WT19)
	21:40	130	19:26 (KLZ_WT21)	20:42	130	19:13 (KLZ_WT21)	19:32	8	08:12 (SAM_WT04)	17:28	3	07:59 (SAM_WT05)	16:44	51	11:57 (KLZ_WT19)	16:44	49	12:17 (KLZ_WT19)
29	06:05		06:36 (SAM_WT06)	06:52		07:36 (SAM_WT07)	07:41		08:06 (SAM_WT04)	07:31			08:23		09:07 (CBR_WT01)	08:49		11:28 (KLZ_WT19)
	21:38	130	19:26 (KLZ_WT21)	20:40	129	19:11 (KLZ_WT21)	19:30	6	08:12 (SAM_WT04)	17:26			16:43	50	11:58 (KLZ_WT19)	16:45	50	12:18 (KLZ_WT19)
30	06:06		06:36 (SAM_WT06)	06:54		07:36 (SAM_WT07)	07:43		08:07 (SAM_WT04)	07:33		09:03 (CBR_WT01)	08:25		09:10 (CBR_WT01)	08:49		11:29 (KLZ_WT19)
	21:37	130	19:26 (KLZ_WT21)	20:38	127	19:10 (KLZ_WT21)	19:28	2	08:09 (SAM_WT04)	17:25	11	09:14 (CBR_WT01)	16:43	47	11:59 (KLZ_WT19)	16:46	49	12:18 (KLZ_WT19)
31	06:08		06:37 (SAM_WT06)	06:55		07:35 (SAM_WT07)				07:35		09:00 (CBR_WT01)				08:50		11:30 (KLZ_WT19)
	21:35	130	19:27 (KLZ_WT21)	20:35	125	19:08 (KLZ_WT21)				17:23	17	09:17 (CBR_WT01)				16:47	48	12:18 (KLZ_WT19)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		3863			3890			1432			266			1097			1491	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,64			0,63			0,63			0,56			0,55			0,62	
Total reduction		0,28			0,29			0,27			0,20			0,14			0,14	
Total, real		1081			1116			381			53			158			204	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		13:56 (KLZ_WT19)	08:24		09:44 (CBR_WT01)	07:32		09:13 (CBR_WT01)	07:23		07:45 (SAM_WT04)	06:20		06:56 (SAM_WT11)	05:36		06:04 (SAM_WT02)
	16:48	81	15:53 (KLZ_WT10)	17:35	100	17:06 (KLZ_WT08)	18:25	116	15:06 (KLZ_WT19)	20:17	8	07:53 (SAM_WT04)	21:06	23	20:38 (EVE_WT02)	21:50	67	21:19 (EVE_WT01)
2	08:49		13:56 (KLZ_WT19)	08:22		09:36 (CBR_WT01)	07:30		09:13 (CBR_WT01)	07:21		07:43 (SAM_WT04)	06:18		06:42 (SAM_WT08)	05:36		06:04 (SAM_WT02)
	16:49	82	15:54 (KLZ_WT10)	17:36	117	17:07 (KLZ_WT08)	18:26	112	15:04 (KLZ_WT19)	20:19	12	07:55 (SAM_WT04)	21:08	26	20:40 (EVE_WT02)	21:52	72	21:20 (EVE_WT01)
3	08:49		13:55 (KLZ_WT19)	08:21		09:33 (CBR_WT01)	07:28		07:52 (SAM_WT05)	07:19		07:41 (SAM_WT04)	06:16		06:40 (SAM_WT08)	05:35		06:03 (SAM_WT02)
	16:50	84	15:54 (KLZ_WT10)	17:38	124	17:08 (KLZ_WT08)	18:28	115	15:02 (KLZ_WT19)	20:20	14	07:55 (SAM_WT04)	21:09	26	20:41 (EVE_WT02)	21:53	76	21:21 (EVE_WT01)
4	08:49		13:55 (KLZ_WT19)	08:19		09:31 (CBR_WT01)	07:26		07:50 (SAM_WT05)	07:16		07:39 (SAM_WT04)	06:15		06:39 (SAM_WT08)	05:34		06:19 (SAM_WT07)
	16:51	85	15:55 (KLZ_WT10)	17:40	131	17:09 (KLZ_WT08)	18:30	112	14:59 (KLZ_WT19)	20:22	17	07:56 (SAM_WT04)	21:11	25	20:43 (EVE_WT02)	21:54	77	21:21 (EVE_WT01)
5	08:49		13:56 (KLZ_WT19)	08:18		09:29 (CBR_WT01)	07:24		07:47 (SAM_WT05)	07:14		07:37 (SAM_WT04)	06:13		06:37 (SAM_WT08)	05:33		06:19 (SAM_WT07)
	16:52	87	15:56 (KLZ_WT10)	17:42	134	17:08 (KLZ_WT08)	18:32	106	14:55 (KLZ_WT19)	20:24	19	07:56 (SAM_WT04)	21:13	21	20:44 (EVE_WT02)	21:55	79	21:23 (EVE_WT01)
6	08:49		13:55 (KLZ_WT19)	08:16		09:26 (CBR_WT01)	07:21		07:45 (SAM_WT05)	07:12		07:35 (SAM_WT04)	06:11		06:35 (SAM_WT08)	05:33		06:17 (SAM_WT07)
	16:54	88	15:56 (KLZ_WT10)	17:44	137	17:07 (KLZ_WT08)	18:33	97	14:50 (KLZ_WT19)	20:25	20	07:55 (SAM_WT04)	21:14	13	20:44 (EVE_WT02)	21:55	83	21:23 (EVE_WT01)
7	08:48		13:55 (KLZ_WT19)	08:14		09:25 (CBR_WT01)	07:19		07:44 (SAM_WT05)	07:10		07:35 (SAM_WT04)	06:09		06:34 (SAM_WT08)	05:32		06:17 (SAM_WT07)
	16:55	89	15:57 (KLZ_WT10)	17:45	137	17:06 (KLZ_WT08)	18:35	75	10:06 (CBR_WT01)	20:27	20	07:55 (SAM_WT04)	21:16	8	06:42 (SAM_WT08)	21:56	84	21:24 (EVE_WT01)
8	08:48		13:55 (KLZ_WT19)	08:13		09:24 (CBR_WT01)	07:17		07:43 (SAM_WT05)	07:08		07:35 (SAM_WT04)	06:08		06:32 (SAM_WT08)	05:32		06:16 (SAM_WT07)
	16:56	90	15:57 (KLZ_WT10)	17:47	133	17:04 (KLZ_WT08)	18:37	74	10:04 (CBR_WT01)	20:28	19	07:54 (SAM_WT04)	21:17	9	06:41 (SAM_WT08)	21:57	87	21:25 (EVE_WT01)
9	08:47		13:55 (KLZ_WT19)	08:11		09:22 (CBR_WT01)	07:15		07:41 (SAM_WT05)	07:05		07:35 (SAM_WT04)	06:06		06:31 (SAM_WT08)	05:31		06:16 (SAM_WT07)
	16:58	92	15:58 (KLZ_WT10)	17:49	135	15:20 (KLZ_WT19)	18:39	71	10:01 (CBR_WT01)	20:30	18	07:53 (SAM_WT04)	21:19	10	06:41 (SAM_WT08)	21:58	88	21:26 (EVE_WT01)
10	08:47		13:55 (KLZ_WT19)	08:09		09:21 (CBR_WT01)	07:13		07:41 (SAM_WT05)	07:03		07:36 (SAM_WT04)	06:04		06:29 (SWB_WT01_RP)	05:31		06:16 (SAM_WT07)
	16:59	92	15:58 (KLZ_WT10)	17:51	137	15:20 (KLZ_WT19)	18:40	69	09:59 (CBR_WT01)	20:32	16	07:52 (SAM_WT04)	21:20	6	06:38 (SAM_WT08)	21:59	89	21:27 (EVE_WT01)
11	08:46		13:54 (KLZ_WT19)	08:08		09:20 (CBR_WT01)	07:10		07:41 (SAM_WT05)	07:01		07:37 (SAM_WT04)	06:03		06:28 (SWB_WT01_RP)	05:31		06:16 (SAM_WT07)
	17:00	94	15:58 (KLZ_WT10)	17:53	138	15:20 (KLZ_WT19)	18:42	67	18:17 (KLZ_WT15)	20:33	12	07:49 (SAM_WT04)	21:22	1	06:29 (SWB_WT01_RP)	22:00	91	21:28 (EVE_WT01)
12	08:46		13:54 (KLZ_WT19)	08:06		09:19 (CBR_WT01)	07:08		07:41 (SAM_WT05)	06:59		07:39 (SAM_WT04)	06:01			05:30		06:16 (SAM_WT07)
	17:02	96	15:59 (KLZ_WT10)	17:54	140	15:20 (KLZ_WT19)	18:44	64	18:19 (KLZ_WT15)	20:35	7	07:46 (SAM_WT04)	21:24			22:00	90	21:27 (EVE_WT01)
13	08:45		13:54 (KLZ_WT19)	08:04		09:18 (CBR_WT01)	07:06		07:40 (SAM_WT05)	06:57			05:59			05:30		06:16 (SAM_WT07)
	17:03	97	16:00 (KLZ_WT10)	17:56	142	15:20 (KLZ_WT19)	18:45	59	18:20 (KLZ_WT15)	20:37			21:25			22:01	91	21:27 (EVE_WT01)
14	08:44		13:54 (KLZ_WT19)	08:02		09:17 (CBR_WT01)	07:04		07:40 (SAM_WT05)	06:55			05:58		20:56 (KLZ_WT13)	05:30		06:16 (SAM_WT07)
	17:05	98	16:32 (NES_WT01)	17:58	143	15:19 (KLZ_WT19)	18:47	47	18:21 (KLZ_WT15)	20:38			21:27	1	20:57 (KLZ_WT13)	22:01	90	21:27 (EVE_WT01)
15	08:44		13:54 (KLZ_WT19)	08:00		09:16 (CBR_WT01)	07:02		07:41 (SAM_WT05)	06:52			05:56		20:28 (KLZ_WT21)	05:30		06:16 (SAM_WT07)
	17:06	100	16:34 (NES_WT01)	18:00	143	15:19 (KLZ_WT19)	18:49	27	08:08 (SAM_WT05)	20:40			21:28	6	20:59 (KLZ_WT13)	22:02	90	21:26 (EVE_WT01)
16	08:43		13:54 (KLZ_WT19)	07:58		09:16 (CBR_WT01)	06:59		07:41 (SAM_WT05)	06:50		07:13 (SAM_WT11)	05:55		20:22 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:08	101	16:36 (NES_WT01)	18:02	144	15:19 (KLZ_WT19)	18:50	26	08:07 (SAM_WT05)	20:42	3	07:16 (SAM_WT11)	21:30	20	21:00 (KLZ_WT13)	22:03	89	21:26 (EVE_WT01)
17	08:42		13:53 (KLZ_WT19)	07:56		09:15 (CBR_WT01)	06:57		07:41 (SAM_WT05)	06:48		07:11 (SAM_WT11)	05:53		20:19 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:09	103	16:37 (NES_WT01)	18:03	143	15:18 (KLZ_WT19)	18:52	24	08:05 (SAM_WT05)	20:43	7	07:18 (SAM_WT11)	21:31	26	21:01 (KLZ_WT13)	22:03	87	21:02 (KLZ_WT21)
18	08:41		13:53 (KLZ_WT19)	07:55		09:15 (CBR_WT01)	06:55		07:43 (SAM_WT05)	06:46		07:09 (SAM_WT11)	05:52		20:17 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:11	100	16:00 (KLZ_WT10)	18:05	144	15:18 (KLZ_WT19)	18:54	20	08:03 (SAM_WT05)	20:45	10	07:19 (SAM_WT11)	21:32	31	21:02 (KLZ_WT13)	22:03	87	21:02 (KLZ_WT21)
19	08:40		13:53 (KLZ_WT19)	07:53		09:14 (CBR_WT01)	06:53		07:44 (SAM_WT05)	06:44		07:07 (SAM_WT11)	05:51		20:15 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:12	100	16:00 (KLZ_WT10)	18:07	143	15:17 (KLZ_WT19)	18:55	17	08:01 (SAM_WT05)	20:47	13	07:20 (SAM_WT11)	21:34	36	21:04 (KLZ_WT13)	22:04	88	21:03 (KLZ_WT21)
20	08:39		13:52 (KLZ_WT19)	07:51		09:14 (CBR_WT01)	06:50		07:47 (SAM_WT05)	06:42		07:05 (SAM_WT11)	05:49		20:14 (KLZ_WT21)	05:30		06:16 (SAM_WT07)
	17:14	100	15:59 (KLZ_WT10)	18:09	144	17:42 (KLZ_WT16)	18:57	11	07:58 (SAM_WT05)	20:48	16	07:21 (SAM_WT11)	21:35	40	21:06 (KLZ_WT13)	22:04	88	21:03 (KLZ_WT21)
21	08:38		13:52 (KLZ_WT19)	07:49		09:13 (CBR_WT01)	06:48			06:40		07:03 (SAM_WT11)	05:48		20:12 (KLZ_WT21)	05:30		06:16 (SAM_WT07)
	17:16	100	15:59 (KLZ_WT10)	18:11	143	17:44 (KLZ_WT16)	18:59			20:50	18	07:21 (SAM_WT11)	21:37	42	21:06 (KLZ_WT13)	22:04	88	21:03 (KLZ_WT21)
22	08:37		13:52 (KLZ_WT19)	07:47		09:13 (CBR_WT01)	06:46			06:38		07:01 (SAM_WT11)	05:47		20:11 (KLZ_WT21)	05:30		06:17 (SAM_WT07)
	17:17	99	15:59 (KLZ_WT10)	18:12	139	15:15 (KLZ_WT19)	19:00			20:52	21	07:22 (SAM_WT11)	21:38	44	21:06 (KLZ_WT13)	22:05	88	21:04 (KLZ_WT21)
23	08:36		13:52 (KLZ_WT19)	07:45		09:13 (CBR_WT01)	06:43			06:36		06:59 (SAM_WT11)	05:46		20:10 (KLZ_WT21)	05:30		06:17 (SAM_WT07)
	17:19	99	15:59 (KLZ_WT10)	18:14	137	15:14 (KLZ_WT19)	19:02			20:53	23	07:22 (SAM_WT11)	21:39	42	21:04 (KLZ_WT13)	22:05	88	21:04 (KLZ_WT21)
24	08:35		13:51 (KLZ_WT19)	07:43		09:13 (CBR_WT01)	06:41			06:34		06:57 (SAM_WT11)	05:44		20:10 (KLZ_WT21)	05:30		06:17 (SAM_WT07)
	17:21	96	15:57 (KLZ_WT10)	18:16	136	15:14 (KLZ_WT19)	19:04			20:55	25	07:22 (SAM_WT11)	21:41	40	20:50 (KLZ_WT21)	22:05	87	21:03 (KLZ_WT21)
25	08:33		13:52 (KLZ_WT19)	07:40		09:13 (CBR_WT01)	06:39			06:32		06:55 (SAM_WT11)	05:43		20:09 (KLZ_WT21)	05:31		06:18 (SAM_WT07)
	17:22	92	15:56 (KLZ_WT10)	18:18	133	15:13 (KLZ_WT19)	19:05			20:56	26	07:21 (SAM_WT11)	21:42	42	20:51 (KLZ_WT21)	22:05	87	21:04 (KLZ_WT21)
26	08:32		13:52 (KLZ_WT19)	07:38		09:13 (CBR_WT01)	06:37			06:30		06:54 (SAM_WT11)	05:42		20:08 (KLZ_WT21)	05:31		06:18 (SAM_WT07)
	17:24	84	15:52 (KLZ_WT10)	18:19	130	15:11 (KLZ_WT19)	19:07			20:58	27	07:21 (SAM_WT11)	21:43	44	20:52 (KLZ_WT21)	22:05	88	21:28 (EVE_WT01)
27	08:31		13:51 (KLZ_WT19)	07:36		09:12 (CBR_WT01)	06:34			06:28		06:54 (SAM_WT11)	05:41		20:08 (KLZ_WT21)	05:32		06:18 (SAM_WT07)
	17:26	84	15:15 (KLZ_WT19)	18:21	126	15:09 (KLZ_WT19)	19:09			21:00	26	07:20 (SAM_WT11)	21:45	45	20:53 (KLZ_WT21)	22:05	90	21:28 (EVE_WT01)
28	08:30		13:51 (KLZ_WT19)	07:34		09:13 (CBR_WT01)	06:32			06:26		06:54 (SAM_WT11)	05:40		20:07 (KLZ_WT21)	05:32		06:19 (SAM_WT07)
	17:28	85	15:16 (KLZ_WT19)	18:23	122	15:08 (KLZ_WT19)	19:10			21:01	26	07:20 (SAM_WT11)	21:46	46	20:53 (KLZ_WT21)	22:05	90	21:30 (EVE_WT01)
29	08:28		13:51 (KLZ_WT19)				07:30			06:24		06:55 (SAM_WT11)	05:39		06:07 (SAM_WT02)	05:33		06:19 (SAM_WT07)
	17:29	86	16:59 (KLZ_WT08)				20:12			21:03	25	07:20 (SAM_WT11)	21:47	48	20:55 (KLZ_WT21)	22:05	90	21:30 (EVE_WT01)
30	08:27		13:51 (KLZ_WT19)				07:28			06:22		06:55 (SAM_WT11)	05:38		06:06 (SAM_WT02)	05:33		06:20 (SAM_WT07)
	17:31	91	17:01 (KLZ_WT08)				20:14			21:05	25	20:37 (EVE_WT02)	21:48	50	21:17 (EVE_WT01)	22:04	90	21:31 (EVE_WT01)
31	08:25		13:51 (KLZ_WT19)				07:25		07:48 (SAM_WT04)				05:37		06:05 (SAM_WT02)			
	17:33	94	17:03 (KLZ_WT08)				20:15	4	07:52 (SAM_WT04)				21:49	59	21:18 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2869			3775			1313			473			830			2579	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,72			0,65			0,58			0,64			0,58			0,60	
Total reduction		0,17			0,19			0,22			0,29			0,26			0,26	
Total, real		501			725			283			137			213			673	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:21 (SAM_WT07)	06:09			06:57		07:37 (SAM_WT04)	07:44		08:20 (SAM_WT05)	07:36		08:51 (CBR_WT01)	08:26		13:36 (KLZ_WT19)
	22:04	91	21:32 (EVE_WT01)	21:34			20:33	12	07:49 (SAM_WT04)	19:25	62	18:58 (KLZ_WT15)	17:21	137	14:50 (KLZ_WT19)	16:42	94	15:40 (KLZ_WT10)
2	05:34		06:20 (SAM_WT07)	06:10		06:39 (SWB_WT01_RP)	06:59		07:34 (SAM_WT04)	07:46		08:20 (SAM_WT05)	07:38		08:52 (CBR_WT01)	08:27		13:38 (KLZ_WT19)
	22:04	90	21:31 (EVE_WT01)	21:32	1	06:40 (SWB_WT01_RP)	20:31	16	07:50 (SAM_WT04)	19:23	65	18:56 (KLZ_WT15)	17:19	135	14:50 (KLZ_WT19)	16:41	92	15:41 (KLZ_WT10)
3	05:35		06:21 (SAM_WT07)	06:12		06:40 (SWB_WT01_RP)	07:00		07:33 (SAM_WT04)	07:48		08:19 (SAM_WT05)	07:40		08:53 (CBR_WT01)	08:29		13:38 (KLZ_WT19)
	22:03	89	21:31 (EVE_WT01)	21:30	9	06:50 (SAM_WT08)	20:29	18	07:51 (SAM_WT04)	19:21	68	18:54 (KLZ_WT15)	17:17	136	16:34 (KLZ_WT08)	16:41	92	15:41 (KLZ_WT10)
4	05:36		06:22 (SAM_WT07)	06:13		06:41 (SAM_WT08)	07:02		07:32 (SAM_WT04)	07:49		08:19 (SAM_WT05)	07:42		08:55 (CBR_WT01)	08:30		13:40 (KLZ_WT19)
	22:03	88	21:31 (EVE_WT01)	21:29	9	06:50 (SAM_WT08)	20:27	19	07:51 (SAM_WT04)	19:19	70	10:38 (CBR_WT01)	17:16	136	16:36 (KLZ_WT08)	16:40	90	15:42 (KLZ_WT10)
5	05:37		06:22 (SAM_WT07)	06:15		06:43 (SAM_WT08)	07:03		07:32 (SAM_WT04)	07:51		08:20 (SAM_WT05)	07:43		08:56 (CBR_WT01)	08:31		13:40 (KLZ_WT19)
	22:03	86	21:30 (EVE_WT01)	21:27	9	06:52 (SAM_WT08)	20:24	20	07:52 (SAM_WT04)	19:16	72	10:40 (CBR_WT01)	17:14	136	16:37 (KLZ_WT08)	16:40	90	15:42 (KLZ_WT10)
6	05:37		06:23 (SAM_WT07)	06:16		06:44 (SAM_WT08)	07:05		07:31 (SAM_WT04)	07:52		08:19 (SAM_WT05)	07:45		08:59 (CBR_WT01)	08:33		13:41 (KLZ_WT19)
	22:02	85	21:30 (EVE_WT01)	21:25	11	20:53 (EVE_WT02)	20:22	20	07:51 (SAM_WT04)	19:14	74	10:41 (CBR_WT01)	17:12	132	16:38 (KLZ_WT08)	16:39	88	15:42 (KLZ_WT10)
7	05:38		06:25 (SAM_WT07)	06:18		06:46 (SAM_WT08)	07:06		07:32 (SAM_WT04)	07:54		08:20 (SAM_WT05)	07:47		09:01 (CBR_WT01)	08:34		13:42 (KLZ_WT19)
	22:02	81	21:29 (EVE_WT01)	21:23	14	20:55 (EVE_WT02)	20:20	19	07:51 (SAM_WT04)	19:12	87	15:22 (KLZ_WT19)	17:11	129	16:39 (KLZ_WT08)	16:39	87	15:42 (KLZ_WT10)
8	05:39		06:26 (SAM_WT07)	06:20		06:47 (SAM_WT08)	07:08		07:33 (SAM_WT04)	07:56		08:22 (SAM_WT05)	07:49		09:04 (CBR_WT01)	08:35		13:43 (KLZ_WT19)
	22:01	79	21:29 (EVE_WT01)	21:22	22	20:53 (EVE_WT02)	20:18	17	07:50 (SAM_WT04)	19:10	102	15:29 (KLZ_WT19)	17:09	124	16:39 (KLZ_WT08)	16:39	85	15:43 (KLZ_WT10)
9	05:40		06:27 (SAM_WT07)	06:21		06:48 (SAM_WT08)	07:10		07:35 (SAM_WT04)	07:57		08:23 (SAM_WT05)	07:50		09:08 (CBR_WT01)	08:36		13:44 (KLZ_WT19)
	22:00	76	21:29 (EVE_WT01)	21:20	25	20:51 (EVE_WT02)	20:15	15	07:50 (SAM_WT04)	19:08	110	15:32 (KLZ_WT19)	17:07	115	16:38 (KLZ_WT08)	16:38	84	15:43 (KLZ_WT10)
10	05:41		06:11 (SAM_WT02)	06:23		06:50 (SAM_WT08)	07:11		07:36 (SAM_WT04)	07:59		08:25 (SAM_WT05)	07:52		13:22 (KLZ_WT19)	08:37		13:45 (KLZ_WT19)
	22:00	74	21:28 (EVE_WT01)	21:18	25	20:50 (EVE_WT02)	20:13	12	07:48 (SAM_WT04)	19:05	114	15:35 (KLZ_WT19)	17:06	96	16:36 (KLZ_WT08)	16:38	82	15:43 (KLZ_WT10)
11	05:42		06:12 (SAM_WT02)	06:24		07:05 (SAM_WT11)	07:13		07:38 (SAM_WT04)	08:01		08:29 (SAM_WT05)	07:54		13:22 (KLZ_WT19)	08:38		13:46 (KLZ_WT19)
	21:59	68	21:27 (EVE_WT01)	21:16	24	20:48 (EVE_WT02)	20:11	9	07:47 (SAM_WT04)	19:03	113	15:37 (KLZ_WT19)	17:04	93	16:34 (KLZ_WT08)	16:38	81	15:43 (KLZ_WT10)
12	05:43		06:13 (SAM_WT02)	06:26		07:04 (SAM_WT11)	07:14		07:39 (SAM_WT04)	08:02		09:46 (CBR_WT01)	07:56		13:22 (KLZ_WT19)	08:39		13:46 (KLZ_WT19)
	21:58	62	21:27 (EVE_WT01)	21:14	24	20:46 (EVE_WT02)	20:09	5	07:44 (SAM_WT04)	19:01	114	15:38 (KLZ_WT19)	17:03	90	16:32 (KLZ_WT08)	16:38	80	15:43 (KLZ_WT10)
13	05:44		06:14 (SAM_WT02)	06:27		07:03 (SAM_WT11)	07:16			08:04		09:46 (CBR_WT01)	07:57		13:23 (KLZ_WT19)	08:40		13:47 (KLZ_WT19)
	21:57	52	21:26 (EVE_WT01)	21:12	23	07:26 (SAM_WT11)	20:06			18:59	119	15:40 (KLZ_WT19)	17:01	86	16:31 (KLZ_WT08)	16:38	80	15:44 (KLZ_WT10)
14	05:45		06:15 (SAM_WT02)	06:29		07:02 (SAM_WT11)	07:17			08:06		09:46 (CBR_WT01)	07:59		13:23 (KLZ_WT19)	08:41		13:48 (KLZ_WT19)
	21:56	49	21:25 (EVE_WT01)	21:11	25	07:27 (SAM_WT11)	20:04			18:57	123	15:42 (KLZ_WT19)	17:00	85	14:48 (KLZ_WT19)	16:38	78	15:44 (KLZ_WT10)
15	05:46		20:16 (KLZ_WT21)	06:30		07:01 (SAM_WT11)	07:19			08:07		09:46 (CBR_WT01)	08:01		13:24 (KLZ_WT19)	08:42		13:49 (KLZ_WT19)
	21:55	47	21:03 (KLZ_WT21)	21:09	26	07:27 (SAM_WT11)	20:02			18:55	127	15:43 (KLZ_WT19)	16:59	84	14:48 (KLZ_WT19)	16:38	76	15:44 (KLZ_WT10)
16	05:48		20:17 (KLZ_WT21)	06:32		07:01 (SAM_WT11)	07:21			08:09		09:44 (CBR_WT01)	08:02		13:25 (KLZ_WT19)	08:43		13:50 (KLZ_WT19)
	21:54	45	21:02 (KLZ_WT21)	21:07	27	07:28 (SAM_WT11)	19:59			18:52	131	15:43 (KLZ_WT19)	16:57	85	15:25 (KLZ_WT10)	16:38	76	15:45 (KLZ_WT10)
17	05:49		20:18 (KLZ_WT21)	06:33		07:00 (SAM_WT11)	07:22			08:11		09:44 (CBR_WT01)	08:04		13:26 (KLZ_WT19)	08:44		13:51 (KLZ_WT19)
	21:53	44	21:02 (KLZ_WT21)	21:05	28	07:28 (SAM_WT11)	19:57			18:50	134	15:44 (KLZ_WT19)	16:56	93	15:30 (KLZ_WT10)	16:38	76	15:46 (KLZ_WT10)
18	05:50		20:18 (KLZ_WT21)	06:35		07:02 (SAM_WT11)	07:24			08:12		09:44 (CBR_WT01)	08:06		13:25 (KLZ_WT19)	08:45		13:51 (KLZ_WT19)
	21:52	43	21:01 (KLZ_WT21)	21:03	26	07:28 (SAM_WT11)	19:55			18:48	137	15:45 (KLZ_WT19)	16:55	96	15:31 (KLZ_WT10)	16:39	74	15:45 (KLZ_WT10)
19	05:51		20:19 (KLZ_WT21)	06:37		07:03 (SAM_WT11)	07:25			08:14		09:45 (CBR_WT01)	08:07		13:26 (KLZ_WT19)	08:45		13:52 (KLZ_WT19)
	21:51	41	21:00 (KLZ_WT21)	21:01	24	07:27 (SAM_WT11)	19:53			18:46	138	15:46 (KLZ_WT19)	16:53	99	15:33 (KLZ_WT10)	16:39	74	15:46 (KLZ_WT10)
20	05:52		20:20 (KLZ_WT21)	06:38		07:05 (SAM_WT11)	07:27			08:16		09:45 (CBR_WT01)	08:09		13:27 (KLZ_WT19)	08:46		13:53 (KLZ_WT19)
	21:50	39	20:59 (KLZ_WT21)	20:59	22	07:27 (SAM_WT11)	19:50			18:44	142	18:17 (KLZ_WT16)	16:52	99	15:34 (KLZ_WT10)	16:39	74	15:47 (KLZ_WT10)
21	05:54		20:21 (KLZ_WT21)	06:40		07:06 (SAM_WT11)	07:28			08:17		09:44 (CBR_WT01)	08:11		13:28 (KLZ_WT19)	08:46		13:53 (KLZ_WT19)
	21:49	44	21:16 (KLZ_WT13)	20:57	20	07:26 (SAM_WT11)	19:48			18:42	145	18:14 (KLZ_WT16)	16:51	100	15:35 (KLZ_WT10)	16:40	74	15:47 (KLZ_WT10)
22	05:55		20:22 (KLZ_WT21)	06:41		07:08 (SAM_WT11)	07:30			08:19		09:44 (CBR_WT01)	08:12		13:29 (KLZ_WT19)	08:47		13:54 (KLZ_WT19)
	21:48	44	21:17 (KLZ_WT13)	20:55	18	07:26 (SAM_WT11)	19:46			18:40	144	18:12 (KLZ_WT16)	16:50	100	15:36 (KLZ_WT10)	16:40	74	15:48 (KLZ_WT10)
23	05:56		20:23 (KLZ_WT21)	06:43		07:09 (SAM_WT11)	07:32		08:32 (SAM_WT05)	08:21		09:45 (CBR_WT01)	08:14		13:29 (KLZ_WT19)	08:48		13:54 (KLZ_WT19)
	21:46	41	21:16 (KLZ_WT13)	20:52	16	07:25 (SAM_WT11)	19:43	9	08:41 (SAM_WT05)	18:38	143	15:48 (KLZ_WT19)	16:49	100	15:36 (KLZ_WT10)	16:41	74	15:48 (KLZ_WT10)
24	05:58		20:24 (KLZ_WT21)	06:44		07:11 (SAM_WT11)	07:33		08:29 (SAM_WT05)	08:23		09:45 (CBR_WT01)	08:15		13:30 (KLZ_WT19)	08:48		13:54 (KLZ_WT19)
	21:45	38	21:14 (KLZ_WT13)	20:50	13	07:24 (SAM_WT11)	19:41	15	08:44 (SAM_WT05)	18:36	143	15:48 (KLZ_WT19)	16:48	100	15:37 (KLZ_WT10)	16:41	74	15:48 (KLZ_WT10)
25	05:59		20:27 (KLZ_WT21)	06:46		07:12 (SAM_WT11)	07:35		08:26 (SAM_WT05)	07:24		08:46 (CBR_WT01)	08:17		13:31 (KLZ_WT19)	08:48		13:55 (KLZ_WT19)
	21:44	34	21:14 (KLZ_WT13)	20:48	10	07:22 (SAM_WT11)	19:39	19	08:45 (SAM_WT05)	17:34	144	14:49 (KLZ_WT19)	16:47	103	16:15 (NES_WT01)	16:42	74	15:49 (KLZ_WT10)
26	06:00		20:28 (KLZ_WT21)	06:48		07:14 (SAM_WT11)	07:36		08:24 (SAM_WT05)	07:26		08:45 (CBR_WT01)	08:19		13:32 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:42	30	21:12 (KLZ_WT13)	20:46	7	07:21 (SAM_WT11)	19:37	23	08:47 (SAM_WT05)	17:32	144	14:48 (KLZ_WT19)	16:46	101	16:14 (NES_WT01)	16:43	75	15:49 (KLZ_WT10)
27	06:02		20:30 (KLZ_WT21)	06:49		07:15 (SAM_WT11)	07:38		08:23 (SAM_WT05)	07:28		08:46 (CBR_WT01)	08:20		13:33 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:41	24	21:11 (KLZ_WT13)	20:44	2	07:17 (SAM_WT11)	19:34	25	08:48 (SAM_WT05)	17:30	144	14:49 (KLZ_WT19)	16:45	100	16:13 (NES_WT01)	16:43	76	15:50 (KLZ_WT10)
28	06:03		20:34 (KLZ_WT21)	06:51			07:40		08:22 (SAM_WT05)	07:30		08:47 (CBR_WT01)	08:22		13:34 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:40	15	21:10 (KLZ_WT13)	20:42			19:32	26	08:48 (SAM_WT05)	17:28	142	14:49 (KLZ_WT19)	16:44	98	16:12 (NES_WT01)	16:44	77	15:50 (KLZ_WT10)
29	06:05		21:07 (KLZ_WT13)	06:52			07:41		08:21 (SAM_WT05)	07:31		08:48 (CBR_WT01)	08:23		13:34 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:38	1	21:08 (KLZ_WT13)	20:40			19:30	40	10:24 (CBR_WT01)	17:26	141	14:49 (KLZ_WT19)	16:43	98	15:40 (KLZ_WT10)	16:45	78	15:51 (KLZ_WT10)
30	06:06			06:54			07:43		08:20 (SAM_WT05)	07:33		08:49 (CBR_WT01)	08:25		13:36 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:37			20:38			19:28	54	19:00 (KLZ_WT15)	17:25	141	14:50 (KLZ_WT19)	16:43	96	15:41 (KLZ_WT10)	16:46	78	15:51 (KLZ_WT10)
31	06:08			06:55		07:39 (SAM_WT04)				07:35		08:50 (CBR_WT01)				08:49		13:55 (KLZ_WT19)
	21:35			20:35	8	07:47 (SAM_WT04)				17:23	139	14:50 (KLZ_WT19)				16:47	80	15:52 (KLZ_WT10)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1600			468			393			3672			3182			2487	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,58			0,64			0,59			0,63			0,70			0,72	
Total reduction		0,25			0,29			0,25			0,22			0,18			0,16	
Total, real		406			137			98			815			584			394	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:49			08:24		17:05 (NES_WT01)	07:32		13:53 (CBR_WT01)	07:23		08:19 (SAM_WT05)	06:20		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:48			17:35	1	17:06 (NES_WT01)	18:25	98	17:51 (KLZ_WT10)	20:17	230	18:47 (KLZ_WT19)	21:06	110	20:38 (EVE_WT02)	21:50	47	20:50 (KLZ_WT21)
2	08:49			08:22			07:30		13:51 (CBR_WT01)	07:21		08:19 (SAM_WT05)	06:18		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:49			17:36			18:26	102	17:51 (KLZ_WT10)	20:19	226	18:46 (KLZ_WT19)	21:08	106	20:40 (EVE_WT02)	21:51	47	20:51 (KLZ_WT21)
3	08:49			08:21			07:28		13:49 (CBR_WT01)	07:19		08:19 (SAM_WT05)	06:16		06:53 (SAM_WT04)	05:35		06:03 (SAM_WT08)
	16:50			17:38			18:28	104	17:50 (KLZ_WT10)	20:20	221	18:43 (KLZ_WT19)	21:09	102	20:41 (EVE_WT02)	21:53	47	20:50 (KLZ_WT21)
4	08:49			08:19			07:26		13:47 (CBR_WT01)	07:16		08:19 (SAM_WT05)	06:15		06:53 (SAM_WT04)	05:34		06:02 (SAM_WT08)
	16:51			17:40			18:30	109	17:49 (KLZ_WT10)	20:22	216	18:41 (KLZ_WT19)	21:11	96	16:17 (CBR_WT01)	21:54	49	20:50 (KLZ_WT21)
5	08:49			08:18			07:24		13:44 (CBR_WT01)	07:14		08:19 (SAM_WT05)	06:13		06:53 (SAM_WT04)	05:33		06:02 (SAM_WT08)
	16:52			17:42			18:32	116	17:46 (KLZ_WT10)	20:24	207	18:37 (KLZ_WT19)	21:13	102	20:41 (KLZ_WT21)	21:55	49	20:50 (KLZ_WT21)
6	08:49			08:16			07:21		13:43 (CBR_WT01)	07:12		08:18 (SAM_WT05)	06:11		06:53 (SAM_WT04)	05:33		06:01 (SAM_WT08)
	16:54			17:44			18:33	125	17:48 (KLZ_WT19)	20:25	192	16:34 (CBR_WT01)	21:14	101	20:43 (KLZ_WT21)	21:55	49	20:49 (KLZ_WT21)
7	08:48			08:14			07:19		13:41 (CBR_WT01)	07:10		08:18 (SAM_WT05)	06:09		06:54 (SAM_WT04)	05:32		06:01 (SAM_WT08)
	16:55			17:45			18:35	133	17:51 (KLZ_WT19)	20:27	191	16:34 (CBR_WT01)	21:16	99	20:46 (KLZ_WT21)	21:56	48	20:49 (KLZ_WT21)
8	08:48			08:13			07:17		13:40 (CBR_WT01)	07:08		08:19 (SAM_WT05)	06:08		06:55 (SAM_WT04)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37	140	17:53 (KLZ_WT19)	20:28	189	16:34 (CBR_WT01)	21:17	95	20:47 (KLZ_WT21)	21:57	48	20:48 (KLZ_WT21)
9	08:47			08:11			07:15		13:38 (CBR_WT01)	07:05		08:19 (SAM_WT05)	06:06		06:56 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:57			17:49			18:38	145	17:53 (KLZ_WT19)	20:30	187	16:34 (CBR_WT01)	21:19	91	20:48 (KLZ_WT21)	21:58	48	20:48 (KLZ_WT21)
10	08:47			08:09			07:13		13:36 (CBR_WT01)	07:03		08:20 (SAM_WT05)	06:04		06:57 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40	151	17:55 (KLZ_WT19)	20:32	185	16:34 (CBR_WT01)	21:20	85	20:49 (KLZ_WT21)	21:59	47	20:48 (KLZ_WT21)
11	08:46			08:08			07:10		13:35 (CBR_WT01)	07:01		08:19 (SAM_WT05)	06:03		06:58 (SAM_WT04)	05:31		05:59 (SAM_WT08)
	17:00			17:53			18:42	155	17:56 (KLZ_WT19)	20:33	182	16:32 (CBR_WT01)	21:22	79	20:50 (KLZ_WT21)	21:59	47	20:47 (KLZ_WT21)
12	08:46			08:06			07:08		13:34 (CBR_WT01)	06:59		08:20 (SAM_WT05)	06:01		06:59 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44	160	17:57 (KLZ_WT19)	20:35	179	16:32 (CBR_WT01)	21:24	71	20:54 (KLZ_WT13)	22:00	47	20:47 (KLZ_WT21)
13	08:45			08:04			07:06		13:32 (CBR_WT01)	06:57		08:21 (SAM_WT05)	05:59		07:02 (SAM_WT04)	05:30		05:59 (SAM_WT11)
	17:03			17:56			18:45	164	17:57 (KLZ_WT19)	20:37	175	16:32 (CBR_WT01)	21:25	59	20:56 (KLZ_WT13)	22:01	47	20:47 (KLZ_WT21)
14	08:44			08:02			07:04		13:31 (CBR_WT01)	06:55		08:22 (SAM_WT05)	05:58		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:05			17:58			18:47	168	17:58 (KLZ_WT19)	20:38	171	16:31 (CBR_WT01)	21:27	33	20:57 (KLZ_WT13)	22:01	47	20:47 (KLZ_WT21)
15	08:44			08:00			07:01		07:50 (SAM_WT05)	06:52		08:23 (SAM_WT05)	05:56		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:06			18:00			18:49	177	17:59 (KLZ_WT19)	20:40	167	16:31 (CBR_WT01)	21:28	31	20:51 (KLZ_WT21)	22:02	46	20:47 (KLZ_WT21)
16	08:43			07:58			06:59		07:43 (SAM_WT05)	06:50		08:25 (SAM_WT05)	05:55		20:20 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:08			18:02			18:50	193	17:59 (KLZ_WT19)	20:42	161	16:31 (CBR_WT01)	21:30	32	20:52 (KLZ_WT21)	22:02	47	20:47 (KLZ_WT21)
17	08:42			07:56			06:57		07:39 (SAM_WT05)	06:48		08:26 (SAM_WT05)	05:53		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:09			18:03			18:52	202	17:59 (KLZ_WT19)	20:43	155	16:30 (CBR_WT01)	21:31	33	20:52 (KLZ_WT21)	22:03	46	20:47 (KLZ_WT21)
18	08:41			07:54			06:55		07:36 (SAM_WT05)	06:46		08:28 (SAM_WT05)	05:52		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:11			18:05			18:54	211	17:59 (KLZ_WT19)	20:45	149	16:30 (CBR_WT01)	21:32	33	20:52 (KLZ_WT21)	22:03	46	20:47 (KLZ_WT21)
19	08:40			07:53			06:52		07:34 (SAM_WT05)	06:44		08:31 (SAM_WT05)	05:51		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:12			18:07			18:55	217	17:59 (KLZ_WT19)	20:47	139	16:29 (CBR_WT01)	21:34	33	20:52 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
20	08:39			07:51			06:50		07:32 (SAM_WT05)	06:42		07:08 (SAM_WT04)	05:49		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:14			18:09			18:57	221	17:59 (KLZ_WT19)	20:48	130	16:29 (CBR_WT01)	21:35	33	20:53 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
21	08:38			07:49		14:21 (CBR_WT01)	06:48		07:30 (SAM_WT05)	06:40		07:04 (SAM_WT04)	05:48		20:19 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:16			18:11	27	14:48 (CBR_WT01)	18:59	225	17:58 (KLZ_WT19)	20:50	129	16:28 (CBR_WT01)	21:37	33	20:52 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
22	08:37			07:47		14:15 (CBR_WT01)	06:46		07:28 (SAM_WT05)	06:38		07:01 (SAM_WT04)	05:47		20:19 (KLZ_WT21)	05:30		06:00 (SAM_WT11)
	17:17			18:12	38	14:53 (CBR_WT01)	19:00	228	17:58 (KLZ_WT19)	20:51	131	16:27 (CBR_WT01)	21:38	33	20:52 (KLZ_WT21)	22:04	45	20:48 (KLZ_WT21)
23	08:36			07:45		14:11 (CBR_WT01)	06:43		07:27 (SAM_WT05)	06:36		06:59 (SAM_WT04)	05:46		20:19 (KLZ_WT21)	05:30		06:00 (SAM_WT11)
	17:19			18:14	52	17:46 (KLZ_WT10)	19:02	231	17:58 (KLZ_WT19)	20:53	131	16:27 (CBR_WT01)	21:39	33	20:52 (KLZ_WT21)	22:05	45	20:48 (KLZ_WT21)
24	08:35			07:42		14:07 (CBR_WT01)	06:41		07:25 (SAM_WT05)	06:34		06:58 (SAM_WT04)	05:44		06:11 (SWB_WT01_RP)	05:30		06:00 (SAM_WT11)
	17:21			18:16	66	17:50 (KLZ_WT08)	19:04	233	17:56 (KLZ_WT19)	20:55	130	16:26 (CBR_WT01)	21:41	34	21:10 (EVE_WT01)	22:05	46	20:48 (KLZ_WT21)
25	08:33			07:40		14:04 (CBR_WT01)	06:39		07:24 (SAM_WT05)	06:32		06:56 (SAM_WT04)	05:43		06:10 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:22			18:18	76	17:52 (KLZ_WT08)	19:05	235	17:56 (KLZ_WT19)	20:56	129	16:25 (CBR_WT01)	21:42	35	21:11 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
26	08:32			07:38		14:01 (CBR_WT01)	06:37		07:23 (SAM_WT05)	06:30		06:55 (SAM_WT04)	05:42		06:09 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:24			18:19	85	17:54 (KLZ_WT08)	19:07	236	17:55 (KLZ_WT19)	20:58	126	16:24 (CBR_WT01)	21:43	39	21:12 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
27	08:31			07:36		13:57 (CBR_WT01)	06:34		07:23 (SAM_WT05)	06:28		06:54 (SAM_WT04)	05:41		06:08 (SAM_WT08)	05:32		06:01 (SAM_WT11)
	17:26			18:21	93	17:55 (KLZ_WT08)	19:09	237	17:55 (KLZ_WT19)	21:00	123	16:23 (CBR_WT01)	21:45	40	21:13 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
28	08:30			07:34		13:55 (CBR_WT01)	06:32		07:21 (SAM_WT05)	06:26		06:54 (SAM_WT04)	05:40		06:07 (SAM_WT08)	05:32		06:02 (SAM_WT11)
	17:28			18:23	97	17:54 (KLZ_WT08)	19:10	236	17:53 (KLZ_WT19)	21:01	119	16:22 (CBR_WT01)	21:46	42	20:51 (KLZ_WT21)	22:05	47	20:50 (KLZ_WT21)
29	08:28						07:30		08:21 (SAM_WT05)	06:24		06:54 (SAM_WT04)	05:39		06:06 (SAM_WT08)	05:33		06:02 (SAM_WT11)
	17:29						20:12	234	18:52 (KLZ_WT19)	21:03	116	16:22 (CBR_WT01)	21:47	44	20:51 (KLZ_WT21)	22:05	46	20:50 (KLZ_WT21)
30	08:27						07:28		08:20 (SAM_WT05)	06:22		06:54 (SAM_WT04)	05:38		06:06 (SAM_WT08)	05:33		06:03 (SAM_WT08)
	17:31						20:14	235	18:51 (KLZ_WT19)	21:05	112	16:21 (CBR_WT01)	21:48	44	20:51 (KLZ_WT21)	22:04	47	20:51 (KLZ_WT21)
31	08:25						07:25		08:20 (SAM_WT05)				05:37		06:05 (SAM_WT08)			
	17:33						20:15	234	18:50 (KLZ_WT19)				21:49	46	20:51 (KLZ_WT21)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case				535				5655			4898			1847			1401	
Sun reduction				0,30				0,38			0,46			0,46			0,44	
Oper. time red.				0,97				0,97			0,97			0,97			0,97	
Wind dir. red.				0,72				0,69			0,70			0,64			0,67	
Total reduction				0,21				0,26			0,32			0,29			0,29	
Total, real				113				1452			1544			529			403	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November	December
1	05:34		06:04 (SAM_WT08)	06:09		07:09 (SAM_WT04)	06:57		08:19 (SAM_WT05)	07:44		14:12 (CBR_WT01)	07:36	08:26
	22:04	47	20:52 (KLZ_WT21)	21:33	74	21:00 (KLZ_WT21)	20:33	182	16:32 (CBR_WT01)	19:25	162	18:36 (KLZ_WT19)	17:21	16:42
2	05:34		06:04 (SAM_WT08)	06:10		07:07 (SAM_WT04)	06:59		08:18 (SAM_WT05)	07:46		14:13 (CBR_WT01)	07:38	08:27
	22:04	48	20:52 (KLZ_WT21)	21:32	82	20:59 (KLZ_WT21)	20:31	184	16:31 (CBR_WT01)	19:23	159	18:36 (KLZ_WT19)	17:19	16:41
3	05:35		06:05 (SAM_WT08)	06:12		07:07 (SAM_WT04)	07:00		08:17 (SAM_WT05)	07:48		14:14 (CBR_WT01)	07:40	08:29
	22:03	48	20:53 (KLZ_WT21)	21:30	87	20:59 (KLZ_WT21)	20:29	187	16:32 (CBR_WT01)	19:21	153	18:33 (KLZ_WT19)	17:17	16:41
4	05:36		06:06 (SAM_WT08)	06:13		07:05 (SAM_WT04)	07:02		08:16 (SAM_WT05)	07:49		14:15 (CBR_WT01)	07:42	08:30
	22:03	48	20:54 (KLZ_WT21)	21:29	93	20:57 (KLZ_WT21)	20:27	189	16:31 (CBR_WT01)	19:19	148	18:32 (KLZ_WT19)	17:16	16:40
5	05:37		06:06 (SAM_WT08)	06:15		07:05 (SAM_WT04)	07:03		08:15 (SAM_WT05)	07:51		14:16 (CBR_WT01)	07:43	08:31
	22:03	48	20:54 (KLZ_WT21)	21:27	97	20:57 (KLZ_WT21)	20:24	191	16:31 (CBR_WT01)	19:16	142	18:30 (KLZ_WT19)	17:14	16:40
6	05:37		06:07 (SAM_WT08)	06:16		07:04 (SAM_WT04)	07:05		08:14 (SAM_WT05)	07:52		14:17 (CBR_WT01)	07:45	08:33
	22:02	48	20:55 (KLZ_WT21)	21:25	100	20:55 (KLZ_WT21)	20:22	192	16:30 (CBR_WT01)	19:14	136	18:28 (KLZ_WT19)	17:12	16:39
7	05:38		06:08 (SAM_WT08)	06:18		07:04 (SAM_WT04)	07:06		08:14 (SAM_WT05)	07:54		14:18 (CBR_WT01)	07:47	08:34
	22:02	48	20:56 (KLZ_WT21)	21:23	102	20:53 (KLZ_WT21)	20:20	207	18:32 (KLZ_WT19)	19:12	129	18:25 (KLZ_WT19)	17:11	16:39
8	05:39		06:09 (SAM_WT08)	06:20		07:03 (SAM_WT04)	07:08		08:13 (SAM_WT05)	07:56		14:20 (CBR_WT01)	07:49	08:35
	22:01	48	20:57 (KLZ_WT21)	21:22	102	20:50 (KLZ_WT21)	20:18	216	18:35 (KLZ_WT19)	19:10	120	18:23 (KLZ_WT19)	17:09	16:39
9	05:40		06:10 (SAM_WT08)	06:21		07:02 (SAM_WT04)	07:10		08:13 (SAM_WT05)	07:57		14:20 (CBR_WT01)	07:50	08:36
	22:00	48	20:57 (KLZ_WT21)	21:20	98	20:51 (EVE_WT02)	20:15	221	18:37 (KLZ_WT19)	19:08	114	18:22 (KLZ_WT10)	17:07	16:38
10	05:41		06:11 (SAM_WT08)	06:23		07:02 (SAM_WT04)	07:11		08:12 (SAM_WT05)	07:59		14:22 (CBR_WT01)	07:52	08:37
	22:00	48	20:58 (KLZ_WT21)	21:18	103	20:50 (EVE_WT02)	20:13	227	18:39 (KLZ_WT19)	19:05	105	18:24 (KLZ_WT10)	17:06	16:38
11	05:42		06:12 (SAM_WT08)	06:24		07:01 (SAM_WT04)	07:13		08:12 (SAM_WT05)	08:01		14:24 (CBR_WT01)	07:54	08:38
	21:59	47	20:59 (KLZ_WT21)	21:16	108	20:48 (EVE_WT02)	20:11	229	18:40 (KLZ_WT19)	19:03	103	18:25 (KLZ_WT10)	17:04	16:38
12	05:43		06:13 (SAM_WT08)	06:26		07:02 (SAM_WT04)	07:14		08:11 (SAM_WT05)	08:02		14:25 (CBR_WT01)	07:56	08:39
	21:58	46	20:59 (KLZ_WT21)	21:14	110	16:29 (CBR_WT01)	20:09	233	18:41 (KLZ_WT19)	19:01	100	18:24 (KLZ_WT10)	17:03	16:38
13	05:44		06:14 (SAM_WT08)	06:27		07:01 (SAM_WT04)	07:16		08:12 (SAM_WT05)	08:04		14:27 (CBR_WT01)	07:57	08:40
	21:57	46	21:00 (KLZ_WT21)	21:12	115	16:29 (CBR_WT01)	20:06	233	18:42 (KLZ_WT19)	18:59	97	18:25 (KLZ_WT10)	17:01	16:38
14	05:45		06:15 (SAM_WT08)	06:29		07:02 (SAM_WT04)	07:17		08:11 (SAM_WT05)	08:06		14:29 (CBR_WT01)	07:59	08:41
	21:56	44	21:00 (KLZ_WT21)	21:11	118	16:30 (CBR_WT01)	20:04	236	18:42 (KLZ_WT19)	18:57	96	18:28 (KLZ_WT08)	17:00	16:38
15	05:46		06:16 (SAM_WT08)	06:30		07:01 (SAM_WT04)	07:19		08:11 (SAM_WT05)	08:07		14:32 (CBR_WT01)	08:01	08:42
	21:55	42	21:00 (KLZ_WT21)	21:09	122	16:30 (CBR_WT01)	20:02	237	18:43 (KLZ_WT19)	18:55	89	18:27 (KLZ_WT08)	16:58	16:38
16	05:48		06:17 (SAM_WT08)	06:32		07:02 (SAM_WT04)	07:21		08:11 (SAM_WT05)	08:09		14:33 (CBR_WT01)	08:02	08:43
	21:54	42	21:01 (KLZ_WT21)	21:07	124	16:31 (CBR_WT01)	19:59	236	18:43 (KLZ_WT19)	18:52	82	18:24 (KLZ_WT08)	16:57	16:38
17	05:49		06:18 (SAM_WT08)	06:33		07:02 (SAM_WT04)	07:22		08:12 (SAM_WT05)	08:11		14:36 (CBR_WT01)	08:04	08:44
	21:53	40	21:22 (EVE_WT01)	21:05	127	16:31 (CBR_WT01)	19:57	236	18:44 (KLZ_WT19)	18:50	72	18:22 (KLZ_WT08)	16:56	16:38
18	05:50		06:19 (SAM_WT08)	06:35		07:03 (SAM_WT04)	07:24		08:11 (SAM_WT05)	08:12		14:40 (CBR_WT01)	08:06	08:44
	21:52	36	21:21 (EVE_WT01)	21:03	129	16:32 (CBR_WT01)	19:55	235	18:43 (KLZ_WT19)	18:48	60	18:19 (KLZ_WT10)	16:55	16:39
19	05:51		06:20 (SWB_WT01_RP)	06:37		07:04 (SAM_WT04)	07:25		08:12 (SAM_WT05)	08:14		14:43 (CBR_WT01)	08:07	08:45
	21:51	35	21:20 (EVE_WT01)	21:01	130	16:32 (CBR_WT01)	19:53	234	18:44 (KLZ_WT19)	18:46	45	15:28 (CBR_WT01)	16:53	16:39
20	05:52		06:21 (SWB_WT01_RP)	06:38		07:05 (SAM_WT04)	07:27		08:13 (SAM_WT05)	08:16		14:47 (CBR_WT01)	08:09	08:46
	21:50	34	21:19 (EVE_WT01)	20:59	131	16:32 (CBR_WT01)	19:50	233	18:44 (KLZ_WT19)	18:44	35	15:22 (CBR_WT01)	16:52	16:39
21	05:54		20:30 (KLZ_WT21)	06:40		07:06 (SAM_WT04)	07:28		08:14 (SAM_WT05)	08:17		14:54 (CBR_WT01)	08:11	08:46
	21:49	32	21:02 (KLZ_WT21)	20:57	130	16:32 (CBR_WT01)	19:48	228	18:43 (KLZ_WT19)	18:42	22	15:16 (CBR_WT01)	16:51	16:40
22	05:55		20:30 (KLZ_WT21)	06:41		07:09 (SAM_WT04)	07:30		08:15 (SAM_WT05)	08:19			08:12	08:47
	21:48	32	21:02 (KLZ_WT21)	20:55	129	16:33 (CBR_WT01)	19:46	227	18:44 (KLZ_WT19)	18:40			16:50	16:40
23	05:56		20:29 (KLZ_WT21)	06:43		08:39 (SAM_WT05)	07:32		08:16 (SAM_WT05)	08:21			08:14	08:47
	21:46	33	21:02 (KLZ_WT21)	20:52	128	16:32 (CBR_WT01)	19:43	222	18:43 (KLZ_WT19)	18:38			16:49	16:41
24	05:58		20:29 (KLZ_WT21)	06:44		08:35 (SAM_WT05)	07:33		08:17 (SAM_WT05)	08:23			08:15	08:48
	21:45	33	21:02 (KLZ_WT21)	20:50	141	16:33 (CBR_WT01)	19:41	217	18:43 (KLZ_WT19)	18:36			16:48	16:41
25	05:59		20:30 (KLZ_WT21)	06:46		08:31 (SAM_WT05)	07:35		08:18 (SAM_WT05)	07:24			08:17	08:48
	21:44	33	21:03 (KLZ_WT21)	20:48	149	16:32 (CBR_WT01)	19:39	212	18:42 (KLZ_WT19)	17:34			16:47	16:42
26	06:00		20:30 (KLZ_WT21)	06:48		08:29 (SAM_WT05)	07:36		08:21 (SAM_WT05)	07:26			08:19	08:49
	21:42	32	21:02 (KLZ_WT21)	20:46	156	16:33 (CBR_WT01)	19:37	205	18:41 (KLZ_WT19)	17:32			16:46	16:43
27	06:02		20:29 (KLZ_WT21)	06:49		08:26 (SAM_WT05)	07:38		08:24 (SAM_WT05)	07:28			08:20	08:49
	21:41	33	21:02 (KLZ_WT21)	20:44	162	16:32 (CBR_WT01)	19:34	196	18:41 (KLZ_WT19)	17:30			16:45	16:43
28	06:03		20:30 (KLZ_WT21)	06:51		08:25 (SAM_WT05)	07:40		08:27 (SAM_WT05)	07:29			08:22	08:49
	21:40	32	21:02 (KLZ_WT21)	20:42	167	16:33 (CBR_WT01)	19:32	186	18:40 (KLZ_WT19)	17:28			16:44	16:44
29	06:05		20:30 (KLZ_WT21)	06:52		08:23 (SAM_WT05)	07:41		14:11 (CBR_WT01)	07:31			08:23	08:49
	21:38	33	21:08 (KLZ_WT13)	20:40	171	16:32 (CBR_WT01)	19:30	169	18:39 (KLZ_WT19)	17:26			16:43	16:45
30	06:06		07:14 (SAM_WT04)	06:54		08:22 (SAM_WT05)	07:43		14:11 (CBR_WT01)	07:33			08:24	08:49
	21:37	47	21:07 (KLZ_WT13)	20:38	175	16:33 (CBR_WT01)	19:28	166	18:37 (KLZ_WT19)	17:25			16:43	16:46
31	06:08		07:11 (SAM_WT04)	06:55		08:20 (SAM_WT05)				07:35				08:49
	21:35	64	21:06 (KLZ_WT13)	20:35	179	16:32 (CBR_WT01)				17:23				16:47
Potential sun hours	498			451			380			333			269	248
Total, worst case		1295			3839			6366			2169			
Sun reduction		0,45			0,47			0,43			0,36			
Oper. time red.		0,97			0,97			0,97			0,97			
Wind dir. red.		0,62			0,70			0,69			0,71			
Total reduction		0,27			0,32			0,29			0,25			
Total, real		348			1222			1849			549			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:18 (MVN_WT01)	07:32			07:23			06:20		06:44 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:48			17:35	7	09:25 (MVN_WT01)	18:25			20:17			21:06	19	07:03 (SAM_WT05)	21:50	23	20:40 (KLZ_WT10)
2	08:49			08:22			07:30			07:21			06:18		06:42 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:49			17:36			18:26			20:19			21:08	22	07:04 (SAM_WT05)	21:51	25	20:42 (KLZ_WT10)
3	08:49			08:21		17:07 (NES_WT01)	07:28			07:19			06:16		06:41 (SAM_WT05)	05:35		20:16 (KLZ_WT10)
	16:50			17:38	2	17:09 (NES_WT01)	18:28			20:20			21:09	24	07:05 (SAM_WT05)	21:53	27	20:43 (KLZ_WT10)
4	08:49			08:19		17:08 (NES_WT01)	07:26			07:17			06:15		06:40 (SAM_WT05)	05:34		20:15 (KLZ_WT10)
	16:51			17:40	3	17:11 (NES_WT01)	18:30			20:22			21:11	25	07:05 (SAM_WT05)	21:54	28	20:43 (KLZ_WT10)
5	08:49			08:18		17:08 (NES_WT01)	07:24			07:14			06:13		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT08)
	16:53			17:42	5	17:13 (NES_WT01)	18:32			20:24			21:13	26	07:05 (SAM_WT05)	21:55	30	20:44 (KLZ_WT10)
6	08:49			08:16		17:09 (NES_WT01)	07:21			07:12			06:11		06:38 (SAM_WT05)	05:33		06:01 (SAM_WT08)
	16:54			17:44	6	17:15 (NES_WT01)	18:33			20:25			21:14	27	07:05 (SAM_WT05)	21:55	32	20:45 (KLZ_WT10)
7	08:48			08:14		17:10 (NES_WT01)	07:19			07:10			06:09		06:39 (SAM_WT05)	05:32		06:01 (SAM_WT08)
	16:55			17:45	5	17:15 (NES_WT01)	18:35			20:27			21:16	27	07:06 (SAM_WT05)	21:56	34	20:46 (KLZ_WT10)
8	08:48			08:13			07:17			07:08		20:01 (KLZ_WT15)	06:08		06:38 (SAM_WT05)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37			20:28	2	20:03 (KLZ_WT15)	21:17	27	07:05 (SAM_WT05)	21:57	35	20:46 (KLZ_WT10)
9	08:47			08:11			07:15			07:05		20:01 (KLZ_WT15)	06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:58			17:49			18:39			20:30	4	20:05 (KLZ_WT15)	21:19	30	07:06 (SAM_WT05)	21:58	36	20:47 (KLZ_WT10)
10	08:47			08:09			07:13			07:03		20:02 (KLZ_WT15)	06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40			20:32	4	20:06 (KLZ_WT15)	21:20	32	07:05 (SAM_WT05)	21:59	37	20:48 (KLZ_WT10)
11	08:46			08:08			07:10			07:01		20:03 (KLZ_WT15)	06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	17:00			17:53			18:42			20:33	5	20:08 (KLZ_WT15)	21:22	34	07:05 (SAM_WT05)	22:00	39	20:49 (KLZ_WT10)
12	08:46			08:06			07:08			06:59		20:04 (KLZ_WT15)	06:01		06:26 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44			20:35	3	20:07 (KLZ_WT15)	21:24	36	07:05 (SAM_WT05)	22:00	39	20:48 (KLZ_WT10)
13	08:45		09:14 (MVN_WT01)	08:04			07:06			06:57			05:59		06:25 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:03	6	09:20 (MVN_WT01)	17:56			18:45			20:37			21:25	37	07:05 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
14	08:44		09:13 (MVN_WT01)	08:02			07:04			06:55			05:58		06:23 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:05	9	09:22 (MVN_WT01)	17:58			18:47			20:38			21:27	37	07:03 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
15	08:44		09:12 (MVN_WT01)	08:00			07:02			06:52			05:56		06:22 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:06	11	09:23 (MVN_WT01)	18:00			18:49			20:40			21:28	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
16	08:43		09:11 (MVN_WT01)	07:58			06:59		18:25 (KLZ_WT16)	06:50			05:55		06:21 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:08	13	09:24 (MVN_WT01)	18:02			18:50	1	18:26 (KLZ_WT16)	20:42			21:30	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
17	08:42		09:10 (MVN_WT01)	07:56			06:57		18:24 (KLZ_WT16)	06:48			05:53		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:09	15	09:25 (MVN_WT01)	18:03			18:52	3	18:27 (KLZ_WT16)	20:43			21:31	37	07:01 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
18	08:41		09:10 (MVN_WT01)	07:54			06:55		18:25 (KLZ_WT16)	06:46			05:52		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:11	16	09:26 (MVN_WT01)	18:05			18:54	4	18:29 (KLZ_WT16)	20:45			21:32	34	07:00 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
19	08:40		09:10 (MVN_WT01)	07:53			06:53		18:26 (KLZ_WT16)	06:44			05:51		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:12	17	09:27 (MVN_WT01)	18:07			18:55	5	18:31 (KLZ_WT16)	20:47			21:34	33	07:00 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
20	08:39		09:09 (MVN_WT01)	07:51			06:50			06:42			05:49		06:20 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:14	18	09:27 (MVN_WT01)	18:09			18:57			20:48			21:35	28	06:58 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
21	08:38		09:09 (MVN_WT01)	07:49			06:48			06:40			05:48		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:16	19	09:28 (MVN_WT01)	18:11			18:59			20:50			21:37	25	06:56 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
22	08:37		09:09 (MVN_WT01)	07:47			06:46		18:29 (KLZ_WT08)	06:38			05:47		06:20 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:17	20	09:29 (MVN_WT01)	18:12			19:00	5	18:34 (KLZ_WT08)	20:52			21:38	15	06:35 (SAM_WT04)	22:04	43	20:52 (KLZ_WT10)
23	08:36		09:10 (MVN_WT01)	07:45			06:44		18:26 (KLZ_WT08)	06:36			05:46		06:21 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:19	20	09:30 (MVN_WT01)	18:14			19:02	10	18:36 (KLZ_WT08)	20:53			21:39	13	06:34 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
24	08:35		09:09 (MVN_WT01)	07:43			06:41		18:24 (KLZ_WT08)	06:34			05:44		06:22 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:21	20	09:29 (MVN_WT01)	18:16			19:04	13	18:37 (KLZ_WT08)	20:55			21:41	11	06:33 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
25	08:33		09:10 (MVN_WT01)	07:40			06:39		18:23 (KLZ_WT08)	06:32			05:43		06:23 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:22	20	09:30 (MVN_WT01)	18:18			19:05	15	18:38 (KLZ_WT08)	20:56			21:42	9	06:32 (SAM_WT04)	22:05	43	20:53 (KLZ_WT10)
26	08:32		09:11 (MVN_WT01)	07:38			06:37		18:22 (KLZ_WT08)	06:30			05:42		06:25 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:24	19	09:30 (MVN_WT01)	18:19			19:07	16	18:38 (KLZ_WT08)	20:58			21:43	5	06:30 (SAM_WT04)	22:05	42	20:53 (KLZ_WT10)
27	08:31		09:11 (MVN_WT01)	07:36			06:34		18:22 (KLZ_WT08)	06:28			05:41		20:25 (KLZ_WT10)	05:32		06:01 (SAM_WT08)
	17:26	18	09:29 (MVN_WT01)	18:21			19:09	16	18:38 (KLZ_WT08)	21:00			21:45	6	20:31 (KLZ_WT10)	22:05	41	20:52 (KLZ_WT10)
28	08:30		09:12 (MVN_WT01)	07:34			06:32		18:22 (KLZ_WT08)	06:26		06:49 (SAM_WT05)	05:40		20:22 (KLZ_WT10)	05:32		06:02 (SAM_WT08)
	17:28	18	09:30 (MVN_WT01)	18:23			19:10	15	18:37 (KLZ_WT08)	21:01	9	06:58 (SAM_WT05)	21:46	12	20:34 (KLZ_WT10)	22:05	41	20:53 (KLZ_WT10)
29	08:28		09:12 (MVN_WT01)				07:30		19:22 (KLZ_WT08)	06:24		06:48 (SAM_WT05)	05:39		20:21 (KLZ_WT10)	05:33		06:02 (SAM_WT08)
	17:29	17	09:29 (MVN_WT01)				20:12	14	19:36 (KLZ_WT08)	21:03	13	07:01 (SAM_WT05)	21:47	16	20:37 (KLZ_WT10)	22:05	40	20:52 (KLZ_WT10)
30	08:27		09:14 (MVN_WT01)				07:28		19:23 (KLZ_WT08)	06:22		06:46 (SAM_WT05)	05:38		20:19 (KLZ_WT10)	05:33		06:03 (SAM_WT08)
	17:31	14	09:28 (MVN_WT01)				20:14	12	19:35 (KLZ_WT08)	21:05	16	07:02 (SAM_WT05)	21:48	19	20:38 (KLZ_WT10)	22:04	40	20:53 (KLZ_WT10)
31	08:25		09:15 (MVN_WT01)				07:25		19:25 (KLZ_WT08)				05:37		20:18 (KLZ_WT10)			
	17:33	12	09:27 (MVN_WT01)				20:15	9	19:34 (KLZ_WT08)				21:49	21	20:39 (KLZ_WT10)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	302			28			138			56			763			1138		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,54			0,66			0,63			0,64			0,67			0,58		
Total reduction	0,13			0,19			0,23			0,29			0,30			0,25		
Total, real	39			5			32			16			227			286		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October	November			December
1	05:34		06:04 (SAM_WT08)	06:09		06:37 (SAM_WT04)	06:57		20:01 (KLZ_WT15)	07:44	07:36			08:26
	22:04	39	20:53 (KLZ_WT10)	21:33	35	07:15 (SAM_WT05)	20:33	6	20:07 (KLZ_WT15)	19:25	17:21			16:42
2	05:34		06:04 (SAM_WT08)	06:11		06:39 (SAM_WT04)	06:59		20:00 (KLZ_WT15)	07:46	07:38			08:27
	22:04	38	20:52 (KLZ_WT10)	21:32	34	07:16 (SAM_WT05)	20:31	4	20:04 (KLZ_WT15)	19:23	17:19			16:41
3	05:35		06:05 (SAM_WT08)	06:12		06:40 (SAM_WT04)	07:00		19:59 (KLZ_WT15)	07:48	07:40			08:29
	22:03	36	20:52 (KLZ_WT10)	21:30	31	07:16 (SAM_WT05)	20:29	4	20:03 (KLZ_WT15)	19:21	17:17			16:41
4	05:36		06:06 (SAM_WT08)	06:14		06:41 (SAM_WT04)	07:02		19:58 (KLZ_WT15)	07:49	07:42		16:39 (NES_WT01)	08:30
	22:03	35	20:52 (KLZ_WT10)	21:29	29	07:15 (SAM_WT05)	20:27	2	20:00 (KLZ_WT15)	19:19	17:16	6	16:45 (NES_WT01)	16:40
5	05:37		06:06 (SAM_WT08)	06:15		06:49 (SAM_WT05)	07:03			07:51	07:43		16:38 (NES_WT01)	08:31
	22:03	34	20:51 (KLZ_WT10)	21:27	27	07:16 (SAM_WT05)	20:24			19:16	17:14	6	16:44 (NES_WT01)	16:40
6	05:37		06:07 (SAM_WT08)	06:17		06:48 (SAM_WT05)	07:05			07:52	07:45		16:38 (NES_WT01)	08:33
	22:02	33	20:51 (KLZ_WT10)	21:25	27	07:15 (SAM_WT05)	20:22			19:14	17:12	5	16:43 (NES_WT01)	16:39
7	05:38		06:08 (SAM_WT08)	06:18		06:49 (SAM_WT05)	07:06			07:54	07:47		16:38 (NES_WT01)	08:34
	22:02	31	20:51 (KLZ_WT10)	21:23	27	07:16 (SAM_WT05)	20:20			19:12	17:11	3	16:41 (NES_WT01)	16:39
8	05:39		20:22 (KLZ_WT10)	06:20		06:49 (SAM_WT05)	07:08			07:56	07:49		16:38 (NES_WT01)	08:35
	22:01	29	20:51 (KLZ_WT10)	21:22	26	07:15 (SAM_WT05)	20:18			19:10	17:09	1	16:39 (NES_WT01)	16:39
9	05:40		20:23 (KLZ_WT10)	06:21		06:50 (SAM_WT05)	07:10			07:57	07:50			08:36
	22:00	27	20:50 (KLZ_WT10)	21:20	25	07:15 (SAM_WT05)	20:15			19:08	17:07			16:39
10	05:41		20:24 (KLZ_WT10)	06:23		06:50 (SAM_WT05)	07:11			07:59	07:52		08:48 (MVN_WT01)	08:37
	22:00	26	20:50 (KLZ_WT10)	21:18	23	07:13 (SAM_WT05)	20:13			19:05	17:06	8	08:56 (MVN_WT01)	16:38
11	05:42		20:25 (KLZ_WT10)	06:24		06:51 (SAM_WT05)	07:13			08:01	07:54		08:46 (MVN_WT01)	08:38
	21:59	24	20:49 (KLZ_WT10)	21:16	21	07:12 (SAM_WT05)	20:11			19:03	17:04	12	08:58 (MVN_WT01)	16:38
12	05:43		20:26 (KLZ_WT10)	06:26		06:53 (SAM_WT05)	07:14		19:17 (KLZ_WT08)	08:02	07:56		08:45 (MVN_WT01)	08:39
	21:58	22	20:48 (KLZ_WT10)	21:14	19	07:12 (SAM_WT05)	20:09	8	19:25 (KLZ_WT08)	19:01	17:03	14	08:59 (MVN_WT01)	16:38
13	05:44		20:27 (KLZ_WT10)	06:27		06:54 (SAM_WT05)	07:16		19:15 (KLZ_WT08)	08:04	07:57		08:44 (MVN_WT01)	08:40
	21:57	20	20:47 (KLZ_WT10)	21:12	16	07:10 (SAM_WT05)	20:06	11	19:26 (KLZ_WT08)	18:59	17:01	17	09:01 (MVN_WT01)	16:38
14	05:45		20:28 (KLZ_WT10)	06:29		06:56 (SAM_WT05)	07:17		19:13 (KLZ_WT08)	08:06	07:59		08:44 (MVN_WT01)	08:41
	21:56	18	20:46 (KLZ_WT10)	21:11	12	07:08 (SAM_WT05)	20:04	14	19:27 (KLZ_WT08)	18:57	17:00	18	09:02 (MVN_WT01)	16:38
15	05:46		20:30 (KLZ_WT10)	06:30		06:57 (SAM_WT05)	07:19		19:12 (KLZ_WT08)	08:07	08:01		08:44 (MVN_WT01)	08:42
	21:55	15	20:45 (KLZ_WT10)	21:09	8	07:05 (SAM_WT05)	20:02	15	19:27 (KLZ_WT08)	18:55	16:59	18	09:02 (MVN_WT01)	16:38
16	05:48		20:32 (KLZ_WT10)	06:32			07:21		19:11 (KLZ_WT08)	08:09	08:02		08:44 (MVN_WT01)	08:43
	21:54	10	20:42 (KLZ_WT10)	21:07			19:59	16	19:27 (KLZ_WT08)	18:52	16:57	19	09:03 (MVN_WT01)	16:38
17	05:49			06:34			07:22		19:11 (KLZ_WT08)	08:11	08:04		08:44 (MVN_WT01)	08:44
	21:53			21:05			19:57	16	19:27 (KLZ_WT08)	18:50	16:56	20	09:04 (MVN_WT01)	16:38
18	05:50		06:34 (SAM_WT04)	06:35			07:24		19:10 (KLZ_WT08)	08:12	08:06		08:43 (MVN_WT01)	08:45
	21:52	7	06:41 (SAM_WT04)	21:03			19:55	15	19:25 (KLZ_WT08)	18:48	16:55	20	09:03 (MVN_WT01)	16:39
19	05:51		06:32 (SAM_WT04)	06:37			07:25		19:11 (KLZ_WT08)	08:14	08:07		08:44 (MVN_WT01)	08:45
	21:51	10	06:42 (SAM_WT04)	21:01			19:53	14	19:25 (KLZ_WT08)	18:46	16:53	20	09:04 (MVN_WT01)	16:39
20	05:52		06:32 (SAM_WT04)	06:38			07:27		19:12 (KLZ_WT08)	08:16	08:09		08:44 (MVN_WT01)	08:46
	21:50	12	06:44 (SAM_WT04)	20:59			19:50	11	19:23 (KLZ_WT08)	18:44	16:52	20	09:04 (MVN_WT01)	16:39
21	05:54		06:31 (SAM_WT04)	06:40			07:28		19:13 (KLZ_WT08)	08:17	08:11		08:45 (MVN_WT01)	08:46
	21:49	14	06:45 (SAM_WT04)	20:57			19:48	7	19:20 (KLZ_WT08)	18:42	16:51	19	09:04 (MVN_WT01)	16:40
22	05:55		06:30 (SAM_WT04)	06:41			07:30			08:19	08:12		08:45 (MVN_WT01)	08:47
	21:48	21	07:05 (SAM_WT05)	20:55			19:46			18:40	16:50	18	09:03 (MVN_WT01)	16:40
23	05:56		06:30 (SAM_WT04)	06:43			07:32			08:21	08:14		08:46 (MVN_WT01)	08:47
	21:46	27	07:07 (SAM_WT05)	20:52			19:44			18:38	16:49	17	09:03 (MVN_WT01)	16:41
24	05:58		06:29 (SAM_WT04)	06:44			07:33		19:10 (KLZ_WT16)	08:23	08:15		08:47 (MVN_WT01)	08:48
	21:45	31	07:08 (SAM_WT05)	20:50			19:41	5	19:15 (KLZ_WT16)	18:36	16:48	17	09:04 (MVN_WT01)	16:41
25	05:59		06:29 (SAM_WT04)	06:46			07:35		19:08 (KLZ_WT16)	07:24	08:17		08:48 (MVN_WT01)	08:48
	21:44	34	07:10 (SAM_WT05)	20:48			19:39	4	19:12 (KLZ_WT16)	17:34	16:47	16	09:04 (MVN_WT01)	16:42
26	06:00		06:29 (SAM_WT04)	06:48			07:36		19:07 (KLZ_WT16)	07:26	08:19		08:49 (MVN_WT01)	08:49
	21:42	36	07:11 (SAM_WT05)	20:46			19:37	3	19:10 (KLZ_WT16)	17:32	16:46	13	09:02 (MVN_WT01)	16:43
27	06:02		06:30 (SAM_WT04)	06:49			07:38		19:07 (KLZ_WT16)	07:28	08:20		08:51 (MVN_WT01)	08:49
	21:41	37	07:12 (SAM_WT05)	20:44			19:34	1	19:08 (KLZ_WT16)	17:30	16:45	11	09:02 (MVN_WT01)	16:43
28	06:03		06:32 (SAM_WT04)	06:51			07:40			07:29	08:22		08:53 (MVN_WT01)	08:49
	21:40	39	07:14 (SAM_WT05)	20:42			19:32			17:28	16:44	9	09:02 (MVN_WT01)	16:44
29	06:05		06:33 (SAM_WT04)	06:52			07:41			07:31	08:23		08:54 (MVN_WT01)	08:49
	21:38	38	07:14 (SAM_WT05)	20:40			19:30			17:26	16:43	6	09:00 (MVN_WT01)	16:45
30	06:06		06:34 (SAM_WT04)	06:54			07:43			07:33	08:25			08:49
	21:37	37	07:14 (SAM_WT05)	20:38			19:28			17:25	16:43			16:46
31	06:08		06:36 (SAM_WT04)	06:55		20:04 (KLZ_WT15)				07:35				08:49
	21:35	36	07:15 (SAM_WT05)	20:35	3	20:07 (KLZ_WT15)				17:23				16:47
Potential sun hours	498			451			380			333	269			248
Total, worst case		816			363			156				333		
Sun reduction		0,45			0,47			0,43				0,27		
Oper. time red.		0,97			0,97			0,97				0,97		
Wind dir. red.		0,62			0,67			0,62				0,55		
Total reduction		0,27			0,31			0,26				0,14		
Total, real		221			111			41				48		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:31 (RHR_WT02)	08:24		08:50 (MVZ_WT02)	07:32		07:55 (MXS_WT01)	07:23		19:43 (KLZ_WT16)	06:20		06:44 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:48	19	09:50 (RHR_WT02)	17:35	40	17:06 (NES_WT01)	18:25	22	08:17 (MXS_WT01)	20:17	8	19:51 (KLZ_WT16)	21:06	6	06:50 (SAM_WT05)	21:50	34	06:40 (CBR_WT01)
2	08:49		09:32 (RHR_WT02)	08:22		08:48 (MVZ_WT02)	07:30		07:53 (MXS_WT01)	07:21		19:43 (KLZ_WT16)	06:18		06:42 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:49	19	09:51 (RHR_WT02)	17:36	41	17:07 (NES_WT01)	18:26	25	08:18 (MXS_WT01)	20:19	10	19:53 (KLZ_WT16)	21:08	8	06:50 (SAM_WT05)	21:52	34	06:41 (CBR_WT01)
3	08:49		09:31 (RHR_WT02)	08:21		08:46 (MVZ_WT02)	07:28		07:53 (MXS_WT01)	07:19		19:43 (KLZ_WT16)	06:16		06:41 (SAM_WT05)	05:35		06:03 (SAM_WT11)
	16:50	19	09:50 (RHR_WT02)	17:38	41	17:08 (NES_WT01)	18:28	26	08:19 (MXS_WT01)	20:20	12	19:55 (KLZ_WT16)	21:09	10	06:51 (SAM_WT05)	21:53	34	06:40 (CBR_WT01)
4	08:49		09:33 (RHR_WT02)	08:19		08:46 (MVZ_WT02)	07:26		07:52 (MXS_WT01)	07:17		19:43 (KLZ_WT16)	06:15		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:51	18	09:51 (RHR_WT02)	17:40	37	17:08 (NES_WT01)	18:30	27	08:19 (MXS_WT01)	20:22	14	19:57 (KLZ_WT16)	21:11	13	20:43 (KLZ_WT15)	21:54	36	06:40 (CBR_WT01)
5	08:49		09:34 (RHR_WT02)	08:18		08:47 (MVZ_WT02)	07:24		07:51 (MXS_WT01)	07:14		19:43 (KLZ_WT16)	06:13		06:37 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:53	17	09:51 (RHR_WT02)	17:42	27	17:07 (NES_WT01)	18:32	27	08:18 (MXS_WT01)	20:24	15	19:58 (KLZ_WT16)	21:13	16	20:44 (KLZ_WT15)	21:55	36	06:41 (CBR_WT01)
6	08:49		09:34 (RHR_WT02)	08:16		08:49 (MVZ_WT02)	07:21		07:51 (MXS_WT01)	07:12		19:43 (KLZ_WT16)	06:11		06:36 (SAM_WT05)	05:33		06:01 (SAM_WT11)
	16:54	16	09:50 (RHR_WT02)	17:44	12	17:06 (NES_WT01)	18:33	27	08:18 (MXS_WT01)	20:25	13	19:56 (KLZ_WT16)	21:14	21	20:46 (KLZ_WT15)	21:55	37	06:41 (CBR_WT01)
7	08:48		09:35 (RHR_WT02)	08:14			07:19		07:51 (MXS_WT01)	07:10		19:45 (KLZ_WT16)	06:09		06:34 (SAM_WT05)	05:32		06:01 (SAM_WT11)
	16:55	16	09:51 (RHR_WT02)	17:45			18:35	27	08:18 (MXS_WT01)	20:27	9	19:54 (KLZ_WT16)	21:16	24	20:47 (KLZ_WT15)	21:56	37	06:41 (CBR_WT01)
8	08:48		09:36 (RHR_WT02)	08:13			07:17		07:51 (MXS_WT01)	07:08		19:48 (KLZ_WT16)	06:08		06:32 (SAM_WT04)	05:32		06:01 (SAM_WT11)
	16:56	14	09:50 (RHR_WT02)	17:47			18:37	27	08:18 (MXS_WT01)	20:29	2	19:50 (KLZ_WT16)	21:17	25	20:48 (KLZ_WT15)	21:57	37	06:42 (CBR_WT01)
9	08:47		09:38 (RHR_WT02)	08:11			07:15		07:52 (MXS_WT01)	07:05			06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:58	12	09:50 (RHR_WT02)	17:49			18:39	25	08:17 (MXS_WT01)	20:30			21:19	28	20:50 (KLZ_WT15)	21:58	36	06:41 (CBR_WT01)
10	08:47		09:39 (RHR_WT02)	08:09			07:13		07:51 (MXS_WT01)	07:03			06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:59	10	09:49 (RHR_WT02)	17:51			18:40	24	08:15 (MXS_WT01)	20:32			21:21	27	20:51 (KLZ_WT15)	21:59	38	06:42 (CBR_WT01)
11	08:46		09:41 (RHR_WT02)	08:08			07:10		07:52 (MXS_WT01)	07:01			06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	17:00	7	09:48 (RHR_WT02)	17:53			18:42	22	08:14 (MXS_WT01)	20:33			21:22	28	20:53 (KLZ_WT15)	22:00	37	06:42 (CBR_WT01)
12	08:46		09:14 (RHR_WT01)	08:06			07:08		07:54 (MXS_WT01)	06:59			06:01		06:26 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:02	3	09:17 (RHR_WT01)	17:54			18:44	19	08:13 (MXS_WT01)	20:35			21:24	22	20:54 (KLZ_WT15)	22:00	36	06:41 (CBR_WT01)
13	08:45		09:14 (RHR_WT01)	08:04			07:06		07:56 (MXS_WT01)	06:57			05:59		06:25 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:03	5	09:19 (RHR_WT01)	17:56			18:45	14	08:10 (MXS_WT01)	20:37			21:25	22	20:54 (KLZ_WT15)	22:01	37	06:42 (CBR_WT01)
14	08:44		09:13 (RHR_WT01)	08:02			07:04		07:58 (MXS_WT01)	06:55			05:58		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:05	8	09:21 (RHR_WT01)	17:58			18:47	8	08:06 (MXS_WT01)	20:38			21:27	20	20:52 (KLZ_WT15)	22:01	35	06:42 (CBR_WT01)
15	08:44		09:12 (RHR_WT01)	08:00			07:02			06:52			05:56		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:06	10	09:22 (RHR_WT01)	18:00			18:49			20:40			21:28	18	20:52 (KLZ_WT15)	22:02	35	06:42 (CBR_WT01)
16	08:43		09:11 (RHR_WT01)	07:58			06:59			06:50			05:55		06:25 (SAM_WT04)	05:30		06:02 (SAM_WT11)
	17:08	12	09:23 (RHR_WT01)	18:02			18:50			20:42			21:30	12	20:51 (KLZ_WT15)	22:03	35	06:43 (CBR_WT01)
17	08:42		09:10 (MVZ_WT01)	07:56		08:20 (MVN_WT01)	06:57			06:48			05:54			05:30		06:02 (SAM_WT11)
	17:09	14	09:24 (RHR_WT01)	18:03	1	08:21 (MVN_WT01)	18:52			20:43			21:31			22:03	34	06:43 (CBR_WT01)
18	08:41		09:09 (MVZ_WT01)	07:55		08:18 (MVN_WT01)	06:55			06:46			05:52		06:24 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:11	16	09:25 (RHR_WT01)	18:05	5	08:23 (MVN_WT01)	18:54			20:45			21:32	3	06:27 (CBR_WT01)	22:03	33	06:43 (CBR_WT01)
19	08:40		09:08 (MVZ_WT01)	07:53		08:16 (MVN_WT01)	06:53			06:44			05:51		06:21 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:12	18	09:26 (RHR_WT01)	18:07	9	08:25 (MVN_WT01)	18:55			20:47			21:34	10	06:31 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
20	08:39		09:06 (MVZ_WT01)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:14	20	09:26 (RHR_WT01)	18:09	11	08:25 (MVN_WT01)	18:57			20:48			21:35	14	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
21	08:38		09:05 (MVZ_WT01)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:17 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:16	22	09:27 (RHR_WT01)	18:11	14	08:26 (MVN_WT01)	18:59			20:50			21:37	16	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
22	08:37		09:04 (MVZ_WT01)	07:47		08:11 (MVN_WT01)	06:46			06:38			05:47		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:17	24	09:28 (RHR_WT01)	18:12	15	08:26 (MVN_WT01)	19:00			20:52			21:38	19	06:35 (CBR_WT01)	22:04	33	06:44 (CBR_WT01)
23	08:36		09:03 (MVZ_WT01)	07:45		08:11 (MVN_WT01)	06:44			06:36			05:46		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:19	25	09:28 (RHR_WT01)	18:14	15	08:26 (MVN_WT01)	19:02			20:53			21:39	20	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
24	08:35		09:01 (MVZ_WT01)	07:43		08:11 (MVN_WT01)	06:41			06:34			05:44		06:15 (CBR_WT01)	05:31		06:04 (SAM_WT11)
	17:21	27	09:28 (RHR_WT01)	18:16	14	08:25 (MVN_WT01)	19:04			20:55			21:41	21	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
25	08:34		09:02 (MVZ_WT01)	07:41		08:05 (MXS_WT01)	06:39			06:32			05:43		06:15 (CBR_WT01)	05:31		06:05 (SAM_WT11)
	17:22	27	09:29 (RHR_WT01)	18:18	15	08:24 (MVN_WT01)	19:05			20:56			21:42	22	06:37 (CBR_WT01)	22:05	33	06:45 (CBR_WT01)
26	08:32		09:03 (RHR_WT01)	07:38		08:02 (MXS_WT01)	06:37			06:30			05:42		06:09 (SAM_WT11)	05:31		06:04 (SAM_WT11)
	17:24	26	09:29 (RHR_WT01)	18:19	19	08:22 (MVN_WT01)	19:07			20:58			21:43	24	06:37 (CBR_WT01)	22:05	34	06:45 (CBR_WT01)
27	08:31		09:03 (RHR_WT01)	07:36		08:00 (MXS_WT01)	06:35			06:28			05:41		06:08 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:26	26	09:29 (RHR_WT01)	18:21	15	08:15 (MXS_WT01)	19:09			21:00			21:45	26	06:38 (CBR_WT01)	22:05	34	06:44 (CBR_WT01)
28	08:30		09:03 (RHR_WT01)	07:34		07:57 (MXS_WT01)	06:32			06:26			05:40		06:07 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:28	29	16:58 (NES_WT01)	18:23	19	08:16 (MXS_WT01)	19:10			21:01			21:46	28	06:38 (CBR_WT01)	22:05	35	06:45 (CBR_WT01)
29	08:28		08:54 (MVZ_WT02)				07:30			06:24			05:39		06:07 (SAM_WT11)	05:33		06:05 (SAM_WT11)
	17:29	31	16:59 (NES_WT01)				20:12			21:03			21:47	29	06:39 (CBR_WT01)	22:05	35	06:46 (CBR_WT01)
30	08:27		08:53 (MVZ_WT02)				07:28		19:46 (KLZ_WT16)	06:22		06:46 (SAM_WT05)	05:38		06:06 (SAM_WT11)	05:33		06:04 (SAM_WT11)
	17:31	34	17:02 (NES_WT01)				20:14	3	19:49 (KLZ_WT16)	21:05	3	06:49 (SAM_WT05)	21:48	31	06:40 (CBR_WT01)	22:04	37	06:46 (CBR_WT01)
31	08:25		08:51 (MVZ_WT02)				07:26		19:45 (KLZ_WT16)				05:37		06:05 (SAM_WT11)			
	17:33	37	17:03 (NES_WT01)				20:15	5	19:50 (KLZ_WT16)				21:49	32	06:40 (CBR_WT01)			
Potential sun hours	262			279			367			414			482			495		
Total, worst case		581			350			328			86			595			1047	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,55			0,58			0,55			0,61			0,67			0,70	
Total reduction		0,13			0,17			0,20			0,27			0,30			0,30	
Total, real		77			60			67			24			176			317	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (SAM_WT11)	06:09		06:37 (SAM_WT04)	06:57			07:44		08:33 (MXS_WT01)	07:36			08:26		09:23 (RHR_WT02)
	22:04	37 06:46 (CBR_WT01)	21:34	26	21:04 (KLZ_WT15)	20:33			19:25	18	08:51 (MXS_WT01)	17:21			16:42	7	09:30 (RHR_WT02)
2	05:34	06:04 (SAM_WT11)	06:11		06:39 (SAM_WT04)	06:59			07:46		08:32 (MXS_WT01)	07:38			08:27		09:22 (RHR_WT02)
	22:04	38 06:46 (CBR_WT01)	21:32	27	21:03 (KLZ_WT15)	20:31			19:23	20	08:52 (MXS_WT01)	17:19			16:41	10	09:32 (RHR_WT02)
3	05:35	06:05 (SAM_WT11)	06:12		06:40 (SAM_WT04)	07:00			07:48		08:30 (MXS_WT01)	07:40			08:29		09:21 (RHR_WT02)
	22:03	37 06:46 (CBR_WT01)	21:30	28	21:01 (KLZ_WT15)	20:29			19:21	23	08:53 (MXS_WT01)	17:17			16:41	12	09:33 (RHR_WT02)
4	05:36	06:06 (SAM_WT11)	06:14		06:41 (SAM_WT04)	07:02		19:46 (KLZ_WT16)	07:49		08:29 (MXS_WT01)	07:42		16:30 (NES_WT01)	08:30		09:21 (RHR_WT02)
	22:03	37 06:47 (CBR_WT01)	21:29	25	20:59 (KLZ_WT15)	20:27	1	19:47 (KLZ_WT16)	19:19	25	08:54 (MXS_WT01)	17:16	3	16:33 (NES_WT01)	16:40	14	09:35 (RHR_WT02)
5	05:37	06:06 (SAM_WT11)	06:15		06:45 (SAM_WT05)	07:03		19:42 (KLZ_WT16)	07:51		08:28 (MXS_WT01)	07:43		08:18 (MVZ_WT02)	08:31		09:21 (RHR_WT02)
	22:03	36 06:46 (CBR_WT01)	21:27	24	20:58 (KLZ_WT15)	20:24	9	19:51 (KLZ_WT16)	19:16	26	08:54 (MXS_WT01)	17:14	14	16:36 (NES_WT01)	16:40	15	09:36 (RHR_WT02)
6	05:38	06:07 (SAM_WT11)	06:17		06:44 (SAM_WT05)	07:05		19:39 (KLZ_WT16)	07:53		08:27 (MXS_WT01)	07:45		08:17 (MVZ_WT02)	08:33		09:20 (RHR_WT02)
	22:02	37 06:47 (CBR_WT01)	21:25	23	20:56 (KLZ_WT15)	20:22	13	19:52 (KLZ_WT16)	19:14	27	08:54 (MXS_WT01)	17:12	29	16:37 (NES_WT01)	16:40	16	09:36 (RHR_WT02)
7	05:38	06:08 (SAM_WT11)	06:18		06:46 (SAM_WT05)	07:07		19:38 (KLZ_WT16)	07:54		08:27 (MXS_WT01)	07:47		08:16 (MVZ_WT02)	08:34		09:20 (RHR_WT02)
	22:02	36 06:47 (CBR_WT01)	21:23	19	20:55 (KLZ_WT15)	20:20	15	19:53 (KLZ_WT16)	19:12	27	08:54 (MXS_WT01)	17:11	37	16:38 (NES_WT01)	16:39	17	09:37 (RHR_WT02)
8	05:39	06:09 (SAM_WT11)	06:20		06:47 (SAM_WT05)	07:08		19:37 (KLZ_WT16)	07:56		08:27 (MXS_WT01)	07:49		08:17 (MVZ_WT02)	08:35		09:21 (RHR_WT02)
	22:01	35 06:47 (CBR_WT01)	21:22	16	20:53 (KLZ_WT15)	20:18	14	19:51 (KLZ_WT16)	19:10	27	08:54 (MXS_WT01)	17:09	42	16:39 (NES_WT01)	16:39	18	09:39 (RHR_WT02)
9	05:40	06:10 (SAM_WT11)	06:21		06:49 (SAM_WT05)	07:10		19:37 (KLZ_WT16)	07:57		08:26 (MXS_WT01)	07:50		08:19 (MVZ_WT02)	08:36		09:21 (RHR_WT02)
	22:00	35 06:48 (CBR_WT01)	21:20	11	07:00 (SAM_WT05)	20:15	12	19:49 (KLZ_WT16)	19:08	27	08:53 (MXS_WT01)	17:07	42	16:38 (NES_WT01)	16:39	18	09:39 (RHR_WT02)
10	05:41	06:11 (SAM_WT11)	06:23		06:50 (SAM_WT05)	07:11		19:36 (KLZ_WT16)	07:59		08:26 (MXS_WT01)	07:52		08:21 (MVZ_WT02)	08:37		09:21 (RHR_WT02)
	22:00	35 06:48 (CBR_WT01)	21:18	9	06:59 (SAM_WT05)	20:13	10	19:46 (KLZ_WT16)	19:05	27	08:53 (MXS_WT01)	17:06	39	16:36 (NES_WT01)	16:38	19	09:40 (RHR_WT02)
11	05:42	06:12 (SAM_WT11)	06:24		06:51 (SAM_WT05)	07:13		19:36 (KLZ_WT16)	08:01		08:27 (MXS_WT01)	07:54		08:22 (MVZ_WT02)	08:38		09:21 (RHR_WT02)
	21:59	33 06:48 (CBR_WT01)	21:16	7	06:58 (SAM_WT05)	20:11	9	19:45 (KLZ_WT16)	19:03	25	08:52 (MXS_WT01)	17:04	37	16:34 (NES_WT01)	16:38	19	09:40 (RHR_WT02)
12	05:43	06:13 (SAM_WT11)	06:26		06:53 (SAM_WT05)	07:14		19:36 (KLZ_WT16)	08:02		08:27 (MXS_WT01)	07:56		08:24 (MVZ_WT02)	08:39		09:21 (RHR_WT02)
	21:58	32 06:48 (CBR_WT01)	21:14	5	06:58 (SAM_WT05)	20:09	6	19:42 (KLZ_WT16)	19:01	24	08:51 (MXS_WT01)	17:03	34	16:32 (NES_WT01)	16:38	20	09:41 (RHR_WT02)
13	05:44	06:14 (SAM_WT11)	06:27		06:54 (SAM_WT05)	07:16		19:37 (KLZ_WT16)	08:04		08:29 (MXS_WT01)	07:57		08:35 (RHR_WT01)	08:40		09:21 (RHR_WT02)
	21:57	32 06:48 (CBR_WT01)	21:12	2	06:56 (SAM_WT05)	20:06	3	19:40 (KLZ_WT16)	18:59	21	08:50 (MXS_WT01)	17:01	30	16:31 (NES_WT01)	16:38	20	09:41 (RHR_WT02)
14	05:45	06:15 (SAM_WT11)	06:29			07:17			08:06		08:31 (MXS_WT01)	07:59		08:35 (RHR_WT01)	08:41		09:22 (RHR_WT02)
	21:56	31 06:48 (CBR_WT01)	21:11			20:04			18:57	18	08:49 (MXS_WT01)	17:00	27	16:29 (NES_WT01)	16:38	20	09:42 (RHR_WT02)
15	05:46	06:16 (SAM_WT11)	06:30			07:19			08:07		08:33 (MXS_WT01)	08:01		08:36 (RHR_WT01)	08:42		09:22 (RHR_WT02)
	21:55	29 06:48 (CBR_WT01)	21:09			20:02			18:55	20	08:53 (MVN_WT01)	16:59	26	09:02 (RHR_WT01)	16:38	21	09:43 (RHR_WT02)
16	05:48	06:17 (SAM_WT11)	06:32			07:21			08:09		08:34 (MXS_WT01)	08:02		08:36 (RHR_WT01)	08:43		09:23 (RHR_WT02)
	21:54	27 06:48 (CBR_WT01)	21:07			20:00			18:53	19	08:54 (MVN_WT01)	16:57	26	09:02 (RHR_WT01)	16:38	21	09:44 (RHR_WT02)
17	05:49	06:18 (SAM_WT11)	06:34			07:22			08:11		08:43 (MVN_WT01)	08:04		08:36 (MVZ_WT01)	08:44		09:23 (RHR_WT02)
	21:53	25 06:47 (CBR_WT01)	21:05			19:57			18:50	13	08:56 (MVN_WT01)	16:56	27	09:03 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
18	05:50	06:24 (CBR_WT01)	06:35			07:24			08:12		08:42 (MVN_WT01)	08:06		08:35 (MVZ_WT01)	08:45		09:23 (RHR_WT02)
	21:52	23 06:47 (CBR_WT01)	21:03			19:55			18:48	15	08:57 (MVN_WT01)	16:55	27	09:02 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
19	05:51	06:24 (CBR_WT01)	06:37			07:25			08:14		08:42 (MVN_WT01)	08:07		08:37 (MVZ_WT01)	08:45		09:24 (RHR_WT02)
	21:51	22 06:46 (CBR_WT01)	21:01			19:53			18:46	15	08:57 (MVN_WT01)	16:53	25	09:02 (RHR_WT01)	16:39	21	09:45 (RHR_WT02)
20	05:53	06:26 (CBR_WT01)	06:38			07:27			08:16		08:42 (MVN_WT01)	08:09		08:39 (MVZ_WT01)	08:46		09:25 (RHR_WT02)
	21:50	20 06:46 (CBR_WT01)	20:59			19:50			18:44	15	08:57 (MVN_WT01)	16:52	24	09:03 (RHR_WT01)	16:39	21	09:46 (RHR_WT02)
21	05:54	06:27 (CBR_WT01)	06:40			07:28			08:17		08:43 (MVN_WT01)	08:11		08:41 (MVZ_WT01)	08:46		09:24 (RHR_WT02)
	21:49	19 06:46 (CBR_WT01)	20:57			19:48			18:42	13	08:56 (MVN_WT01)	16:51	22	09:03 (RHR_WT01)	16:40	22	09:46 (RHR_WT02)
22	05:55	06:27 (CBR_WT01)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (MVZ_WT01)	08:47		09:25 (RHR_WT02)
	21:48	18 06:45 (CBR_WT01)	20:55			19:46			18:40	11	08:56 (MVN_WT01)	16:50	20	09:03 (RHR_WT01)	16:40	22	09:47 (RHR_WT02)
23	05:56	06:28 (CBR_WT01)	06:43			07:32			08:21		08:47 (MVN_WT01)	08:14		08:44 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:46	15 06:43 (CBR_WT01)	20:52			19:44			18:38	8	08:55 (MVN_WT01)	16:49	18	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
24	05:58	06:30 (CBR_WT01)	06:45			07:33			08:23		08:49 (MVN_WT01)	08:15		08:46 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:45	13 06:43 (CBR_WT01)	20:50			19:41			18:36	4	08:53 (MVN_WT01)	16:48	16	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
25	05:59	06:32 (CBR_WT01)	06:46			07:35			07:24			08:17		08:48 (MVZ_WT01)	08:48		09:27 (RHR_WT02)
	21:44	8 06:40 (CBR_WT01)	20:48			19:39			17:34			16:47	14	09:02 (RHR_WT01)	16:42	21	09:48 (RHR_WT02)
26	06:01		06:48			07:36			07:26			08:19		08:49 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:42		20:46			19:37			17:32			16:46	12	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
27	06:02	20:55 (KLZ_WT15)	06:49			07:38			07:28			08:20		08:51 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:41	4 20:59 (KLZ_WT15)	20:44			19:34			17:30			16:45	10	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
28	06:03	06:34 (SAM_WT04)	06:51			07:40			07:30			08:22		08:53 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:40	15 21:02 (KLZ_WT15)	20:42			19:32			17:28			16:44	8	09:01 (RHR_WT01)	16:44	21	09:49 (RHR_WT02)
29	06:05	06:33 (SAM_WT04)	06:52			07:41		08:41 (MXS_WT01)	07:31			08:23		08:54 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:38	20 21:03 (KLZ_WT15)	20:40			19:30	4	08:45 (MXS_WT01)	17:26			16:44	6	09:00 (RHR_WT01)	16:45	21	09:49 (RHR_WT02)
30	06:06	06:34 (SAM_WT04)	06:54			07:43		08:35 (MXS_WT01)	07:33			08:25		08:56 (RHR_WT01)	08:49		09:29 (RHR_WT02)
	21:37	20 21:03 (KLZ_WT15)	20:38			19:28	13	08:48 (MXS_WT01)	17:25			16:43	3	08:59 (RHR_WT01)	16:46	20	09:49 (RHR_WT02)
31	06:08	06:36 (SAM_WT04)	06:56						07:35						08:49		09:30 (RHR_WT02)
	21:35	22 21:04 (KLZ_WT15)	20:35						17:23						16:47	20	09:50 (RHR_WT02)
Potential sun hours	498		451			380			333			269			248		
Total, worst case	791		222			109			468			618			582		
Sun reduction	0,45		0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,97		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,69		0,64			0,60			0,55			0,57			0,54		
Total reduction	0,30		0,29			0,25			0,20			0,15			0,12		
Total, real	239		65			28			91			91			69		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:23 (RHR_WT03)	08:24		08:50 (MVZ_WT01)	07:32		08:04 (MVN_WT01)	07:23		19:36 (KLZ_WT16)	06:20		06:44 (CBR_WT01)	05:36		06:14 (KLZ_WT19)
	16:48	42	10:22 (ALB_WT01)	17:35	6	08:56 (MVZ_WT01)	18:25	4	08:08 (MVN_WT01)	20:17	16	19:52 (KLZ_WT16)	21:06	14	06:58 (CBR_WT01)	21:50	53	21:19 (KLZ_WT15)
2	08:49		09:23 (RHR_WT03)	08:23		08:48 (MVZ_WT01)	07:30			07:21		19:34 (KLZ_WT16)	06:18		06:42 (CBR_WT01)	05:36		06:14 (KLZ_WT19)
	16:49	41	10:22 (ALB_WT01)	17:36	7	08:55 (MVZ_WT01)	18:27			20:19	19	19:53 (KLZ_WT16)	21:08	16	06:58 (CBR_WT01)	21:52	54	21:20 (KLZ_WT15)
3	08:49		09:23 (RHR_WT03)	08:21		08:46 (MVZ_WT01)	07:28		07:51 (MXS_WT01)	07:19		19:33 (KLZ_WT16)	06:16		06:41 (CBR_WT01)	05:35		06:14 (KLZ_WT19)
	16:50	40	10:21 (ALB_WT01)	17:38	9	08:55 (MVZ_WT01)	18:28	1	07:52 (MXS_WT01)	20:20	22	19:55 (KLZ_WT16)	21:09	19	07:00 (CBR_WT01)	21:53	55	21:21 (KLZ_WT15)
4	08:49		09:24 (RHR_WT03)	08:19		08:45 (RHR_WT01)	07:26		07:49 (MXS_WT01)	07:17		19:33 (KLZ_WT16)	06:15		06:39 (SAM_WT04)	05:34		06:13 (KLZ_WT19)
	16:51	41	16:18 (NES_WT01)	17:40	10	08:55 (MVZ_WT01)	18:30	5	07:54 (MXS_WT01)	20:22	23	19:56 (KLZ_WT16)	21:11	21	07:00 (CBR_WT01)	21:54	56	21:21 (KLZ_WT15)
5	08:49		09:25 (RHR_WT03)	08:18		08:43 (RHR_WT01)	07:24		07:46 (MXS_WT01)	07:14		19:33 (KLZ_WT16)	06:13		06:40 (CBR_WT01)	05:34		06:14 (KLZ_WT19)
	16:53	38	16:19 (NES_WT01)	17:42	12	08:55 (RHR_WT01)	18:32	8	07:54 (MXS_WT01)	20:24	23	19:56 (KLZ_WT16)	21:13	19	06:59 (CBR_WT01)	21:55	56	21:22 (KLZ_WT15)
6	08:49		09:25 (RHR_WT03)	08:16		08:41 (RHR_WT01)	07:21		07:44 (MXS_WT01)	07:12		19:32 (KLZ_WT16)	06:11		06:40 (CBR_WT01)	05:33		06:14 (KLZ_WT19)
	16:54	38	16:20 (NES_WT01)	17:44	15	08:56 (RHR_WT01)	18:33	11	07:55 (MXS_WT01)	20:25	23	19:55 (KLZ_WT16)	21:14	20	07:00 (CBR_WT01)	21:56	55	21:21 (KLZ_WT15)
7	08:48		09:26 (RHR_WT03)	08:15		08:39 (RHR_WT01)	07:19		07:42 (MXS_WT01)	07:10		19:32 (KLZ_WT16)	06:09		06:40 (CBR_WT01)	05:32		06:01 (SAM_WT07)
	16:55	34	16:22 (NES_WT01)	17:45	17	08:56 (RHR_WT01)	18:35	13	07:55 (MXS_WT01)	20:27	23	19:55 (KLZ_WT16)	21:16	20	07:00 (CBR_WT01)	21:56	58	21:22 (KLZ_WT15)
8	08:48		09:26 (RHR_WT03)	08:13		08:38 (RHR_WT01)	07:17		07:40 (MXS_WT01)	07:08		19:32 (KLZ_WT16)	06:08		06:39 (CBR_WT01)	05:32		06:01 (SAM_WT07)
	16:56	33	16:23 (NES_WT01)	17:47	18	08:56 (RHR_WT01)	18:37	16	07:56 (MXS_WT01)	20:29	22	19:54 (KLZ_WT16)	21:17	20	06:59 (CBR_WT01)	21:57	58	21:23 (KLZ_WT15)
9	08:47		09:27 (RHR_WT03)	08:11		08:36 (RHR_WT01)	07:15		07:38 (MXS_WT01)	07:06		19:33 (KLZ_WT16)	06:06		06:40 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	16:58	35	16:25 (NES_WT01)	17:49	20	08:56 (RHR_WT01)	18:39	17	07:55 (MXS_WT01)	20:30	20	19:53 (KLZ_WT16)	21:19	19	06:59 (CBR_WT01)	21:58	60	21:22 (KLZ_WT15)
10	08:47		09:27 (RHR_WT03)	08:09		08:34 (MVZ_WT02)	07:13		07:37 (MXS_WT01)	07:03		19:34 (KLZ_WT16)	06:04		06:40 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	16:59	35	16:26 (NES_WT01)	17:51	21	08:55 (RHR_WT01)	18:40	17	07:54 (MXS_WT01)	20:32	18	19:52 (KLZ_WT16)	21:21	18	06:58 (CBR_WT01)	21:59	60	21:23 (KLZ_WT15)
11	08:46		09:15 (RHR_WT02)	08:08		08:32 (MVZ_WT02)	07:10		07:38 (MXS_WT01)	07:01		19:35 (KLZ_WT16)	06:03		06:41 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	17:00	37	16:27 (NES_WT01)	17:53	23	08:55 (RHR_WT01)	18:42	15	07:53 (MXS_WT01)	20:33	16	19:51 (KLZ_WT16)	21:22	17	06:58 (CBR_WT01)	22:00	61	21:23 (KLZ_WT15)
12	08:46		09:14 (RHR_WT02)	08:06		08:38 (RHR_WT01)	07:08		07:39 (MXS_WT01)	06:59		19:36 (KLZ_WT16)	06:01		06:26 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:02	41	16:29 (NES_WT01)	17:55	16	08:54 (RHR_WT01)	18:44	13	07:52 (MXS_WT01)	20:35	12	19:48 (KLZ_WT16)	21:24	16	06:56 (CBR_WT01)	22:00	60	21:22 (KLZ_WT15)
13	08:45		09:14 (RHR_WT02)	08:04		08:39 (RHR_WT01)	07:06		07:40 (MXS_WT01)	06:57		19:40 (KLZ_WT16)	06:00		06:25 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:03	42	16:31 (NES_WT01)	17:56	13	08:52 (RHR_WT01)	18:45	10	07:50 (MXS_WT01)	20:37	4	19:44 (KLZ_WT16)	21:25	15	06:56 (CBR_WT01)	22:01	63	21:23 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02		08:42 (RHR_WT01)	07:04			06:55			05:58		06:23 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:05	44	16:32 (NES_WT01)	17:58	8	08:50 (RHR_WT01)	18:47			20:38			21:27	12	06:53 (CBR_WT01)	22:01	62	21:23 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00			07:02			06:52			05:56		06:22 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:06	45	16:32 (NES_WT01)	18:00			18:49			20:40			21:28	8	06:51 (CBR_WT01)	22:02	61	21:23 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58			06:59			06:50			05:55		06:21 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:08	44	16:32 (NES_WT01)	18:02			18:50			20:42			21:30	5	06:26 (SAM_WT11)	22:03	63	21:24 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:56			06:57			06:48			05:54		06:19 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:09	44	16:33 (NES_WT01)	18:04			18:52			20:43			21:31	7	06:29 (KLZ_WT19)	22:03	63	21:24 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55			06:55			06:46			05:52		06:18 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:11	42	16:33 (NES_WT01)	18:05			18:54			20:45			21:33	16	06:34 (KLZ_WT19)	22:03	63	21:24 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53			06:53			06:44			05:51		06:17 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:12	41	16:33 (NES_WT01)	18:07			18:55			20:47			21:34	20	06:37 (KLZ_WT19)	22:04	63	21:24 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51			06:50			06:42			05:49		06:20 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:14	36	16:33 (NES_WT01)	18:09			18:57			20:48			21:35	18	06:38 (KLZ_WT19)	22:04	64	21:24 (KLZ_WT15)
21	08:38		09:05 (RHR_WT02)	07:49			06:48			06:40		07:03 (SAM_WT05)	05:48		06:19 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:16	30	16:32 (NES_WT01)	18:11			18:59			20:50	2	07:05 (SAM_WT05)	21:37	21	06:40 (KLZ_WT19)	22:04	64	21:24 (KLZ_WT15)
22	08:37		09:05 (RHR_WT02)	07:47		08:10 (MVN_WT01)	06:46			06:38		07:01 (SAM_WT05)	05:47		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:17	28	16:32 (NES_WT01)	18:12	2	08:12 (MVN_WT01)	19:00			20:52	4	07:05 (SAM_WT05)	21:38	26	21:07 (KLZ_WT15)	22:05	64	21:25 (KLZ_WT15)
23	08:36		09:06 (RHR_WT02)	07:45		08:08 (MVN_WT01)	06:44			06:36		06:59 (SAM_WT05)	05:46		06:16 (KLZ_WT19)	05:30		06:00 (SAM_WT07)
	17:19	27	16:32 (NES_WT01)	18:14	5	08:13 (MVN_WT01)	19:02			20:53	6	07:05 (SAM_WT05)	21:39	32	21:09 (KLZ_WT15)	22:05	63	21:25 (KLZ_WT15)
24	08:35		09:06 (RHR_WT02)	07:43		08:06 (MVN_WT01)	06:41			06:34		06:57 (SAM_WT05)	05:44		06:16 (KLZ_WT10)	05:31		06:00 (SAM_WT07)
	17:21	21	16:30 (NES_WT01)	18:16	7	08:13 (MVN_WT01)	19:04			20:55	8	07:05 (SAM_WT05)	21:41	35	21:10 (KLZ_WT15)	22:05	63	21:25 (KLZ_WT15)
25	08:34		09:08 (RHR_WT02)	07:41		08:04 (MVN_WT01)	06:39			06:32		06:55 (SAM_WT05)	05:43		06:15 (KLZ_WT19)	05:31		06:01 (SAM_WT07)
	17:22	12	09:20 (RHR_WT02)	18:18	10	08:14 (MVN_WT01)	19:05			20:56	9	07:04 (SAM_WT05)	21:42	37	21:11 (KLZ_WT15)	22:05	63	21:26 (KLZ_WT15)
26	08:32		09:09 (RHR_WT02)	07:38		08:02 (MVN_WT01)	06:37			06:30		06:53 (SAM_WT05)	05:42		06:15 (KLZ_WT19)	05:31		06:01 (SAM_WT07)
	17:24	10	09:19 (RHR_WT02)	18:20	11	08:13 (MVN_WT01)	19:07			20:58	10	07:03 (SAM_WT05)	21:43	40	21:12 (KLZ_WT15)	22:05	63	21:26 (KLZ_WT15)
27	08:31		09:11 (RHR_WT02)	07:36		08:02 (MVN_WT01)	06:35			06:28		06:52 (SAM_WT05)	05:41		06:14 (KLZ_WT19)	05:32		06:02 (SAM_WT07)
	17:26	6	09:17 (RHR_WT02)	18:21	11	08:13 (MVN_WT01)	19:09			21:00	10	07:02 (SAM_WT05)	21:45	44	21:13 (KLZ_WT15)	22:05	62	21:26 (KLZ_WT15)
28	08:30			07:34		08:02 (MVN_WT01)	06:32			06:26		06:53 (SAM_WT05)	05:40		06:14 (KLZ_WT19)	05:32		06:02 (SAM_WT07)
	17:28			18:23	9	08:11 (MVN_WT01)	19:10			21:01	7	07:00 (SAM_WT05)	21:46	45	21:14 (KLZ_WT15)	22:05	62	21:26 (KLZ_WT15)
29	08:28						07:30		19:42 (KLZ_WT16)	06:24		06:48 (CBR_WT01)	05:39		06:15 (KLZ_WT19)	05:33		06:03 (SAM_WT07)
	17:29						20:12	5	19:47 (KLZ_WT16)	21:03	8	06:56 (CBR_WT01)	21:47	47	21:16 (KLZ_WT15)	22:05	62	21:27 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		19:39 (KLZ_WT16)	06:22		06:46 (CBR_WT01)	05:38		06:14 (KLZ_WT19)	05:33		06:03 (SAM_WT07)
	17:31	2	08:55 (MVZ_WT01)				20:14	10	19:49 (KLZ_WT16)	21:05	11	06:57 (CBR_WT01)	21:48	49	21:17 (KLZ_WT15)	22:04	61	21:27 (KLZ_WT15)
31	08:25		08:51 (MVZ_WT01)				07:26		19:37 (KLZ_WT16)				05:37		06:14 (KLZ_WT19)			
	17:33	4	08:55 (MVZ_WT01)				20:15	13	19:50 (KLZ_WT16)				21:49	51	21:18 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		933			250			158			316			747			1815	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,58			0,55			0,57			0,62			0,67			0,66	
Total reduction		0,14			0,16			0,21			0,28			0,30			0,28	
Total, real		132			41			33			89			224			515	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:
WP Kluizendok v1

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT07)	06:09		06:52 (CBR_WT01)	06:57		19:34 (KLZ_WT16)	07:44		08:18 (MXS_WT01)	07:37		08:04 (MVZ_WT02)	08:26		08:57 (RHR_WT02)
	22:04	61	21:27 (KLZ_WT15)	21:34	15	07:07 (CBR_WT01)	20:33	16	19:50 (KLZ_WT16)	19:25	12	08:30 (MXS_WT01)	17:21	21	08:25 (RHR_WT01)	16:42	36	16:09 (NES_WT01)
2	05:35		06:04 (SAM_WT07)	06:11		06:51 (CBR_WT01)	06:59		19:32 (KLZ_WT16)	07:46		08:17 (MXS_WT01)	07:38		08:06 (RHR_WT01)	08:27		09:10 (RHR_WT03)
	22:04	61	21:27 (KLZ_WT15)	21:32	17	07:08 (CBR_WT01)	20:31	18	19:50 (KLZ_WT16)	19:23	15	08:32 (MXS_WT01)	17:19	20	08:26 (RHR_WT01)	16:42	35	16:09 (NES_WT01)
3	05:35		06:05 (SAM_WT07)	06:12		06:50 (CBR_WT01)	07:00		19:31 (KLZ_WT16)	07:48		08:15 (MXS_WT01)	07:40		08:07 (RHR_WT01)	08:29		09:10 (RHR_WT03)
	22:03	59	21:27 (KLZ_WT15)	21:30	19	07:09 (CBR_WT01)	20:29	21	19:52 (KLZ_WT16)	19:21	17	08:32 (MXS_WT01)	17:17	18	08:25 (RHR_WT01)	16:41	35	16:08 (NES_WT01)
4	05:36		06:06 (SAM_WT07)	06:14		06:49 (CBR_WT01)	07:02		19:29 (KLZ_WT16)	07:49		08:15 (MXS_WT01)	07:42		08:09 (RHR_WT01)	08:30		09:11 (RHR_WT03)
	22:03	59	21:28 (KLZ_WT15)	21:29	20	07:09 (CBR_WT01)	20:27	22	19:51 (KLZ_WT16)	19:19	17	08:32 (MXS_WT01)	17:16	16	08:25 (RHR_WT01)	16:40	33	16:08 (NES_WT01)
5	05:37		06:07 (SAM_WT07)	06:15		06:50 (CBR_WT01)	07:03		19:29 (KLZ_WT16)	07:51		08:16 (MXS_WT01)	07:43		08:11 (RHR_WT01)	08:31		09:11 (RHR_WT03)
	22:03	58	21:28 (KLZ_WT15)	21:27	19	07:09 (CBR_WT01)	20:24	23	19:52 (KLZ_WT16)	19:16	17	08:33 (MXS_WT01)	17:14	14	08:25 (RHR_WT01)	16:40	32	16:07 (NES_WT01)
6	05:38		06:20 (KLZ_WT19)	06:17		06:49 (CBR_WT01)	07:05		19:28 (KLZ_WT16)	07:53		08:17 (MXS_WT01)	07:45		08:13 (RHR_WT01)	08:33		09:11 (RHR_WT03)
	22:02	56	21:28 (KLZ_WT15)	21:25	20	07:09 (CBR_WT01)	20:22	23	19:51 (KLZ_WT16)	19:14	14	08:31 (MXS_WT01)	17:12	12	08:25 (RHR_WT01)	16:40	37	16:06 (NES_WT01)
7	05:38		06:20 (KLZ_WT19)	06:18		06:50 (CBR_WT01)	07:07		19:28 (KLZ_WT16)	07:54		08:19 (MXS_WT01)	07:47		08:15 (MVZ_WT01)	08:34		09:12 (RHR_WT03)
	22:02	57	21:28 (KLZ_WT15)	21:24	20	07:10 (CBR_WT01)	20:20	23	19:51 (KLZ_WT16)	19:12	12	08:31 (MXS_WT01)	17:11	10	08:25 (MVZ_WT01)	16:39	38	16:06 (NES_WT01)
8	05:39		06:21 (KLZ_WT19)	06:20		06:49 (CBR_WT01)	07:08		19:27 (KLZ_WT16)	07:56		08:21 (MXS_WT01)	07:49		08:17 (MVZ_WT01)	08:35		09:12 (RHR_WT03)
	22:01	55	21:28 (KLZ_WT15)	21:22	20	07:09 (CBR_WT01)	20:18	23	19:50 (KLZ_WT16)	19:10	10	08:31 (MXS_WT01)	17:09	9	08:26 (MVZ_WT01)	16:39	40	16:06 (NES_WT01)
9	05:40		06:21 (KLZ_WT19)	06:21		06:49 (SAM_WT04)	07:10		19:28 (KLZ_WT16)	07:57		08:22 (MXS_WT01)	07:50		08:19 (MVZ_WT01)	08:36		09:12 (RHR_WT03)
	22:00	55	21:28 (KLZ_WT15)	21:20	20	07:09 (CBR_WT01)	20:15	21	19:49 (KLZ_WT16)	19:08	7	08:29 (MXS_WT01)	17:07	7	08:26 (MVZ_WT01)	16:39	40	10:10 (ALB_WT01)
10	05:41		06:21 (KLZ_WT19)	06:23		06:50 (CBR_WT01)	07:11		19:27 (KLZ_WT16)	07:59		08:24 (MXS_WT01)	07:52		08:21 (MVZ_WT01)	08:37		09:13 (RHR_WT03)
	22:00	55	21:28 (KLZ_WT15)	21:18	18	07:08 (CBR_WT01)	20:13	19	19:46 (KLZ_WT16)	19:05	3	08:27 (MXS_WT01)	17:06	6	08:27 (MVZ_WT01)	16:38	40	10:11 (ALB_WT01)
11	05:42		06:22 (KLZ_WT19)	06:24		06:51 (CBR_WT01)	07:13		19:28 (KLZ_WT16)	08:01			07:54		08:23 (MVZ_WT01)	08:38		09:13 (RHR_WT03)
	21:59	52	21:27 (KLZ_WT15)	21:16	16	07:07 (CBR_WT01)	20:11	17	19:45 (KLZ_WT16)	19:03			17:04	4	08:27 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
12	05:43		06:22 (KLZ_WT19)	06:26		06:53 (CBR_WT01)	07:14		19:28 (KLZ_WT16)	08:02			07:56		08:24 (MVZ_WT01)	08:39		09:13 (RHR_WT03)
	21:58	52	21:27 (KLZ_WT15)	21:14	13	07:06 (CBR_WT01)	20:09	14	19:42 (KLZ_WT16)	19:01			17:03	2	08:26 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
13	05:44		06:23 (KLZ_WT19)	06:27		06:54 (CBR_WT01)	07:16		19:30 (KLZ_WT16)	08:04		08:36 (MVN_WT01)	07:57			08:40		09:14 (RHR_WT03)
	21:57	50	21:26 (KLZ_WT15)	21:13	10	07:04 (CBR_WT01)	20:06	10	19:40 (KLZ_WT16)	18:59	7	08:43 (MVN_WT01)	17:01			16:38	42	10:13 (ALB_WT01)
14	05:45		06:23 (KLZ_WT19)	06:29		06:56 (CBR_WT01)	07:18		19:32 (KLZ_WT16)	08:06		08:34 (MVN_WT01)	07:59			08:41		09:14 (RHR_WT03)
	21:56	48	21:25 (KLZ_WT15)	21:11	7	07:03 (CBR_WT01)	20:04	5	19:37 (KLZ_WT16)	18:57	10	08:44 (MVN_WT01)	17:00			16:38	44	10:14 (ALB_WT01)
15	05:47		06:23 (KLZ_WT19)	06:30		07:01 (SAM_WT05)	07:19			08:07		08:34 (MVN_WT01)	08:01		08:44 (RHR_WT02)	08:42		09:15 (RHR_WT03)
	21:55	47	21:24 (KLZ_WT15)	21:09	7	07:08 (SAM_WT05)	20:02			18:55	11	08:45 (MVN_WT01)	16:59	6	08:50 (RHR_WT02)	16:38	44	10:15 (ALB_WT01)
16	05:48		06:24 (KLZ_WT19)	06:32		06:59 (SAM_WT05)	07:21			08:09		08:34 (MVN_WT01)	08:02		08:42 (RHR_WT02)	08:43		09:15 (RHR_WT03)
	21:54	43	21:23 (KLZ_WT15)	21:07	11	07:10 (SAM_WT05)	20:00			18:53	11	08:45 (MVN_WT01)	16:57	10	08:52 (RHR_WT02)	16:38	45	10:16 (ALB_WT01)
17	05:49		06:24 (KLZ_WT19)	06:34		07:00 (SAM_WT05)	07:22			08:11		08:36 (MVN_WT01)	08:04		08:42 (RHR_WT02)	08:44		09:16 (RHR_WT03)
	21:53	42	21:22 (KLZ_WT15)	21:05	10	07:10 (SAM_WT05)	19:57			18:50	9	08:45 (MVN_WT01)	16:56	12	08:54 (RHR_WT02)	16:39	46	10:17 (ALB_WT01)
18	05:50		06:25 (KLZ_WT10)	06:35		07:02 (SAM_WT05)	07:24			08:12		08:38 (MVN_WT01)	08:06		08:40 (RHR_WT02)	08:45		09:16 (RHR_WT03)
	21:52	38	21:21 (KLZ_WT15)	21:03	9	07:11 (SAM_WT05)	19:55			18:48	7	08:45 (MVN_WT01)	16:55	21	16:04 (NES_WT01)	16:39	44	10:16 (ALB_WT01)
19	05:51		06:25 (KLZ_WT10)	06:37		07:03 (SAM_WT05)	07:25			08:14		08:40 (MVN_WT01)	08:07		08:40 (RHR_WT02)	08:45		09:17 (RHR_WT03)
	21:51	37	21:20 (KLZ_WT15)	21:01	7	07:10 (SAM_WT05)	19:53			18:46	4	08:44 (MVN_WT01)	16:53	27	16:06 (NES_WT01)	16:39	44	10:17 (ALB_WT01)
20	05:53		06:27 (KLZ_WT10)	06:38		07:05 (SAM_WT05)	07:27			08:16		08:42 (MVN_WT01)	08:09		08:40 (RHR_WT02)	08:46		09:18 (RHR_WT03)
	21:50	33	21:20 (KLZ_WT15)	20:59	6	07:11 (SAM_WT05)	19:50			18:44	1	08:43 (MVN_WT01)	16:52	28	16:07 (NES_WT01)	16:39	45	10:18 (ALB_WT01)
21	05:54		06:27 (KLZ_WT10)	06:40		07:06 (SAM_WT05)	07:29			08:18			08:11		08:41 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	29	21:18 (KLZ_WT15)	20:57	4	07:10 (SAM_WT05)	19:48			18:42			16:51	30	16:08 (NES_WT01)	16:40	45	10:18 (ALB_WT01)
22	05:55		06:28 (KLZ_WT10)	06:41		07:08 (SAM_WT05)	07:30			08:19			08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	24	21:17 (KLZ_WT15)	20:55	1	07:09 (SAM_WT05)	19:46			18:40			16:50	36	16:09 (NES_WT01)	16:40	45	10:19 (ALB_WT01)
23	05:56		06:29 (KLZ_WT10)	06:43			07:32			08:21			08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	20	06:49 (KLZ_WT19)	20:53			19:44			18:38			16:49	41	16:09 (NES_WT01)	16:41	45	10:19 (ALB_WT01)
24	05:58		06:29 (SAM_WT11)	06:45			07:33			08:23			08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	19	06:48 (KLZ_WT19)	20:50			19:41			18:36			16:48	42	16:10 (NES_WT01)	16:41	45	10:19 (ALB_WT01)
25	05:59		06:28 (SAM_WT11)	06:46			07:35			07:24			08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	18	06:46 (KLZ_WT19)	20:48			19:39			17:34			16:47	44	16:11 (NES_WT01)	16:42	44	10:20 (ALB_WT01)
26	06:01		06:29 (SAM_WT11)	06:48			07:36			07:26			08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	14	06:43 (KLZ_WT19)	20:46			19:37			17:32			16:46	43	16:10 (NES_WT01)	16:43	46	10:21 (ALB_WT01)
27	06:02		06:30 (SAM_WT11)	06:49			07:38			07:28			08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	6	06:36 (SAM_WT11)	20:44			19:34			17:30			16:45	43	16:11 (NES_WT01)	16:43	45	10:21 (ALB_WT01)
28	06:03		06:32 (SAM_WT11)	06:51			07:40			07:30		08:11 (RHR_WT01)	08:22		08:53 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:40	5	06:37 (SAM_WT11)	20:42			19:32			17:28	9	08:20 (RHR_WT01)	16:44	44	16:12 (NES_WT01)	16:44	44	10:21 (ALB_WT01)
29	06:05		06:33 (SAM_WT11)	06:52			07:41			07:31		08:09 (RHR_WT01)	08:23		08:54 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:38	11	07:03 (CBR_WT01)	20:40			19:30			17:27	13	08:22 (RHR_WT01)	16:44	43	16:11 (NES_WT01)	16:45	44	10:21 (ALB_WT01)
30	06:06		06:34 (SAM_WT11)	06:54		19:41 (KLZ_WT16)	07:43		08:20 (MXS_WT01)	07:33		08:04 (MVZ_WT02)	08:25		08:56 (RHR_WT02)	08:49		09:22 (RHR_WT03)
	21:37	15	07:05 (CBR_WT01)	20:38	4	19:45 (KLZ_WT16)	19:28	8	08:28 (MXS_WT01)	17:25	17	08:23 (RHR_WT01)	16:43	41	16:11 (NES_WT01)	16:46	43	10:21 (ALB_WT01)
31	06:08		06:36 (SAM_WT11)	06:56		19:36 (KLZ_WT16)				07:35		08:02 (MVZ_WT02)				08:50		09:22 (RHR_WT03)
	21:35	15	07:06 (CBR_WT01)	20:35	12	19:48 (KLZ_WT16)				17:23	22	08:24 (RHR_WT01)				16:47	43	10:21 (ALB_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1194			305			263			245			650			1293	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,66			0,67			0,61			0,56			0,59			0,55	
Total reduction		0,29			0,30			0,26			0,20			0,15			0,12	
Total, real		347			93			68			49			100			156	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 15 - Hageland 14, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (ATS_WT01)	08:24			07:32		07:55 (ALB_WT01)	07:23			06:20		07:00 (KLZ_WT16)	05:37		06:07 (KLZ_WT21)
	16:48	11	09:31 (ATS_WT01)	17:35			18:25	7	08:02 (ALB_WT01)	20:17			21:06	25	07:25 (KLZ_WT16)	21:51	11	06:18 (KLZ_WT21)
2	08:50		09:20 (ATS_WT01)	08:23			07:30			07:21			06:18		07:00 (KLZ_WT16)	05:36		06:09 (KLZ_WT21)
	16:49	12	09:32 (ATS_WT01)	17:37			18:27			20:19			21:08	24	07:24 (KLZ_WT16)	21:52	9	06:18 (KLZ_WT21)
3	08:49		09:20 (ATS_WT01)	08:21			07:28			07:19			06:17		07:02 (KLZ_WT16)	05:35		06:09 (KLZ_WT21)
	16:50	12	09:32 (ATS_WT01)	17:38			18:28			20:20			21:10	22	07:24 (KLZ_WT16)	21:53	8	06:17 (KLZ_WT21)
4	08:49		09:19 (ATS_WT01)	08:20			07:26			07:17			06:15		07:02 (KLZ_WT16)	05:34		06:11 (KLZ_WT21)
	16:52	13	09:32 (ATS_WT01)	17:40			18:30			20:22			21:11	20	07:22 (KLZ_WT16)	21:54	6	06:17 (KLZ_WT21)
5	08:49		09:19 (ATS_WT01)	08:18			07:24			07:14			06:13		07:03 (KLZ_WT16)	05:34		06:12 (KLZ_WT21)
	16:53	14	09:33 (ATS_WT01)	17:42			18:32			20:24			21:13	17	07:20 (KLZ_WT16)	21:55	3	06:15 (KLZ_WT21)
6	08:49		09:19 (ATS_WT01)	08:16			07:22			07:12			06:11		07:06 (KLZ_WT16)	05:33		
	16:54	13	09:32 (ATS_WT01)	17:44			18:34			20:25			21:14	13	07:19 (KLZ_WT16)	21:56		
7	08:48		09:21 (ATS_WT01)	08:15			07:19		07:42 (RHR_WT01)	07:10			06:09		07:08 (KLZ_WT16)	05:33		
	16:55	12	09:33 (ATS_WT01)	17:46			18:35	1	07:43 (RHR_WT01)	20:27			21:16	8	07:16 (KLZ_WT16)	21:57		
8	08:48		09:21 (ATS_WT01)	08:13			07:17		07:40 (RHR_WT01)	07:08			06:08			05:32		
	16:56	11	09:32 (ATS_WT01)	17:47			18:37	1	07:41 (RHR_WT01)	20:29			21:18			21:57		
9	08:48		09:22 (ATS_WT01)	08:11			07:15			07:06			06:06			05:32		
	16:58	11	09:33 (ATS_WT01)	17:49			18:39			20:30			21:19			21:58		
10	08:47		09:23 (ATS_WT01)	08:09			07:13			07:03			06:04			05:31		
	16:59	9	09:32 (ATS_WT01)	17:51			18:40			20:32			21:21			21:59		
11	08:47		09:24 (ATS_WT01)	08:08			07:11			07:01			06:03			05:31		
	17:00	7	09:31 (ATS_WT01)	17:53			18:42			20:34			21:22			22:00		
12	08:46		09:27 (ATS_WT01)	08:06			07:08			06:59		07:22 (KLZ_WT08)	06:01			05:30		
	17:02	4	09:31 (ATS_WT01)	17:55			18:44			20:35	1	07:23 (KLZ_WT08)	21:24			22:00		
13	08:45			08:04			07:06			06:57		07:19 (KLZ_WT08)	06:00			05:30		
	17:03			17:56			18:45			20:37	3	07:22 (KLZ_WT08)	21:25			22:01		
14	08:45			08:02			07:04			06:55		07:17 (KLZ_WT08)	05:58			05:30		
	17:05			17:58			18:47			20:39	4	07:21 (KLZ_WT08)	21:27			22:02		
15	08:44			08:00			07:02			06:53		07:15 (KLZ_WT08)	05:57			05:30		
	17:06			18:00			18:49			20:40	4	07:19 (KLZ_WT08)	21:28			22:02		
16	08:43			07:59			06:59			06:50		07:13 (CBR_WT01)	05:55			05:30		
	17:08			18:02			18:51			20:42	3	07:16 (CBR_WT01)	21:30			22:03		
17	08:42			07:57			06:57			06:48		07:11 (KLZ_WT16)	05:54			05:30		
	17:09			18:04			18:52			20:43	11	07:22 (KLZ_WT16)	21:31			22:03		
18	08:41			07:55			06:55			06:46		07:09 (KLZ_WT16)	05:52			05:30		
	17:11			18:05			18:54			20:45	15	07:24 (KLZ_WT16)	21:33			22:03		
19	08:40			07:53			06:53			06:44		07:07 (KLZ_WT16)	05:51		06:17 (KLZ_WT21)	05:30		
	17:13			18:07			18:56			20:47	18	07:25 (KLZ_WT16)	21:34	1	06:18 (KLZ_WT21)	22:04		
20	08:39			07:51			06:50			06:42		07:05 (KLZ_WT16)	05:50		06:16 (KLZ_WT21)	05:30		
	17:14			18:09			18:57			20:48	21	07:26 (KLZ_WT16)	21:35	2	06:18 (KLZ_WT21)	22:04		
21	08:38			07:49			06:48			06:40		07:03 (KLZ_WT16)	05:48		06:15 (KLZ_WT21)	05:30		
	17:16			18:11			18:59			20:50	24	07:27 (KLZ_WT16)	21:37	4	06:19 (KLZ_WT21)	22:04		
22	08:37			07:47			06:46			06:38		07:02 (KLZ_WT16)	05:47		06:14 (KLZ_WT21)	05:30		
	17:17			18:13			19:01			20:52	25	07:27 (KLZ_WT16)	21:38	6	06:20 (KLZ_WT21)	22:05		
23	08:36			07:45			06:44			06:36		07:01 (KLZ_WT16)	05:46		06:12 (KLZ_WT21)	05:30		
	17:19			18:14			19:02			20:53	27	07:28 (KLZ_WT16)	21:40	7	06:19 (KLZ_WT21)	22:05		
24	08:35			07:43			06:41			06:34		07:00 (KLZ_WT16)	05:45		06:11 (KLZ_WT21)	05:31		
	17:21			18:16			19:04			20:55	28	07:28 (KLZ_WT16)	21:41	8	06:19 (KLZ_WT21)	22:05		
25	08:34			07:41			06:39			06:32		07:00 (KLZ_WT16)	05:43		06:10 (KLZ_WT21)	05:31		
	17:23			18:18			19:06			20:57	28	07:28 (KLZ_WT16)	21:42	9	06:19 (KLZ_WT21)	22:05		
26	08:32			07:39		08:02 (ALB_WT01)	06:37			06:30		06:59 (KLZ_WT16)	05:42		06:09 (KLZ_WT21)	05:31		
	17:24			18:20	3	08:05 (ALB_WT01)	19:07			20:58	28	07:27 (KLZ_WT16)	21:43	10	06:19 (KLZ_WT21)	22:05		
27	08:31			07:36		08:00 (ALB_WT01)	06:35			06:28		06:59 (KLZ_WT16)	05:41		06:08 (KLZ_WT21)	05:32		
	17:26			18:21	5	08:05 (ALB_WT01)	19:09			21:00	28	07:27 (KLZ_WT16)	21:45	11	06:19 (KLZ_WT21)	22:05		
28	08:30			07:34		07:57 (ALB_WT01)	06:32			06:26		07:00 (KLZ_WT16)	05:40		06:08 (KLZ_WT21)	05:32		
	17:28			18:23	6	08:03 (ALB_WT01)	19:11			21:01	28	07:28 (KLZ_WT16)	21:46	12	06:20 (KLZ_WT21)	22:05		
29	08:28						07:30			06:24		07:00 (KLZ_WT16)	05:39		06:07 (KLZ_WT21)	05:33		
	17:30						20:12			21:03	27	07:27 (KLZ_WT16)	21:47	13	06:20 (KLZ_WT21)	22:05		
30	08:27						07:28			06:22		07:00 (KLZ_WT16)	05:38		06:06 (KLZ_WT21)	05:33		
	17:31						20:14			21:05	26	07:26 (KLZ_WT16)	21:48	13	06:19 (KLZ_WT21)	22:04		
31	08:26						07:26						05:37		06:07 (KLZ_WT21)			
	17:33						20:15						21:49	12	06:19 (KLZ_WT21)			
Potential sun hours	262			279			367			414			482			494		
Total, worst case		129			14			9			349			237			37	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,53			0,55			0,55			0,64			0,67			0,70	
Total reduction		0,13			0,16			0,21			0,29			0,30			0,30	
Total, real		16			2			2			102			71			11	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 15 - Hageland 14, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September	October			November			December		
1	05:34			06:09			06:57	07:45			07:37			08:26		09:06 (ATS_WT01)
	22:04			21:34			20:33	19:26			17:21			16:42	7	09:13 (ATS_WT01)
2	05:35			06:11			06:59	07:46			07:38			08:27		09:06 (ATS_WT01)
	22:04			21:32			20:31	19:23			17:19			16:42	9	09:15 (ATS_WT01)
3	05:35			06:12			07:00	07:48			07:40			08:29		09:06 (ATS_WT01)
	22:04			21:30			20:29	19:21			17:18			16:41	10	09:16 (ATS_WT01)
4	05:36			06:14			07:02	07:49			07:42			08:30		09:06 (ATS_WT01)
	22:03			21:29			20:27	19:19			17:16			16:41	11	09:17 (ATS_WT01)
5	05:37			06:15			07:04	07:51			07:44			08:31		09:06 (ATS_WT01)
	22:03			21:27			20:25	19:17			17:14			16:40	12	09:18 (ATS_WT01)
6	05:38			06:17		07:16 (KLZ_WT16)	07:05	07:53		08:17 (RHR_WT01)	07:45			08:33		09:06 (ATS_WT01)
	22:02			21:25	10	07:26 (KLZ_WT16)	20:22	19:14	1	08:18 (RHR_WT01)	17:12			16:40	12	09:18 (ATS_WT01)
7	05:39		06:19 (KLZ_WT21)	06:18		07:14 (KLZ_WT16)	07:07	07:54			07:47			08:34		09:06 (ATS_WT01)
	22:02	1	06:20 (KLZ_WT21)	21:24	15	07:29 (KLZ_WT16)	20:20	19:12			17:11			16:39	14	09:20 (ATS_WT01)
8	05:39		06:18 (KLZ_WT21)	06:20		07:12 (KLZ_WT16)	07:08	07:56			07:49			08:35		09:07 (ATS_WT01)
	22:01	5	06:23 (KLZ_WT21)	21:22	18	07:30 (KLZ_WT16)	20:18	19:10			17:09			16:39	13	09:20 (ATS_WT01)
9	05:40		06:17 (KLZ_WT21)	06:21		07:12 (KLZ_WT16)	07:10	07:58			07:51			08:36		09:08 (ATS_WT01)
	22:00	7	06:24 (KLZ_WT21)	21:20	20	07:32 (KLZ_WT16)	20:16	19:08			17:08			16:39	12	09:20 (ATS_WT01)
10	05:41		06:16 (KLZ_WT21)	06:23		07:10 (KLZ_WT16)	07:11	07:59			07:52			08:37		09:09 (ATS_WT01)
	22:00	9	06:25 (KLZ_WT21)	21:18	22	07:32 (KLZ_WT16)	20:13	19:06			17:06			16:39	12	09:21 (ATS_WT01)
11	05:42		06:16 (KLZ_WT21)	06:24		07:10 (KLZ_WT16)	07:13	08:01			07:54			08:38		09:10 (ATS_WT01)
	21:59	10	06:26 (KLZ_WT21)	21:16	24	07:34 (KLZ_WT16)	20:11	19:03			17:04			16:38	11	09:21 (ATS_WT01)
12	05:43		06:15 (KLZ_WT21)	06:26		07:08 (KLZ_WT16)	07:14	08:03		08:31 (ALB_WT01)	07:56			08:39		09:11 (ATS_WT01)
	21:58	12	06:27 (KLZ_WT21)	21:15	26	07:34 (KLZ_WT16)	20:09	19:01	4	08:35 (ALB_WT01)	17:03			16:38	11	09:22 (ATS_WT01)
13	05:44		06:15 (KLZ_WT21)	06:27		07:08 (KLZ_WT16)	07:16	08:04		08:29 (ALB_WT01)	07:57			08:40		09:12 (ATS_WT01)
	21:57	12	06:27 (KLZ_WT21)	21:13	27	07:35 (KLZ_WT16)	20:06	18:59	7	08:36 (ALB_WT01)	17:02			16:38	10	09:22 (ATS_WT01)
14	05:46		06:15 (KLZ_WT21)	06:29		07:07 (KLZ_WT16)	07:18	08:06		08:31 (ALB_WT01)	07:59			08:41		09:13 (ATS_WT01)
	21:57	13	06:28 (KLZ_WT21)	21:11	28	07:35 (KLZ_WT16)	20:04	18:57	6	08:37 (ALB_WT01)	17:00			16:38	10	09:23 (ATS_WT01)
15	05:47		06:16 (KLZ_WT21)	06:31		07:06 (KLZ_WT16)	07:19	08:08		08:33 (ALB_WT01)	08:01			08:42		09:14 (ATS_WT01)
	21:56	12	06:28 (KLZ_WT21)	21:09	28	07:34 (KLZ_WT16)	20:02	18:55	4	08:37 (ALB_WT01)	16:59			16:38	9	09:23 (ATS_WT01)
16	05:48		06:17 (KLZ_WT21)	06:32		07:07 (KLZ_WT16)	07:21	08:09		08:35 (ALB_WT01)	08:03			08:43		09:15 (ATS_WT01)
	21:55	12	06:29 (KLZ_WT21)	21:07	28	07:35 (KLZ_WT16)	20:00	18:53	2	08:37 (ALB_WT01)	16:57			16:38	9	09:24 (ATS_WT01)
17	05:49		06:18 (KLZ_WT21)	06:34		07:06 (KLZ_WT16)	07:22	08:11			08:04			08:44		09:16 (ATS_WT01)
	21:54	11	06:29 (KLZ_WT21)	21:05	28	07:34 (KLZ_WT16)	19:57	18:51			16:56			16:39	8	09:24 (ATS_WT01)
18	05:50		06:19 (KLZ_WT21)	06:35		07:06 (KLZ_WT16)	07:24	08:13			08:06			08:45		09:16 (ATS_WT01)
	21:53	10	06:29 (KLZ_WT21)	21:03	28	07:34 (KLZ_WT16)	19:55	18:48			16:55			16:39	8	09:24 (ATS_WT01)
19	05:51		06:21 (KLZ_WT21)	06:37		07:06 (KLZ_WT16)	07:25	08:14			08:08			08:45		09:17 (ATS_WT01)
	21:51	9	06:30 (KLZ_WT21)	21:01	27	07:33 (KLZ_WT16)	19:53	18:46			16:54			16:39	8	09:25 (ATS_WT01)
20	05:53		06:22 (KLZ_WT21)	06:38		07:07 (KLZ_WT16)	07:27	08:16			08:09			08:46		09:18 (ATS_WT01)
	21:50	8	06:30 (KLZ_WT21)	20:59	26	07:33 (KLZ_WT16)	19:51	18:44			16:52			16:40	8	09:26 (ATS_WT01)
21	05:54		06:23 (KLZ_WT21)	06:40		07:07 (KLZ_WT16)	07:29	08:18			08:11			08:47		09:18 (ATS_WT01)
	21:49	6	06:29 (KLZ_WT21)	20:57	25	07:32 (KLZ_WT16)	19:48	18:42			16:51			16:40	8	09:26 (ATS_WT01)
22	05:55		06:24 (KLZ_WT21)	06:42		07:08 (KLZ_WT16)	07:30	08:19			08:12			08:47		09:19 (ATS_WT01)
	21:48	5	06:29 (KLZ_WT21)	20:55	24	07:32 (KLZ_WT16)	19:46	18:40			16:50			16:40	8	09:27 (ATS_WT01)
23	05:57		06:25 (KLZ_WT21)	06:43		07:09 (KLZ_WT16)	07:32	08:21			08:14			08:48		09:19 (ATS_WT01)
	21:47	3	06:28 (KLZ_WT21)	20:53	21	07:30 (KLZ_WT16)	19:44	18:38			16:49			16:41	8	09:27 (ATS_WT01)
24	05:58		06:27 (KLZ_WT21)	06:45		07:11 (KLZ_WT16)	07:33	08:23			08:16			08:48		09:19 (ATS_WT01)
	21:45	2	06:29 (KLZ_WT21)	20:51	18	07:29 (KLZ_WT16)	19:41	18:36			16:48			16:42	8	09:27 (ATS_WT01)
25	05:59			06:46		07:12 (KLZ_WT16)	07:35	07:24			08:17			08:48		09:20 (ATS_WT01)
	21:44			20:48	14	07:26 (KLZ_WT16)	19:39	17:34			16:47			16:42	8	09:28 (ATS_WT01)
26	06:01			06:48		07:14 (KLZ_WT16)	07:37	07:26			08:19			08:49		09:20 (ATS_WT01)
	21:43			20:46	10	07:24 (KLZ_WT16)	19:37	17:32			16:46			16:43	8	09:28 (ATS_WT01)
27	06:02			06:49		07:15 (CBR_WT01)	07:38	07:28			08:20			08:49		09:20 (ATS_WT01)
	21:41			20:44	3	07:18 (CBR_WT01)	19:35	17:30			16:45			16:44	9	09:29 (ATS_WT01)
28	06:03			06:51		07:17 (KLZ_WT08)	07:40	07:30			08:22			08:49		09:20 (ATS_WT01)
	21:40			20:42	4	07:21 (KLZ_WT08)	19:32	17:29			16:44			16:44	9	09:29 (ATS_WT01)
29	06:05			06:53		07:18 (KLZ_WT08)	07:41	07:31			08:23			08:49		09:20 (ATS_WT01)
	21:38			20:40	4	07:22 (KLZ_WT08)	19:30	17:27			16:44			16:45	9	09:29 (ATS_WT01)
30	06:06			06:54		07:20 (KLZ_WT08)	07:43	07:33			08:25		09:08 (ATS_WT01)	08:50		09:20 (ATS_WT01)
	21:37			20:38	3	07:23 (KLZ_WT08)	19:28	17:25			16:43	4	09:12 (ATS_WT01)	16:46	10	09:30 (ATS_WT01)
31	06:08			06:56		07:21 (KLZ_WT08)		07:35						08:50		09:20 (ATS_WT01)
	21:35			20:36	1	07:22 (KLZ_WT08)		17:23						16:47	10	09:30 (ATS_WT01)
Potential sun hours	498			451			380	333			269			248		
Total, worst case		147			482				24			4			299	
Sun reduction		0,45			0,47				0,36			0,27			0,23	
Oper. time red.		0,97			0,97				0,97			0,97			0,97	
Wind dir. red.		0,70			0,64				0,55			0,53			0,53	
Total reduction		0,31			0,29				0,20			0,14			0,12	
Total, real		45			141				5			1			35	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (ALB_WT01)	07:32			07:23		07:46 (KLZ_WT19)	06:20		06:44 (KLZ_WT21)	05:37		
	16:48			17:35	35	09:29 (KLZ_WT16)	18:25			20:17	11	07:57 (KLZ_WT19)	21:06	53	07:47 (KLZ_WT15)	21:51		
2	08:50			08:23		08:48 (ALB_WT01)	07:30			07:21		07:43 (KLZ_WT19)	06:18		06:42 (KLZ_WT21)	05:36		
	16:49			17:37	38	09:29 (KLZ_WT16)	18:27			20:19	13	07:56 (KLZ_WT19)	21:08	53	07:46 (KLZ_WT15)	21:52		
3	08:49			08:21		08:46 (ALB_WT01)	07:28			07:19		07:43 (KLZ_WT19)	06:17		06:41 (KLZ_WT21)	05:35		
	16:50			17:38	40	09:29 (KLZ_WT16)	18:28			20:20	12	07:55 (KLZ_WT19)	21:10	55	07:47 (KLZ_WT15)	21:53		
4	08:49			08:20		08:45 (RHR_WT03)	07:26			07:17		07:45 (KLZ_WT19)	06:15		06:39 (KLZ_WT21)	05:34		
	16:51			17:40	42	09:31 (KLZ_WT16)	18:30			20:22	8	07:53 (KLZ_WT19)	21:11	56	07:46 (KLZ_WT15)	21:54		
5	08:49			08:18		08:43 (RHR_WT03)	07:24			07:14			06:13		06:38 (KLZ_WT21)	05:34		
	16:53			17:42	39	09:31 (KLZ_WT16)	18:32			20:24			21:13	55	07:45 (KLZ_WT15)	21:55		
6	08:49			08:16		08:41 (RHR_WT03)	07:22			07:12			06:11		06:39 (KLZ_WT21)	05:33		
	16:54			17:44	40	09:31 (KLZ_WT16)	18:34			20:25			21:14	54	07:45 (KLZ_WT15)	21:56		
7	08:48			08:15		08:39 (RHR_WT02)	07:19			07:10			06:09		06:39 (KLZ_WT21)	05:32		
	16:55			17:46	41	09:31 (KLZ_WT16)	18:35			20:27			21:16	52	07:44 (KLZ_WT15)	21:57		
8	08:48			08:13		08:38 (RHR_WT02)	07:17			07:08			06:08		06:39 (KLZ_WT21)	05:32		
	16:56			17:47	37	09:32 (KLZ_WT16)	18:37			20:29			21:18	49	07:43 (KLZ_WT15)	21:57		
9	08:48			08:11		08:56 (KLZ_WT16)	07:15			07:06			06:06		06:41 (KLZ_WT21)	05:32		
	16:58			17:49	36	09:32 (KLZ_WT16)	18:39			20:30			21:19	45	07:43 (KLZ_WT15)	21:58		
10	08:47			08:09		08:56 (KLZ_WT16)	07:13			07:03			06:04		06:42 (KLZ_WT21)	05:31		
	16:59			17:51	35	09:31 (KLZ_WT16)	18:40			20:32			21:21	40	07:42 (KLZ_WT15)	21:59		
11	08:47			08:08		08:56 (KLZ_WT16)	07:11			07:01			06:03		07:10 (KLZ_WT15)	05:31		06:00 (KLZ_WT17)
	17:00			17:53	35	09:31 (KLZ_WT16)	18:42			20:34			21:22	31	07:41 (KLZ_WT15)	22:00	1	06:01 (KLZ_WT17)
12	08:46			08:06		08:57 (KLZ_WT16)	07:08			06:59			06:01		07:10 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:02			17:55	34	09:31 (KLZ_WT16)	18:44			20:35			21:24	29	07:39 (KLZ_WT15)	22:00	1	06:00 (KLZ_WT17)
13	08:45			08:04		08:57 (KLZ_WT16)	07:06		07:29 (KLZ_WT08)	06:57			06:00		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:03			17:56	33	09:30 (KLZ_WT16)	18:45	3	07:32 (KLZ_WT08)	20:37			21:25	27	07:39 (KLZ_WT15)	22:01	1	06:00 (KLZ_WT17)
14	08:45			08:02		08:58 (KLZ_WT16)	07:04		07:26 (KLZ_WT08)	06:55			05:58		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:05			17:58	31	09:29 (KLZ_WT16)	18:47	6	07:32 (KLZ_WT08)	20:39			21:27	25	07:37 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
15	08:44			08:00		08:58 (KLZ_WT16)	07:02		07:24 (KLZ_WT08)	06:53			05:57		07:14 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:06			18:00	30	09:28 (KLZ_WT16)	18:49	7	07:31 (KLZ_WT08)	20:40			21:28	22	07:36 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
16	08:43			07:58		08:22 (RHR_WT01)	06:59		07:23 (KLZ_WT08)	06:50		07:26 (KLZ_WT15)	05:55		07:16 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:08			18:02	29	09:27 (KLZ_WT16)	18:51	7	07:30 (KLZ_WT08)	20:42	9	07:35 (KLZ_WT15)	21:30	19	07:35 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
17	08:42			07:57		08:20 (RHR_WT01)	06:57		07:25 (KLZ_WT08)	06:48		07:22 (KLZ_WT15)	05:54		07:17 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:09			18:04	28	09:26 (KLZ_WT16)	18:52	3	07:28 (KLZ_WT08)	20:43	17	07:39 (KLZ_WT15)	21:31	15	07:32 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
18	08:41			07:55		08:18 (RHR_WT01)	06:55			06:46		07:19 (KLZ_WT15)	05:52		07:20 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:11			18:05	23	09:24 (KLZ_WT16)	18:54			20:45	22	07:41 (KLZ_WT15)	21:33	9	07:29 (KLZ_WT15)	22:04	1	06:00 (KLZ_WT17)
19	08:40			07:53		09:04 (KLZ_WT16)	06:53			06:44		07:07 (SAM_WT07)	05:51			05:30		05:59 (KLZ_WT17)
	17:13			18:07	17	09:21 (KLZ_WT16)	18:56			20:47	27	07:42 (KLZ_WT15)	21:34			22:04	1	06:00 (KLZ_WT17)
20	08:39			07:51		09:07 (KLZ_WT16)	06:50			06:42		07:05 (SAM_WT07)	05:50			05:30		05:59 (KLZ_WT17)
	17:14			18:09	11	09:18 (KLZ_WT16)	18:57			20:48	32	07:44 (KLZ_WT15)	21:35			22:04	1	06:00 (KLZ_WT17)
21	08:38			07:49			06:48			06:40		07:03 (SAM_WT07)	05:48			05:30		06:00 (KLZ_WT17)
	17:16			18:11			18:59			20:50	35	07:45 (KLZ_WT15)	21:37			22:04	1	06:01 (KLZ_WT17)
22	08:37			07:47			06:46			06:38		07:12 (KLZ_WT15)	05:47			05:30		06:00 (KLZ_WT17)
	17:17			18:13			19:01			20:52	33	07:45 (KLZ_WT15)	21:38			22:05	1	06:01 (KLZ_WT17)
23	08:36			07:45			06:44			06:36		07:11 (KLZ_WT15)	05:46			05:30		06:00 (KLZ_WT17)
	17:19			18:14			19:02			20:53	35	07:46 (KLZ_WT15)	21:40			22:05	1	06:01 (KLZ_WT17)
24	08:35			07:43			06:41			06:34		07:10 (KLZ_WT15)	05:45			05:31		06:00 (KLZ_WT17)
	17:21			18:16			19:04			20:55	36	07:46 (KLZ_WT15)	21:41			22:05	1	06:01 (KLZ_WT17)
25	08:34		09:06 (KLZ_WT16)	07:41			06:39			06:32		07:09 (KLZ_WT15)	05:43			05:31		06:01 (KLZ_WT17)
	17:23	11	09:17 (KLZ_WT16)	18:18			19:06			20:57	38	07:47 (KLZ_WT15)	21:42			22:05	1	06:02 (KLZ_WT17)
26	08:32		09:04 (KLZ_WT16)	07:39		08:02 (MVN_WT01)	06:37			06:30		07:08 (KLZ_WT15)	05:42			05:31		06:01 (KLZ_WT17)
	17:24	16	09:20 (KLZ_WT16)	18:20	1	08:03 (MVN_WT01)	19:07			20:58	39	07:47 (KLZ_WT15)	21:43			22:05	1	06:02 (KLZ_WT17)
27	08:31		09:02 (KLZ_WT16)	07:36			06:35			06:28		06:51 (KLZ_WT21)	05:41			05:32		06:02 (KLZ_WT17)
	17:26	20	09:22 (KLZ_WT16)	18:21			19:09			21:00	41	07:47 (KLZ_WT15)	21:45			22:05	1	06:03 (KLZ_WT17)
28	08:30		09:01 (KLZ_WT16)	07:34			06:32		06:55 (KLZ_WT19)	06:26		06:50 (KLZ_WT21)	05:40			05:32		06:02 (KLZ_WT17)
	17:28	23	09:24 (KLZ_WT16)	18:23			19:11	2	06:57 (KLZ_WT19)	21:01	44	07:48 (KLZ_WT15)	21:46			22:05	1	06:03 (KLZ_WT17)
29	08:28		09:00 (KLZ_WT16)				07:30		07:52 (KLZ_WT19)	06:24		06:48 (KLZ_WT21)	05:39			05:33		06:03 (KLZ_WT17)
	17:29	25	09:25 (KLZ_WT16)				20:12	5	07:57 (KLZ_WT19)	21:03	48	07:48 (KLZ_WT15)	21:47			22:05	1	06:04 (KLZ_WT17)
30	08:27		08:53 (ALB_WT01)				07:28		07:50 (KLZ_WT19)	06:22		06:46 (KLZ_WT21)	05:38			05:33		06:03 (KLZ_WT17)
	17:31	29	09:27 (KLZ_WT16)				20:14	7	07:57 (KLZ_WT19)	21:05	49	07:47 (KLZ_WT15)	21:48			22:05	1	06:04 (KLZ_WT17)
31	08:26		08:51 (ALB_WT01)				07:26		07:48 (KLZ_WT19)				05:37					
	17:33	32	09:27 (KLZ_WT16)				20:15	9	07:57 (KLZ_WT19)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case	156			655			49			549			689			20		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,97			0,97			0,97			0,97			0,97			0,97		
Wind dir. red.	0,55			0,55			0,61			0,64			0,65			0,71		
Total reduction	0,13			0,16			0,22			0,29			0,29			0,31		
Total, real	21			105			11			160			199			6		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December
1	05:34		06:04 (KLZ_WT17)	06:09		07:20 (KLZ_WT15)	06:57			07:45		08:09 (KLZ_WT08)	07:37		08:26 (KLZ_WT16)	08:26
	22:04	1	06:05 (KLZ_WT17)	21:34	30	07:50 (KLZ_WT15)	20:33			19:26	2	08:11 (KLZ_WT08)	17:21	35	09:01 (KLZ_WT16)	16:42
2	05:35		06:04 (KLZ_WT17)	06:11		06:55 (KLZ_WT21)	06:59			07:46			07:38		08:26 (KLZ_WT16)	08:27
	22:04	1	06:05 (KLZ_WT17)	21:32	35	07:52 (KLZ_WT15)	20:31			19:23			17:19	35	09:01 (KLZ_WT16)	16:42
3	05:35			06:12		06:52 (KLZ_WT21)	07:00			07:48			07:40		08:08 (RHR_WT02)	08:29
	22:04			21:30	42	07:52 (KLZ_WT15)	20:29			19:21			17:18	37	09:02 (KLZ_WT16)	16:41
4	05:36			06:14		06:51 (KLZ_WT21)	07:02			07:49			07:42		08:09 (RHR_WT02)	08:30
	22:03			21:29	47	07:54 (KLZ_WT15)	20:27			19:19			17:16	41	09:01 (KLZ_WT16)	16:40
5	05:37			06:15		06:49 (KLZ_WT21)	07:03			07:51			07:44		08:11 (RHR_WT03)	08:31
	22:03			21:27	50	07:54 (KLZ_WT15)	20:24			19:17			17:14	41	09:01 (KLZ_WT16)	16:40
6	05:38			06:17		06:48 (KLZ_WT21)	07:05			07:53			07:45		08:13 (RHR_WT03)	08:33
	22:02			21:25	53	07:54 (KLZ_WT15)	20:22			19:14			17:12	41	09:01 (KLZ_WT16)	16:40
7	05:38			06:18		06:48 (KLZ_WT21)	07:07			07:54			07:47		08:15 (RHR_WT03)	08:34
	22:02			21:24	55	07:55 (KLZ_WT15)	20:20			19:12			17:11	42	09:00 (KLZ_WT16)	16:39
8	05:39			06:20		06:47 (KLZ_WT21)	07:08		07:39 (KLZ_WT19)	07:56			07:49		08:17 (ALB_WT01)	08:35
	22:01			21:22	57	07:55 (KLZ_WT15)	20:18	8	07:47 (KLZ_WT19)	19:10			17:09	40	09:00 (KLZ_WT16)	16:39
9	05:40			06:21		06:49 (KLZ_WT21)	07:10		07:38 (KLZ_WT19)	07:58			07:51		08:19 (ALB_WT01)	08:36
	22:00			21:20	56	07:56 (KLZ_WT15)	20:16	11	07:49 (KLZ_WT19)	19:08			17:08	38	09:00 (KLZ_WT16)	16:39
10	05:41			06:23		06:50 (KLZ_WT21)	07:11		07:36 (KLZ_WT19)	07:59			07:52		08:21 (ALB_WT01)	08:37
	22:00			21:18	55	07:55 (KLZ_WT15)	20:13	13	07:49 (KLZ_WT19)	19:06			17:06	34	08:59 (KLZ_WT16)	16:38
11	05:42			06:24		06:52 (KLZ_WT21)	07:13		07:38 (KLZ_WT19)	08:01			07:54		08:23 (ALB_WT01)	08:38
	21:59			21:16	53	07:56 (KLZ_WT15)	20:11	11	07:49 (KLZ_WT19)	19:03			17:04	32	08:59 (KLZ_WT16)	16:38
12	05:43			06:26		06:53 (KLZ_WT21)	07:14		07:39 (KLZ_WT19)	08:03			07:56		08:31 (KLZ_WT16)	08:39
	21:58			21:15	51	07:55 (KLZ_WT15)	20:09	10	07:49 (KLZ_WT19)	19:01			17:03	27	08:58 (KLZ_WT16)	16:38
13	05:44			06:27		06:54 (KLZ_WT21)	07:16		07:41 (KLZ_WT19)	08:04			07:57		08:32 (KLZ_WT16)	08:40
	21:57			21:13	50	07:55 (KLZ_WT15)	20:06	8	07:49 (KLZ_WT19)	18:59			17:02	25	08:57 (KLZ_WT16)	16:38
14	05:45			06:29		06:56 (KLZ_WT21)	07:18		07:42 (KLZ_WT19)	08:06			07:59		08:33 (KLZ_WT16)	08:41
	21:57			21:11	46	07:55 (KLZ_WT15)	20:04	5	07:47 (KLZ_WT19)	18:57			17:00	23	08:56 (KLZ_WT16)	16:38
15	05:47			06:31		06:57 (KLZ_WT21)	07:19		07:44 (KLZ_WT19)	08:07			08:01		08:35 (KLZ_WT16)	08:42
	21:56			21:09	43	07:54 (KLZ_WT15)	20:02	2	07:46 (KLZ_WT19)	18:55			16:59	20	08:55 (KLZ_WT16)	16:38
16	05:48			06:32		07:15 (KLZ_WT15)	07:21			08:09		08:35 (MVN_WT01)	08:03		08:37 (KLZ_WT16)	08:43
	21:55			21:07	39	07:54 (KLZ_WT15)	20:00			18:53	1	08:36 (MVN_WT01)	16:57	16	08:53 (KLZ_WT16)	16:38
17	05:49			06:34		07:15 (KLZ_WT15)	07:22			08:11			08:04		08:40 (KLZ_WT16)	08:44
	21:54			21:05	38	07:53 (KLZ_WT15)	19:57			18:51			16:56	11	08:51 (KLZ_WT16)	16:39
18	05:50			06:35		07:16 (KLZ_WT15)	07:24			08:13			08:06			08:45
	21:53			21:03	37	07:53 (KLZ_WT15)	19:55			18:48			16:55			16:39
19	05:51			06:37		07:16 (KLZ_WT15)	07:25			08:14			08:08			08:45
	21:51			21:01	36	07:52 (KLZ_WT15)	19:53			18:46			16:54			16:39
20	05:53			06:38		07:17 (KLZ_WT15)	07:27			08:16			08:09			08:46
	21:50			20:59	35	07:52 (KLZ_WT15)	19:51			18:44			16:52			16:40
21	05:54			06:40		07:17 (KLZ_WT15)	07:29			08:18			08:11			08:47
	21:49			20:57	33	07:50 (KLZ_WT15)	19:48			18:42			16:51			16:40
22	05:55			06:41		07:08 (SAM_WT07)	07:30			08:19		09:36 (KLZ_WT16)	08:12			08:47
	21:48			20:55	34	07:49 (KLZ_WT15)	19:46			18:40	14	09:50 (KLZ_WT16)	16:50			16:40
23	05:57			06:43		07:09 (SAM_WT07)	07:32			08:21		09:34 (KLZ_WT16)	08:14			08:48
	21:47			20:53	31	07:47 (KLZ_WT15)	19:44			18:38	18	09:52 (KLZ_WT16)	16:49			16:41
24	05:58			06:45		07:11 (SAM_WT07)	07:33			08:23		08:49 (RHR_WT01)	08:16			08:48
	21:45			20:51	27	07:46 (KLZ_WT15)	19:41			18:36	25	09:55 (KLZ_WT16)	16:48			16:42
25	05:59		07:34 (KLZ_WT15)	06:46		07:22 (KLZ_WT15)	07:35			07:24		07:51 (RHR_WT01)	08:17			08:48
	21:44	3	07:37 (KLZ_WT15)	20:48	21	07:43 (KLZ_WT15)	19:39			17:34	27	08:56 (KLZ_WT16)	16:47			16:42
26	06:01		07:29 (KLZ_WT15)	06:48		07:25 (KLZ_WT15)	07:37			07:26		07:53 (RHR_WT01)	08:19			08:49
	21:43	12	07:41 (KLZ_WT15)	20:46	16	07:41 (KLZ_WT15)	19:37			17:32	30	08:58 (KLZ_WT16)	16:46			16:43
27	06:02		07:28 (KLZ_WT15)	06:49		07:28 (KLZ_WT15)	07:38		08:05 (KLZ_WT08)	07:28		08:28 (KLZ_WT16)	08:20			08:49
	21:41	16	07:44 (KLZ_WT15)	20:44	8	07:36 (KLZ_WT15)	19:35	7	08:12 (KLZ_WT08)	17:30	30	08:58 (KLZ_WT16)	16:45			16:44
28	06:03		07:26 (KLZ_WT15)	06:51			07:40		08:04 (KLZ_WT08)	07:30		08:27 (KLZ_WT16)	08:22			08:49
	21:40	20	07:46 (KLZ_WT15)	20:42			19:32	8	08:12 (KLZ_WT08)	17:28	32	08:59 (KLZ_WT16)	16:44			16:44
29	06:05		07:24 (KLZ_WT15)	06:52			07:41		08:06 (KLZ_WT08)	07:31		08:26 (KLZ_WT16)	08:23			08:49
	21:38	23	07:47 (KLZ_WT15)	20:40			19:30	6	08:12 (KLZ_WT08)	17:27	34	09:00 (KLZ_WT16)	16:44			16:45
30	06:06		07:23 (KLZ_WT15)	06:54			07:43		08:08 (KLZ_WT08)	07:33		08:26 (KLZ_WT16)	08:25			08:50
	21:37	26	07:49 (KLZ_WT15)	20:38			19:28	4	08:12 (KLZ_WT08)	17:25	34	09:00 (KLZ_WT16)	16:43			16:46
31	06:08		07:22 (KLZ_WT15)	06:56						07:35		08:26 (KLZ_WT16)				08:50
	21:35	28	07:50 (KLZ_WT15)	20:36						17:23	35	09:01 (KLZ_WT16)				16:47
Potential sun hours	498			451			380			333			269			248
Total, worst case		130			1078			93			282			538		
Sun reduction		0,45			0,47			0,43			0,36			0,27		
Oper. time red.		0,97			0,97			0,97			0,97			0,97		
Wind dir. red.		0,64			0,65			0,62			0,55			0,55		
Total reduction		0,28			0,30			0,26			0,19			0,14		
Total, real		37			318			24			55			77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		12:37 (KLZ_WT16)	08:24			07:32			07:23		07:46 (KLZ_WT19)	06:20			05:37		06:24 (KLZ_WT21)
	16:48	47	13:24 (KLZ_WT16)	17:35			18:25			20:17	16	08:02 (KLZ_WT19)	21:06			21:51	15	06:39 (KLZ_WT21)
2	08:50		12:38 (KLZ_WT16)	08:23			07:30			07:21		07:43 (KLZ_WT19)	06:18			05:36		06:25 (KLZ_WT21)
	16:49	46	13:24 (KLZ_WT16)	17:37			18:27			20:19	18	08:01 (KLZ_WT19)	21:08			21:52	14	06:39 (KLZ_WT21)
3	08:49		12:39 (KLZ_WT16)	08:21			07:28			07:19		07:43 (KLZ_WT19)	06:17			05:35		06:26 (KLZ_WT21)
	16:50	46	13:25 (KLZ_WT16)	17:38			18:28			20:20	18	08:01 (KLZ_WT19)	21:10			21:53	12	06:38 (KLZ_WT21)
4	08:49		12:39 (KLZ_WT16)	08:19			07:26		07:49 (KLZ_WT08)	07:17		07:43 (KLZ_WT19)	06:15			05:34		06:27 (KLZ_WT21)
	16:51	45	13:24 (KLZ_WT16)	17:40			18:30	5	07:54 (KLZ_WT08)	20:22	17	08:00 (KLZ_WT19)	21:11			21:54	10	06:37 (KLZ_WT21)
5	08:49		12:40 (KLZ_WT16)	08:18			07:24		07:47 (KLZ_WT08)	07:14		07:44 (KLZ_WT19)	06:13			05:34		06:28 (KLZ_WT21)
	16:53	44	13:24 (KLZ_WT16)	17:42			18:32	9	07:56 (KLZ_WT08)	20:24	15	07:59 (KLZ_WT19)	21:13			21:55	8	06:36 (KLZ_WT21)
6	08:49		12:41 (KLZ_WT16)	08:16		08:41 (RHR_WT01)	07:22		07:44 (KLZ_WT08)	07:12		07:44 (KLZ_WT19)	06:11		06:36 (SAM_WT06)	05:33		06:30 (KLZ_WT21)
	16:54	43	13:24 (KLZ_WT16)	17:44	2	08:43 (RHR_WT01)	18:33	12	07:56 (KLZ_WT08)	20:25	12	07:56 (KLZ_WT19)	21:14	2	06:38 (SAM_WT06)	21:56	4	06:34 (KLZ_WT21)
7	08:48		09:18 (ALB_WT01)	08:15		08:39 (RHR_WT01)	07:19		07:43 (KLZ_WT08)	07:10		07:46 (KLZ_WT19)	06:09		06:34 (SAM_WT06)	05:32		
	16:55	44	13:24 (KLZ_WT16)	17:46	3	08:42 (RHR_WT01)	18:35	14	07:57 (KLZ_WT08)	20:27	8	07:54 (KLZ_WT19)	21:16	3	06:37 (SAM_WT06)	21:56		
8	08:48		09:17 (ALB_WT01)	08:13		08:38 (RHR_WT01)	07:17		07:42 (KLZ_WT08)	07:08			06:08		06:32 (SAM_WT06)	05:32		
	16:56	43	13:23 (KLZ_WT16)	17:47	5	08:43 (RHR_WT01)	18:37	15	07:57 (KLZ_WT08)	20:29			21:17	4	06:36 (SAM_WT06)	21:57		
9	08:48		09:17 (ALB_WT01)	08:11		08:36 (RHR_WT01)	07:15		07:42 (KLZ_WT08)	07:06			06:06		06:31 (KLZ_WT21)	05:31		
	16:58	43	13:24 (KLZ_WT16)	17:49	5	08:41 (RHR_WT01)	18:39	15	07:57 (KLZ_WT08)	20:30			21:19	5	06:36 (SAM_WT06)	21:58		
10	08:47		09:16 (ALB_WT01)	08:09		08:34 (RHR_WT01)	07:13		07:42 (KLZ_WT08)	07:03			06:04		06:29 (KLZ_WT21)	05:31		
	16:59	43	13:23 (KLZ_WT16)	17:51	6	08:40 (RHR_WT01)	18:40	13	07:55 (KLZ_WT08)	20:32			21:21	8	06:37 (KLZ_WT21)	21:59		
11	08:46		09:15 (ALB_WT01)	08:08			07:11		07:43 (KLZ_WT08)	07:01			06:03		06:28 (KLZ_WT21)	05:31		
	17:00	42	13:22 (KLZ_WT16)	17:53			18:42	11	07:54 (KLZ_WT08)	20:34			21:22	11	06:39 (KLZ_WT21)	22:00		
12	08:46		09:15 (ALB_WT01)	08:06			07:08		07:44 (KLZ_WT08)	06:59			06:01		06:26 (KLZ_WT21)	05:30		
	17:02	41	13:22 (KLZ_WT16)	17:55			18:44	8	07:52 (KLZ_WT08)	20:35			21:24	13	06:39 (KLZ_WT21)	22:00		
13	08:45		09:14 (ALB_WT01)	08:04			07:06			06:57			06:00		06:25 (KLZ_WT21)	05:30		
	17:03	39	13:21 (KLZ_WT16)	17:56			18:45			20:37			21:25	15	06:40 (KLZ_WT21)	22:01		
14	08:45		09:13 (ALB_WT01)	08:02			07:04			06:55			05:58		06:23 (KLZ_WT21)	05:30		
	17:05	38	13:20 (KLZ_WT16)	17:58			18:47			20:39			21:27	17	06:40 (KLZ_WT21)	22:02		
15	08:44		09:12 (ALB_WT01)	08:00			07:02			06:53			05:57		06:22 (KLZ_WT21)	05:30		
	17:06	35	13:18 (KLZ_WT16)	18:00			18:49			20:40			21:28	19	06:41 (KLZ_WT21)	22:02		
16	08:43		09:12 (ALB_WT01)	07:58			06:59			06:50			05:55		06:21 (KLZ_WT21)	05:30		
	17:08	29	13:15 (KLZ_WT16)	18:02			18:51			20:42			21:30	21	06:42 (KLZ_WT21)	22:03		
17	08:42		09:10 (RHR_WT03)	07:57			06:57			06:48			05:54		06:19 (KLZ_WT21)	05:30		
	17:09	17	13:10 (KLZ_WT16)	18:04			18:52			20:43			21:31	23	06:42 (KLZ_WT21)	22:03		
18	08:41		09:09 (RHR_WT03)	07:55			06:55			06:46			05:52		06:18 (KLZ_WT21)	05:30		
	17:11	13	09:23 (ALB_WT01)	18:05			18:54			20:45			21:33	24	06:42 (KLZ_WT21)	22:03		
19	08:40		09:08 (RHR_WT03)	07:53			06:53			06:44			05:51		06:19 (KLZ_WT21)	05:30		
	17:13	13	09:23 (ALB_WT01)	18:07			18:56			20:47			21:34	23	06:42 (KLZ_WT21)	22:04		
20	08:39		09:07 (RHR_WT03)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (KLZ_WT21)	05:30		
	17:14	11	09:22 (ALB_WT01)	18:09	2	08:16 (MVN_WT01)	18:57			20:48			21:35	24	06:43 (KLZ_WT21)	22:04		
21	08:38		09:05 (RHR_WT03)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:19 (KLZ_WT21)	05:30		
	17:16	7	09:12 (RHR_WT03)	18:11	3	08:15 (MVN_WT01)	18:59			20:50			21:37	24	06:43 (KLZ_WT21)	22:04		
22	08:37		09:04 (RHR_WT03)	07:47		08:10 (MVN_WT01)	06:46		07:08 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:18 (KLZ_WT21)	05:30		
	17:17	8	09:12 (RHR_WT03)	18:12	3	08:13 (MVN_WT01)	19:01	1	07:09 (KLZ_WT10)	20:52	2	07:03 (SAM_WT07)	21:38	24	06:42 (KLZ_WT21)	22:05		
23	08:36		09:03 (RHR_WT03)	07:45			06:44		07:06 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		06:19 (KLZ_WT21)	05:30		
	17:19	9	09:12 (RHR_WT03)	18:14			19:02	3	07:09 (KLZ_WT10)	20:53	4	07:03 (SAM_WT07)	21:40	23	06:42 (KLZ_WT21)	22:05		
24	08:35		09:02 (RHR_WT03)	07:43		08:06 (MXS_WT01)	06:41		07:04 (KLZ_WT10)	06:34		06:57 (SAM_WT07)	05:44		06:19 (KLZ_WT21)	05:31		
	17:21	10	09:12 (RHR_WT03)	18:16	2	08:08 (MXS_WT01)	19:04	5	07:09 (KLZ_WT10)	20:55	5	07:02 (SAM_WT07)	21:41	23	06:42 (KLZ_WT21)	22:05		
25	08:34		09:02 (RHR_WT03)	07:41		08:04 (MXS_WT01)	06:39		07:01 (KLZ_WT10)	06:32		06:55 (SAM_WT07)	05:43		06:19 (KLZ_WT21)	05:31		
	17:22	8	09:10 (RHR_WT03)	18:18	2	08:06 (MXS_WT01)	19:06	6	07:07 (KLZ_WT10)	20:57	6	07:01 (SAM_WT07)	21:42	22	06:41 (KLZ_WT21)	22:05		
26	08:32		08:59 (RHR_WT02)	07:39			06:37		07:02 (KLZ_WT10)	06:30		06:53 (SAM_WT07)	05:42		06:20 (KLZ_WT21)	05:31		
	17:24	4	09:08 (RHR_WT03)	18:20			19:07	2	07:04 (KLZ_WT10)	20:58	7	07:00 (SAM_WT07)	21:43	21	06:41 (KLZ_WT21)	22:05		
27	08:31		08:57 (RHR_WT02)	07:36			06:35			06:28			05:41		06:20 (KLZ_WT21)	05:32		
	17:26	3	09:00 (RHR_WT02)	18:21			19:09			21:00			21:45	21	06:41 (KLZ_WT21)	22:05		
28	08:30		08:56 (RHR_WT02)	07:34			06:32		06:55 (KLZ_WT19)	06:26			05:40		06:22 (KLZ_WT21)	05:32		
	17:28	4	09:00 (RHR_WT02)	18:23			19:10	5	07:00 (KLZ_WT19)	21:01			21:46	19	06:41 (KLZ_WT21)	22:05		
29	08:28		08:54 (RHR_WT02)				07:30		07:52 (KLZ_WT19)	06:24			05:39		06:22 (KLZ_WT21)	05:33		
	17:29	4	08:58 (RHR_WT02)				20:12	8	08:00 (KLZ_WT19)	21:03			21:47	19	06:41 (KLZ_WT21)	22:05		
30	08:27						07:28		07:50 (KLZ_WT19)	06:22			05:38		06:23 (KLZ_WT21)	05:33		
	17:31						20:14	11	08:01 (KLZ_WT19)	21:05			21:48	17	06:40 (KLZ_WT21)	22:04		
31	08:26						07:26		07:48 (KLZ_WT19)				05:37		06:23 (KLZ_WT21)			
	17:33						20:15	14	08:02 (KLZ_WT19)				21:49	16	06:39 (KLZ_WT21)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		779			33			157			128			441			63	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,65			0,56			0,58			0,63			0,69			0,69	
Total reduction		0,16			0,16			0,22			0,29			0,31			0,30	
Total, real		122			5			34			37			136			19	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (KLZ_WT21)	06:57			07:45		08:24 (KLZ_WT08)	07:37		08:04 (RHR_WT01)	08:26		08:57 (ALB_WT01)
	22:04			21:34	12	06:49 (KLZ_WT21)	20:33			19:25	6	08:30 (KLZ_WT08)	17:21	6	08:10 (RHR_WT01)	16:42	42	13:04 (KLZ_WT16)
2	05:35			06:11		06:39 (KLZ_WT21)	06:59			07:46		08:22 (KLZ_WT08)	07:38		08:06 (RHR_WT01)	08:27		08:59 (ALB_WT01)
	22:04			21:32	10	06:49 (KLZ_WT21)	20:31			19:23	10	08:32 (KLZ_WT08)	17:19	5	08:11 (RHR_WT01)	16:42	43	13:06 (KLZ_WT16)
3	05:35			06:12		06:40 (KLZ_WT21)	07:00			07:48		08:20 (KLZ_WT08)	07:40		08:08 (RHR_WT01)	08:29		09:00 (ALB_WT01)
	22:04			21:30	7	06:47 (KLZ_WT21)	20:29			19:21	13	08:33 (KLZ_WT08)	17:18	4	08:12 (RHR_WT01)	16:41	43	13:07 (KLZ_WT16)
4	05:36			06:14		06:41 (KLZ_WT21)	07:02			07:49		08:19 (KLZ_WT08)	07:42		08:09 (RHR_WT01)	08:30		09:02 (ALB_WT01)
	22:03			21:29	4	06:45 (SAM_WT06)	20:27			19:19	14	08:33 (KLZ_WT08)	17:16	3	08:12 (RHR_WT01)	16:40	43	13:08 (KLZ_WT16)
5	05:37			06:15		06:43 (SAM_WT06)	07:03		07:43 (KLZ_WT19)	07:51		08:19 (KLZ_WT08)	07:44		08:11 (RHR_WT01)	08:31		09:03 (ALB_WT01)
	22:03			21:27	4	06:47 (SAM_WT06)	20:24	8	07:51 (KLZ_WT19)	19:17	15	08:34 (KLZ_WT08)	17:14	1	08:12 (RHR_WT01)	16:40	44	13:09 (KLZ_WT16)
6	05:38			06:17		06:44 (SAM_WT06)	07:05		07:40 (KLZ_WT19)	07:53		08:18 (KLZ_WT08)	07:45			08:33		09:04 (ALB_WT01)
	22:02			21:25	3	06:47 (SAM_WT06)	20:22	12	07:52 (KLZ_WT19)	19:14	15	08:33 (KLZ_WT08)	17:12			16:40	44	13:10 (KLZ_WT16)
7	05:38		06:35 (KLZ_WT21)	06:18		06:46 (SAM_WT06)	07:07		07:39 (KLZ_WT19)	07:54		08:19 (KLZ_WT08)	07:47			08:34		12:27 (KLZ_WT16)
	22:02	6	06:41 (KLZ_WT21)	21:24	1	06:47 (SAM_WT06)	20:20	15	07:54 (KLZ_WT19)	19:12	13	08:32 (KLZ_WT08)	17:11			16:39	44	13:11 (KLZ_WT16)
8	05:39		06:34 (KLZ_WT21)	06:20			07:08		07:37 (KLZ_WT19)	07:56		08:21 (KLZ_WT08)	07:49			08:35		12:27 (KLZ_WT16)
	22:01	9	06:43 (KLZ_WT21)	21:22			20:18	17	07:54 (KLZ_WT19)	19:10	11	08:32 (KLZ_WT08)	17:09			16:39	45	13:12 (KLZ_WT16)
9	05:40		06:33 (KLZ_WT21)	06:21			07:10		07:37 (KLZ_WT19)	07:58		08:22 (KLZ_WT08)	07:51			08:36		12:27 (KLZ_WT16)
	22:00	11	06:44 (KLZ_WT21)	21:20			20:15	18	07:55 (KLZ_WT19)	19:08	7	08:29 (KLZ_WT08)	17:08			16:39	46	13:13 (KLZ_WT16)
10	05:41		06:33 (KLZ_WT21)	06:23			07:11		07:36 (KLZ_WT19)	07:59		08:24 (KLZ_WT08)	07:52			08:37		12:27 (KLZ_WT16)
	22:00	13	06:46 (KLZ_WT21)	21:18			20:13	18	07:54 (KLZ_WT19)	19:05	2	08:26 (KLZ_WT08)	17:06			16:38	46	13:13 (KLZ_WT16)
11	05:42		06:32 (KLZ_WT21)	06:24			07:13		07:38 (KLZ_WT19)	08:01			07:54			08:38		12:27 (KLZ_WT16)
	21:59	15	06:47 (KLZ_WT21)	21:16			20:11	16	07:54 (KLZ_WT19)	19:03			17:04			16:38	47	13:14 (KLZ_WT16)
12	05:43		06:32 (KLZ_WT21)	06:26			07:14		07:39 (KLZ_WT19)	08:02			07:56			08:39		12:27 (KLZ_WT16)
	21:58	15	06:47 (KLZ_WT21)	21:14			20:09	14	07:53 (KLZ_WT19)	19:01			17:03			16:38	48	13:15 (KLZ_WT16)
13	05:44		06:31 (KLZ_WT21)	06:27			07:16		07:41 (KLZ_WT19)	08:04			07:57		08:26 (RHR_WT02)	08:40		12:27 (KLZ_WT16)
	21:57	17	06:48 (KLZ_WT21)	21:13			20:06	12	07:53 (KLZ_WT19)	18:59			17:01	4	08:30 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
14	05:45		06:31 (KLZ_WT21)	06:29			07:18		07:42 (KLZ_WT19)	08:06			07:59		08:28 (RHR_WT02)	08:41		12:27 (KLZ_WT16)
	21:56	18	06:49 (KLZ_WT21)	21:11			20:04	9	07:51 (KLZ_WT19)	18:57			17:00	4	08:32 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
15	05:47		06:30 (KLZ_WT21)	06:31			07:19		07:44 (KLZ_WT19)	08:07			08:01		08:30 (RHR_WT02)	08:42		12:28 (KLZ_WT16)
	21:56	20	06:50 (KLZ_WT21)	21:09			20:02	6	07:50 (KLZ_WT19)	18:55			16:59	3	08:33 (RHR_WT02)	16:38	49	13:17 (KLZ_WT16)
16	05:48		06:30 (KLZ_WT21)	06:32		07:02 (SAM_WT07)	07:21		07:45 (KLZ_WT19)	08:09		08:35 (MXS_WT01)	08:03		08:32 (RHR_WT02)	08:43		12:28 (KLZ_WT16)
	21:55	20	06:50 (KLZ_WT21)	21:07	3	07:05 (SAM_WT07)	20:00	1	07:46 (KLZ_WT19)	18:53	2	08:37 (MXS_WT01)	16:57	6	08:42 (RHR_WT03)	16:38	50	13:18 (KLZ_WT16)
17	05:49		06:30 (KLZ_WT21)	06:34		07:00 (SAM_WT07)	07:22			08:11		08:36 (MXS_WT01)	08:04		08:36 (RHR_WT03)	08:44		12:29 (KLZ_WT16)
	21:54	21	06:51 (KLZ_WT21)	21:05	7	07:07 (SAM_WT07)	19:57			18:50	2	08:38 (MXS_WT01)	16:56	8	08:44 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
18	05:50		06:29 (KLZ_WT21)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT10)	08:13		08:38 (MXS_WT01)	08:06		08:36 (RHR_WT03)	08:45		12:28 (KLZ_WT16)
	21:53	22	06:51 (KLZ_WT21)	21:03	6	07:08 (SAM_WT07)	19:55	6	07:55 (KLZ_WT10)	18:48	1	08:39 (MXS_WT01)	16:55	10	08:46 (RHR_WT03)	16:39	50	13:18 (KLZ_WT16)
19	05:51		06:29 (KLZ_WT21)	06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT10)	08:14			08:08		08:37 (RHR_WT03)	08:45		12:29 (KLZ_WT16)
	21:51	22	06:51 (KLZ_WT21)	21:01	5	07:08 (SAM_WT07)	19:53	5	07:55 (KLZ_WT10)	18:46			16:54	9	08:46 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
20	05:53		06:29 (KLZ_WT21)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT10)	08:16		08:42 (MVN_WT01)	08:09		08:39 (RHR_WT03)	08:46		12:30 (KLZ_WT16)
	21:50	23	06:52 (KLZ_WT21)	20:59	4	07:09 (SAM_WT07)	19:50	3	07:55 (KLZ_WT10)	18:44	4	08:46 (MVN_WT01)	16:52	8	08:47 (RHR_WT03)	16:39	50	13:20 (KLZ_WT16)
21	05:54		06:29 (KLZ_WT21)	06:40		07:06 (SAM_WT07)	07:29		07:53 (KLZ_WT10)	08:18		08:43 (MVN_WT01)	08:11		08:41 (RHR_WT03)	08:47		12:30 (KLZ_WT16)
	21:49	23	06:52 (KLZ_WT21)	20:57	2	07:08 (SAM_WT07)	19:48	1	07:54 (KLZ_WT10)	18:42	3	08:46 (MVN_WT01)	16:51	7	08:48 (RHR_WT03)	16:40	50	13:20 (KLZ_WT16)
22	05:55		06:29 (KLZ_WT21)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (RHR_WT03)	08:47		12:31 (KLZ_WT16)
	21:48	23	06:52 (KLZ_WT21)	20:55			19:46			18:40	1	08:46 (MVN_WT01)	16:50	11	08:58 (ALB_WT01)	16:40	50	13:21 (KLZ_WT16)
23	05:56		06:29 (KLZ_WT21)	06:43			07:32			08:21			08:14		08:44 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:47	23	06:52 (KLZ_WT21)	20:53			19:44			18:38			16:49	13	08:59 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
24	05:58		06:29 (KLZ_WT21)	06:45			07:33			08:23			08:16		08:46 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:45	24	06:53 (KLZ_WT21)	20:50			19:41			18:36			16:48	13	09:00 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
25	05:59		06:29 (KLZ_WT21)	06:46			07:35			07:24			08:17		08:48 (RHR_WT03)	08:48		12:32 (KLZ_WT16)
	21:44	24	06:53 (KLZ_WT21)	20:48			19:39			17:34			16:47	15	12:47 (KLZ_WT16)	16:42	50	13:22 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT21)	06:48			07:37			07:26			08:19		08:50 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:43	23	06:52 (KLZ_WT21)	20:46			19:37			17:32			16:46	29	12:53 (KLZ_WT16)	16:43	50	13:23 (KLZ_WT16)
27	06:02		06:30 (KLZ_WT21)	06:49			07:38			07:28			08:20		08:51 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:41	22	06:52 (KLZ_WT21)	20:44			19:35			17:30			16:45	35	12:57 (KLZ_WT16)	16:44	50	13:23 (KLZ_WT16)
28	06:03		06:32 (KLZ_WT21)	06:51			07:40			07:30			08:22		08:53 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:40	20	06:52 (KLZ_WT21)	20:42			19:32			17:28			16:44	37	12:59 (KLZ_WT16)	16:44	49	13:23 (KLZ_WT16)
29	06:05		06:33 (KLZ_WT21)	06:52			07:41			07:31			08:23		08:54 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:38	19	06:52 (KLZ_WT21)	20:40			19:30			17:27			16:44	39	13:01 (KLZ_WT16)	16:45	49	13:23 (KLZ_WT16)
30	06:06		06:35 (KLZ_WT21)	06:54			07:43			07:33			08:25		08:56 (ALB_WT01)	08:50		12:35 (KLZ_WT16)
	21:37	17	06:52 (KLZ_WT21)	20:38			19:28			17:25			16:43	41	13:03 (KLZ_WT16)	16:46	48	13:23 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT21)	06:56						07:35						08:50		12:36 (KLZ_WT16)
	21:35	15	06:51 (KLZ_WT21)	20:35						17:23						16:47	48	13:24 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		465			68			161			119			311			1476	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,69			0,68			0,63			0,56			0,60			0,68	
Total reduction		0,30			0,31			0,26			0,20			0,16			0,15	
Total, real		141			21			43			24			49			220	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (RHR_WT03)	08:24		08:50 (RHR_WT01)	07:32		08:12 (KLZ_WT08)	07:23		07:46 (SAM_WT05)	06:20		18:40 (KLZ_WT15)	05:37		06:09 (KLZ_WT21)
	16:48	55	15:34 (KLZ_WT16)	17:35	7	08:57 (RHR_WT01)	18:25	17	08:29 (KLZ_WT08)	20:17	24	08:10 (KLZ_WT19)	21:06	75	19:55 (KLZ_WT15)	21:51	104	19:58 (KLZ_WT15)
2	08:50		09:20 (RHR_WT03)	08:23		08:48 (RHR_WT01)	07:30		08:13 (KLZ_WT08)	07:21		07:47 (CBR_WT01)	06:18		18:40 (KLZ_WT15)	05:36		06:10 (KLZ_WT21)
	16:49	52	15:35 (KLZ_WT16)	17:37	8	08:56 (RHR_WT01)	18:27	15	08:28 (KLZ_WT08)	20:19	22	08:09 (KLZ_WT19)	21:08	76	19:56 (KLZ_WT15)	21:52	102	19:58 (KLZ_WT15)
3	08:49		09:20 (RHR_WT03)	08:21		08:47 (RHR_WT01)	07:28		08:14 (KLZ_WT08)	07:19		07:48 (KLZ_WT19)	06:17		18:40 (KLZ_WT15)	05:35		06:10 (KLZ_WT21)
	16:50	52	15:35 (KLZ_WT16)	17:38	8	08:55 (RHR_WT01)	18:28	12	08:26 (KLZ_WT08)	20:20	20	08:08 (KLZ_WT19)	21:10	77	19:57 (KLZ_WT15)	21:53	101	19:58 (KLZ_WT15)
4	08:49		09:19 (RHR_WT03)	08:19			07:26		08:17 (KLZ_WT08)	07:17		07:49 (KLZ_WT19)	06:15		18:39 (KLZ_WT15)	05:34		06:09 (KLZ_WT21)
	16:51	52	15:35 (KLZ_WT16)	17:40			18:30	6	08:23 (KLZ_WT08)	20:22	18	08:07 (KLZ_WT19)	21:11	78	19:57 (KLZ_WT15)	21:54	101	19:57 (KLZ_WT15)
5	08:49		09:19 (RHR_WT03)	08:18			07:24			07:14		07:50 (KLZ_WT19)	06:13		18:38 (KLZ_WT15)	05:34		06:10 (KLZ_WT21)
	16:53	53	15:36 (KLZ_WT16)	17:42			18:32			20:24	16	08:06 (KLZ_WT19)	21:13	79	19:57 (KLZ_WT15)	21:55	101	19:58 (KLZ_WT15)
6	08:49		09:18 (RHR_WT03)	08:16			07:21			07:12		07:50 (KLZ_WT19)	06:11		18:39 (KLZ_WT15)	05:33		06:10 (KLZ_WT21)
	16:54	53	15:35 (KLZ_WT16)	17:44			18:33			20:25	13	08:03 (KLZ_WT19)	21:14	79	19:58 (KLZ_WT15)	21:56	100	19:57 (KLZ_WT15)
7	08:48		09:18 (RHR_WT03)	08:15			07:19			07:10		07:52 (KLZ_WT19)	06:09		18:38 (KLZ_WT15)	05:32		06:10 (KLZ_WT21)
	16:55	54	15:36 (KLZ_WT16)	17:46			18:35			20:27	9	08:01 (KLZ_WT19)	21:16	80	19:58 (KLZ_WT15)	21:56	100	19:58 (KLZ_WT15)
8	08:48		09:17 (RHR_WT03)	08:13			07:17			07:08			06:08		06:32 (SAM_WT06)	05:32		06:11 (KLZ_WT21)
	16:56	54	15:36 (KLZ_WT16)	17:47			18:37			20:29			21:17	81	19:57 (KLZ_WT15)	21:57	99	19:58 (KLZ_WT15)
9	08:48		09:17 (RHR_WT03)	08:11			07:15			07:06		07:28 (SAM_WT04)	06:06		06:31 (SAM_WT06)	05:31		06:11 (KLZ_WT21)
	16:58	55	15:37 (KLZ_WT16)	17:49			18:39			20:30	1	07:29 (SAM_WT04)	21:19	83	19:58 (KLZ_WT15)	21:58	99	19:58 (KLZ_WT15)
10	08:47		09:17 (RHR_WT03)	08:09			07:13			07:03			06:04		06:29 (SAM_WT06)	05:31		06:11 (KLZ_WT21)
	16:59	55	15:37 (KLZ_WT16)	17:51			18:40			20:32			21:21	86	19:58 (KLZ_WT15)	21:59	99	19:58 (KLZ_WT15)
11	08:46		09:18 (RHR_WT03)	08:08			07:11			07:01			06:03		06:28 (SAM_WT06)	05:31		06:12 (KLZ_WT21)
	17:00	52	15:37 (KLZ_WT16)	17:53			18:42			20:34			21:22	86	19:58 (KLZ_WT15)	22:00	97	19:58 (KLZ_WT15)
12	08:46		09:20 (RHR_WT03)	08:06			07:08			06:59			06:01		06:26 (SAM_WT06)	05:30		06:11 (KLZ_WT21)
	17:02	49	15:37 (KLZ_WT16)	17:55			18:44			20:35			21:24	88	19:58 (KLZ_WT15)	22:00	99	19:58 (KLZ_WT15)
13	08:45		09:21 (RHR_WT03)	08:04			07:06			06:57		19:17 (KLZ_WT15)	06:00		06:25 (SAM_WT06)	05:30		06:12 (KLZ_WT21)
	17:03	46	15:37 (KLZ_WT16)	17:56			18:45			20:37	7	19:24 (KLZ_WT15)	21:25	87	19:58 (KLZ_WT15)	22:01	97	19:58 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02			07:04			06:55		19:09 (KLZ_WT15)	05:58		06:25 (SAM_WT06)	05:30		06:12 (KLZ_WT21)
	17:05	44	15:37 (KLZ_WT16)	17:58			18:47			20:38	23	19:32 (KLZ_WT15)	21:27	86	19:58 (KLZ_WT15)	22:02	96	19:58 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00		08:24 (MVN_WT01)	07:02			06:53		19:05 (KLZ_WT15)	05:56		18:38 (KLZ_WT15)	05:30		06:12 (KLZ_WT21)
	17:06	40	15:37 (KLZ_WT16)	18:00	2	08:26 (MVN_WT01)	18:49			20:40	31	19:36 (KLZ_WT15)	21:28	80	19:58 (KLZ_WT15)	22:02	96	19:58 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58		08:22 (MVN_WT01)	06:59			06:50		07:13 (SAM_WT11)	05:55		18:38 (KLZ_WT15)	05:30		06:13 (KLZ_WT21)
	17:08	40	15:37 (KLZ_WT16)	18:02	3	08:25 (MVN_WT01)	18:50			20:42	37	19:38 (KLZ_WT15)	21:30	81	19:59 (KLZ_WT15)	22:03	96	19:58 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:57		08:20 (MVN_WT01)	06:57			06:48		07:11 (SAM_WT11)	05:54		06:19 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:09	40	15:37 (KLZ_WT16)	18:04	5	08:25 (MVN_WT01)	18:52			20:43	44	19:41 (KLZ_WT15)	21:31	87	19:58 (KLZ_WT15)	22:03	96	19:59 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55		08:18 (MVN_WT01)	06:55		07:17 (KLZ_WT10)	06:46		07:09 (SAM_WT11)	05:52		06:18 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:11	40	15:37 (KLZ_WT16)	18:05	5	08:23 (MVN_WT01)	18:54	2	07:19 (KLZ_WT10)	20:45	48	19:43 (KLZ_WT15)	21:33	91	19:58 (KLZ_WT15)	22:03	96	19:59 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53		08:16 (MXS_WT01)	06:53		07:15 (KLZ_WT10)	06:44		18:55 (KLZ_WT15)	05:51		06:17 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:12	39	15:36 (KLZ_WT16)	18:07	5	08:21 (MXS_WT01)	18:56	5	07:20 (KLZ_WT10)	20:47	49	19:44 (KLZ_WT15)	21:34	94	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51		08:16 (MXS_WT01)	06:50		07:13 (KLZ_WT10)	06:42		18:53 (KLZ_WT15)	05:49		06:16 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:14	37	15:36 (KLZ_WT16)	18:09	9	08:25 (KLZ_WT08)	18:57	7	07:20 (KLZ_WT10)	20:48	53	19:46 (KLZ_WT15)	21:35	96	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
21	08:38		09:07 (RHR_WT02)	07:49		08:16 (KLZ_WT08)	06:48		07:10 (KLZ_WT10)	06:40		18:51 (KLZ_WT15)	05:48		06:15 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:16	34	15:35 (KLZ_WT16)	18:11	11	08:27 (KLZ_WT08)	18:59	9	07:19 (KLZ_WT10)	20:50	56	19:47 (KLZ_WT15)	21:37	97	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
22	08:37		15:07 (KLZ_WT16)	07:47		08:15 (KLZ_WT08)	06:46		07:09 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:13 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)
	17:17	27	15:34 (KLZ_WT16)	18:12	14	08:29 (KLZ_WT08)	19:01	9	07:18 (KLZ_WT10)	20:52	61	19:49 (KLZ_WT15)	21:38	99	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
23	08:36		15:09 (KLZ_WT16)	07:45		08:13 (KLZ_WT08)	06:44		07:10 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		06:12 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)
	17:19	24	15:33 (KLZ_WT16)	18:14	17	08:30 (KLZ_WT08)	19:02	7	07:17 (KLZ_WT10)	20:53	65	19:50 (KLZ_WT15)	21:40	100	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
24	08:35		15:12 (KLZ_WT16)	07:43		08:13 (KLZ_WT08)	06:41			06:34		06:57 (SAM_WT07)	05:44		06:11 (KLZ_WT21)	05:31		06:14 (KLZ_WT21)
	17:21	20	15:32 (KLZ_WT16)	18:16	18	08:31 (KLZ_WT08)	19:04			20:55	69	19:51 (KLZ_WT15)	21:41	102	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
25	08:34		15:14 (KLZ_WT16)	07:41		08:12 (KLZ_WT08)	06:39		07:01 (KLZ_WT19)	06:32		06:55 (SAM_WT07)	05:43		06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)
	17:22	16	15:30 (KLZ_WT16)	18:18	19	08:31 (KLZ_WT08)	19:05	3	07:04 (KLZ_WT19)	20:57	73	19:51 (KLZ_WT15)	21:42	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
26	08:32		15:19 (KLZ_WT16)	07:39		08:12 (KLZ_WT08)	06:37		06:59 (KLZ_WT19)	06:30		06:53 (SAM_WT07)	05:42		06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)
	17:24	8	15:27 (KLZ_WT16)	18:20	19	08:31 (KLZ_WT08)	19:07	8	07:07 (KLZ_WT19)	20:58	76	19:52 (KLZ_WT15)	21:43	103	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
27	08:31			07:36		08:12 (KLZ_WT08)	06:35		06:57 (KLZ_WT19)	06:28		06:51 (SAM_WT07)	05:41		06:10 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)
	17:26			18:21	19	08:31 (KLZ_WT08)	19:09	12	07:09 (KLZ_WT19)	21:00	79	19:53 (KLZ_WT15)	21:45	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
28	08:30		08:56 (RHR_WT01)	07:34		08:11 (KLZ_WT08)	06:32		06:55 (KLZ_WT19)	06:26		06:51 (SAM_WT07)	05:40		06:09 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)
	17:28	1	08:57 (RHR_WT01)	18:23	19	08:30 (KLZ_WT08)	19:10	15	07:10 (KLZ_WT19)	21:01	80	19:54 (KLZ_WT15)	21:46	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
29	08:28		08:54 (MVZ_WT01)				07:30		07:52 (KLZ_WT19)	06:24		06:53 (SAM_WT07)	05:39		06:10 (KLZ_WT21)	05:33		06:16 (KLZ_WT21)
	17:29	3	08:57 (RHR_WT01)				20:12	18	08:10 (KLZ_WT19)	21:03	78	19:55 (KLZ_WT15)	21:47	103	19:58 (KLZ_WT15)	22:05	97	20:02 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		07:50 (KLZ_WT19)	06:22		18:41 (KLZ_WT15)	05:38		06:10 (KLZ_WT21)	05:33		06:15 (KLZ_WT21)
	17:31	5	08:58 (RHR_WT01)				20:14	20	08:10 (KLZ_WT19)	21:05	74	19:55 (KLZ_WT15)	21:48	103	19:58 (KLZ_WT15)	22:04	98	20:02 (KLZ_WT15)
31	08:26		08:51 (RHR_WT01)				07:26		07:48 (CBR_WT01)				05:37		06:09 (KLZ_WT21)			
	17:33	6	08:57 (RHR_WT01)				20:15	22	08:10 (KLZ_WT19)				21:49	104	19:58 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1106			188			187			1126			2790			2934	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,70			0,56			0,60			0,60			0,60			0,62	
Total reduction		0,17			0,16			0,22			0,27			0,27			0,27	
Total, real		186			31			42			303			751			788	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:16 (KLZ_WT21)	06:09		06:37 (SAM_WT06)	06:57			07:44			07:37			08:26		09:00 (RHR_WT03)
	22:04	97	20:02 (KLZ_WT15)	21:34	86	20:08 (KLZ_WT15)	20:33			19:25			17:21			16:42	52	15:19 (KLZ_WT16)
2	05:35		06:15 (KLZ_WT21)	06:11		06:39 (SAM_WT06)	06:59			07:46			07:38			08:27		09:00 (RHR_WT03)
	22:04	99	20:02 (KLZ_WT15)	21:32	86	20:09 (KLZ_WT15)	20:31			19:23			17:19			16:42	55	15:20 (KLZ_WT16)
3	05:35		06:16 (KLZ_WT21)	06:12		06:40 (SAM_WT06)	07:00		07:26 (SAM_WT04)	07:48			07:40			08:29		09:00 (RHR_WT03)
	22:04	98	20:03 (KLZ_WT15)	21:30	84	20:08 (KLZ_WT15)	20:29	1	07:27 (SAM_WT04)	19:21			17:17			16:41	55	15:20 (KLZ_WT16)
4	05:36		06:16 (KLZ_WT21)	06:14		06:41 (SAM_WT06)	07:02			07:49			07:42			08:30		09:02 (RHR_WT03)
	22:03	99	20:03 (KLZ_WT15)	21:29	83	20:07 (KLZ_WT15)	20:27			19:19			17:16			16:40	54	15:21 (KLZ_WT16)
5	05:37		06:17 (KLZ_WT21)	06:15		06:43 (SAM_WT06)	07:03		07:49 (KLZ_WT19)	07:51			07:44			08:31		09:03 (RHR_WT03)
	22:03	99	20:04 (KLZ_WT15)	21:27	81	20:08 (KLZ_WT15)	20:24	9	07:58 (KLZ_WT19)	19:16			17:14			16:40	54	15:21 (KLZ_WT16)
6	05:38		06:16 (KLZ_WT21)	06:17		18:48 (KLZ_WT15)	07:05		07:46 (KLZ_WT19)	07:53			07:45			08:33		09:04 (RHR_WT03)
	22:02	101	20:04 (KLZ_WT15)	21:25	79	20:07 (KLZ_WT15)	20:22	13	07:59 (KLZ_WT19)	19:14			17:12			16:40	53	15:21 (KLZ_WT16)
7	05:38		06:16 (KLZ_WT21)	06:18		18:48 (KLZ_WT15)	07:07		07:45 (KLZ_WT19)	07:54			07:47			08:34		09:06 (RHR_WT03)
	22:02	101	20:04 (KLZ_WT15)	21:24	79	20:07 (KLZ_WT15)	20:20	16	08:01 (KLZ_WT19)	19:12			17:11			16:39	53	15:23 (KLZ_WT16)
8	05:39		06:17 (KLZ_WT21)	06:20		18:48 (KLZ_WT15)	07:08		07:43 (KLZ_WT19)	07:56			07:49		08:18 (RHR_WT01)	08:35		09:07 (RHR_WT03)
	22:01	102	20:05 (KLZ_WT15)	21:22	78	20:06 (KLZ_WT15)	20:18	18	08:01 (KLZ_WT19)	19:10			17:09	8	08:26 (RHR_WT01)	16:39	53	15:23 (KLZ_WT16)
9	05:40		06:17 (KLZ_WT21)	06:21		18:49 (KLZ_WT15)	07:10		07:42 (KLZ_WT19)	07:58			07:50		08:19 (RHR_WT01)	08:36		09:08 (RHR_WT03)
	22:00	102	20:05 (KLZ_WT15)	21:20	77	20:06 (KLZ_WT15)	20:15	20	08:02 (KLZ_WT19)	19:08			17:07	8	08:27 (RHR_WT01)	16:39	52	15:23 (KLZ_WT16)
10	05:41		06:17 (KLZ_WT21)	06:23		18:48 (KLZ_WT15)	07:11		07:40 (CBR_WT01)	07:59		08:50 (KLZ_WT08)	07:52		08:21 (RHR_WT01)	08:37		09:09 (RHR_WT03)
	22:00	102	20:05 (KLZ_WT15)	21:18	77	20:05 (KLZ_WT15)	20:13	22	08:02 (KLZ_WT19)	19:05	9	08:59 (KLZ_WT08)	17:06	7	08:28 (RHR_WT01)	16:38	52	15:24 (KLZ_WT16)
11	05:42		06:18 (KLZ_WT21)	06:24		18:49 (KLZ_WT15)	07:13		07:38 (SAM_WT05)	08:01		08:48 (KLZ_WT08)	07:54		08:23 (RHR_WT01)	08:38		09:10 (RHR_WT03)
	21:59	102	20:06 (KLZ_WT15)	21:16	76	20:05 (KLZ_WT15)	20:11	24	08:02 (KLZ_WT19)	19:03	13	09:01 (KLZ_WT08)	17:04	6	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
12	05:43		06:18 (KLZ_WT21)	06:26		18:49 (KLZ_WT15)	07:14		07:39 (CBR_WT01)	08:02		08:47 (KLZ_WT08)	07:56		08:24 (MVZ_WT01)	08:39		09:11 (RHR_WT03)
	21:58	102	20:06 (KLZ_WT15)	21:14	75	20:04 (KLZ_WT15)	20:09	22	08:01 (KLZ_WT19)	19:01	15	09:02 (KLZ_WT08)	17:03	5	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
13	05:44		06:18 (KLZ_WT21)	06:27		18:49 (KLZ_WT15)	07:16		07:41 (KLZ_WT19)	08:04		08:45 (KLZ_WT08)	07:57		08:26 (MVZ_WT01)	08:40		09:12 (RHR_WT03)
	21:57	102	20:06 (KLZ_WT15)	21:13	74	20:03 (KLZ_WT15)	20:06	20	08:01 (KLZ_WT19)	18:59	17	09:02 (KLZ_WT08)	17:01	3	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
14	05:45		06:18 (KLZ_WT21)	06:29		07:00 (SAM_WT07)	07:18		07:42 (KLZ_WT19)	08:06		08:44 (KLZ_WT08)	07:59		08:28 (RHR_WT01)	08:41		09:13 (RHR_WT03)
	21:56	104	20:07 (KLZ_WT15)	21:11	78	20:02 (KLZ_WT15)	20:04	18	08:00 (KLZ_WT19)	18:57	19	09:03 (KLZ_WT08)	17:00	1	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
15	05:47		06:19 (KLZ_WT21)	06:30		06:57 (SAM_WT07)	07:19		07:44 (KLZ_WT19)	08:07		08:44 (KLZ_WT08)	08:01			08:42		09:14 (RHR_WT03)
	21:56	103	20:07 (KLZ_WT15)	21:09	81	20:01 (KLZ_WT15)	20:02	15	07:59 (KLZ_WT19)	18:55	19	09:03 (KLZ_WT08)	16:59			16:38	57	15:26 (KLZ_WT16)
16	05:48		06:19 (KLZ_WT21)	06:32		06:59 (SAM_WT07)	07:21		07:45 (KLZ_WT19)	08:09		08:44 (KLZ_WT08)	08:02		14:52 (KLZ_WT16)	08:43		09:15 (RHR_WT03)
	21:55	103	20:07 (KLZ_WT15)	21:07	78	20:00 (KLZ_WT15)	20:00	12	07:57 (KLZ_WT19)	18:53	19	09:03 (KLZ_WT08)	16:57	8	15:00 (KLZ_WT16)	16:38	58	15:27 (KLZ_WT16)
17	05:49		06:19 (KLZ_WT21)	06:34		07:00 (SAM_WT07)	07:22		07:47 (KLZ_WT19)	08:11		08:44 (KLZ_WT08)	08:04		14:48 (KLZ_WT16)	08:44		09:16 (RHR_WT03)
	21:54	103	20:07 (KLZ_WT15)	21:05	76	19:59 (KLZ_WT15)	19:57	9	07:56 (KLZ_WT19)	18:50	18	09:02 (KLZ_WT08)	16:56	16	15:04 (KLZ_WT16)	16:39	58	15:27 (KLZ_WT16)
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	21:52	102	20:07 (KLZ_WT15)	21:03	72	19:58 (KLZ_WT15)	19:55	4	07:53 (KLZ_WT19)	18:48	18	09:02 (KLZ_WT08)	16:55	20	15:06 (KLZ_WT16)	16:39	57	15:27 (KLZ_WT16)
19	05:51		06:20 (KLZ_WT21)	06:37		07:03 (SAM_WT07)	07:25			08:14		08:45 (KLZ_WT08)	08:07		14:43 (KLZ_WT16)	08:45		09:17 (RHR_WT03)
	21:51	102	20:07 (KLZ_WT15)	21:01	68	19:56 (KLZ_WT15)	19:53			18:46	16	09:01 (KLZ_WT08)	16:53	24	15:07 (KLZ_WT16)	16:39	58	15:28 (KLZ_WT16)
20	05:53		06:22 (KLZ_WT21)	06:38		07:05 (SAM_WT07)	07:27		07:57 (KLZ_WT10)	08:16		08:46 (KLZ_WT08)	08:09		14:42 (KLZ_WT16)	08:46		09:18 (RHR_WT03)
	21:50	102	20:09 (KLZ_WT15)	20:59	64	19:55 (KLZ_WT15)	19:50	6	08:03 (KLZ_WT10)	18:44	14	09:00 (KLZ_WT08)	16:52	27	15:09 (KLZ_WT16)	16:39	58	15:29 (KLZ_WT16)
21	05:54		06:23 (KLZ_WT21)	06:40		18:54 (KLZ_WT15)	07:29		07:55 (KLZ_WT10)	08:18		08:48 (KLZ_WT08)	08:11		08:43 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	99	20:08 (KLZ_WT15)	20:57	59	19:53 (KLZ_WT15)	19:48	9	08:04 (KLZ_WT10)	18:42	9	08:57 (KLZ_WT08)	16:51	34	15:11 (KLZ_WT16)	16:40	58	15:29 (KLZ_WT16)
22	05:55		06:24 (KLZ_WT21)	06:41		18:56 (KLZ_WT15)	07:30		07:55 (KLZ_WT10)	08:19		08:45 (MXS_WT01)	08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	97	20:08 (KLZ_WT15)	20:55	56	19:52 (KLZ_WT15)	19:46	10	08:05 (KLZ_WT10)	18:40	5	08:50 (MXS_WT01)	16:50	37	15:12 (KLZ_WT16)	16:40	58	15:30 (KLZ_WT16)
23	05:56		06:25 (KLZ_WT21)	06:43		18:57 (KLZ_WT15)	07:32		07:56 (KLZ_WT10)	08:21		08:47 (MXS_WT01)	08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	96	20:08 (KLZ_WT15)	20:53	52	19:49 (KLZ_WT15)	19:44	8	08:04 (KLZ_WT10)	18:38	5	08:52 (MXS_WT01)	16:49	39	15:12 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
24	05:58		06:27 (KLZ_WT21)	06:45		18:59 (KLZ_WT15)	07:33		07:58 (KLZ_WT10)	08:23		08:49 (MVN_WT01)	08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	94	20:09 (KLZ_WT15)	20:50	49	19:48 (KLZ_WT15)	19:41	6	08:04 (KLZ_WT10)	18:36	5	08:54 (MVN_WT01)	16:48	40	15:14 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
25	05:59		06:28 (KLZ_WT21)	06:46		07:12 (SAM_WT11)	07:35		08:00 (KLZ_WT10)	07:24		07:51 (MVN_WT01)	08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	92	20:09 (KLZ_WT15)	20:48	47	19:45 (KLZ_WT15)	19:39	3	08:03 (KLZ_WT10)	17:34	5	07:56 (MVN_WT01)	16:47	40	15:15 (KLZ_WT16)	16:42	58	15:31 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT21)	06:48		07:14 (SAM_WT11)	07:36			07:26		07:53 (MVN_WT01)	08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	89	20:09 (KLZ_WT15)	20:46	43	19:43 (KLZ_WT15)	19:37			17:32	3	07:56 (MVN_WT01)	16:46	40	15:15 (KLZ_WT16)	16:43	58	15:31 (KLZ_WT16)
27	06:02		06:32 (KLZ_WT21)	06:49		07:15 (SAM_WT11)	07:38			07:28		07:54 (MVN_WT01)	08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	82	20:08 (KLZ_WT15)	20:44	37	19:40 (KLZ_WT15)	19:35			17:30	1	07:55 (MVN_WT01)	16:45	40	15:16 (KLZ_WT16)	16:43	58	15:32 (KLZ_WT16)
28	06:03		18:49 (KLZ_WT15)	06:51		19:07 (KLZ_WT15)	07:40			07:30			08:22		08:53 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:40	80	20:09 (KLZ_WT15)	20:42	30	19:37 (KLZ_WT15)	19:32			17:28			16:44	42	15:17 (KLZ_WT16)	16:44	57	15:32 (KLZ_WT16)
29	06:05		18:48 (KLZ_WT15)	06:52		19:10 (KLZ_WT15)	07:41			07:31			08:23		09:01 (RHR_WT03)	08:49		09:20 (RHR_WT03)
	21:38	81	20:09 (KLZ_WT15)	20:40	22	19:32 (KLZ_WT15)	19:30			17:27			16:44	46	15:17 (KLZ_WT16)	16:45	57	15:32 (KLZ_WT16)
30	06:06		06:35 (SAM_WT06)	06:54		19:19 (KLZ_WT15)	07:43			07:33			08:25		09:01 (RHR_WT03)	08:50		09:20 (RHR_WT03)
	21:37	86	20:08 (KLZ_WT15)	20:38	5	19:24 (KLZ_WT15)	19:28			17:25			16:43	50	15:19 (KLZ_WT16)	16:46	56	15:33 (KLZ_WT16)
31	06:08		06:36 (SAM_WT06)	06:56						07:35						08:50		09:20 (RHR_WT03)
	21:35	88	20:09 (KLZ_WT15)	20:35						17:23						16:47	56	15:33 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		3009			1952			265			210			541			1733	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,97			0,97			0,97			0,97			0,97			0,97	
Wind dir. red.		0,61			0,59			0,62			0,56			0,70			0,68	
Total reduction		0,27			0,27			0,26			0,20			0,18			0,15	
Total, real		808			527			69			41			99			261	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

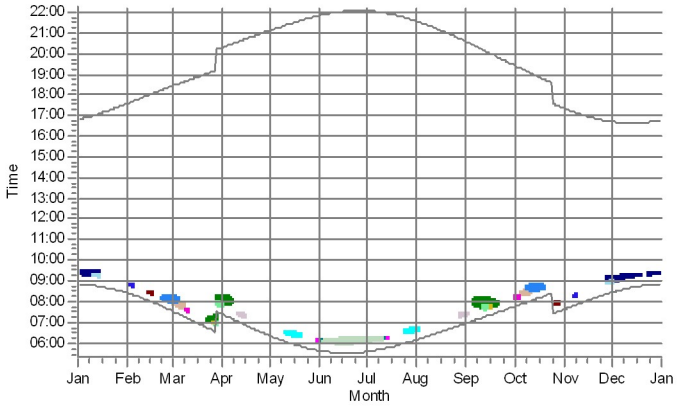
Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

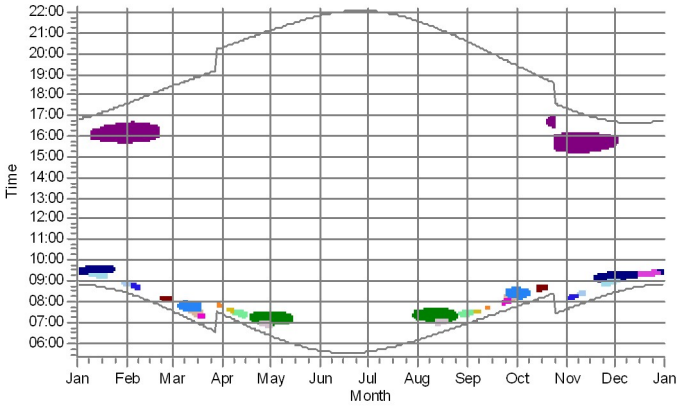
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

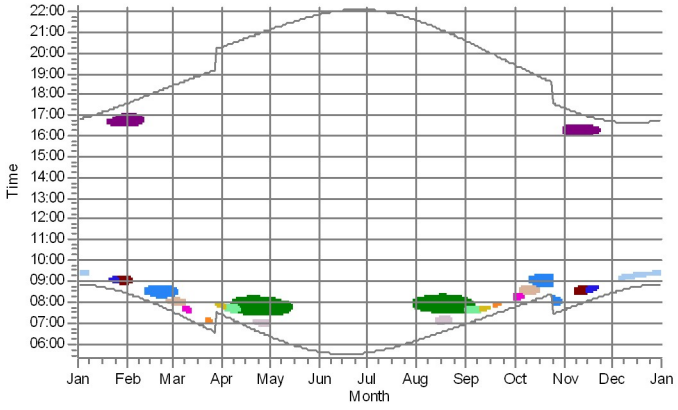
1: Hoogstraat 54, 9940 Evergem



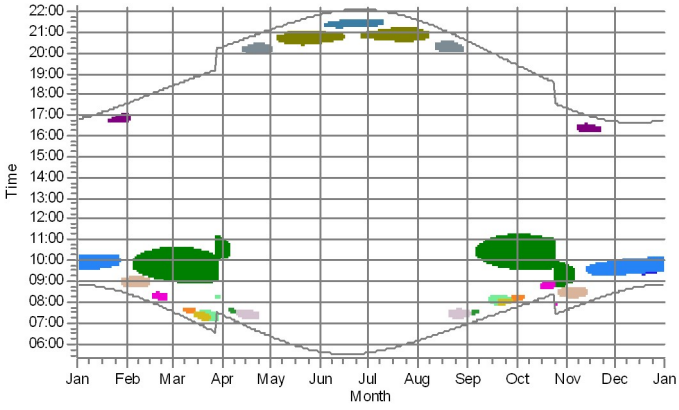
2: Pachtgoederen 2, 9940 Evergem



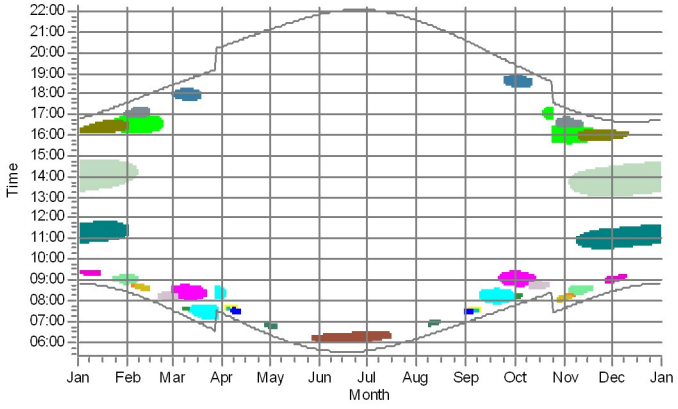
3: Pachtgoederen 2, 9940 Evergem



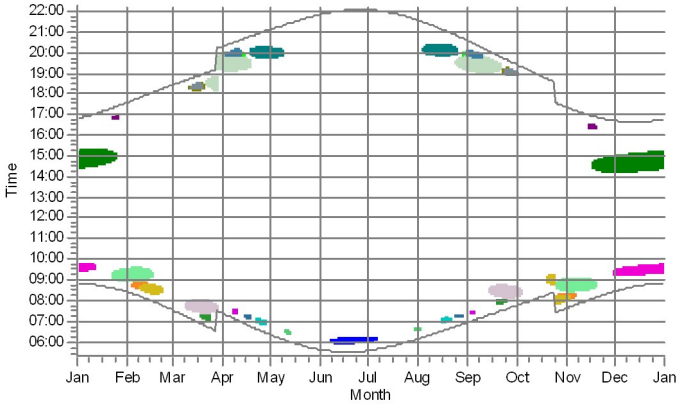
4: James Cookstraat 10, 9042 Gent



5: Pelikaanstraat 60, 9940 Evergem



6: Christoffel Columbuslaan 23, 9042 Gent



WTGs

- KLZ_WT21: KLZ_WT21 Armasteel
- KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
- KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
- KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
- KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
- KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
- KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
- SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
- SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
- SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
- EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
- KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)
- TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)
- SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!

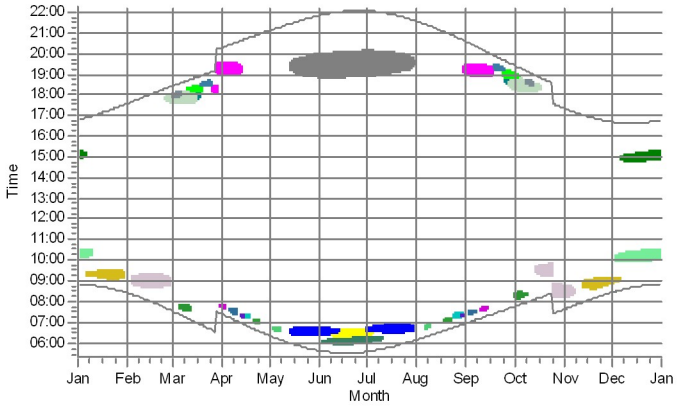
Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

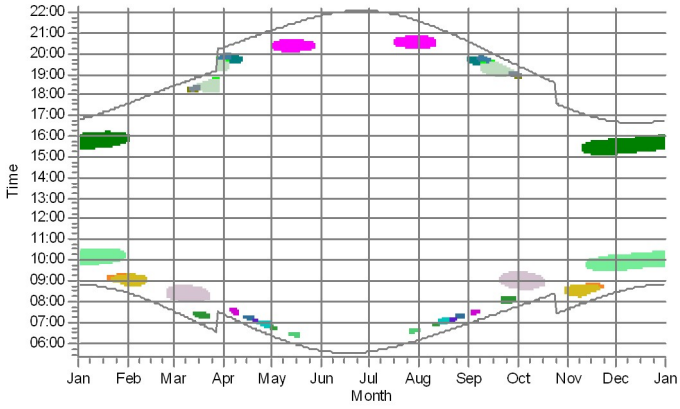
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

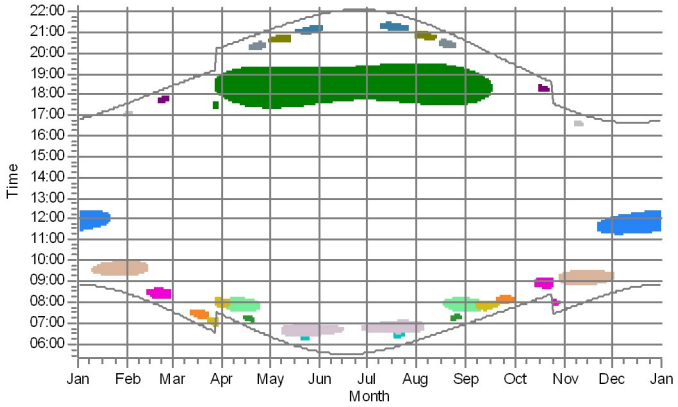
7: Christoffel Columbuslaan 23, 9042 Gent



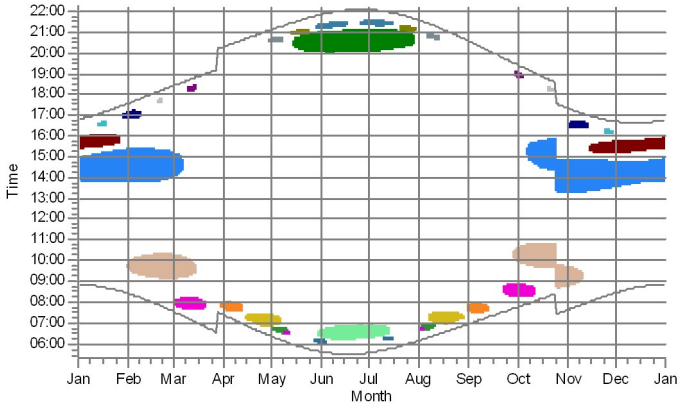
8: Christoffel Columbuslaan 17, 9042 Gent



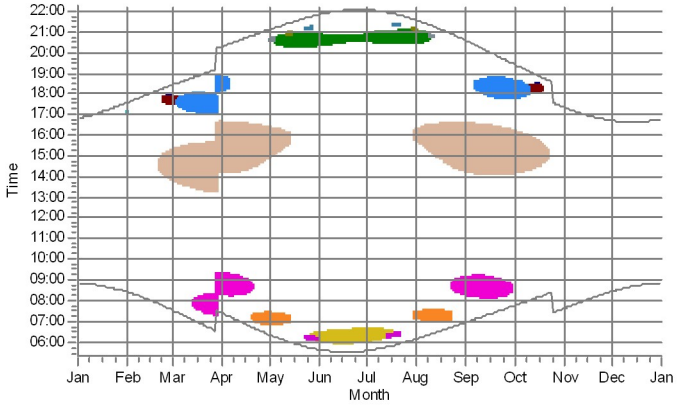
9: Willem van Rubroeckstraat 2, 9042 Gent



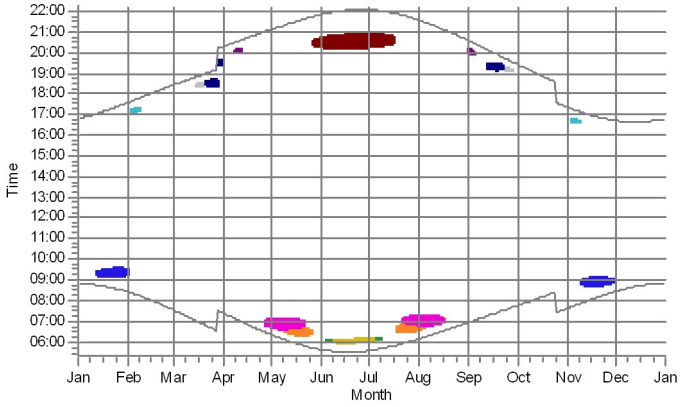
10: Willem van Rubroeckstraat 26, 9042 Gent



11: Arbedkaai 3, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

- KLZ_WT21: KLZ_WT21 Armasteel
- KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
- KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
- KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
- KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
- KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
- KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)
- SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
- SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
- SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
- SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
- SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
- EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
- KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)
- SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
- SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

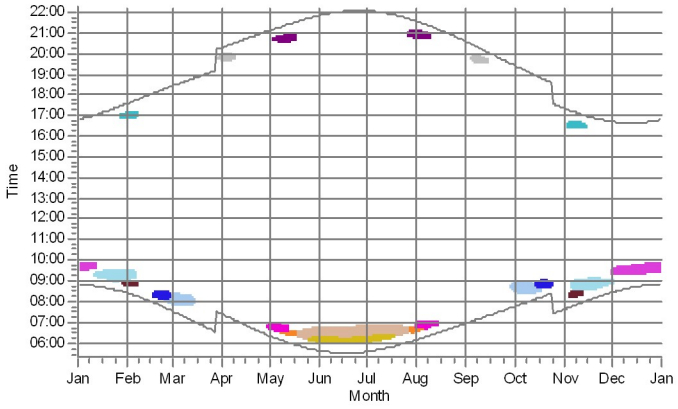
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Calculated:
08/04/2026 21:18/4.1.264

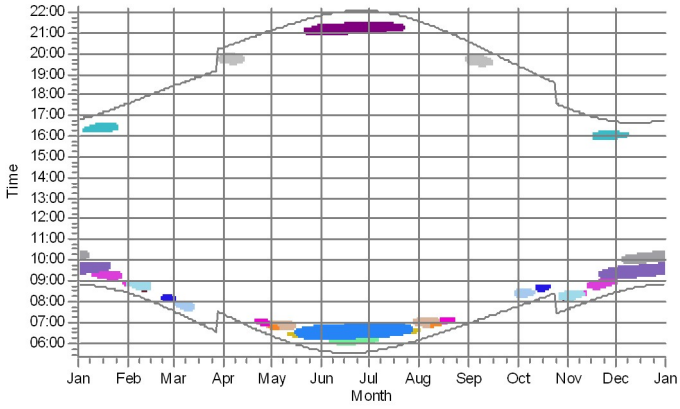
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

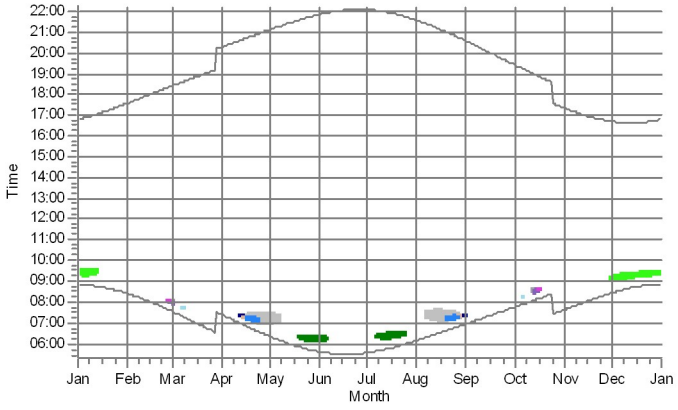
13: Doornzele Dries 107, 9940 Evergem



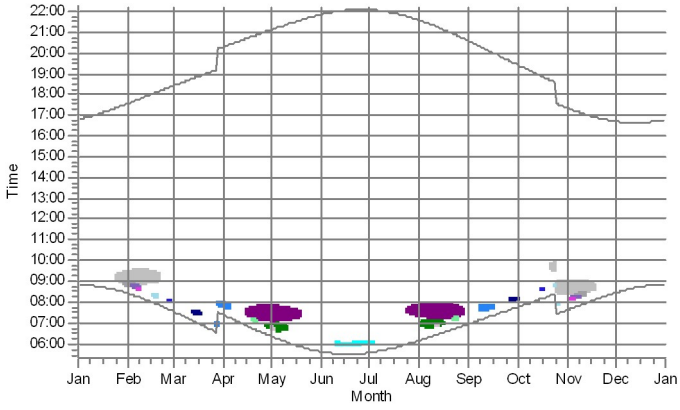
14: Abdijdreef 2, 9940 Evergem



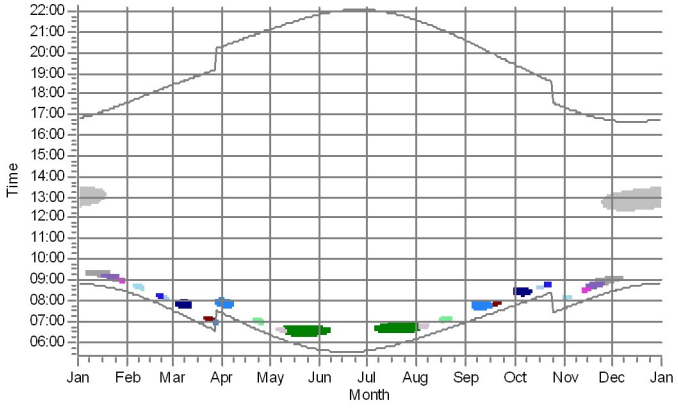
15: Hageland 14, 9940 Evergem



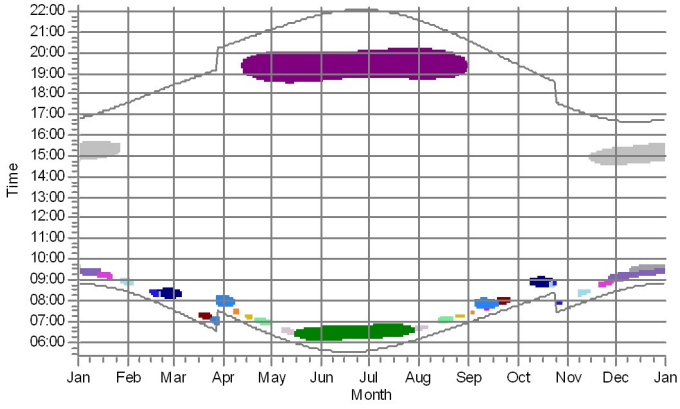
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

- KLZ_WT21: KLZ_WT21 Armasteel
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)
- NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)
- MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

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SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:27-16:01/34 16:48 14:26-15:14/48	08:24 17:35	07:32 09:04-10:34/90 18:25	07:23 17:59-18:52/53 07:53-08:17/24 20:17 10:09-10:57/48	06:20 06:44-08:09/85 21:06 17:25-19:16/111	05:36 06:07-06:39/32 17:38-19:14/96 21:51 20:06-20:56/50
2	08:50 15:27-16:01/34 16:49 14:27-15:14/47	08:23 17:36	07:30 09:03-10:34/91 18:26	07:21 17:56-18:54/58 07:52-08:16/24 20:19 10:12-10:54/42	06:18 06:42-08:08/86 21:08 17:25-19:16/111	05:36 06:09-06:39/30 17:40-19:14/94 21:52 20:06-20:57/51
3	08:49 15:28-16:02/34 16:50 14:28-15:13/45	08:21 17:38	07:28 09:03-10:34/91 18:28	07:19 17:54-18:57/63 07:52-08:15/23 20:20 10:14-10:50/36	06:16 06:41-08:08/87 21:09 17:25-19:16/111	05:35 06:09-06:38/29 17:40-19:14/94 21:53 20:06-20:57/51
4	08:49 15:28-16:02/34 16:51 14:28-15:13/45	08:19 17:40	07:26 09:03-10:35/92 18:30	07:17 17:51-18:59/68 07:53-08:14/21 20:22 10:17-10:46/29	06:15 06:39-08:06/87 21:11 17:26-19:16/110	05:34 06:09-06:39/29 17:40-19:13/93 21:54 20:05-20:57/52
5	08:49 15:28-16:03/35 16:52 14:29-15:13/44	08:18 17:42	07:24 09:01-10:34/93 18:32	07:14 17:49-19:01/72 07:54-08:13/19 20:24 10:23-10:40/17	06:13 06:38-06:55/17 17:25-19:16/111 21:13 20:30-20:41/11 06:56-08:05/69	05:33 06:10-06:39/29 17:41-19:14/93 21:55 20:06-20:58/52
6	08:49 15:28-16:03/35 16:54 14:29-15:13/44	08:16 09:40-10:00/20 17:44	07:21 09:01-10:34/93 18:33	07:12 17:46-19:01/75 20:25 07:55-08:10/15	06:11 06:39-06:55/16 17:25-19:16/111 06:57-07:26/29 21:14 20:27-20:43/16 07:27-08:05/38	05:33 06:10-06:39/29 17:41-19:13/92 21:56 20:05-20:58/53
7	08:48 15:29-16:04/35 16:55 14:30-15:14/44	08:15 09:36-10:05/29 17:45	07:19 09:01-10:34/93 18:35	07:10 17:45-19:03/78 07:57-08:07/10 20:27 07:51-07:54/3	06:09 06:39-06:54/15 17:26-19:16/110 06:57-07:25/28 21:16 20:26-20:46/20 07:28-08:03/35	05:32 06:10-06:39/29 17:42-19:14/92 21:56 20:06-20:59/53
8	08:48 15:29-16:04/35 16:56 14:30-15:13/43	08:13 09:33-10:09/36 17:47	07:17 09:01-10:34/93 18:37	07:08 17:43-19:05/82 20:29 07:44-08:01/17	06:08 06:39-06:53/14 17:26-19:16/110 06:57-07:24/27 21:17 20:24-20:47/23 07:28-08:01/33	05:32 06:11-06:40/29 17:42-19:13/91 21:57 20:05-20:59/54
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10	08:47 15:29-16:06/37 16:59 14:32-15:14/42	08:09 09:28-10:14/46 17:51	07:13 09:00-10:32/92 18:40	07:03 17:40-19:07/87 20:32 07:38-08:06/28	06:04 06:29-06:37/8 20:22-20:49/27 07:31-07:58/27 21:21 06:42-06:49/7 17:27-19:16/109 06:59-07:22/23	05:31 06:11-06:40/29 17:44-19:14/90 21:59 20:06-21:00/54
11	08:46 15:30-16:06/36 17:00 14:32-15:14/42	08:08 09:25-10:16/51 17:53	07:10 09:00-10:32/92 18:42	07:01 17:39-19:08/89 20:33 07:36-08:08/32	06:03 06:28-06:39/11 17:28-19:16/108 07:00-07:21/21 21:22 20:22-20:50/28 07:33-07:57/24	05:31 06:12-06:40/28 17:45-19:14/89 22:00 20:06-21:01/55
12	08:46 15:30-16:06/36 17:02 14:34-15:14/40	08:06 09:23-10:18/55 17:54	07:08 09:00-10:32/92 18:44	06:59 17:37-19:08/91 20:35 07:33-08:08/35	06:01 06:26-06:39/13 17:27-19:16/109 07:01-07:19/18 21:24 20:21-20:50/29 07:34-07:55/21	05:30 06:11-06:40/29 17:44-19:14/90 22:00 20:06-21:00/54
13	08:45 15:31-16:07/36 17:03 14:35-15:14/39	08:04 09:21-10:20/59 17:56	07:06 09:00-10:31/91 18:45	06:57 17:35-19:09/94 20:37 07:32-08:09/37	05:59 06:25-06:40/15 17:28-19:16/108 07:03-07:17/14 21:25 20:21-20:51/30 07:37-07:53/16	05:30 06:12-06:40/28 17:45-19:14/89 22:01 20:06-21:01/55
14	08:44 15:31-16:07/36 17:05 14:35-15:14/39	08:02 09:19-10:22/63 17:58	07:04 08:59-10:30/91 18:47	06:55 17:34-19:10/96 20:38 07:30-08:10/40	05:58 06:23-06:40/17 17:28-19:15/107 07:05-07:14/9 21:27 20:20-20:51/31 07:41-07:48/7	05:30 06:12-06:40/28 17:45-19:14/89 22:02 20:06-21:01/55
15	08:44 15:32-16:08/36 17:06 14:36-15:14/38	08:00 09:18-10:23/65 18:00	07:02 08:59-10:29/90 18:49	06:52 17:33-19:11/98 20:40 07:29-08:11/42	05:56 06:22-06:41/19 17:29-19:16/107 21:28 20:20-20:51/31	05:30 06:12-06:40/28 17:46-19:14/88 22:02 20:06-21:02/56
16	08:43 15:32-16:08/36 17:08 14:37-15:13/36	07:58 09:16-10:24/68 18:02	06:59 09:00-10:29/89 18:50	06:50 17:32-19:12/100 20:42 07:28-08:12/44	05:55 06:21-06:42/21 17:30-19:16/106 21:30 20:20-20:52/32	05:30 06:13-06:41/28 17:46-19:14/88 22:03 20:06-21:02/56
17	08:42 15:32-16:08/36 17:09 14:39-15:13/34	07:56 09:15-10:26/71 18:03	06:57 08:59-10:27/88 18:52	06:48 17:31-19:12/101 20:43 07:27-08:12/45	05:53 06:19-06:42/23 17:29-19:15/106 21:31 20:19-20:52/33	05:29 06:13-06:41/28 17:47-19:15/88 22:03 20:07-21:02/55
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27	08:31 15:41-16:06/25 17:26	07:36 09:06-10:34/88 18:21	06:34 09:04-10:11/67 19:09 06:57-07:17/20	06:28 06:51-06:52/1 06:56-08:11/75 21:00 17:26-19:15/109	05:41 06:08-06:41/33 17:35-19:14/99 21:45 20:08-20:53/45	05:32 06:15-06:43/28 17:48-19:16/88 22:05 20:08-21:04/56
28	08:30 15:43-16:05/22 17:28	07:34 09:04-10:33/89 18:23	06:32 17:22-17:32/10 06:55-07:18/23 19:10 09:04-10:08/64	06:26 06:50-06:54/4 06:57-08:10/73 21:01 17:25-19:15/110	05:40 06:08-06:41/33 17:36-19:14/98 21:46 20:07-20:53/46	05:32 06:15-06:43/28 17:49-19:17/88 22:05 20:09-21:04/55
29	08:28 15:44-16:03/19 17:29		07:30 18:13-18:41/28 07:53-08:17/24 20:12 10:06-11:06/60	06:24 06:48-06:55/7 06:56-08:11/75 21:03 17:26-19:16/110	05:39 06:07-06:41/34 17:37-19:15/98 21:47 20:08-20:55/47	05:33 06:16-06:44/28 17:48-19:17/89 22:05 20:09-21:04/55
30	08:27 15:47-16:02/15 17:31		07:28 18:07-18:46/39 07:53-08:17/24 20:14 10:07-11:03/56	06:22 06:46-06:55/9 06:56-08:10/74 21:05 17:26-19:16/110	05:38 06:06-06:40/34 17:38-19:14/96 21:48 20:07-20:55/48	05:33 06:15-06:44/29 17:48-19:18/90 22:04 20:10-21:05/55
31	08:25 15:50-15:58/8 17:33		07:25 18:03-18:50/47 07:53-08:17/24 20:15 10:09-11:01/52		05:37 06:07-06:39/32 17:38-19:14/96 21:49 20:07-20:56/49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1855	1510	2851	4357	5669	5181

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:16-06:44/28 17:49-19:18/89	06:09 06:37-06:49/12 17:38-19:26/108 07:11-07:30/19	06:57 17:38-19:07/89	07:44 09:39-11:10/91	07:37 08:58-09:44/46	08:26 15:12-15:48/36
	22:04 20:10-21:05/55	21:34 20:31-21:00/29 07:44-08:06/22	20:33 07:35-08:07/32	19:25	17:21	16:42 14:14-14:56/42
2	05:34 06:15-06:44/29 17:48-19:18/90	06:11 06:39-06:49/10 20:31-20:59/28 07:43-08:08/25	06:59 17:38-19:05/87	07:46 09:39-11:11/92	07:38 09:00-09:41/41	08:27 15:13-15:49/36
	22:04 20:10-21:04/54	21:32 06:55-06:58/3 17:38-19:27/109 07:10-07:32/22	20:31 07:36-08:04/28	19:23	17:19	16:41 14:15-14:57/42
3	05:35 06:16-06:44/28 17:48-19:19/91	06:12 06:40-06:47/7 20:33-20:59/26 07:41-08:10/29	07:00 17:39-19:04/85	07:48 09:38-11:10/92	07:40 09:02-09:37/35	08:29 15:13-15:48/35
	22:04 20:11-21:05/54	21:30 06:52-07:01/9 17:37-19:26/109 07:09-07:33/24	20:29 07:39-08:02/23	19:21	17:17	16:41 14:15-14:57/42
4	05:36 06:16-06:45/29 17:48-19:19/91	06:14 06:41-06:44/3 20:33-20:57/24 07:39-08:10/31	07:02 17:40-19:02/82	07:49 09:38-11:11/93	07:42 09:06-09:34/28	08:30 15:14-15:49/35
	22:03 20:11-21:05/54	21:29 06:51-07:03/12 17:36-19:26/110 07:08-07:33/25	20:27 07:41-07:58/17	19:19	17:16	16:40 14:15-14:58/43
5	05:37 06:17-06:45/28 17:48-19:19/91	06:15 06:49-07:03/14 17:36-19:26/110 07:07-07:34/27	07:03 17:42-19:00/78 07:54-08:04/10	07:51 09:38-11:11/93	07:43 09:11-09:29/18	08:31 15:14-15:49/35
	22:03 20:11-21:04/53	21:27 20:35-20:57/22 07:38-08:12/34	20:24 07:48-07:52/4	19:16	17:14	16:40 14:15-14:59/44
6	05:37 06:16-06:45/29 17:48-19:20/92	06:17 06:48-07:04/16 17:36-19:26/110 07:06-07:35/29	07:05 17:42-18:58/76	07:53 09:37-11:10/93	07:45	08:33 15:14-15:49/35
	22:02 20:11-21:05/54	21:25 20:36-20:55/19 07:37-08:13/36	20:22 07:51-08:06/15	19:14	17:12	16:39 14:15-14:59/44
7	05:38 06:16-06:45/29 17:48-19:20/92	06:18 06:48-07:05/17 17:36-19:26/110	07:06 17:44-18:56/72 07:49-08:08/19	07:54 09:37-11:10/93	07:47	08:34 15:15-15:50/35
	22:02 20:12-21:05/53	21:24 20:38-20:53/15 07:06-08:14/68	20:20 10:18-10:34/16	19:12	17:11	16:39 14:16-15:00/44
8	05:39 06:17-06:46/29 17:47-19:21/94	06:20 06:47-08:15/88 17:35-19:26/111	07:08 17:45-18:53/68 07:47-08:08/21	07:56 09:37-11:10/93	07:49	08:35 15:16-15:50/34
	22:01 20:13-21:05/52	21:22 20:40-20:50/10	20:18 10:12-10:40/28	19:10	17:09	16:39 14:16-15:01/45
9	05:40 06:17-06:46/29 17:47-19:21/94	06:21 06:49-08:16/87	07:10 17:48-18:51/63 07:47-08:09/22	07:57 09:37-11:09/92	07:50	08:36 15:16-15:50/34
	22:00 20:13-21:05/52	21:20 17:34-19:25/111	20:15 10:09-10:44/35	19:08	17:07	16:38 14:16-15:01/45
10	05:41 06:16-06:46/30 17:47-19:22/95	06:23 06:50-08:16/86	07:11 17:49-18:48/59 07:45-08:09/24	07:59 09:37-11:09/92	07:52	08:37 15:16-15:50/34
	22:00 20:14-21:05/51	21:18 17:34-19:25/111	20:13 10:05-10:47/42	19:05	17:06	16:38 14:16-15:03/47
11	05:42 06:16-06:47/31 17:47-19:22/95	06:24 06:52-08:17/85	07:13 17:52-18:45/53 07:45-08:09/24	08:01 09:37-11:08/91	07:54 15:22-15:31/9	08:38 15:17-15:51/34
	21:59 20:14-21:04/50	21:16 17:34-19:24/110	20:11 10:03-10:50/47	19:03	17:04	16:38 14:16-15:04/48
12	05:43 06:15-06:47/32 17:47-19:22/95	06:26 06:53-08:18/85	07:14 17:54-18:41/47 07:44-08:09/25	08:02 09:38-11:08/90	07:56 15:18-15:33/15	08:39 15:17-15:51/34
	21:58 20:15-21:04/49	21:14 17:34-19:25/111	20:09 10:00-10:52/52	19:01	17:03	16:38 14:16-15:05/49
13	05:44 06:15-06:48/33 17:46-19:23/97	06:27 06:54-08:17/83	07:16 17:58-18:38/40 07:44-08:09/25	08:04 09:37-11:07/90	07:57 15:16-15:35/19	08:40 15:18-15:51/33
	21:57 20:15-21:04/49	21:13 17:33-19:24/111	20:06 09:58-10:54/56	18:59	17:01	16:38 14:17-15:06/49
14	05:45 06:15-06:49/34 17:46-19:23/97	06:29 06:56-07:02/6 07:04-08:18/74	07:17 18:02-18:32/30 07:43-08:08/25	08:06 09:38-11:06/88	07:59 15:14-15:37/23	08:41 15:19-15:52/33
	21:56 20:16-21:03/47	21:11 17:34-19:24/110	20:04 09:56-10:56/60	18:57	17:00	16:38 14:17-15:07/50
15	05:46 06:16-06:50/34 17:45-19:23/98	06:30 06:57-07:00/3 07:03-08:18/75	07:19 18:10-18:25/15 07:44-08:07/23	08:07 09:38-11:06/88	08:01 15:13-15:39/26	08:42 15:19-15:52/33
	21:55 20:16-21:03/47	21:09 17:33-19:23/110	20:02 09:55-10:58/63	18:55	16:59	16:38 14:18-15:07/49
16	05:48 06:17-06:50/33 17:45-19:23/98	06:32 17:33-19:23/110	07:21 09:53-10:59/66	08:09 09:38-11:04/86	08:02 15:13-15:40/27	08:43 15:20-15:53/33
	21:55 20:17-21:02/45	21:07 07:04-08:19/75	20:00 07:45-08:06/21	18:52	16:57	16:38 14:18-15:08/50
17	05:49 06:18-06:51/33 17:44-19:24/100	06:34 17:33-19:22/109	07:22 09:52-11:01/69	08:11 09:39-11:04/85	08:04 15:12-15:41/29	08:44 15:21-15:53/32
	21:54 20:18-21:02/44	21:05 07:04-08:18/74	19:57 07:47-08:05/18	18:50	16:56	16:38 14:19-15:09/50
18	05:50 06:19-06:51/32 17:44-19:24/100	06:35 17:33-19:22/109	07:24 09:50-11:02/72	08:12 09:39-11:03/84	08:06 15:11-15:41/30	08:45 15:21-15:53/32
	21:52 20:18-21:01/43	21:03 07:05-08:19/74	19:55 07:49-08:04/15	18:48	16:55 14:27-14:37/10	16:39 14:19-15:09/50
19	05:51 06:20-06:51/31 17:43-19:24/101	06:37 17:33-19:21/108	07:25 09:49-11:04/75	08:14 09:40-11:02/82	08:07 15:10-15:42/32	08:45 15:21-15:54/33
	21:51 20:19-21:01/42	21:01 07:05-08:18/73	19:53 07:50-08:01/11	18:46	16:53 14:24-14:41/17	16:39 14:19-15:10/51
20	05:52 06:22-06:52/30 17:43-19:24/101	06:38 17:33-19:20/107	07:27 09:48-11:05/77	08:16 09:41-11:02/81	08:09 15:10-15:43/33	08:46 15:22-15:54/32
	21:50 20:20-21:01/41	20:59 07:06-08:18/72	19:50 07:52-07:58/6	18:44	16:52 14:22-14:43/21	16:39 14:20-15:11/51
21	05:54 06:23-06:52/29 17:43-19:25/102	06:40 17:33-19:19/106	07:28 09:46-11:06/80	08:18 09:41-11:00/79	08:11 15:10-15:44/34	08:47 15:22-15:54/32
	21:49 20:21-21:02/41	20:57 07:07-08:18/71	19:48	18:42	16:51 14:20-14:45/25	16:40 14:20-15:11/51
22	05:55 06:24-06:52/28 17:42-19:25/103	06:41 17:33-19:19/106 07:09-07:28/19	07:30 09:46-11:07/81	08:19 09:42-10:59/77	08:12 15:11-15:45/34	08:47 15:23-15:55/32
	21:48 20:22-21:02/40	20:55 07:29-08:18/49	19:46	18:40	16:50 14:19-14:47/28	16:40 14:21-15:12/51
23	05:56 06:25-06:52/27 17:42-19:25/103	06:43 17:33-19:18/105 07:10-07:25/15	07:32 09:44-11:07/83	08:21 09:43-10:58/75	08:14 15:10-15:45/35	08:48 15:23-15:55/32
	21:47 20:23-21:02/39	20:53 07:29-08:17/48	19:44	18:38	16:49 14:18-14:48/30	16:41 14:21-15:12/51
24	05:58 06:27-06:53/26 17:41-19:25/104	06:44 17:34-19:17/103 07:14-07:22/8	07:33 09:44-11:08/84	08:23 09:44-10:57/73	08:16 15:10-15:45/35	08:48 15:23-15:55/32
	21:45 20:24-21:02/38	20:50 07:30-08:17/47	19:41	18:36	16:48 14:17-14:50/33	16:41 14:21-15:12/51
25	05:59 06:28-06:53/25 17:41-19:26/105	06:46 17:33-19:16/103	07:35 09:42-11:08/86	07:24 08:46-09:56/70	08:17 15:11-15:46/35	08:48 15:25-15:57/32
	21:44 20:27-21:03/36	20:48 07:29-08:15/46	19:39	17:34	16:47 14:17-14:51/34	16:42 14:23-15:13/50
26	06:00 06:29-06:52/23 17:40-19:26/106	06:48 17:34-19:15/101	07:36 09:42-11:09/87	07:26 08:47-09:55/68	08:19 15:10-15:46/36	08:49 15:25-15:57/32
	21:43 20:28-21:02/34	20:46 07:30-08:15/45	19:37	17:32	16:46 14:16-14:51/35	16:43 14:23-15:13/50
27	06:02 06:30-06:52/22 17:40-19:26/106	06:49 17:34-19:14/100	07:38 09:42-11:10/88	07:28 08:48-09:52/64	08:20 15:11-15:47/36	08:49 15:25-15:57/32
	21:41 20:29-21:02/33	20:44 07:30-08:14/44	19:34	17:30	16:45 14:15-14:53/38	16:43 14:23-15:13/50
28	06:03 06:32-06:52/20 17:40-19:26/106	06:51 17:35-19:13/98	07:40 09:40-11:10/90	07:30 08:49-09:51/62	08:22 15:11-15:47/36	08:49 15:25-15:58/33
	21:40 20:30-21:02/32	20:42 07:31-08:13/42	19:32	17:28	16:44 14:16-14:54/38	16:44 14:24-15:13/49
29	06:05 06:33-06:52/19 17:39-19:26/107	06:52 17:35-19:11/96	07:41 09:40-11:10/90	07:31 08:51-09:49/58	08:23 15:11-15:47/36	08:49 15:25-15:58/33
	21:38 20:30-21:02/32 07:19-07:22/3	20:40 07:31-08:11/40	19:30	17:26	16:43 14:15-14:54/39	16:45 14:24-15:13/49
30	06:06 06:35-06:52/17 17:38-19:26/108 07:15-07:26/11	06:54 17:36-19:10/94	07:43 09:39-11:10/91	07:33 08:53-09:48/55	08:25 15:12-15:48/36	08:49 15:26-15:59/33
	21:37 20:30-21:01/31 07:49-08:00/11	20:38 07:33-08:10/37	19:28	17:25	16:43 14:15-14:55/40	16:46 14:25-15:14/49
31	06:08 06:36-06:51/15 17:38-19:27/109 07:13-07:29/16	06:56 17:36-19:08/92		07:35 08:56-09:46/50		08:50 15:26-16:00/34
	21:35 20:31-21:01/30 07:47-08:04/17	20:35 07:33-08:08/35		17:23		16:47 14:25-15:14/49
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	5355	5551	2970	2520	1152	2520

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:37-09:40/3	08:24 08:50-08:54/4	07:32 07:55-08:02/7	07:23	06:20	05:37
	16:48 10:05-10:22/17	17:35	18:25	20:17	21:06	21:50
2	08:49 10:07-10:22/15	08:22 08:48-08:54/6	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 10:07-10:21/14	08:21 08:46-08:53/7	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:08-10:21/13	08:19 08:46-08:53/7	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:10-10:20/10	08:18	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 10:11-10:19/8	08:16	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:20/2	08:14	07:19	07:10	06:09	05:32
	16:55 10:15-10:17/2	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:17-09:21/4	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:16-09:22/6	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:22/7	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:14-09:23/9	08:04	07:06	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:24/11	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:12-09:24/12	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:12-09:24/12	07:56	06:57	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:13-09:23/10	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:15-09:23/8	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:17-09:22/5	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:05/3	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:05/5	06:35	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:03/6	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:54/1		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	195	38	7	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-09:04/7
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	08:59-09:05/6
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40		08:29	09:00-09:04/4
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42		08:30	09:02-09:05/3
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43		08:31	09:03-09:05/2
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:53		07:45	08:18-08:20/2	08:33	09:04-09:05/1
	22:02	21:25	20:22	19:14		17:12		16:40	09:58-10:05/7
7	05:38	06:18	07:07	07:54		07:47	08:16-08:23/7	08:34	09:57-10:07/10
	22:02	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:24/7	08:35	09:57-10:09/12
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:25/6	08:36	09:56-10:10/14
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:25/4	08:37	09:56-10:11/15
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:26/3	08:38	09:27-09:30/3
	21:59	21:16	20:11	19:03		17:04		16:38	09:56-10:12/16
12	05:43	06:26	07:14	08:02	08:31-08:35/4	07:56		08:39	09:26-09:31/5
	21:58	21:14	20:09	19:01		17:03		16:38	09:56-10:12/16
13	05:44	06:27	07:16	08:04	08:29-08:36/7	07:57		08:40	09:26-09:32/6
	21:57	21:12	20:06	18:59		17:01		16:38	09:56-10:13/17
14	05:45	06:29	07:17	08:06	08:31-08:37/6	07:59		08:41	09:26-09:33/7
	21:56	21:11	20:04	18:57		17:00		16:38	09:56-10:14/18
15	05:47	06:30	07:19	08:07	08:33-08:37/4	08:01		08:42	09:26-09:34/8
	21:55	21:09	20:02	18:55		16:59		16:38	09:56-10:15/19
16	05:48	06:32	07:21	08:09	08:35-08:37/2	08:02		08:43	09:26-09:35/9
	21:54	21:07	20:00	18:53		16:57		16:38	09:57-10:16/19
17	05:49	06:34	07:22	08:11		08:04		08:44	09:27-09:36/9
	21:53	21:05	19:57	18:50		16:56		16:39	09:57-10:17/20
18	05:50	06:35	07:24	08:12		08:06		08:44	09:27-09:36/9
	21:52	21:03	19:55	18:48		16:55		16:39	09:57-10:16/19
19	05:51	06:37	07:25	08:14		08:07		08:45	09:27-09:37/10
	21:51	21:01	19:53	18:46		16:53		16:39	09:58-10:17/19
20	05:53	06:38	07:27	08:16		08:09		08:46	09:28-09:38/10
	21:50	20:59	19:50	18:44		16:52		16:39	09:58-10:18/20
21	05:54	06:40	07:28	08:17		08:11		08:46	09:28-09:38/10
	21:49	20:57	19:48	18:42		16:51		16:40	09:58-10:18/20
22	05:55	06:41	07:30	08:19		08:12	08:53-08:58/5	08:47	09:29-09:39/10
	21:48	20:55	19:46	18:40		16:50		16:40	09:59-10:19/20
23	05:56	06:43	07:32	08:21		08:14	08:51-08:59/8	08:47	09:29-09:39/10
	21:46	20:52	19:44	18:38		16:49		16:41	09:59-10:19/20
24	05:58	06:45	07:33	08:23		08:15	08:50-09:00/10	08:48	09:29-09:39/10
	21:45	20:50	19:41	18:36		16:48		16:41	09:59-10:19/20
25	05:59	06:46	07:35	07:24		08:17	08:50-09:02/12	08:48	09:30-09:40/10
	21:44	20:48	19:39	17:34		16:47		16:42	10:01-10:20/19
26	06:01	06:48	07:36	07:26		08:19	08:50-09:02/12	08:49	09:31-09:40/9
	21:42	20:46	19:37	17:32		16:46		16:43	10:01-10:21/20
27	06:02	06:49	07:38	07:28		08:20	08:51-09:03/12	08:49	09:31-09:40/9
	21:41	20:44	19:34	17:30		16:45		16:43	10:02-10:21/19
28	06:03	06:51	07:40	07:29		08:22	08:53-09:04/11	08:49	09:32-09:40/8
	21:40	20:42	19:32	17:28		16:44		16:44	10:02-10:21/19
29	06:05	06:52	07:41	07:31		08:23	08:54-09:03/9	08:49	09:33-09:40/7
	21:38	20:40	19:30	17:27		16:44		16:45	10:03-10:21/18
30	06:06	06:54	07:43	07:33		08:24	08:56-09:04/8	08:49	09:34-09:40/6
	21:37	20:38	19:28	17:25		16:43		16:46	10:03-10:21/18
31	06:08	06:56		07:35				08:49	09:35-09:40/5
	21:35	20:35		17:23				16:47	10:04-10:21/17
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	23		116		644	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: ATS_WT01 - NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:20-09:31/11	08:24	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:44	07:36	08:26 09:06-09:13/7
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49 09:20-09:32/12	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 09:06-09:15/9
	16:49	17:37	18:27	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49 09:20-09:32/12	08:21	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29 09:06-09:16/10
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:18	16:41
4	08:49 09:19-09:32/13	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30 09:06-09:17/11
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:41
5	08:49 09:19-09:33/14	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31 09:06-09:18/12
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49 09:19-09:32/13	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33 09:06-09:18/12
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48 09:21-09:33/12	08:14	07:19	07:10	06:09	05:33	05:39	06:18	07:07	07:54	07:47	08:34 09:06-09:20/14
	16:55	17:46	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:21-09:32/11	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35 09:07-09:20/13
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:22-09:33/11	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:57	07:50	08:36 09:08-09:20/12
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:08	16:39
10	08:47 09:23-09:32/9	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:09-09:21/12
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46 09:24-09:31/7	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:10-09:21/11
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:27-09:31/4	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39 09:11-09:22/11
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40 09:12-09:22/10
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41 09:13-09:23/10
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42 09:14-09:23/9
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43 09:15-09:24/9
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	20:00	18:53	16:57	16:38
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44 09:16-09:24/8
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:44 09:16-09:24/8
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:25/8
	17:13	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39
20	08:39	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09	08:46 09:18-09:26/8
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:17	08:11	08:46 09:18-09:26/8
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47 09:19-09:27/8
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14	08:47 09:19-09:27/8
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:15	08:48 09:19-09:27/8
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42
25	08:33	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48 09:20-09:28/8
	17:23	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49 09:20-09:28/8
	17:24	18:20	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:29/9
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:44
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49 09:20-09:29/9
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49 09:20-09:29/9
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 09:08-09:12/4	08:49 09:20-09:30/10
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49 09:20-09:30/10
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	129	0	0	0	0	0	0	0	0	0	4	299

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 09:22-09:57/35 17:35 08:50-09:07/17	07:32 13:53-15:15/82 07:55-08:08/13 18:25 09:13-10:12/59	07:23 07:46-08:01/15 20:17 14:16-16:35/139	06:20 06:44-06:58/14 21:06 15:01-16:20/79	05:36 06:13-06:40/27 21:50
2	08:49 16:49	08:22 09:22-09:56/34 17:36 08:48-09:07/19	07:30 13:51-15:17/86 07:53-08:09/16 18:26 09:13-10:12/59	07:21 07:43-07:59/16 20:19 14:16-16:35/139	06:18 06:42-06:58/16 21:08 15:04-16:19/75	05:36 06:14-06:41/27 21:51
3	08:49 16:50	08:21 09:22-09:56/34 17:38 08:48-09:08/20	07:28 13:49-15:19/90 07:51-08:09/18 18:28 09:14-10:11/57	07:19 07:44-07:57/13 20:20 14:16-16:35/139	06:16 06:41-07:00/19 21:09 15:06-16:17/71	05:35 06:14-06:40/26 21:53
4	08:49 16:51	08:19 09:23-10:00/37 17:40 08:48-09:09/21	07:26 13:47-15:21/94 07:49-08:09/20 18:30 09:15-10:10/55	07:16 07:46-07:50/4 20:22 14:16-16:35/139	06:15 06:40-07:00/20 21:11 15:10-16:17/67	05:34 06:13-06:40/27 21:54
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6	08:49 16:54	08:16 09:24-10:04/40 17:44 08:47-09:09/22	07:21 13:43-15:23/100 07:44-08:07/23 18:33 09:15-10:07/52	07:12 14:16-16:34/138 20:25	06:11 06:40-07:00/20 21:14 15:16-16:14/58	05:33 06:14-06:41/27 21:55
7	08:48 16:55	08:14 09:25-10:05/40 17:45 08:47-09:09/22	07:19 13:41-15:24/103 07:43-08:05/22 18:35 09:16-10:06/50	07:10 14:16-16:34/138 20:27	06:09 06:40-07:00/20 21:16 15:20-16:13/53	05:32 06:14-06:41/27 21:56
8	08:48 16:56	08:13 09:24-10:07/43 17:47 08:49-09:09/20	07:17 13:40-15:26/106 07:54-08:04/10 18:37 09:17-10:04/47 07:45-07:51/6	07:08 14:16-16:34/138 20:28	06:08 06:39-06:59/20 21:17 15:23-16:11/48	05:32 06:15-06:42/27 21:57
9	08:47 16:58	08:11 09:22-10:08/46 17:49 08:49-09:09/20	07:15 13:38-15:26/108 18:38 09:18-10:01/43	07:05 14:17-16:34/137 20:30	06:06 06:40-06:59/19 21:19 15:26-16:10/44	05:31 06:15-06:41/26 21:58
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11	08:46 09:31-09:35/4 17:00	08:08 09:20-10:10/50 17:53 08:50-09:07/17	07:10 13:35-15:28/113 18:42 09:21-09:57/36	07:01 14:17-16:32/135 20:33	06:03 06:41-06:58/17 21:22 15:34-16:07/33	05:31 06:16-06:42/26 21:59
12	08:46 09:28-09:38/10 17:02	08:06 09:19-10:11/52 17:54 08:51-09:06/15	07:08 13:34-15:30/116 07:31-07:35/4 18:44 09:23-09:54/31	06:59 14:18-16:32/134 20:35	06:01 06:41-06:56/15 21:24 15:38-16:04/26	05:30 06:15-06:41/26 22:00
13	08:45 09:27-09:41/14 17:03	08:04 09:18-10:12/54 17:56 08:53-09:03/10	07:06 13:32-15:30/118 07:29-07:36/7 18:45 09:25-09:50/25	06:57 14:19-16:32/133 20:37	05:59 06:43-06:56/13 21:25 15:43-16:00/17	05:30 06:15-06:42/27 22:01
14	08:44 09:26-09:43/17 17:05	08:02 09:17-10:13/56 17:58	07:04 13:31-15:31/120 07:26-07:36/10 18:47 09:29-09:45/16	06:55 14:20-16:31/131 20:38	05:58 06:44-06:53/9 21:27	05:30 06:16-06:42/26 22:01
15	08:44 09:25-09:44/19 17:06	08:00 09:16-10:13/57 18:00	07:01 13:30-15:31/121 18:49 07:24-07:36/12	06:52 07:15-07:17/2 20:40 14:21-16:31/130	05:56 06:47-06:51/4 21:28	05:30 06:16-06:42/26 22:02
16	08:43 09:24-09:46/22 17:08	07:58 09:16-10:14/58 18:02	06:59 13:29-15:32/123 18:50 07:22-07:36/14	06:50 07:13-07:16/3 20:42 14:23-16:31/128	05:55 21:30	05:29 06:16-06:43/27 22:02
17	08:42 09:23-09:47/24 17:09	07:56 09:15-10:14/59 18:03	06:57 13:27-15:32/125 18:52 07:22-07:35/13	06:48 07:11-07:15/4 20:43 14:24-16:30/126	05:53 21:31	05:29 06:17-06:43/26 22:03
18	08:41 09:23-09:48/25 17:11	07:54 09:15-10:15/60 18:05	06:55 13:26-15:33/127 18:54 07:22-07:33/11	06:46 14:26-16:30/124 20:45	05:52 06:24-06:27/3 21:32	05:29 06:17-06:43/26 22:03
19	08:40 09:22-09:50/28 17:12	07:53 09:14-10:15/61 18:07	06:53 13:25-15:34/129 18:55 07:23-07:32/9	06:44 14:28-16:29/121 20:47	05:51 06:21-06:31/10 21:34	05:29 06:17-06:43/26 22:04
20	08:39 09:22-09:51/29 17:14	07:51 09:14-10:15/61 18:09	06:50 13:25-15:34/129 18:57	06:42 14:30-16:29/119 20:48	05:49 06:19-06:33/14 21:35	05:30 06:17-06:43/26 22:04
21	08:38 09:21-09:51/30 17:16	07:49 14:21-14:48/27 18:11 09:13-10:15/62	06:48 13:23-15:34/131 18:59	06:40 14:32-16:28/116 20:50	05:48 06:17-06:33/16 21:37	05:30 06:17-06:43/26 22:04
22	08:37 09:21-09:52/31 17:17	07:47 14:15-14:53/38 18:12 09:13-10:15/62	06:46 13:22-15:34/132 19:00	06:38 14:34-16:27/113 20:51	05:47 06:16-06:35/19 21:38	05:30 06:18-06:44/26 22:04
23	08:36 09:21-09:53/32 17:19	07:45 14:11-14:58/47 18:14 09:13-10:15/62	06:43 13:22-15:35/133 19:02	06:36 14:37-16:27/110 20:53	05:46 06:16-06:36/20 21:39	05:30 06:18-06:44/26 22:05
24	08:35 09:20-09:53/33 17:21	07:42 14:07-15:02/55 18:16 09:13-10:15/62	06:41 13:20-15:34/134 19:04	06:34 14:39-16:26/107 20:55	05:44 06:15-06:36/21 21:41	05:30 06:18-06:44/26 22:05
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26	08:32 09:21-09:55/34 17:24	07:38 14:01-15:08/67 08:02-08:04/2 18:19 09:13-10:15/62	06:37 13:19-15:35/136 19:07	06:30 14:45-16:24/99 20:58	05:42 06:14-06:37/23 21:43	05:31 06:19-06:45/26 22:05
27	08:31 09:20-09:55/35 17:26	07:36 13:57-15:10/73 08:00-08:07/7 18:21 09:12-10:13/61	06:34 06:57-07:01/4 19:09 13:19-15:36/137	06:28 14:48-16:23/95 21:00	05:41 06:14-06:38/24 21:45	05:32 06:18-06:44/26 22:05
28	08:30 09:21-09:56/35 17:28	07:34 13:55-15:13/78 07:57-08:07/10 18:23 09:13-10:13/60	06:32 06:55-07:02/7 19:10 13:18-15:35/137	06:26 14:51-16:22/91 21:01	05:40 06:13-06:38/25 21:46	05:32 06:19-06:45/26 22:05
29	08:28 09:20-09:55/35 17:29 08:54-09:02/8		07:30 07:52-08:01/9 20:12 14:18-16:35/137	06:24 06:48-06:56/8 21:03 14:55-16:22/87	05:39 06:14-06:39/25 21:47	05:33 06:20-06:46/26 22:05
30	08:27 09:21-09:56/35 17:31 08:53-09:04/11		07:28 07:50-08:01/11 20:14 14:17-16:35/138	06:22 06:46-06:57/11 21:05 14:58-16:21/83	05:38 06:14-06:40/26 21:48	05:33 06:19-06:46/27 22:04
31	08:25 09:21-09:56/35 17:33 08:51-09:05/14		07:25 07:48-08:01/13 20:15 14:17-16:36/139		05:37 06:14-06:40/26 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	594	2165	4583	3744	1189	791

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:20-06:46/26	06:09 06:52-07:07/15	06:57 14:17-16:32/135	07:44 14:12-16:09/117 08:09-08:15/6	07:36 08:51-09:39/48	08:26 09:13-09:17/4
	22:04	21:33 15:46-16:15/29	20:33	19:25 10:03-10:32/29	17:21 08:19-08:38/19	16:42
2	05:34 06:19-06:46/27	06:10 06:51-07:08/17	06:59 14:15-16:31/136	07:46 14:13-16:08/115 08:11-08:13/2	07:38 08:52-09:38/46	08:27
	22:04	21:32 15:42-16:17/35	20:31	19:23 10:01-10:35/34	17:19 08:18-08:39/21	16:41
3	05:35 06:20-06:46/26	06:12 06:50-07:09/19	07:00 14:15-16:32/137	07:48 14:14-16:06/112	07:40 08:53-09:36/43	08:29
	22:03	21:30 15:39-16:19/40	20:29	19:21 09:58-10:36/38	17:17 08:17-08:38/21	16:41
4	05:36 06:20-06:47/27	06:13 06:49-07:09/20	07:02 14:13-16:31/138	07:49 14:15-16:05/110	07:42 08:54-09:34/40	08:30
	22:03	21:29 15:35-16:21/46	20:27	19:19 09:56-10:38/42	17:16 08:17-08:39/22	16:40
5	05:37 06:20-06:46/26	06:15 06:50-07:09/19	07:03 14:13-16:31/138	07:51 14:16-16:03/107 08:32-08:39/7	07:43 08:54-09:33/39	08:31
	22:03	21:27 15:32-16:22/50	20:24	19:16 09:55-10:40/45 08:23-08:27/4	17:14 08:17-08:39/22	16:40
6	05:37 06:20-06:47/27	06:16 06:49-07:09/20	07:05 14:12-16:30/138	07:52 14:17-16:01/104 08:29-08:41/12	07:45 08:53-09:31/38	08:33
	22:02	21:25 15:28-16:23/55	20:22	19:14 09:53-10:41/48 08:20-08:28/8	17:12 08:18-08:39/21	16:39
7	05:38 06:20-06:47/27	06:18 06:50-07:10/20	07:06 14:11-16:30/139	07:54 14:18-16:00/102 08:19-08:42/23	07:47 08:53-09:29/36	08:34
	22:02	21:23 15:25-16:25/60	20:20	19:12 09:52-10:42/50	17:11 08:18-08:39/21	16:39
8	05:39 06:21-06:47/26	06:20 06:49-07:09/20	07:08 07:40-07:44/4	07:56 14:20-15:58/98 08:21-08:43/22	07:49 08:53-09:27/34	08:35
	22:01	21:22 15:21-16:25/64	20:18 14:10-16:29/139	19:10 09:51-10:44/53	17:09 08:19-08:39/20	16:39
9	05:40 06:21-06:48/27	06:21 06:50-07:09/19	07:10 07:38-07:51/13	07:57 14:20-15:56/96 08:22-08:43/21	07:50 08:52-09:27/35	08:36
	22:00	21:20 15:18-16:26/68	20:15 14:10-16:29/139	19:08 09:49-10:44/55	17:07 08:19-08:38/19	16:38
10	05:41 06:21-06:48/27	06:23 06:50-07:08/18	07:11 07:36-07:52/16	07:59 14:22-15:54/92 08:24-08:43/19	07:52 08:52-09:27/35	08:37
	22:00	21:18 15:15-16:27/72	20:13 14:09-16:28/139	19:05 09:48-10:45/57	17:06 08:21-08:38/17	16:38
11	05:42 06:22-06:48/26	06:24 06:51-07:07/16	07:13 07:38-07:53/15	08:01 14:24-15:52/88 08:26-08:43/17	07:54 08:53-09:28/35	08:38
	21:59	21:16 15:11-16:27/76	20:11 14:09-16:28/139	19:03 09:48-10:46/58	17:04 08:23-08:37/14	16:38
12	05:43 06:22-06:48/26	06:26 06:53-07:06/13	07:14 07:39-07:52/13	08:02 14:25-15:49/84 08:28-08:42/14	07:56 08:52-09:27/35	08:39
	21:58	21:14 15:08-16:29/81	20:09 14:08-16:27/139	19:01 09:46-10:45/59	17:03 08:24-08:35/11	16:38
13	05:44 06:22-06:48/26	06:27 06:54-07:04/10	07:16 07:41-07:53/12	08:04 14:27-15:47/80 08:29-08:41/12	07:57 08:52-09:27/35	08:40
	21:57	21:12 15:04-16:29/85	20:06 14:09-16:27/138	18:59 09:46-10:46/60	17:01 08:26-08:33/7	16:38
14	05:45 06:22-06:48/26	06:29 06:56-07:03/7	07:17 07:42-07:52/10	08:06 14:29-15:45/76 08:31-08:40/9	07:59 08:53-09:28/35	08:41
	21:56	21:11 15:01-16:30/89	20:04 14:08-16:26/138	18:57 09:46-10:46/60	17:00	16:38
15	05:46 06:23-06:48/25	06:30 14:57-16:30/93	07:19 07:44-07:51/7	08:07 14:32-15:42/70 08:33-08:38/5	08:01 08:53-09:28/35	08:42
	21:55	21:09	20:02 14:08-16:25/137	18:55 09:46-10:47/61	16:59	16:38
16	05:48 06:23-06:48/25	06:32 14:55-16:31/96	07:21 07:45-07:49/4	08:09 14:33-15:39/66	08:02 08:54-09:28/34	08:43
	21:54	21:07	19:59 14:07-16:24/137	18:52 09:44-10:46/62	16:57	16:38
17	05:49 06:23-06:47/24	06:33 14:51-16:31/100	07:22 14:08-16:24/136	08:11 14:36-15:35/59	08:04 08:54-09:28/34	08:44
	21:53	21:05	19:57	18:50 09:44-10:46/62	16:56	16:38
18	05:50 06:24-06:47/23	06:35 14:48-16:32/104	07:24 14:07-16:22/135	08:12 14:40-15:32/52	08:06 08:54-09:27/33	08:44
	21:52	21:03	19:55	18:48 09:44-10:47/63	16:55	16:39
19	05:51 06:24-06:46/22	06:37 14:44-16:32/108	07:25 14:08-16:22/134	08:14 14:43-15:28/45	08:07 08:55-09:27/32	08:45
	21:51	21:01	19:53	18:46 09:45-10:47/62	16:53	16:39
20	05:52 06:26-06:46/20	06:38 14:42-16:32/110	07:27 14:08-16:22/134	08:16 14:47-15:22/35	08:09 08:56-09:27/31	08:46
	21:50	20:59	19:50	18:44 09:45-10:47/62	16:52	16:39
21	05:54 06:27-06:46/19	06:40 14:39-16:32/113	07:28 14:08-16:20/132	08:17 14:54-15:16/22	08:11 08:57-09:27/30	08:46
	21:49	20:57	19:48	18:42 09:44-10:46/62	16:51	16:40
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	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:28-06:43/15	06:43 14:33-16:32/119	07:32 14:08-16:18/130	08:21 09:45-10:45/60	08:14 08:58-09:26/28	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:30-06:43/13	06:44 14:31-16:33/122	07:33 14:09-16:17/128	08:23 09:45-10:45/60	08:15 09:00-09:26/26	08:48
	21:45	20:50	19:41 08:08-08:14/6	18:36	16:48	16:41
25	05:59 06:32-06:40/8	06:46 07:14-07:15/1	07:35 14:09-16:16/127	07:24 08:46-09:45/59	08:17 09:01-09:25/24	08:48
	21:44	20:48 14:28-16:32/124	19:39 08:05-08:16/11	17:34	16:47	16:42
26	06:00	06:48 07:14-07:18/4	07:36 14:09-16:15/126	07:26 08:45-09:43/58	08:19 09:02-09:24/22	08:49
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27	06:02	06:49 07:15-07:18/3	07:38 14:10-16:14/124	07:28 08:46-09:43/57	08:20 09:04-09:24/20	08:49
	21:41	20:44 14:24-16:32/128	19:34 08:03-08:18/15	17:30	16:45	16:43
28	06:03	06:51 07:17-07:19/2	07:40 14:10-16:12/122	07:29 08:47-09:42/55	08:22 09:06-09:23/17	08:49
	21:40	20:42 14:23-16:33/130	19:32 08:04-08:17/13	17:28 08:25-08:30/5	16:44	16:44
29	06:05 06:56-07:03/7	06:52 14:21-16:32/131	07:41 14:11-16:12/121 08:06-08:17/11	07:31 08:48-09:41/53	08:23 09:07-09:21/14	08:49
	21:38	20:40	19:30 10:12-10:24/12	17:26 08:22-08:34/12	16:43	16:45
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	21:37 15:58-16:06/8	20:38	19:28 10:06-10:28/22	17:25 08:21-08:35/14	16:43	16:46
31	06:08 06:53-07:06/13	06:55 14:18-16:32/134		07:35 08:50-09:40/50		08:49
	21:35 15:51-16:12/21	20:35		17:23 08:20-08:37/17		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	643	3081	4211	3646	1188	4

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 18:25	07:23 19:46-19:51/5 20:17	06:20 21:06	05:36 21:15-21:19/4 21:51 21:06-21:13/7
2	08:50 16:49	08:23 17:36	07:30 17:59-18:01/2 18:27	07:21 19:46-19:53/7 20:19	06:18 21:08	05:36 21:16-21:20/4 21:52 21:08-21:13/5
3	08:50 16:50	08:21 17:38	07:28 17:54-18:03/9 18:28	07:19 19:46-19:55/9 20:20	06:16 21:10	05:35 21:16-21:21/5 21:53
4	08:49 16:51	08:20 17:40	07:26 17:52-18:05/13 18:30	07:17 19:48-19:57/9 20:22	06:15 21:11	05:34 21:16-21:21/5 21:54
5	08:49 16:53	08:18 17:42	07:24 17:49-18:06/17 18:32	07:14 19:50-19:58/8 20:24	06:13 21:13	05:34 21:17-21:23/6 21:55
6	08:49 16:54	08:16 17:44	07:22 17:48-18:08/20 18:33	07:12 19:52-19:59/7 20:25	06:11 21:14	05:33 21:17-21:23/6 21:56
7	08:48 16:55	08:15 17:45	07:19 17:48-18:10/22 18:35	07:10 19:51-20:01/10 20:27	06:09 21:16	05:32 21:18-21:24/6 21:57
8	08:48 16:56	08:13 17:47	07:17 17:47-18:12/25 18:37	07:08 19:52-20:03/11 20:29	06:08 21:18	05:32 21:18-21:25/7 21:57
9	08:48 16:58	08:11 17:49	07:15 17:47-18:12/25 18:39	07:06 19:52-20:05/13 20:30	06:06 21:19	05:31 21:18-21:26/8 21:58
10	08:47 16:59	08:09 17:51	07:13 17:46-18:12/26 18:40	07:03 19:53-20:06/13 20:32	06:04 21:21	05:31 21:18-21:27/9 21:59
11	08:47 17:00	08:08 17:53	07:11 17:46-18:12/26 18:42	07:01 19:53-20:03/10 20:34	06:03 21:22	05:31 21:18-21:28/10 22:00
12	08:46 17:02	08:06 17:55	07:08 17:46-18:11/25 18:44	06:59 19:55-20:01/6 20:35	06:01 21:24	05:30 21:17-21:27/10 22:00
13	08:45 17:03	08:04 17:56	07:06 17:46-18:11/25 18:45	06:57 20:37	05:59 21:25	05:30 21:17-21:28/11 22:01
14	08:45 17:05	08:02 17:58	07:04 17:46-18:09/23 18:47	06:55 20:39	05:58 21:27	05:30 21:18-21:29/11 22:02
15	08:44 17:06	08:00 18:00	07:02 17:47-18:08/21 18:49	06:53 20:40	05:56 21:28	05:30 21:18-21:29/11 22:02
16	08:43 17:08	07:58 18:02	06:59 17:49-18:07/18 18:50	06:50 20:42	05:55 21:30	05:30 21:18-21:30/12 22:03
17	08:42 17:09	07:57 18:04	06:57 17:50-18:04/14 18:52	06:48 20:43	05:54 21:31	05:29 21:18-21:30/12 22:03
18	08:41 17:11	07:55 18:05	06:55 17:53-18:01/8 18:54	06:46 20:45	05:52 21:02-21:03/1 21:33	05:29 21:18-21:31/13 22:04
19	08:40 17:12	07:53 18:07	06:53 18:29-18:31/2 18:56	06:44 20:47	05:51 21:02-21:04/2 21:34	05:30 21:18-21:31/13 22:04
20	08:39 17:14	07:51 18:09	06:50 18:29-18:32/3 18:57	06:42 20:48	05:49 21:02-21:06/4 21:36	05:30 21:18-21:31/13 22:04
21	08:38 17:16	07:49 18:11	06:48 18:27-18:33/6 18:59	06:40 20:50	05:48 21:01-21:06/5 21:37	05:30 21:18-21:31/13 22:04
22	08:37 17:17	07:47 18:12	06:46 18:27-18:35/8 19:01	06:38 20:52	05:47 21:01-21:07/6 21:38	05:30 21:19-21:32/13 22:05
23	08:36 17:19	07:45 18:14	06:44 18:28-18:37/9 19:02	06:36 20:53	05:46 21:01-21:09/8 21:40	05:30 21:19-21:32/13 22:05
24	08:35 17:21	07:43 18:16	06:41 18:28-18:38/10 19:04	06:34 20:55	05:44 21:01-21:10/9 21:41	05:30 21:19-21:32/13 22:05
25	08:34 17:22	07:41 18:18	06:39 18:30-18:36/6 19:06	06:32 20:57	05:43 21:01-21:11/10 21:42	05:31 21:20-21:33/13 22:05
26	08:32 17:24	07:39 18:20	06:37 19:07	06:30 20:58	05:42 21:02-21:12/10 21:44	05:31 21:20-21:32/12 22:05
27	08:31 17:26	07:36 18:21	06:35 19:09	06:28 21:00	05:41 21:02-21:13/11 21:45	05:32 21:20-21:32/12 22:05
28	08:30 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:02-21:14/12 21:46	05:32 21:21-21:32/11 22:05
29	08:28 17:29		07:30 20:12	06:24 21:03	05:39 21:04-21:16/12 21:47	05:33 21:21-21:32/11 22:05
30	08:27 17:31		07:28 19:47-19:49/2 20:14	06:22 21:05	05:38 21:16-21:17/1 21:48 21:04-21:15/11	05:33 21:21-21:32/11 22:05
31	08:26 17:33		07:26 19:47-19:50/3 20:15		05:37 21:15-21:18/3 21:50 21:05-21:14/9	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	0	0	368	108	114	310

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

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Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 21:22-21:32/10	06:09	06:57 19:53-20:03/10	07:45 18:25-18:50/25	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 21:22-21:31/9	06:11	06:59 19:51-20:03/12	07:46 18:25-18:50/25	07:38	08:28
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 21:23-21:31/8	06:12	07:00 19:50-20:03/13	07:48 18:23-18:49/26	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 21:24-21:31/7	06:14	07:02 19:49-20:00/11	07:49 18:24-18:49/25	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 21:23-21:30/7	06:15	07:03 19:49-19:58/9	07:51 18:24-18:49/25	07:44	08:32
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 21:23-21:30/7	06:17	07:05 19:48-19:55/7	07:53 18:23-18:47/24	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 21:23-21:29/6	06:18	07:07 19:46-19:54/8	07:54 18:24-18:45/21	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 21:23-21:29/6	06:20	07:08 19:42-19:51/9	07:56 18:25-18:43/18	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 21:24-21:29/5	06:21	07:10 19:41-19:49/8	07:58 18:25-18:40/15	07:51	08:36
	22:01	21:20	20:16	19:08	17:07	16:39
10	05:41 21:24-21:28/4	06:23	07:11 19:39-19:46/7	07:59 18:27-18:38/11	07:52	08:37
	22:00 21:16-21:20/4	21:18	20:13	19:05	17:06	16:38
11	05:42 21:24-21:27/3	06:24	07:13 19:39-19:45/6	08:01 18:30-18:36/6	07:54	08:39
	21:59 21:15-21:21/6	21:16	20:11	19:03	17:04	16:38
12	05:43 21:24-21:27/3	06:26	07:14 19:38-19:42/4	08:02	07:56	08:40
	21:58 21:14-21:22/8	21:15	20:09	19:01	17:03	16:38
13	05:44 21:24-21:26/2	06:27	07:16 19:39-19:40/1	08:04	07:57	08:41
	21:57 21:13-21:23/10	21:13	20:06	18:59	17:01	16:38
14	05:45 21:13-21:25/12	06:29	07:18	08:06	07:59	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 21:12-21:24/12	06:30	07:19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 21:12-21:23/11	06:32	07:21	08:09	08:03	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 21:11-21:22/11	06:34	07:22	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 21:11-21:21/10	06:35	07:24 19:18-19:23/5	08:13	08:06	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 21:11-21:20/9	06:37	07:25 19:16-19:26/10	08:14	08:08	08:45
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20	05:52 21:10-21:19/9	06:38	07:27 19:15-19:24/9	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:11-21:19/8	06:40	07:29 19:13-19:21/8	08:18	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 21:11-21:17/6	06:41	07:30 19:13-19:20/7	08:19	08:12	08:47
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23	05:56 21:11-21:16/5	06:43	07:32 19:12-19:17/5	08:21	08:14	08:48
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25	05:59 21:12-21:14/2	06:46	07:35 18:38-18:41/3	07:24	08:17	08:49
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:33-18:46/13	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:31-18:48/17	07:28	08:20	08:49
	21:41	20:44	19:35	17:30	16:45	16:43
28	06:03	06:51	07:40 18:29-18:48/19	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 18:27-18:50/23	07:31	08:23	08:50
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 18:26-18:49/23	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:55-20:01/6		07:35		08:50
	21:35	20:36		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	203	6	249	221	0	0

Table layout: For each day in each month the following matrix apply

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	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
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Operational time

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Idle start wind speed: Cut in wind speed from power curve

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1	08:50 16:48	08:24 16:59-17:05/6 17:35	07:32 17:57-17:59/2 18:25	07:23 20:17	06:20 20:36-20:38/2 21:06	05:36 21:51
2	08:50 16:49	08:23 16:58-17:07/9 17:36	07:30 17:57-18:01/4 18:27	07:21 20:19	06:18 20:35-20:40/5 21:08	05:36 21:52
3	08:50 16:50	08:21 16:57-17:09/12 17:38	07:28 17:57-18:03/6 18:28	07:19 20:20	06:16 20:35-20:41/6 21:10	05:35 21:53
4	08:49 16:51	08:20 16:57-17:11/14 17:40	07:26 17:58-18:05/7 18:30	07:17 20:22	06:15 20:36-20:43/7 21:11	05:34 21:54
5	08:49 16:53	08:18 16:56-17:13/17 17:42	07:24 17:58-18:06/8 18:32	07:14 20:24	06:13 20:37-20:44/7 21:13	05:34 21:55
6	08:49 16:54	08:16 16:56-17:15/19 17:44	07:22 18:00-18:05/5 18:33	07:12 20:25	06:11 20:38-20:44/6 21:14	05:33 21:56
7	08:48 16:55	08:15 16:56-17:16/20 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:57
8	08:48 16:56	08:13 16:57-17:18/21 17:47	07:17 18:37	07:08 20:29	06:08 21:18	05:32 21:57
9	08:48 16:58	08:11 16:57-17:17/20 17:49	07:15 18:39	07:06 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 16:57-17:17/20 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 21:59
11	08:47 17:00	08:08 16:58-17:16/18 17:53	07:11 18:42	07:01 20:34	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 16:59-17:15/16 17:55	07:08 18:16-18:19/3 18:44	06:59 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 17:01-17:13/12 17:56	07:06 18:15-18:20/5 18:45	06:57 20:37	06:00 21:25	05:30 22:01
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15	08:44 17:06	08:00 18:00	07:02 18:16-18:24/8 18:49	06:53 20:09-20:14/5 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 18:02	06:59 18:16-18:26/10 18:50	06:50 20:07-20:15/8 20:42	05:55 21:30	05:30 22:03
17	08:42 17:09	07:57 18:04	06:57 18:16-18:27/11 18:52	06:48 20:06-20:17/11 20:43	05:54 21:31	05:30 22:03
18	08:41 17:11	07:55 18:05	06:55 18:17-18:28/11 18:54	06:46 20:04-20:19/15 20:45	05:52 21:33	05:30 22:04
19	08:40 17:12	07:53 18:07	06:53 18:19-18:26/7 18:56	06:44 20:04-20:20/16 20:47	05:51 21:34	05:30 22:04
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31	08:26 16:59-17:03/4 17:33		07:26 20:15		05:37 21:50	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	4	212	93	281	33	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59		07:46	18:55-18:56/1	07:38	16:27-16:47/20	08:28
	22:04	21:32		20:31		19:23		17:19		16:42
3	05:35	06:12		07:00		07:48		07:40	16:26-16:47/21	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02		07:49		07:42	16:25-16:46/21	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03		07:51		07:44	16:26-16:44/18	08:32
	22:03	21:27		20:24		19:17		17:14		16:40
6	05:38	06:17	20:50-20:53/3	07:05		07:53		07:45	16:26-16:42/16	08:33
	22:02	21:25		20:22		19:14		17:12		16:40
7	05:38	06:18	20:48-20:55/7	07:07		07:54		07:47	16:27-16:41/14	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20	20:46-20:53/7	07:08		07:56	18:35-18:42/7	07:49	16:27-16:39/12	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21	20:45-20:51/6	07:10		07:58	18:32-18:40/8	07:51	16:28-16:38/10	08:36
	22:00	21:20		20:16		19:08		17:07		16:39
10	05:41	06:23	20:45-20:50/5	07:11		07:59	18:32-18:38/6	07:52	16:30-16:36/6	08:37
	22:00	21:18		20:13		19:05		17:06		16:38
11	05:42	06:24	20:44-20:48/4	07:13		08:01	18:31-18:36/5	07:54	16:31-16:35/4	08:38
	21:59	21:16		20:11		19:03		17:04		16:38
12	05:43	06:26	20:44-20:46/2	07:14		08:02	18:30-18:33/3	07:56		08:40
	21:58	21:15	20:19-20:22/3	20:09		19:01		17:03		16:38
13	05:44	06:27	20:15-20:25/10	07:16		08:04		07:57		08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29	20:13-20:28/15	07:18		08:06		07:59		08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30	20:11-20:28/17	07:19		08:07		08:01		08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32	20:10-20:32/22	07:21		08:09		08:03		08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34	20:09-20:34/25	07:22		08:11		08:04		08:44
	21:54	21:05		19:57		18:50		16:56		16:39
18	05:50	06:35	20:09-20:35/26	07:24		08:13		08:06		08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37	20:07-20:33/26	07:25		08:14		08:08		08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:53	06:38	20:08-20:32/24	07:27		08:16		08:09		08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40	20:07-20:29/22	07:29		08:18		08:11		08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41	20:07-20:28/21	07:30		08:19		08:12		08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43	20:07-20:25/18	07:32		08:21		08:14		08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45	20:07-20:24/17	07:33	19:04-19:08/4	08:23		08:16		08:48
	21:45	20:51		19:41		18:36		16:48		16:41
25	05:59	06:46	20:07-20:21/14	07:35	19:00-19:10/10	07:24		08:17		08:49
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:01	06:48	20:09-20:20/11	07:37	18:59-19:10/11	07:26		08:19		08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49	20:09-20:17/8	07:38	18:58-19:08/10	07:28		08:20		08:49
	21:41	20:44		19:35		17:30		16:45		16:43
28	06:03	06:51	20:11-20:15/4	07:40	18:57-19:05/8	07:30	16:32-16:41/9	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52		07:41	18:57-19:03/6	07:31	16:30-16:43/13	08:23		08:50
	21:38	20:40		19:30		17:27		16:44		16:45
30	06:06	06:54		07:43	18:55-19:00/5	07:33	16:28-16:45/17	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56				07:35	16:28-16:46/18			08:50
	21:35	20:36				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	317		54		90		162		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:24-06:41/17	05:34 06:37-06:41/4	06:09	06:57 07:26-07:29/3	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04 06:04-06:10/6	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35 06:25-06:41/16	05:34 06:35-06:41/6	06:10	06:59 07:24-07:30/6	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04 06:04-06:09/5	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:25-06:40/15	05:35 06:35-06:43/8	06:12	07:00 07:26-07:31/5	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04 06:05-06:09/4	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:25-06:40/15	05:36 06:35-06:44/9	06:13	07:02 07:27-07:31/4	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03 06:06-06:09/3	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:27-06:40/13	05:36 06:33-06:44/11	06:15	07:03 07:29-07:30/1	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03 06:06-06:07/1	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:27-06:39/12	05:37 06:33-06:45/12	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:33/1	06:09	05:32 06:28-06:39/11	05:38 06:33-06:46/13	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08 07:30-07:34/4	06:07	05:32 06:28-06:38/10	05:39 06:33-06:47/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57 06:00-06:02/2	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05 07:28-07:33/5	06:06	05:31 06:29-06:38/9	05:40 06:33-06:48/15	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58 06:00-06:03/3	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03 07:26-07:32/6	06:04	05:31 06:31-06:37/6	05:41 06:33-06:48/15	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59 06:00-06:04/4	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01 07:27-07:30/3	06:02	05:30 06:31-06:36/5	05:42 06:32-06:49/17	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00 05:59-06:04/5	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:33-06:35/2	05:43 06:32-06:49/17	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00 05:59-06:05/6	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:06/7	05:44 06:32-06:50/18	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:29-06:34/5	05:30 05:59-06:06/7	05:45 06:32-06:50/18	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:27-06:37/10	05:29 05:59-06:07/8	05:46 06:32-06:51/19	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:26-06:38/12	05:29 05:59-06:07/8	05:47 06:32-06:51/19	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:24-06:39/15	05:29 05:59-06:07/8	05:49 06:31-06:51/20	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52 06:24-06:40/16	05:29 05:59-06:07/8	05:50 06:31-06:51/20	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51 06:23-06:40/17	05:29 05:59-06:08/9	05:51 06:31-06:51/20	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:23-06:41/18	05:29 05:59-06:08/9	05:52 06:31-06:51/20	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:22-06:41/19	05:30 05:59-06:08/9	05:54 06:32-06:52/20	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47 06:22-06:41/19	05:30 06:00-06:09/9	05:55 06:32-06:51/19	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:22-06:41/19	05:30 06:00-06:09/9	05:56 06:32-06:51/19	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44 06:22-06:42/20	05:30 06:00-06:09/9	05:58 06:33-06:50/17	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43 06:22-06:42/20	05:31 06:01-06:09/8	05:59 06:34-06:51/17	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:22-06:42/20	05:31 06:01-06:09/8	06:00 06:34-06:50/16	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:22-06:42/20	05:31 06:01-06:09/8	06:02 06:35-06:49/14	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:22-06:41/19	05:32 06:02-06:09/7	06:03 06:37-06:48/11	06:51	07:40	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:22-06:41/19	05:32 06:02-06:09/7	06:05 06:38-06:46/8	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:23-06:42/19	05:33 06:03-06:09/6	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:24-06:41/17		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	19	304	295	455	0	19	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34 06:25-06:37/12	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35	05:34 06:26-06:36/10	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35 06:27-06:36/9	06:12	07:00 07:31-07:38/7	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16 07:39-07:42/3	06:14	05:34	05:36 06:29-06:35/6	06:13	07:02 07:29-07:38/9	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14 07:37-07:43/6	06:13	05:33	05:36	06:15	07:03 07:29-07:39/10	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12 07:34-07:42/8	06:11	05:33	05:37	06:16	07:05 07:30-07:38/8	07:52	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:42/10	06:09	05:32	05:38	06:18	07:06 07:32-07:38/6	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08 07:32-07:41/9	06:07	05:32 06:24-06:27/3	05:39	06:19	07:08 07:33-07:37/4	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05 07:33-07:40/7	06:06	05:31 06:22-06:30/8	05:40	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:22-06:31/9	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:20-06:32/12	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:20-06:33/13	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:20-06:34/14	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 06:20-06:34/14	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 06:20-06:35/15	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 06:20-06:36/16	05:47	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 06:20-06:36/16	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29 06:20-06:36/16	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29 06:20-06:37/17	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 06:20-06:37/17	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30 06:20-06:37/17	05:54	06:40	07:28	08:17	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:21-06:38/17	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:21-06:38/17	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30 06:21-06:38/17	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31 06:21-06:37/16	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:22-06:38/16	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31 06:22-06:37/15	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32 06:23-06:38/15	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32 06:23-06:37/14	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33 06:24-06:37/13	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	43	0	327	37	0	44	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 18:54-19:56/62	05:34 18:58-20:06/68	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18	05:36 18:55-19:57/62	05:34 18:58-20:05/67	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 18:54-19:57/63	05:35 18:59-20:06/67	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:15	05:34 18:54-19:58/64	05:36 18:59-20:06/67	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 18:54-19:59/65	05:37 18:59-20:05/66	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 18:54-19:59/65	05:37 19:00-20:05/65	06:16	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:15	07:19	07:10	06:09	05:32 18:54-20:00/66	05:38 19:00-20:05/65	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32 18:53-20:00/67	05:39 19:01-20:05/64	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 18:54-20:00/66	05:40 19:02-20:05/63	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 18:54-20:01/67	05:41 19:02-20:05/63	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:03	05:30 18:53-20:01/68	05:42 19:03-20:04/61	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 18:54-20:01/67	05:43 19:03-20:04/61	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 18:54-20:02/68	05:44 19:04-20:04/60	06:27	07:16 08:13-08:17/4	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58 19:16-19:30/14	05:30 18:54-20:02/68	05:45 19:04-20:03/59	06:29	07:17 08:09-08:20/11	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56 19:12-19:35/23	05:30 18:54-20:03/69	05:46 19:05-20:02/57	06:30	07:19 08:07-08:22/15	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 19:10-19:38/28	05:29 18:54-20:03/69	05:47 19:06-20:02/56	06:32	07:21 08:05-08:22/17	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 19:07-19:39/32	05:29 18:55-20:03/68	05:49 19:06-20:01/55	06:33	07:22 08:04-08:23/19	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55 07:24-07:32/8	06:46	05:52 19:05-19:41/36	05:29 18:55-20:04/69	05:50 19:07-20:00/53	06:35	07:24 08:03-08:23/20	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53 07:21-07:35/14	06:44	05:51 19:04-19:43/39	05:29 18:55-20:04/69	05:51 19:08-19:59/51	06:37	07:25 08:03-08:23/20	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50 07:20-07:36/16	06:42	05:49 19:03-19:45/42	05:29 18:55-20:04/69	05:52 19:08-19:58/50	06:38	07:27 08:03-08:23/20	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48 07:18-07:36/18	06:40	05:48 19:01-19:45/44	05:30 18:55-20:04/69	05:54 19:10-19:58/48	06:40	07:28 08:02-08:22/20	08:17	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46 07:17-07:36/19	06:38	05:47 19:00-19:47/47	05:30 18:56-20:05/69	05:55 19:11-19:57/46	06:41	07:30 08:03-08:22/19	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44 07:16-07:37/21	06:36	05:45 18:59-19:48/49	05:30 18:56-20:05/69	05:56 19:12-19:55/43	06:43	07:32 08:03-08:20/17	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41 07:16-07:37/21	06:34	05:44 18:58-19:49/51	05:30 18:56-20:05/69	05:58 19:13-19:54/41	06:44	07:33 08:04-08:19/15	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39 07:15-07:35/20	06:32	05:43 18:58-19:50/52	05:31 18:56-20:05/69	05:59 19:15-19:53/38	06:46	07:35 08:06-08:16/10	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37 07:16-07:35/19	06:30	05:42 18:57-19:51/54	05:31 18:57-20:05/68	06:00 19:16-19:51/35	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34 07:16-07:34/18	06:28	05:41 18:57-19:52/55	05:31 18:56-20:05/69	06:02 19:18-19:49/31	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32 07:16-07:32/16	06:26	05:40 18:56-19:52/56	05:32 18:57-20:06/69	06:03 19:21-19:47/26	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30 08:18-08:30/12	06:24	05:39 18:55-19:53/58	05:32 18:57-20:05/68	06:05 19:24-19:44/20	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28 08:21-08:27/6	06:22	05:38 18:56-19:55/59	05:33 18:58-20:06/68	06:06 19:28-19:38/10	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37 18:55-19:55/60		06:08	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	208	0	799	2018	1556	0	207	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32	08:20-08:33/13	07:23	19:02-19:30/28	06:20		05:36	06:04-06:06/2
	16:48	17:35	18:25		20:17		21:06		21:51	
2	08:50	08:23	07:30	08:18-08:35/17	07:21	19:02-19:31/29	06:18	20:20-20:26/6	05:36	06:04-06:07/3
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28	08:16-08:37/21	07:19	19:01-19:31/30	06:16	20:17-20:29/12	05:35	06:03-06:06/3
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26	08:14-08:39/25	07:17	19:01-19:31/30	06:15	20:16-20:31/15	05:34	06:02-06:06/4
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24	08:11-08:39/28	07:14	19:01-19:31/30	06:13	20:14-20:32/18	05:33	06:02-06:06/4
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21	08:10-08:40/30	07:12	19:01-19:30/29	06:11	20:13-20:33/20	05:33	06:01-06:05/4
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19	08:09-08:41/32	07:10	19:01-19:29/28	06:09	20:12-20:34/22	05:32	06:01-06:05/4
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	08:09-08:41/32	07:08	19:02-19:28/26	06:08	20:11-20:34/23	05:32	06:02-06:05/3
	16:56	17:47	18:37		20:29		21:17		21:57	
9	08:48	08:11	07:15	08:08-08:41/33	07:05	19:02-19:28/26	06:06	20:11-20:35/24	05:31	
	16:57	17:49	18:39		20:30		21:19		21:58	
10	08:47	08:09	07:13	08:07-08:41/34	07:03	19:03-19:26/23	06:04	20:10-20:35/25	05:31	
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:46	08:08	07:10	08:07-08:41/34	07:01	19:04-19:24/20	06:03	20:11-20:36/25	05:31	
	17:00	17:53	18:42		20:33		21:22		22:00	
12	08:46	08:06	07:08	08:07-08:40/33	06:59	19:06-19:22/16	06:01	20:10-20:36/26	05:30	
	17:02	17:54	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	08:07-08:40/33	06:57	19:08-19:20/12	05:59	20:11-20:36/25	05:30	
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	08:07-08:39/32	06:55		05:58	20:10-20:36/26	05:30	
	17:05	17:58	18:47		20:38		21:27		22:02	
15	08:44	08:00	07:02	08:07-08:38/31	06:52		05:56	20:11-20:36/25	05:30	
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	08:08-08:37/29	06:50		05:55	20:11-20:36/25	05:29	
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	08:08-08:35/27	06:48		05:53	20:11-20:35/24	05:29	
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	08:09-08:33/24	06:46		05:52	20:12-20:35/23	05:29	
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:53	08:11-08:31/20	06:44		05:51	20:12-20:35/23	05:29	
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50	08:13-08:29/16	06:42		05:49	20:13-20:34/21	05:30	
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48	08:15-08:24/9	06:40		05:48	20:13-20:33/20	05:30	
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46		06:38		05:47	20:14-20:32/18	05:30	
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:44		06:36		05:46	20:16-20:32/16	05:30	
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41		06:34		05:44	20:17-20:31/14	05:30	
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:41	06:39		06:32		05:43	20:18-20:30/12	05:31	
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37	18:15-18:22/7	06:30		05:42	20:20-20:28/8	05:31	
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34	18:11-18:25/14	06:28		05:41	20:22-20:26/4	05:32	
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32	18:08-18:26/18	06:26		05:40		05:32	
	17:28	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	19:06-19:28/22	06:24		05:39		05:33	
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	19:05-19:30/25	06:22		05:38		05:33	
	17:31		20:14		21:05		21:48		22:04	
31	08:26		07:25	19:04-19:31/27			05:37	06:05-06:06/1		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	666		327		501		27	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34		06:09	20:21-20:46/25	06:57	19:04-19:24/20	07:44	08:46-09:19/33	07:37	08:26
	22:04		21:34		20:33		19:25		17:21	16:42
2	05:34		06:10	20:20-20:45/25	06:59	19:01-19:24/23	07:46	08:46-09:19/33	07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35		06:12	20:21-20:46/25	07:00	19:00-19:26/26	07:48	08:45-09:19/34	07:40	08:29
	22:04		21:30		20:29		19:21		17:17	16:41
4	05:36		06:13	20:21-20:45/24	07:02	18:59-19:25/26	07:49	08:45-09:18/33	07:42	08:30
	22:03		21:29		20:27		19:19		17:16	16:40
5	05:37	06:07-06:11/4	06:15	20:22-20:45/23	07:03	18:58-19:26/28	07:51	08:46-09:18/32	07:44	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37	06:07-06:11/4	06:16	20:22-20:43/21	07:05	18:57-19:26/29	07:53	08:45-09:17/32	07:45	08:33
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38	06:08-06:12/4	06:18	20:23-20:43/20	07:06	18:57-19:26/29	07:54	08:46-09:16/30	07:47	08:34
	22:02		21:24		20:20		19:12		17:11	16:39
8	05:39	06:09-06:13/4	06:20	20:24-20:41/17	07:08	18:55-19:25/30	07:56	08:47-09:15/28	07:49	08:35
	22:01		21:22		20:18		19:10		17:09	16:39
9	05:40	06:10-06:13/3	06:21	20:25-20:39/14	07:10	18:56-19:25/29	07:57	08:47-09:13/26	07:50	08:36
	22:00		21:20		20:15		19:08		17:07	16:38
10	05:41	06:11-06:14/3	06:23	20:27-20:37/10	07:11	18:55-19:24/29	07:59	08:49-09:12/23	07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42	06:12-06:14/2	06:24		07:13	18:55-19:23/28	08:01	08:51-09:11/20	07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43	06:13-06:15/2	06:26		07:14	18:55-19:22/27	08:02	08:53-09:09/16	07:56	08:39
	21:58		21:14		20:09		19:01		17:03	16:38
13	05:44	06:14-06:15/1	06:27		07:16	18:56-19:21/25	08:04	08:56-09:04/8	07:57	08:40
	21:57		21:13		20:06		18:59		17:01	16:38
14	05:45		06:29		07:17	18:56-19:19/23	08:06		07:59	08:41
	21:56		21:11		20:04		18:57		17:00	16:38
15	05:46		06:30		07:19	18:58-19:17/19	08:07		08:01	08:42
	21:56		21:09		20:02		18:55		16:59	16:38
16	05:48		06:32		07:21	18:59-19:14/15	08:09		08:02	08:43
	21:55		21:07		20:00		18:52		16:57	16:38
17	05:49	20:30-20:37/7	06:33		07:22	19:02-19:11/9	08:11		08:04	08:44
	21:54		21:05		19:57		18:50		16:56	16:38
18	05:50	20:28-20:39/11	06:35		07:24		08:12		08:06	08:45
	21:52		21:03		19:55		18:48		16:55	16:39
19	05:51	20:27-20:40/13	06:37		07:25		08:14		08:07	08:45
	21:51		21:01		19:53		18:46		16:53	16:39
20	05:52	20:26-20:41/15	06:38		07:27		08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54	20:26-20:43/17	06:40		07:28		08:18		08:11	08:47
	21:49		20:57		19:48		18:42		16:51	16:40
22	05:55	20:24-20:43/19	06:41		07:30	09:03-09:07/4	08:19		08:12	08:47
	21:48		20:55		19:46		18:40		16:50	16:40
23	05:56	20:23-20:44/21	06:43		07:32	08:57-09:11/14	08:21		08:14	08:48
	21:47		20:53		19:44		18:38		16:49	16:41
24	05:58	20:22-20:44/22	06:44		07:33	08:55-09:14/19	08:23		08:16	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59	20:23-20:45/22	06:46		07:35	08:52-09:15/23	07:24		08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00	20:22-20:45/23	06:48		07:36	08:51-09:17/26	07:26		08:19	08:49
	21:43		20:46		19:37		17:32		16:46	16:43
27	06:02	20:21-20:46/25	06:49		07:38	08:50-09:18/28	07:28		08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03	20:22-20:46/24	06:51		07:40	08:48-09:18/30	07:30		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:05	20:21-20:46/25	06:52		07:41	08:48-09:19/31	07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06	20:20-20:46/26	06:54	19:09-19:21/12	07:43	08:46-09:19/33	07:33		08:25	08:50
	21:37		20:38		19:28		17:25		16:43	16:46
31	06:08	20:21-20:47/26	06:55	19:05-19:22/17			07:35			08:50
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	323		233		623		348		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:51-11:38/47	08:24 11:17-11:28/11	07:32	07:23 19:39-19:49/10	06:20 19:47-20:12/25	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 10:51-11:38/47	08:23	07:30	07:21 19:38-19:51/13	06:18 19:47-20:11/24	05:36 06:04-06:06/2
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 10:52-11:39/47	08:21	07:28	07:19 19:37-19:52/15	06:16 19:47-20:10/23	05:35 06:03-06:06/3
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49 10:52-11:39/47	08:19	07:26	07:17 19:36-19:53/17	06:15 19:49-20:10/21	05:34 06:02-06:06/4
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:52-11:40/48	08:18	07:24	07:14 19:36-19:53/17	06:13 19:50-20:09/19	05:33 06:02-06:06/4
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 10:52-11:40/48	08:16	07:21 17:59-18:02/3	07:12 19:34-19:52/18	06:11 19:50-20:07/17	05:33 06:01-06:06/5
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 10:53-11:41/48	08:15	07:19 17:56-18:06/10	07:10 19:35-19:51/16	06:09 19:53-20:06/13	05:32 06:01-06:07/6
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 10:53-11:41/48	08:13	07:17 17:54-18:08/14	07:08 19:35-19:51/16	06:08 19:54-20:04/10	05:32 06:01-06:07/6
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:48 10:54-11:42/48	08:11	07:15 17:52-18:08/16	07:05 19:36-19:50/14	06:06	05:31 06:00-06:07/7
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 10:54-11:42/48	08:09	07:13 17:51-18:09/18	07:03 19:38-19:48/10	06:04	05:31 06:00-06:07/7
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 10:54-11:42/48	08:08	07:10 17:51-18:09/18	07:01 19:39-19:44/5	06:03	05:31 06:00-06:08/8
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46 10:56-11:43/47	08:06	07:08 17:51-18:09/18	06:59	06:01	05:30 05:59-06:07/8
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 10:56-11:43/47	08:04	07:06 17:50-18:08/18	06:57	05:59	05:30 05:59-06:07/8
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 10:56-11:43/47	08:02	07:04 17:51-18:08/17	06:55	05:58	05:30 05:59-06:08/9
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 10:57-11:43/46	08:00	07:02 17:52-18:07/15	06:52	05:56	05:30 05:59-06:08/9
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 10:57-11:43/46	07:58	06:59 17:53-18:06/13	06:50	05:55	05:29 05:59-06:08/9
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 10:58-11:44/46	07:57	06:57 17:55-18:02/7	06:48	05:53	05:29 05:59-06:08/9
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 10:58-11:44/46	07:55	06:55	06:46	05:52	05:29 05:59-06:08/9
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 10:59-11:44/45	07:53	06:53	06:44 19:56-20:06/10	05:51	05:29 05:59-06:08/9
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:00-11:44/44	07:51	06:50	06:42 19:53-20:09/16	05:49	05:30 05:59-06:08/9
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:00-11:43/43	07:49	06:48	06:40 19:52-20:10/18	05:48	05:30 05:59-06:08/9
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 11:01-11:43/42	07:47	06:46	06:38 19:50-20:11/21	05:47	05:30 06:00-06:09/9
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 11:02-11:43/41	07:45	06:44	06:36 19:49-20:12/23	05:46	05:30 06:00-06:09/9
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 11:03-11:43/40	07:43	06:41	06:34 19:48-20:13/25	05:44	05:30 06:00-06:09/9
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 11:03-11:41/38	07:41	06:39	06:32 19:47-20:13/26	05:43	05:31 06:01-06:10/9
	17:22	18:18	19:05	20:57	21:42	22:05
26	08:32 11:05-11:41/36	07:38	06:37	06:30 19:47-20:13/26	05:42	05:31 06:01-06:10/9
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 11:06-11:39/33	07:36	06:35	06:28 19:46-20:13/27	05:41	05:32 06:02-06:11/9
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 11:07-11:39/32	07:34	06:32	06:26 19:46-20:13/27	05:40	05:32 06:02-06:11/9
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 11:08-11:37/29		07:30	06:24 19:47-20:13/26	05:39	05:33 06:03-06:11/8
	17:29		20:12	21:03	21:47	22:05
30	08:27 11:11-11:35/24		07:28	06:22 19:47-20:13/26	05:38	05:33 06:03-06:11/8
	17:31		20:14	21:05	21:48	22:04
31	08:26 11:13-11:32/19		07:25 19:44-19:47/3		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1315	11	170	422	152	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34 22:04	06:04-06:12/8	06:09 21:34		06:57 20:33	19:39-19:44/5	07:44 19:25	18:30-18:48/18	07:37 17:21		08:26 16:42	10:36-11:24/48
2	05:34 22:04	06:04-06:12/8	06:10 21:32		06:59 20:31	19:36-19:46/10	07:46 19:23	18:30-18:48/18	07:38 17:19		08:27 16:41	10:37-11:25/48
3	05:35 22:04	06:05-06:12/7	06:12 21:30		07:00 20:29	19:34-19:48/14	07:48 19:21	18:29-18:47/18	07:40 17:17		08:29 16:41	10:37-11:25/48
4	05:36 22:03	06:06-06:13/7	06:13 21:29	20:07-20:11/4	07:02 20:27	19:32-19:48/16	07:49 19:19	18:30-18:46/16	07:42 17:16		08:30 16:40	10:38-11:26/48
5	05:37 22:03	06:07-06:13/6	06:15 21:27	20:04-20:15/11	07:03 20:24	19:32-19:48/16	07:51 19:16	18:30-18:45/15	07:44 17:14		08:31 16:40	10:38-11:26/48
6	05:37 22:02	06:07-06:12/5	06:17 21:25	20:01-20:16/15	07:05 20:22	19:31-19:48/17	07:53 19:14	18:31-18:43/12	07:45 17:12		08:33 16:39	10:38-11:26/48
7	05:38 22:02	06:08-06:13/5	06:18 21:24	20:00-20:18/18	07:06 20:20	19:31-19:48/17	07:54 19:12	18:33-18:41/8	07:47 17:11		08:34 16:39	10:39-11:27/48
8	05:39 22:01	06:09-06:13/4	06:20 21:22	19:59-20:19/20	07:08 20:18	19:30-19:47/17	07:56 19:10		07:49 17:09		08:35 16:39	10:40-11:27/47
9	05:40 22:00	06:10-06:13/3	06:21 21:20	19:57-20:19/22	07:10 20:15	19:31-19:46/15	07:57 19:08		07:50 17:07		08:36 16:38	10:40-11:27/47
10	05:41 22:00	06:11-06:13/2	06:23 21:18	19:57-20:20/23	07:11 20:13	19:31-19:44/13	07:59 19:05		07:52 17:06	10:48-10:59/11	08:37 16:38	10:40-11:28/48
11	05:42 21:59	06:12-06:13/1	06:24 21:16	19:55-20:20/25	07:13 20:11	19:32-19:43/11	08:01 19:03		07:54 17:04	10:45-11:04/19	08:38 16:38	10:41-11:28/47
12	05:43 21:58		06:26 21:14	19:55-20:21/26	07:14 20:09	19:34-19:39/5	08:02 19:01		07:56 17:03	10:42-11:06/24	08:39 16:38	10:41-11:28/47
13	05:44 21:57		06:27 21:13	19:54-20:20/26	07:16 20:06		08:04 18:59		07:57 17:01	10:40-11:09/29	08:40 16:38	10:42-11:29/47
14	05:45 21:56		06:29 21:11	19:54-20:21/27	07:17 20:04		08:06 18:57		07:59 17:00	10:39-11:11/32	08:41 16:38	10:42-11:29/47
15	05:46 21:56		06:30 21:09	19:54-20:20/26	07:19 20:02		08:07 18:55		08:01 16:59	10:38-11:12/34	08:42 16:38	10:43-11:30/47
16	05:48 21:55		06:32 21:07	19:54-20:20/26	07:21 20:00		08:09 18:52		08:02 16:57	10:38-11:14/36	08:43 16:38	10:44-11:30/46
17	05:49 21:54		06:34 21:05	19:53-20:19/26	07:22 19:57		08:11 18:50		08:04 16:56	10:37-11:15/38	08:44 16:38	10:44-11:31/47
18	05:50 21:52		06:35 21:03	19:54-20:19/25	07:24 19:55		08:12 18:48		08:06 16:55	10:37-11:17/40	08:45 16:39	10:44-11:30/46
19	05:51 21:51		06:37 21:01	19:54-20:18/24	07:25 19:53		08:14 18:46		08:07 16:53	10:36-11:17/41	08:45 16:39	10:45-11:31/46
20	05:52 21:50		06:38 20:59	19:55-20:18/23	07:27 19:50		08:16 18:44		08:09 16:52	10:36-11:18/42	08:46 16:39	10:46-11:32/46
21	05:54 21:49		06:40 20:57	19:55-20:16/21	07:28 19:48		08:18 18:42		08:11 16:51	10:36-11:19/43	08:47 16:40	10:46-11:32/46
22	05:55 21:48		06:41 20:55	19:56-20:14/18	07:30 19:46		08:19 18:40		08:12 16:50	10:36-11:20/44	08:47 16:40	10:47-11:33/46
23	05:56 21:47		06:43 20:53	19:57-20:12/15	07:32 19:44		08:21 18:38		08:14 16:49	10:35-11:20/45	08:48 16:41	10:47-11:33/46
24	05:58 21:45		06:44 20:50	20:00-20:10/10	07:33 19:41		08:23 18:36		08:16 16:48	10:35-11:21/46	08:48 16:41	10:47-11:33/46
25	05:59 21:44		06:46 20:48		07:35 19:39		07:24 17:34		08:17 16:47	10:36-11:22/46	08:48 16:42	10:48-11:34/46
26	06:00 21:43		06:48 20:46		07:36 19:37	18:39-18:44/5	07:26 17:32		08:19 16:46	10:35-11:22/47	08:49 16:43	10:48-11:35/47
27	06:02 21:41		06:49 20:44		07:38 19:34	18:36-18:47/11	07:28 17:30		08:20 16:45	10:36-11:22/46	08:49 16:43	10:48-11:35/47
28	06:03 21:40		06:51 20:42		07:40 19:32	18:33-18:47/14	07:30 17:28		08:22 16:44	10:36-11:23/47	08:49 16:44	10:49-11:35/46
29	06:05 21:38		06:52 20:40		07:41 19:30	18:32-18:48/16	07:31 17:26		08:23 16:43	10:36-11:23/47	08:49 16:45	10:49-11:36/47
30	06:06 21:37		06:54 20:38		07:43 19:28	18:30-18:48/18	07:33 17:25		08:25 16:43	10:37-11:24/47	08:50 16:46	10:50-11:36/46
31	06:08 21:35		06:55 20:35				07:35 17:23				08:50 16:47	10:50-11:37/47
Potential sun hours	498		452		380		333		269		248	
Sum of minutes with flicker	56		431		220		105		804		1454	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:20-09:31/11	08:24 16:56-17:06/10	07:32 08:12-08:29/17	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:32/12	08:23 16:55-17:07/12	07:30 08:13-08:28/15	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 09:20-09:33/13	08:21 16:55-17:08/13	07:28 08:14-08:26/12	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:19-09:33/14	08:19 16:56-17:09/13	07:26 08:17-08:23/6	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:54/5	20:22	21:11	21:54
5	08:49 09:19-09:34/15	08:18 16:56-17:08/12	07:24 07:47-07:56/9	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 09:18-09:35/17	08:16 16:57-17:07/10	07:21 07:44-07:56/12	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 09:18-09:36/18	08:15 16:58-17:06/8	07:19 07:43-07:57/14	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:36/19	08:13 17:03-17:04/1	07:17 07:42-07:57/15	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:18-09:37/19	08:11	07:15 07:42-07:57/15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:18-09:38/20	08:09	07:13 07:42-07:55/13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 09:18-09:38/20	08:08	07:10 07:43-07:54/11	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 09:20-09:39/19	08:06	07:08 07:44-07:52/8	06:59 07:22-07:23/1	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:21-09:39/18	08:04	07:06 07:29-07:32/3	06:57 07:19-07:22/3	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:22-09:40/18	08:02	07:04 07:26-07:32/6	06:55 07:17-07:21/4	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:22-09:40/18	08:00	07:02 07:24-07:31/7	06:52 07:15-07:19/4	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:23-09:40/17	07:58	06:59 07:23-07:30/7	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 09:24-09:40/16	07:56	06:57 07:25-07:28/3	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:24-09:40/16	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 09:25-09:40/15	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:26-09:40/14	07:51 08:19-08:25/6	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:27-09:38/11	07:49 08:16-08:27/11	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:29-09:37/8	07:47 08:15-08:29/14	06:46 18:29-18:34/5	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 09:32-09:35/3	07:45 08:13-08:30/17	06:44 18:26-18:36/10	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:13-08:31/18	06:41 18:24-18:37/13	06:34	05:44	05:31
	17:21	18:16 17:48-17:50/2	19:04	20:55	21:41	22:05
25	08:34	07:41 08:12-08:31/19	06:39 18:23-18:38/15	06:32	05:43	05:31
	17:22	18:18 17:48-17:52/4	19:05	20:56	21:42	22:05
26	08:32	07:38 08:12-08:31/19	06:37 18:22-18:38/16	06:30	05:42	05:31
	17:24	18:19 17:48-17:54/6	19:07	20:58	21:43	22:05
27	08:31	07:36 08:12-08:31/19	06:35 18:22-18:38/16	06:28	05:41	05:32
	17:26	18:21 17:47-17:55/8	19:09	21:00	21:45	22:05
28	08:30	07:34 08:11-08:30/19	06:32 18:22-18:37/15	06:26	05:40	05:32
	17:28	18:23 17:49-17:54/5	19:10	21:01	21:46	22:05
29	08:28 16:58-16:59/1		07:30 19:22-19:36/14	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:57-17:01/4		07:28 19:23-19:35/12	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 16:56-17:03/7		07:26 19:25-19:34/9		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	363	246	303	12	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Operational time

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Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57		07:44	08:24-08:30/6	07:37		08:26	09:00-09:20/20
	22:04	21:34		20:33		19:25	08:09-08:11/2	17:21		16:42	
2	05:34	06:11		06:59		07:46	08:22-08:32/10	07:38		08:27	09:01-09:21/20
	22:04	21:32		20:31		19:23		17:19		16:42	
3	05:35	06:12		07:00		07:48	08:20-08:33/13	07:40	16:30-16:34/4	08:29	09:01-09:20/19
	22:03	21:30		20:29		19:21		17:17		16:41	
4	05:36	06:14		07:02		07:49	08:19-08:33/14	07:42	16:28-16:36/8	08:30	09:02-09:21/19
	22:03	21:29		20:27		19:19		17:16		16:40	
5	05:37	06:15		07:03		07:51	08:19-08:34/15	07:43	16:27-16:37/10	08:31	09:03-09:21/18
	22:03	21:27		20:24		19:16		17:14		16:40	
6	05:38	06:17		07:05		07:53	08:18-08:33/15	07:45	16:26-16:38/12	08:33	09:04-09:21/17
	22:02	21:25		20:22		19:14		17:12		16:40	
7	05:38	06:18		07:07		07:54	08:19-08:32/13	07:47	16:26-16:39/13	08:34	09:06-09:21/15
	22:02	21:24		20:20		19:12		17:11		16:39	
8	05:39	06:20		07:08		07:56	08:21-08:32/11	07:49	16:26-16:39/13	08:35	09:07-09:21/14
	22:01	21:22		20:18		19:10		17:09		16:39	
9	05:40	06:21		07:10		07:57	08:22-08:29/7	07:50	16:26-16:38/12	08:36	09:08-09:21/13
	22:00	21:20		20:15		19:08		17:07		16:39	
10	05:41	06:23		07:11		07:59	08:50-08:59/9	07:52	16:27-16:36/9	08:37	09:09-09:21/12
	22:00	21:18		20:13		19:05	08:24-08:26/2	17:06		16:38	
11	05:42	06:24		07:13		08:01	08:48-09:01/13	07:54	16:27-16:34/7	08:38	09:10-09:21/11
	21:59	21:16		20:11		19:03		17:04		16:38	
12	05:43	06:26		07:14	19:17-19:25/8	08:02	08:47-09:02/15	07:56	16:28-16:32/4	08:39	09:11-09:21/10
	21:58	21:14		20:09		19:01		17:03		16:38	
13	05:44	06:27		07:16	19:15-19:26/11	08:04	08:45-09:02/17	07:57	16:30-16:31/1	08:40	09:12-09:21/9
	21:57	21:13		20:06		18:59	18:24-18:25/1	17:01		16:38	
14	05:45	06:29		07:18	19:13-19:27/14	08:06	08:44-09:03/19	07:59		08:41	09:13-09:21/8
	21:56	21:11		20:04		18:57	18:21-18:28/7	17:00		16:38	
15	05:47	06:30		07:19	19:12-19:27/15	08:07	08:44-09:03/19	08:01		08:42	09:14-09:21/7
	21:55	21:09		20:02		18:55	18:20-18:27/7	16:59		16:38	
16	05:48	06:32		07:21	19:11-19:27/16	08:09	08:44-09:03/19	08:02		08:43	09:15-09:21/6
	21:54	21:07		20:00		18:53	18:19-18:24/5	16:57		16:38	
17	05:49	06:34		07:22	19:11-19:27/16	08:11	08:44-09:02/18	08:04		08:44	09:16-09:21/5
	21:53	21:05		19:57		18:50	18:19-18:22/3	16:56		16:39	
18	05:50	06:35		07:24	19:10-19:25/15	08:12	08:44-09:02/18	08:06		08:45	09:16-09:20/4
	21:52	21:03		19:55		18:48		16:55		16:39	
19	05:51	06:37		07:25	19:11-19:25/14	08:14	08:45-09:01/16	08:07	09:05-09:09/4	08:45	09:17-09:18/1
	21:51	21:01		19:53		18:46		16:53		16:39	
20	05:53	06:38		07:27	19:12-19:23/11	08:16	08:46-09:00/14	08:09	09:04-09:12/8	08:46	
	21:50	20:59		19:50		18:44		16:52		16:39	
21	05:54	06:40		07:29	19:13-19:20/7	08:18	08:48-08:57/9	08:11	09:03-09:14/11	08:47	
	21:49	20:57		19:48		18:42		16:51		16:40	
22	05:55	06:41		07:30		08:19		08:12	09:02-09:16/14	08:47	
	21:48	20:55		19:46		18:40		16:50		16:40	
23	05:56	06:43		07:32		08:21		08:14	09:01-09:16/15	08:48	
	21:47	20:53		19:44		18:38		16:49		16:41	
24	05:58	06:45		07:33		08:23		08:16	09:01-09:17/16	08:48	09:19-09:20/1
	21:45	20:50		19:41		18:36		16:48		16:41	
25	05:59	06:46		07:35		07:24		08:17	09:02-09:18/16	08:48	09:22-09:24/2
	21:44	20:48		19:39		17:34		16:47		16:42	09:20-09:21/1
26	06:01	06:48		07:36		07:26		08:19	09:01-09:18/17	08:49	09:20-09:25/5
	21:43	20:46		19:37		17:32		16:46		16:43	
27	06:02	06:49		07:38	08:05-08:12/7	07:28		08:20	09:02-09:19/17	08:49	09:20-09:26/6
	21:41	20:44		19:34		17:30		16:45		16:43	
28	06:03	06:51	07:17-07:21/4	07:40	08:04-08:12/8	07:30		08:22	09:02-09:20/18	08:49	09:20-09:26/6
	21:40	20:42		19:32		17:28		16:44		16:44	
29	06:05	06:52	07:18-07:22/4	07:41	08:06-08:12/6	07:31		08:23	09:01-09:19/18	08:49	09:20-09:27/7
	21:38	20:40		19:30		17:27		16:44		16:45	
30	06:06	06:54	07:20-07:23/3	07:43	08:08-08:12/4	07:33		08:25	09:01-09:20/19	08:49	09:20-09:28/8
	21:37	20:38		19:28		17:25		16:43		16:46	
31	06:08	06:56	07:21-07:22/1			07:35				08:50	09:20-09:29/9
	21:35	20:35				17:23				16:47	
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	12		152		317		266		273	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:29-15:53/24 16:48	08:24 08:57-09:09/12 17:35	07:32 17:35-17:51/16 18:25	07:23 20:17	06:20 21:06	05:36 06:16-06:35/19 21:50 20:17-20:40/23
2	08:49 15:30-15:54/24 16:49	08:22 08:58-09:08/10 17:36	07:30 17:35-17:51/16 18:26	07:21 20:19	06:18 21:08	05:36 06:17-06:36/19 21:52 20:17-20:42/25
3	08:49 15:29-15:54/25 16:50	08:21 08:59-09:06/7 17:38	07:28 17:36-17:50/14 18:28	07:19 20:20	06:16 21:09	05:35 06:16-06:35/19 21:53 20:16-20:43/27
4	08:49 15:30-15:55/25 16:51	08:19 17:40	07:26 17:37-17:49/12 18:30	07:17 20:22	06:15 21:11	05:34 06:16-06:35/19 21:54 20:15-20:43/28
5	08:49 15:30-15:56/26 16:53	08:18 17:42	07:24 17:39-17:46/7 18:32	07:14 20:24	06:13 21:13	05:34 06:17-06:35/18 21:55 20:15-20:44/29
6	08:49 15:30-15:56/26 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 06:17-06:35/18 21:55 20:14-20:45/31
7	08:48 15:31-15:57/26 16:55	08:14 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 06:18-06:35/17 21:56 20:14-20:46/32
8	08:48 15:31-15:57/26 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 21:17	05:32 06:19-06:36/17 21:57 20:13-20:46/33
9	08:47 15:32-15:58/26 16:58	08:11 17:49	07:15 18:39	07:05 20:30	06:06 21:19	05:31 06:18-06:35/17 21:58 20:14-20:47/33
10	08:47 15:32-15:58/26 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 06:19-06:35/16 21:59 20:14-20:48/34
11	08:46 15:32-15:58/26 17:00	08:08 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 06:20-06:35/15 22:00 20:14-20:49/35
12	08:46 15:32-15:59/27 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:24	05:30 06:19-06:35/16 22:00 20:13-20:48/35
13	08:45 15:33-16:00/27 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 06:20-06:35/15 22:01 20:13-20:49/36
14	08:44 15:34-16:00/26 17:05	08:02 08:26-08:28/2 17:58	07:04 18:47	06:55 20:38	05:58 21:27	05:30 06:20-06:35/15 22:01 20:14-20:49/35
15	08:44 15:34-16:00/26 17:06	08:00 08:24-08:27/3 18:00	07:02 18:49	06:52 20:40	05:56 21:28	05:30 06:21-06:35/14 22:02 20:14-20:50/36
16	08:43 15:35-16:00/25 17:08	07:58 08:22-08:26/4 18:02	06:59 18:50	06:50 20:42	05:55 21:30	05:30 06:21-06:35/14 22:03 20:14-20:50/36
17	08:42 15:35-16:00/25 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 06:22-06:35/13 22:03 20:14-20:51/37
18	08:41 15:36-16:00/24 17:11	07:55 18:05	06:55 07:17-07:19/2 18:54	06:46 20:45	05:52 21:32	05:29 06:22-06:35/13 22:03 20:14-20:51/37
19	08:40 15:37-16:00/23 17:12	07:53 18:07	06:53 07:15-07:20/5 18:55	06:44 20:47	05:51 06:21-06:29/8 21:34	05:30 06:22-06:35/13 22:04 20:14-20:51/37
20	08:39 15:37-15:59/22 17:14	07:51 18:09	06:50 07:13-07:20/7 18:57	06:42 20:48	05:49 06:20-06:30/10 21:35	05:30 06:22-06:35/13 22:04 20:14-20:51/37
21	08:38 15:38-15:59/21 17:16	07:49 18:11	06:48 07:10-07:19/9 18:59	06:40 20:50	05:48 06:19-06:32/13 21:37	05:30 06:22-06:35/13 22:04 20:14-20:51/37
22	08:37 15:40-15:59/19 17:17	07:47 08:10-08:11/1 18:12	06:46 07:08-07:18/10 19:00	06:38 20:52	05:47 06:17-06:32/15 21:38	05:30 06:23-06:36/13 22:04 20:15-20:52/37
23	08:36 15:41-15:59/18 17:19 09:03-09:04/1	07:45 17:41-17:46/5 18:14 08:08-08:12/4	06:44 07:10-07:17/7 19:02 07:06-07:09/3	06:36 20:53	05:46 06:17-06:32/15 21:39	05:30 06:23-06:36/13 22:05 20:15-20:52/37
24	08:35 15:43-15:57/14 17:21 09:02-09:06/4	07:43 17:39-17:49/10 18:16 08:06-08:12/6	06:41 07:04-07:09/5 19:04	06:34 20:55	05:44 06:16-06:33/17 21:41	05:30 06:23-06:36/13 22:05 20:15-20:52/37
25	08:34 15:46-15:56/10 17:22 09:00-09:06/6	07:40 17:37-17:51/14 18:18 08:04-08:12/8	06:39 07:01-07:07/6 19:05	06:32 20:56	05:43 06:16-06:34/18 21:42	05:31 06:24-06:37/13 22:05 20:16-20:53/37
26	08:32 15:51-15:52/1 17:24 08:59-09:08/9	07:38 17:36-17:52/16 18:19 08:02-08:12/10	06:37 07:02-07:04/2 19:07	06:30 20:58	05:42 06:16-06:34/18 21:43	05:31 06:23-06:37/14 22:05 20:16-20:53/37
27	08:31 08:57-09:08/11 17:26	07:36 17:35-17:51/16 18:21 08:03-08:11/8	06:34 19:09	06:28 21:00	05:41 06:15-06:34/19 21:45 20:25-20:31/6	05:32 06:24-06:38/14 22:05 20:16-20:52/36
28	08:30 08:56-09:09/13 17:28	07:34 17:35-17:51/16 18:23 08:04-08:08/4	06:32 19:10	06:26 21:01	05:40 06:15-06:34/19 21:46 20:22-20:34/12	05:32 06:24-06:38/14 22:05 20:17-20:53/36
29	08:28 08:55-09:09/14 17:29		07:30 20:12	06:24 21:03	05:39 06:16-06:35/19 21:47 20:21-20:37/16	05:33 06:24-06:39/15 22:05 20:16-20:52/36
30	08:27 08:55-09:09/14 17:31		07:28 20:14	06:22 21:05	05:38 06:16-06:35/19 21:48 20:19-20:38/19	05:33 06:24-06:39/15 22:04 20:17-20:53/36
31	08:25 08:56-09:09/13 17:33		07:25 20:15		05:37 06:16-06:35/19 21:49 20:18-20:39/21	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	673	156	121	0	283	1479

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:24-06:40/16	06:09	06:57	07:44	07:36	08:26 15:14-15:40/26
	22:04 20:18-20:53/35	21:34	20:33	19:25	17:21	16:42
2	05:34 06:23-06:39/16	06:11	06:59	07:46	07:38	08:27 15:15-15:41/26
	22:04 20:18-20:52/34	21:32	20:31	19:23	17:19	16:41
3	05:35 06:24-06:40/16	06:12	07:00	07:48	07:40	08:29 15:15-15:41/26
	22:03 20:19-20:52/33	21:30	20:29	19:21	17:17	16:41
4	05:36 06:24-06:41/17	06:14	07:02	07:49	07:42	08:30 15:16-15:42/26
	22:03 20:20-20:52/32	21:29	20:27	19:19	17:16	16:40
5	05:37 06:24-06:41/17	06:15	07:03	07:51	07:43	08:31 15:16-15:42/26
	22:03 20:19-20:51/32	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:41/18	06:17	07:05	07:53	07:45	08:33 15:16-15:42/26
	22:02 20:20-20:51/31	21:25	20:22	19:14	17:12	16:39
7	05:38 06:24-06:42/18	06:18	07:06	07:54	07:47	08:34 15:16-15:42/26
	22:02 20:21-20:51/30	21:23	20:20	19:12	17:11	16:39
8	05:39 06:24-06:42/18	06:20	07:08	07:56 18:17-18:20/3	07:49 08:29-08:37/8	08:35 15:18-15:43/25
	22:01 20:22-20:51/29	21:22	20:18	19:10	17:09	16:39
9	05:40 06:24-06:43/19	06:21	07:10	07:57 18:12-18:22/10	07:50 08:28-08:39/11	08:36 15:18-15:43/25
	22:00 20:23-20:50/27	21:20	20:15	19:08	17:07	16:39
10	05:41 06:24-06:43/19	06:23	07:11	07:59 18:11-18:24/13	07:52 08:28-08:40/12	08:37 15:19-15:43/24
	22:00 20:24-20:50/26	21:18	20:13	19:05	17:06	16:38
11	05:42 06:24-06:43/19	06:24	07:13	08:01 18:10-18:25/15	07:54 08:27-08:41/14	08:38 15:19-15:43/24
	21:59 20:25-20:49/24	21:16	20:11	19:03	17:04	16:38
12	05:43 06:24-06:44/20	06:26	07:14	08:02 18:08-18:24/16	07:56 08:26-08:40/14	08:39 15:20-15:43/23
	21:58 20:26-20:48/22	21:14	20:09	19:01	17:03	16:38
13	05:44 06:24-06:44/20	06:27	07:16	08:04 18:08-18:25/17	07:57 08:27-08:41/14	08:40 15:20-15:44/24
	21:57 20:27-20:47/20	21:12	20:06	18:59	17:01	16:38
14	05:45 06:24-06:44/20	06:29	07:17	08:06 18:08-18:25/17	07:59 08:28-08:41/13	08:41 15:21-15:44/23
	21:56 20:28-20:46/18	21:11	20:04	18:57 08:36-08:42/6	17:00	16:38
15	05:46 06:25-06:44/19	06:30	07:19	08:07 18:08-18:24/16	08:01 08:30-08:41/11	08:42 15:22-15:44/22
	21:55 20:30-20:45/15	21:09	20:02	18:55 08:34-08:44/10	16:59	16:38
16	05:48 06:25-06:44/19	06:32	07:21	08:09 18:08-18:22/14	08:02 15:23-15:25/2	08:43 15:22-15:45/23
	21:54 20:32-20:42/10	21:07	20:00	18:52 08:35-08:44/9	16:57 08:32-08:41/9	16:38
17	05:49 06:25-06:44/19	06:34	07:22	08:11 18:09-18:21/12	08:04 15:19-15:30/11	08:44 15:23-15:46/23
	21:53	21:05	19:57	18:50 08:36-08:44/8	16:56 08:34-08:40/6	16:38
18	05:50 06:25-06:43/18	06:35	07:24 07:49-07:55/6	08:12 18:11-18:19/8	08:06 15:17-15:31/14	08:45 15:23-15:45/22
	21:52	21:03	19:55	18:48 08:38-08:44/6	16:55 08:36-08:40/4	16:39
19	05:51 06:25-06:43/18	06:37	07:25 07:50-07:55/5	08:14 08:40-08:43/3	08:07 15:15-15:33/18	08:45 15:24-15:46/22
	21:51	21:01	19:53	18:46	16:53 08:37-08:38/1	16:39
20	05:52 06:27-06:43/16	06:38	07:27 07:57-08:03/6	08:16	08:09 15:15-15:34/19	08:46 15:25-15:47/22
	21:50	20:59	19:50 07:52-07:55/3	18:44	16:52	16:39
21	05:54 06:27-06:43/16	06:40	07:28 07:55-08:04/9	08:17	08:11 15:14-15:35/21	08:46 15:25-15:47/22
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:28-06:42/14	06:41	07:30 07:55-08:05/10	08:19	08:12 15:14-15:36/22	08:47 15:26-15:48/22
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:41/12	06:43	07:32 07:56-08:04/8	08:21	08:14 15:13-15:36/23	08:48 15:26-15:48/22
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:40/9	06:44	07:33 07:58-08:04/6	08:23	08:15 15:13-15:37/24	08:48 15:26-15:48/22
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:38/5	06:46	07:35 08:00-08:03/3	07:24	08:17 15:13-15:38/25	08:48 15:27-15:49/22
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:57/4	08:19 15:13-15:38/25	08:49 15:27-15:49/22
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 07:54-07:57/3	08:20 15:13-15:39/26	08:49 15:27-15:50/23
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 07:56-07:58/2	08:22 15:14-15:40/26	08:49 15:27-15:50/23
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23 15:13-15:40/27	08:49 15:28-15:51/23
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25 15:14-15:41/27	08:49 15:28-15:51/23
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:49 15:28-15:52/24
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	836	0	57	192	427	732

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 16:12-16:51/39 17:35	07:32 18:25	07:23 19:38-19:51/13 20:17	06:20 21:06	05:36 21:51
2	08:50 16:49	08:23 16:11-16:51/40 17:36	07:30 18:26	07:21 19:39-19:53/14 20:19	06:18 21:08	05:36 21:52
3	08:49 16:50	08:21 16:11-16:52/41 17:38	07:28 18:28	07:19 19:41-19:55/14 20:20	06:16 21:10	05:35 21:53
4	08:49 16:51	08:19 16:11-16:53/42 17:40	07:26 18:30	07:17 19:47-19:57/10 20:22	06:15 21:11	05:34 21:54
5	08:49 16:53	08:18 16:11-16:53/42 17:42	07:24 18:32	07:14 19:46-19:58/12 20:24	06:13 21:13	05:33 21:55
6	08:49 16:54	08:16 16:10-16:53/43 17:44	07:21 18:33	07:12 19:44-19:59/15 20:25	06:11 21:14	05:33 21:56
7	08:48 16:55	08:15 16:10-16:53/43 17:45	07:19 18:35	07:10 19:44-20:01/17 20:27	06:09 21:16	05:32 21:57
8	08:48 16:56	08:13 16:11-16:54/43 17:47	07:17 18:37	07:08 19:44-20:03/19 20:29	06:08 21:17	05:32 21:57
9	08:48 16:58	08:11 16:11-16:54/43 17:49	07:15 18:39	07:05 19:44-20:03/19 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 16:11-16:54/43 17:51	07:13 18:40	07:03 19:44-20:03/19 20:32	06:04 21:21	05:31 21:59
11	08:47 17:00	08:08 16:11-16:53/42 17:53	07:11 18:14-18:17/3 18:42	07:01 19:44-20:01/17 20:34	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 16:12-16:53/41 17:54	07:08 18:13-18:19/6 18:44	06:59 19:45-19:59/14 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 16:12-16:52/40 17:56	07:06 18:11-18:20/9 18:45	06:57 19:47-19:58/11 20:37	05:59 21:25	05:30 22:01
14	08:45 17:05	08:02 16:13-16:52/39 17:58	07:04 18:11-18:22/11 18:47	06:55 19:50-19:54/4 20:38	05:58 21:27	05:30 22:02
15	08:44 17:06	08:00 16:13-16:51/38 18:00	07:02 18:11-18:24/13 18:49	06:52 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 16:14-16:50/36 18:02	06:59 18:11-18:26/15 18:50	06:50 20:42	05:55 21:30	05:30 22:03
17	08:42 17:09	07:57 16:15-16:49/34 18:03	06:57 18:11-18:25/14 18:52	06:48 20:43	05:53 21:31	05:29 22:03
18	08:41 17:11	07:55 16:17-16:48/31 18:05	06:55 18:13-18:24/11 18:54	06:46 20:45	05:52 21:33	05:29 22:04
19	08:40 17:12	07:53 16:18-16:47/29 18:07	06:53 18:15-18:22/7 18:55	06:44 20:47	05:51 21:34	05:29 22:04
20	08:39 17:14	07:51 16:21-16:45/24 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04
21	08:38 16:22-16:33/11 17:16	07:49 16:23-16:43/20 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04
22	08:37 16:20-16:36/16 17:17	07:47 16:26-16:40/14 18:12	06:46 19:00	06:38 20:52	05:47 21:38	05:30 22:05
23	08:36 16:19-16:39/20 17:19	07:45 18:14	06:44 19:02	06:36 20:53	05:46 21:40	05:30 22:05
24	08:35 16:18-16:41/23 17:21	07:43 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05
25	08:34 16:16-16:42/26 17:22	07:41 18:18	06:39 19:05	06:32 20:57	05:43 21:42	05:31 22:05
26	08:32 16:15-16:44/29 17:24	07:39 18:19	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05
27	08:31 16:14-16:45/31 17:26	07:36 18:21	06:35 18:40-18:44/4 19:09	06:28 21:00	05:41 21:45	05:32 22:05
28	08:30 16:14-16:47/33 17:28	07:34 18:23	06:32 18:38-18:45/7 19:10	06:26 21:01	05:40 21:46	05:32 22:05
29	08:28 16:13-16:48/35 17:29	 	07:30 19:38-19:47/9 20:12	06:24 21:03	05:39 21:47	05:33 22:05
30	08:27 16:13-16:49/36 17:31	 	07:28 19:38-19:49/11 20:14	06:22 21:05	05:38 21:48	05:33 22:05
31	08:26 16:12-16:50/38 17:33	 	07:26 19:38-19:50/12 20:15	 	05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	298	807	132	198	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:44-20:01/17	07:44 18:52-18:58/6	07:37 15:41-16:23/42	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:11	06:59 19:42-20:01/19	07:46 18:52-18:56/4	07:38 15:41-16:23/42	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:42-20:01/19	07:48 18:53-18:54/1	07:40 15:41-16:24/43	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02 19:41-20:00/19	07:49	07:42 15:40-16:23/43	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03 19:41-19:58/17	07:51	07:44 15:40-16:23/43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05 19:40-19:55/15	07:53	07:45 15:41-16:23/42	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:07 19:41-19:54/13	07:54	07:47 15:41-16:22/41	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08 19:41-19:51/10	07:56	07:49 15:42-16:22/40	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10 19:35-19:49/14	07:57	07:51 15:42-16:22/40	08:36
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11 19:32-19:46/14	07:59	07:52 15:43-16:22/39	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 19:31-19:44/13	08:01	07:54 15:44-16:21/37	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:29-19:42/13	08:02	07:56 15:44-16:20/36	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:29-19:40/11	08:04	07:57 15:45-16:19/34	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:18 19:28-19:37/9	08:06	07:59 15:46-16:19/33	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 19:29-19:35/6	08:07	08:01 15:47-16:18/31	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 19:28-19:33/5	08:09	08:03 15:48-16:17/29	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49	06:34	07:22 19:30-19:31/1	08:11	08:04 15:50-16:16/26	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12	08:06 15:52-16:15/23	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14 17:02-17:07/5	08:08 15:53-16:13/20	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 16:56-17:12/16	08:09 15:55-16:11/16	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29	08:18 16:53-17:14/21	08:11 15:58-16:09/11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 16:50-17:16/26	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 16:48-17:18/30	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 18:59-19:04/5	08:23 16:47-17:19/32	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:56-19:06/10	07:24 15:46-16:20/34	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:54-19:07/13	07:26 15:45-16:21/36	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:53-19:08/15	07:28 15:43-16:21/38	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:52-19:05/13	07:30 15:42-16:21/39	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:50-19:56/6	07:41 18:52-19:03/11	07:31 15:42-16:22/40	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:48-19:59/11	07:43 18:51-19:00/9	07:33 15:41-16:23/42	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:45-19:59/14		07:35 15:41-16:23/42		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	0	31	291	412	711	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 17:51-17:59/8 18:25	07:23 20:17	06:20 20:36-20:38/2 21:06	05:36 20:33-20:56/23 21:51
2	08:50 16:14-16:15/1 16:49	08:23 17:36	07:30 17:52-18:01/9 18:27	07:21 20:19	06:18 20:35-20:40/5 21:08	05:36 20:35-20:56/21 21:52
3	08:49 16:13-16:17/4 16:50	08:21 17:38	07:28 17:53-18:01/8 18:28	07:19 20:20	06:16 20:34-20:41/7 21:10	05:35 20:35-20:56/21 21:53
4	08:49 16:12-16:17/5 16:51	08:19 17:40	07:26 18:30	07:17 20:22	06:15 20:34-20:43/9 21:11	05:34 20:35-20:55/20 21:54
5	08:49 16:12-16:19/7 16:53	08:18 17:42	07:24 18:32	07:14 20:24	06:13 20:34-20:44/10 21:13	05:34 20:37-20:55/18 21:55
6	08:49 16:11-16:20/9 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 20:34-20:45/11 21:14	05:33 20:37-20:54/17 21:56
7	08:48 16:11-16:22/11 16:55	08:15 17:45	07:19 18:35	07:10 20:27	06:09 20:34-20:47/13 21:16	05:32 20:38-20:54/16 21:57
8	08:48 16:10-16:23/13 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 20:34-20:48/14 21:18	05:32 20:38-20:53/15 21:57
9	08:48 16:11-16:25/14 16:58	08:11 17:49	07:15 18:39	07:06 20:30	06:06 20:34-20:50/16 21:19	05:31 20:40-20:53/13 21:58
10	08:47 16:10-16:26/16 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 20:32-20:51/19 21:21	05:31 20:41-20:53/12 21:59
11	08:47 16:10-16:27/17 17:00	08:08 17:53	07:11 18:15-18:17/2 18:42	07:01 20:34	06:03 20:32-20:53/21 21:22	05:31 20:42-20:53/11 22:00
12	08:46 16:11-16:29/18 17:02	08:06 17:55	07:08 18:15-18:19/4 18:44	06:59 20:35	06:01 20:31-20:54/23 21:24	05:30 20:42-20:52/10 22:00
13	08:45 16:11-16:31/20 17:03	08:04 17:56	07:06 18:14-18:20/6 18:45	06:57 20:37	05:59 20:30-20:56/26 21:25	05:30 20:43-20:51/8 22:01
14	08:45 16:10-16:32/22 17:05	08:02 17:58	07:04 18:14-18:22/8 18:47	06:55 20:38	05:58 20:29-20:57/28 21:27	05:30 20:45-20:51/6 22:02
15	08:44 16:10-16:34/24 17:06	08:00 18:00	07:02 18:14-18:24/10 18:49	06:52 20:40	05:56 20:29-20:59/30 21:28	05:30 20:46-20:50/4 22:02
16	08:43 16:11-16:35/24 17:08	07:58 18:02	06:59 18:14-18:26/12 18:50	06:50 20:42	05:55 20:29-21:00/31 21:30	05:30 22:03
17	08:42 16:11-16:35/24 17:09	07:57 18:04	06:57 18:14-18:27/13 18:52	06:48 20:43	05:54 20:29-21:01/32 21:31	05:29 22:03
18	08:41 16:11-16:36/25 17:11	07:55 18:05	06:55 18:14-18:28/14 18:54	06:46 20:45	05:52 20:29-21:02/33 21:33	05:29 22:04
19	08:40 16:11-16:36/25 17:12	07:53 18:07	06:53 18:16-18:27/11 18:55	06:44 20:47	05:51 20:29-21:04/35 21:34	05:30 22:04
20	08:39 16:12-16:37/25 17:14	07:51 18:09	06:50 18:18-18:25/7 18:57	06:42 20:48	05:49 20:29-21:06/37 21:35	05:30 22:04
21	08:38 16:11-16:36/25 17:16	07:49 18:11	06:48 18:59	06:40 20:50	05:48 20:28-21:06/38 21:37	05:30 22:04
22	08:37 16:12-16:37/25 17:17	07:47 18:12	06:46 19:00	06:38 20:52	05:47 20:59-21:06/7 21:38 20:29-20:58/29	05:30 22:05
23	08:36 16:13-16:37/24 17:19	07:45 18:14	06:44 19:02	06:36 20:53	05:46 21:01-21:04/3 21:40 20:29-20:58/29	05:30 22:05
24	08:35 16:14-16:37/23 17:21	07:43 18:16	06:41 19:04	06:34 20:55	05:44 20:29-20:58/29 21:41	05:30 22:05
25	08:34 16:14-16:37/23 17:22	07:41 18:18	06:39 19:05	06:32 20:57	05:43 20:30-20:58/28 21:42	05:31 22:05
26	08:32 16:15-16:37/22 17:24	07:39 17:52-17:54/2 18:20	06:37 19:07	06:30 20:58	05:42 20:30-20:58/28 21:43	05:31 22:05
27	08:31 16:15-16:36/21 17:26	07:36 17:52-17:56/4 18:21	06:35 19:09	06:28 21:00	05:41 20:31-20:57/26 21:45	05:32 20:49-20:51/2 22:05
28	08:30 16:17-16:36/19 17:28	07:34 17:51-17:57/6 18:23	06:32 19:10	06:26 21:01	05:40 20:31-20:57/26 21:46	05:32 20:48-20:53/5 22:05
29	08:28 16:18-16:34/16 17:29		07:30 20:12	06:24 21:03	05:39 20:32-20:58/26 21:47	05:33 20:47-20:54/7 22:05
30	08:27 16:20-16:34/14 17:31		07:28 20:14	06:22 21:05	05:38 20:33-20:57/24 21:48	05:33 20:47-20:55/8 22:05
31	08:26 16:22-16:31/9 17:33		07:26 20:15		05:37 20:33-20:57/24 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	525	12	112	0	719	237

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 20:47-20:57/10 22:04	06:09 20:41-21:04/23 21:34	06:57 20:33	07:44 18:54-18:58/4 19:25	07:37 17:21	08:26 15:52-16:09/17 16:42
2	05:34 20:45-20:57/12 22:04	06:11 20:43-21:03/20 21:32	06:59 20:31	07:46 18:54-18:56/2 19:23	07:38 17:19	08:27 15:54-16:09/15 16:41
3	05:35 20:45-20:58/13 22:04	06:12 20:43-21:01/18 21:30	07:00 20:29	07:48 19:21	07:40 17:17	08:29 15:54-16:08/14 16:41
4	05:36 20:45-20:59/14 22:03	06:14 20:44-20:59/15 21:29	07:02 20:27	07:49 19:19	07:42 17:16	08:30 15:56-16:08/12 16:40
5	05:37 20:44-20:59/15 22:03	06:15 20:45-20:58/13 21:27	07:03 20:24	07:51 19:16	07:44 17:14	08:31 15:56-16:07/11 16:40
6	05:37 20:44-21:00/16 22:02	06:17 20:44-20:56/12 21:25	07:05 20:22	07:53 19:14	07:45 17:12	08:33 15:57-16:06/9 16:39
7	05:38 20:43-21:01/18 22:02	06:18 20:44-20:55/11 21:24	07:07 20:20	07:54 19:12	07:47 17:11	08:34 15:59-16:06/7 16:39
8	05:39 20:43-21:02/19 22:01	06:20 20:43-20:53/10 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 16:00-16:05/5 16:39
9	05:40 20:43-21:03/20 22:00	06:21 20:43-20:51/8 21:20	07:10 20:15	07:58 19:08	07:51 17:07	08:36 16:01-16:05/4 16:39
10	05:41 20:42-21:04/22 22:00	06:23 20:44-20:50/6 21:18	07:11 20:13	07:59 18:29-18:34/5 19:05	07:52 17:06	08:37 16:03-16:05/2 16:38
11	05:42 20:42-21:04/22 21:59	06:24 20:44-20:48/4 21:16	07:13 20:11	08:01 18:26-18:36/10 19:03	07:54 15:54-16:03/9 17:04	08:38 16:38
12	05:43 20:42-21:05/23 21:58	06:26 20:45-20:46/1 21:14	07:14 20:09	08:02 18:24-18:33/9 19:01	07:56 15:51-16:05/14 17:03	08:39 16:38
13	05:44 20:41-21:05/24 21:57	06:27 21:13	07:16 20:06	08:04 18:24-18:31/7 18:59	07:57 15:50-16:06/16 17:01	08:40 16:38
14	05:45 20:41-21:06/25 21:57	06:29 21:11	07:18 20:04	08:06 18:24-18:29/5 18:57	07:59 15:49-16:08/19 17:00	08:41 16:38
15	05:46 20:41-21:06/25 21:56	06:30 21:09	07:19 20:02	08:07 18:24-18:27/3 18:55	08:01 15:48-16:09/21 16:59	08:42 16:38
16	05:48 20:40-21:07/27 21:55	06:32 21:07	07:21 20:00	08:09 18:53	08:03 15:48-16:10/22 16:57	08:43 16:38
17	05:49 20:40-21:07/27 21:54	06:34 21:05	07:22 19:57	08:11 18:50	08:04 15:48-16:11/23 16:56	08:44 16:38
18	05:50 20:39-21:07/28 21:53	06:35 21:03	07:24 19:55	08:12 18:48	08:06 15:48-16:11/23 16:55	08:45 16:39
19	05:51 20:39-21:07/28 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:08 15:47-16:11/24 16:53	08:45 16:39
20	05:52 20:40-21:08/28 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 15:47-16:12/25 16:52	08:46 16:39
21	05:54 21:10-21:16/6 21:49 20:39-21:08/29	06:40 20:57	07:29 19:48	08:18 18:42	08:11 15:47-16:12/25 16:51	08:47 16:40
22	05:55 21:09-21:17/8 21:48 20:39-21:08/29	06:41 20:55	07:30 19:46	08:19 18:40	08:12 15:48-16:13/25 16:50	08:47 16:40
23	05:56 20:39-21:16/37 21:47	06:43 20:53	07:32 19:02-19:08/6 19:44	08:21 18:38	08:14 15:47-16:12/25 16:49	08:48 16:41
24	05:58 20:39-21:14/35 21:45	06:45 20:50	07:33 19:00-19:10/10 19:41	08:23 18:36	08:16 15:48-16:13/25 16:48	08:48 16:41
25	05:59 20:39-21:14/35 21:44	06:46 20:48	07:35 18:57-19:11/14 19:39	07:24 17:34	08:17 15:49-16:13/24 16:47	08:48 16:42
26	06:00 20:39-21:12/33 21:43	06:48 20:46	07:36 18:57-19:10/13 19:37	07:26 17:32	08:19 15:49-16:13/24 16:46	08:49 16:43
27	06:02 20:39-21:11/32 21:41	06:49 20:44	07:38 18:56-19:08/12 19:34	07:28 17:30	08:20 15:49-16:13/24 16:45	08:49 16:43
28	06:03 20:40-21:10/30 21:40	06:51 20:42	07:40 18:55-19:05/10 19:32	07:30 17:28	08:22 15:51-16:12/21 16:44	08:49 16:44
29	06:05 20:40-21:08/28 21:38	06:52 20:40	07:41 18:55-19:03/8 19:30	07:31 17:27	08:23 15:51-16:11/20 16:44	08:49 16:45
30	06:06 20:40-21:07/27 21:37	06:54 20:38	07:43 18:54-19:00/6 19:28	07:33 17:25	08:25 15:52-16:10/18 16:43	08:50 16:46
31	06:08 20:41-21:06/25 21:35	06:56 20:35		07:35 17:23		08:50 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	770	141	79	45	427	96

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 15:46-16:59/73 17:35	07:32 18:25	07:23 20:17	06:20 18:40-19:55/75 21:06 07:06-07:47/41	05:37 18:43-19:58/75 21:51 20:58-21:19/21
2	08:50 16:49	08:23 15:46-16:58/72 17:37	07:30 18:27	07:21 20:19	06:18 18:40-19:56/76 21:08 07:06-07:46/40	05:36 18:45-19:58/73 21:52 20:59-21:20/21
3	08:49 16:50	08:21 15:46-16:58/72 17:38	07:28 18:28	07:19 20:20	06:17 18:40-19:57/77 21:10 07:07-07:47/40	05:35 18:45-19:58/73 21:53 20:59-21:21/22
4	08:49 16:51	08:19 15:47-16:58/71 17:40	07:26 18:30	07:17 20:22	06:15 18:39-19:57/78 20:42-20:43/1 21:11 07:07-07:46/39	05:34 18:45-19:57/72 21:54 20:58-21:21/23
5	08:49 16:53	08:18 15:47-16:58/71 17:42	07:24 18:32	07:14 20:24	06:13 18:38-19:57/79 20:41-20:44/3 21:13 07:07-07:45/38	05:34 18:46-19:58/72 21:55 20:59-21:22/23
6	08:49 16:54	08:16 15:47-16:57/70 17:44	07:22 18:33	07:12 20:25	06:11 18:39-19:58/79 20:40-20:46/6 21:14 07:07-07:45/38	05:33 18:46-19:57/71 21:56 20:59-21:21/22
7	08:48 16:55	08:15 16:36-16:56/20 17:46 15:47-16:35/48	07:19 18:35	07:10 20:27	06:09 18:38-19:58/80 20:39-20:47/8 21:16 07:07-07:44/37	05:32 18:47-19:58/71 21:56 20:59-21:22/23
8	08:48 16:56	08:13 16:38-16:56/18 17:47 15:48-16:35/47	07:17 18:37	07:08 20:01-20:03/2 20:29	06:08 18:38-19:57/79 20:39-20:48/9 21:17 07:08-07:43/35	05:32 18:48-19:58/70 21:57 21:00-21:23/23
9	08:48 16:58	08:11 16:40-16:54/14 17:49 15:49-16:35/46	07:15 18:39	07:06 20:01-20:05/4 20:30	06:06 18:38-19:58/80 20:39-20:50/11 21:19 07:09-07:43/34	05:31 18:47-19:58/71 21:58 20:59-21:22/23
10	08:47 15:58-16:08/10 16:59	08:09 16:42-16:51/9 17:51 15:49-16:34/45	07:13 18:40	07:03 20:02-20:06/4 20:32	06:04 18:37-19:58/81 20:39-20:51/12 21:21 07:09-07:42/33	05:31 18:48-19:58/70 21:59 21:00-21:23/23
11	08:46 15:56-16:11/15 17:00	08:08 15:50-16:34/44 17:53	07:11 18:15-18:17/2 18:42	07:01 20:03-20:08/5 20:34	06:03 18:38-19:58/80 20:39-20:53/14 21:22 07:10-07:41/31	05:31 18:49-19:58/69 22:00 21:00-21:23/23
12	08:46 15:55-16:14/19 17:02	08:06 15:50-16:33/43 17:55	07:08 18:15-18:19/4 18:44	06:59 20:04-20:07/3 20:35	06:01 18:37-19:58/81 20:39-20:54/15 21:24 07:10-07:39/29	05:30 18:48-19:58/70 22:00 21:00-21:22/22
13	08:45 15:54-16:15/21 17:03	08:04 15:51-16:32/41 17:56	07:06 18:15-18:20/5 18:45	06:57 19:17-19:24/7 20:37	06:00 18:38-19:58/80 20:40-20:54/14 21:25 07:12-07:39/27	05:30 18:49-19:58/69 22:01 21:00-21:23/23
14	08:45 15:53-16:17/24 17:05	08:02 15:52-16:31/39 17:58	07:04 18:18-18:21/3 18:47	06:55 19:09-19:32/23 20:39	05:58 18:37-19:58/81 20:41-20:52/11 21:27 07:12-07:37/25	05:30 18:50-19:58/68 22:02 21:01-21:23/22
15	08:44 15:52-16:19/27 17:06	08:00 15:53-16:30/37 18:00	07:02 18:49	06:53 19:05-19:36/31 20:40	05:57 18:38-19:58/80 20:42-20:52/10 21:28 07:14-07:36/22	05:30 18:50-19:58/68 22:02 21:01-21:23/22
16	08:43 15:51-16:20/29 17:08	07:58 15:55-16:29/34 18:02	06:59 18:51	06:50 19:02-19:38/36 20:42 07:26-07:35/9	05:55 18:38-19:59/81 20:44-20:51/7 21:30 07:16-07:35/19	05:30 18:50-19:58/68 22:03 21:01-21:24/23
17	08:42 15:50-16:22/32 17:09	07:57 15:57-16:27/30 18:04	06:57 18:52	06:48 18:59-19:41/42 20:43 07:22-07:39/17	05:54 18:38-19:58/80 21:31 07:17-07:32/15	05:30 18:51-19:59/68 22:03 21:02-21:24/22
18	08:41 15:50-16:23/33 17:11	07:55 15:59-16:26/27 18:05	06:55 18:54	06:46 18:57-19:43/46 20:45 07:19-07:41/22	05:52 18:38-19:58/80 21:33 07:20-07:29/9	05:30 18:51-19:59/68 22:03 21:02-21:24/22
19	08:40 15:49-16:25/36 17:12	07:53 16:02-16:23/21 18:07	06:53 18:56	06:44 18:55-19:44/49 20:47 07:17-07:42/25	05:51 18:39-19:59/80 21:34	05:30 18:51-19:59/68 22:04 21:02-21:24/22
20	08:39 16:39-16:43/4 17:14 15:49-16:26/37	07:51 16:05-16:20/15 18:09	06:50 18:57	06:42 18:53-19:46/53 20:48 07:15-07:44/29	05:49 18:39-19:59/80 21:35	05:30 18:51-19:59/68 22:04 21:02-21:24/22
21	08:38 16:36-16:44/8 17:16 15:48-16:26/38	07:49 17:42-17:44/2 18:11	06:48 18:59	06:40 18:51-19:47/56 20:50 07:13-07:45/32	05:48 18:40-19:59/79 21:37	05:30 18:51-19:59/68 22:04 21:02-21:24/22
22	08:37 16:35-16:46/11 17:17 15:48-16:28/40	07:47 17:42-17:46/4 18:12	06:46 19:01	06:38 18:49-19:49/60 20:52 07:12-07:45/33	05:47 18:39-19:58/79 21:38 21:04-21:07/3	05:30 18:52-20:00/68 22:05 21:03-21:25/22
23	08:36 16:35-16:48/13 17:19 15:48-16:29/41	07:45 17:42-17:48/6 18:14	06:44 19:02	06:36 18:48-19:50/62 20:53 07:11-07:46/35	05:46 18:40-19:58/78 21:40 21:02-21:09/7	05:30 18:52-20:00/68 22:05 21:03-21:25/22
24	08:35 16:34-16:50/16 17:21 15:48-16:30/42	07:43 17:43-17:50/7 18:16	06:41 19:04	06:34 18:47-19:51/64 20:55 07:10-07:46/36	05:44 18:40-19:58/78 21:41 21:01-21:10/9	05:31 18:52-20:00/68 22:05 21:03-21:25/22
25	08:34 16:33-16:51/18 17:22 15:47-16:30/43	07:41 17:45-17:50/5 18:18	06:39 19:06	06:32 18:45-19:51/66 20:57 07:09-07:47/38	05:43 18:40-19:58/78 21:42 21:01-21:11/10	05:31 18:53-20:01/68 22:05 21:04-21:26/22
26	08:32 16:33-16:54/21 17:24 15:47-16:32/45	07:39 18:20	06:37 19:07	06:30 18:44-19:52/68 20:58 07:08-07:47/39	05:42 18:41-19:58/77 21:43 21:00-21:12/12	05:31 18:52-20:00/68 22:05 21:04-21:26/22
27	08:31 15:46-16:55/69 17:26	07:36 18:21	06:35 19:09	06:28 18:43-19:53/70 21:00 07:07-07:47/40	05:41 18:41-19:58/77 21:45 20:59-21:13/14	05:32 18:53-20:01/68 22:05 21:04-21:26/22
28	08:30 15:46-16:57/71 17:28	07:34 18:23	06:32 19:10	06:26 18:43-19:54/71 21:01 07:08-07:48/40	05:40 18:42-19:58/76 21:46 20:59-21:14/15	05:32 18:53-20:01/68 22:05 21:04-21:26/22
29	08:28 15:46-16:59/73 17:29		07:30 20:12	06:24 18:42-19:55/73 21:03 07:07-07:48/41	05:39 18:43-19:58/75 21:47 20:59-21:16/17	05:33 18:53-20:02/69 22:05 21:05-21:27/22
30	08:27 15:46-16:59/73 17:31		07:28 20:14	06:22 18:41-19:55/74 21:05 07:07-07:47/40	05:38 18:43-19:58/75 21:48 20:59-21:17/18	05:33 18:53-20:02/69 22:04 21:04-21:27/23
31	08:26 15:46-16:58/72 17:33		07:26 20:15		05:37 18:43-19:58/75 21:49 20:59-21:18/19	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	981	1031	14	1445	3231	2752

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:53-20:02/69	06:09 18:48-20:08/80 20:50-21:04/14	06:57 20:01-20:07/6	07:45 18:54-18:58/4	07:37 16:11-16:22/11	08:26 15:38-15:53/15
	22:04 21:05-21:27/22	21:34 07:20-07:50/30	20:33	19:25	17:21 15:19-16:04/45	16:42
2	05:35 18:52-20:02/70	06:11 18:48-20:09/81 20:50-21:03/13	06:59 20:00-20:04/4	07:46 18:54-18:56/2	07:38 16:09-16:24/15	08:27 15:41-15:52/11
	22:04 21:04-21:27/23	21:32 07:20-07:52/32	20:31	19:23	17:19 15:18-16:05/47	16:42
3	05:35 18:53-20:03/70	06:12 18:48-20:08/80 20:49-21:01/12	07:00 19:59-20:03/4	07:48 18:53-18:54/1	07:40 16:08-16:26/18	08:29
	22:04 21:05-21:27/22	21:30 07:19-07:52/33	20:29	19:21	17:18 15:18-16:05/47	16:41
4	05:36 18:53-20:03/70	06:14 18:47-20:07/80 20:49-20:59/10	07:02 19:58-20:00/2	07:49	07:42 15:17-16:26/69	08:30
	22:03 21:05-21:28/23	21:29 07:19-07:54/35	20:27	19:19	17:16	16:40
5	05:37 18:53-20:04/71	06:15 18:48-20:08/80 20:49-20:58/9	07:03	07:51	07:44 15:17-16:27/70	08:31
	22:03 21:06-21:28/22	21:27 07:18-07:54/36	20:24	19:17	17:14	16:40
6	05:38 18:52-20:04/72	06:17 18:48-20:07/79 20:49-20:56/7	07:05	07:53	07:45 15:17-16:28/71	08:33
	22:02 21:05-21:28/23	21:25 07:17-07:54/37	20:22	19:14	17:12	16:40
7	05:38 18:52-20:04/72	06:18 18:48-20:07/79 20:50-20:55/5	07:07	07:54	07:47 15:17-16:28/71	08:34
	22:02 21:05-21:28/23	21:24 07:17-07:55/38	20:20	19:12	17:11	16:39
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	22:01 21:06-21:28/22	21:22 07:16-07:55/39	20:18	19:10	17:09	16:39
9	05:40 18:52-20:05/73	06:21 18:49-20:06/77	07:10	07:58	07:51 15:17-16:29/72	08:36
	22:00 21:06-21:28/22	21:20 07:16-07:56/40	20:15	19:08	17:08	16:39
10	05:41 18:52-20:05/73	06:23 18:48-20:05/77	07:11	07:59	07:52 15:17-16:30/73	08:37
	22:00 21:06-21:28/22	21:18 07:15-07:55/40	20:13	19:05	17:06	16:38
11	05:42 18:52-20:06/74	06:24 18:49-20:05/76	07:13	08:01	07:54 15:18-16:30/72	08:38
	21:59 21:07-21:27/20	21:16 07:16-07:56/40	20:11	19:03	17:04	16:38
12	05:43 18:52-20:06/74	06:26 18:49-20:04/75	07:14	08:02	07:56 15:17-16:30/73	08:39
	21:58 21:07-21:27/20	21:14 07:15-07:55/40	20:09	19:01	17:03	16:38
13	05:44 18:52-20:06/74	06:27 18:49-20:03/74	07:16	08:04	07:57 15:18-16:31/73	08:40
	21:57 21:07-21:26/19	21:13 07:14-07:55/41	20:06	18:59	17:01	16:38
14	05:45 18:51-20:07/76	06:29 18:50-20:02/72	07:18	08:06	07:59 15:18-16:29/71	08:41
	21:56 21:08-21:25/17	21:11 07:15-07:55/40	20:04	18:57	17:00	16:38
15	05:47 18:51-20:07/76	06:31 18:50-20:01/71	07:19	08:07	08:01 15:19-16:28/69	08:42
	21:56 21:08-21:24/16	21:09 07:14-07:54/40	20:02	18:55	16:59	16:38
16	05:48 18:51-20:07/76	06:32 18:51-20:00/69	07:21	08:09	08:03 16:06-16:27/21	08:43
	21:55 21:09-21:23/14	21:07 07:15-07:54/39	20:00	18:53	16:57 15:20-16:05/45	16:38
17	05:49 18:51-20:07/76	06:34 18:51-19:59/68	07:22	08:11 18:15-18:22/7	08:04 16:07-16:25/18	08:44
	21:54 21:09-21:22/13	21:05 07:15-07:53/38	19:57	18:50	16:56 15:21-16:04/43	16:39
18	05:50 18:50-20:07/77	06:35 18:52-19:58/66	07:24	08:13 18:14-18:20/6	08:06 16:08-16:24/16	08:45
	21:53 21:10-21:21/11	21:03 07:16-07:53/37	19:55	18:48	16:55 15:22-16:04/42	16:39
19	05:51 18:50-20:07/77	06:37 18:53-19:56/63	07:25	08:14 18:13-18:18/5	08:08 16:09-16:22/13	08:45
	21:51 21:10-21:20/10	21:01 07:16-07:52/36	19:53	18:46	16:54 15:22-16:03/41	16:39
20	05:53 18:50-20:09/79	06:38 18:54-19:55/61	07:27	08:16 18:13-18:17/4	08:09 16:10-16:21/11	08:46
	21:50 21:12-21:20/8	20:59 07:17-07:52/35	19:50	18:44	16:52 15:23-16:03/40	16:39
21	05:54 18:50-20:08/78	06:40 18:54-19:53/59	07:29	08:18 18:12-18:14/2	08:11 16:12-16:20/8	08:47
	21:49 21:13-21:18/5	20:57 07:17-07:50/33	19:48	18:42 16:40-16:46/6	16:51 15:24-16:02/38	16:40
22	05:55 18:50-20:08/78	06:41 18:56-19:52/56	07:30	08:19 16:34-16:51/17	08:12 16:15-16:19/4	08:47
	21:48 21:15-21:17/2	20:55 07:18-07:49/31	19:46	18:40	16:50 15:25-16:02/37	16:40
23	05:56 18:49-20:08/79	06:43 18:57-19:49/52	07:32	08:21 16:31-16:54/23	08:14 15:26-16:01/35	08:48
	21:47	20:53 07:19-07:47/28	19:44	18:38	16:49	16:41
24	05:58 18:50-20:09/79	06:45 18:59-19:48/49	07:33	08:23 16:29-16:57/28	08:16 15:27-16:00/33	08:48
	21:45	20:50 07:21-07:46/25	19:41	18:36	16:48	16:41
25	05:59 18:49-20:09/80	06:46 19:00-19:45/45	07:35	07:24 15:27-15:58/31	08:17 15:28-16:00/32	08:48
	21:44 07:34-07:37/3	20:48 07:22-07:43/21	19:39	17:34	16:47	16:42
26	06:01 18:49-20:09/80	06:48 19:02-19:43/41	07:37	07:26 15:25-16:00/35	08:19 15:29-15:58/29	08:49
	21:43 07:29-07:41/12	20:46 07:25-07:41/16	19:37	17:32	16:46	16:43
27	06:02 18:48-20:08/80 20:55-20:59/4	06:49 19:04-19:40/36	07:38	07:28 15:23-16:00/37	08:20 15:31-15:58/27	08:49
	21:41 07:28-07:44/16	20:44 07:28-07:36/8	19:35	17:30	16:45	16:44
28	06:03 18:49-20:09/80 20:54-21:02/8	06:51 19:07-19:37/30	07:40	07:30 15:22-16:01/39	08:22 15:33-15:57/24	08:49
	21:40 07:26-07:46/20	20:42	19:32	17:28	16:44	16:44
29	06:05 18:48-20:09/81 20:52-21:03/11	06:52 19:10-19:32/22	07:41	07:31 15:21-16:02/41	08:23 15:34-15:56/22	08:49
	21:38 07:24-07:47/23	20:40	19:30	17:27	16:44	16:45
30	06:06 18:48-20:08/80 20:51-21:03/12	06:54 19:19-19:24/5	07:43 18:56-19:00/4	07:33 15:20-16:03/43	08:25 15:36-15:55/19	08:50
	21:37 07:23-07:49/26	20:38	19:28	17:25	16:43	16:46
31	06:08 18:48-20:09/81 20:50-21:04/14	06:56 20:04-20:07/3		07:35 15:19-16:04/45		08:50
	21:35 07:22-07:50/28	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	2904	2865	20	376	1637	26

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 14:50-15:34/44	08:24 08:58-09:29/31	07:32	07:23 19:36-19:52/16	06:20 07:00-07:25/25	05:37
	16:48 12:37-13:24/47	17:35 17:03-17:05/2	18:25	20:17	21:06	21:51
2	08:50 14:51-15:35/44	08:23 08:57-09:29/32	07:30	07:21 19:34-19:53/19	06:18 07:00-07:24/24	05:36
	16:49 12:38-13:24/46	17:37 17:04-17:07/3	18:27	20:19	21:08	21:52
3	08:49 14:52-15:35/43	08:21 08:56-09:29/33	07:28	07:19 19:33-19:55/22	06:17 07:02-07:24/22	05:35
	16:50 12:39-13:25/46	17:38 17:06-17:07/1	18:28	20:20	21:10	21:53
4	08:49 14:52-15:35/43	08:19 08:57-09:31/34	07:26	07:17 19:33-19:57/24	06:15 07:02-07:22/20	05:34
	16:51 12:39-13:24/45	17:40	18:30	20:22	21:11	21:54
5	08:49 14:53-15:36/43	08:18 08:56-09:31/35	07:24	07:14 19:33-19:58/25	06:13 07:03-07:20/17	05:34
	16:53 12:40-13:24/44	17:42	18:32	20:24	21:13	21:55
6	08:49 14:53-15:35/42	08:16 08:56-09:31/35	07:22	07:12 19:32-19:56/24	06:11 07:06-07:19/13	05:33
	16:54 12:41-13:24/43	17:44	18:33	20:25	21:14	21:56
7	08:48 14:54-15:36/42	08:15 08:55-09:31/36	07:19	07:10 19:32-19:55/23	06:09 07:08-07:16/8	05:32
	16:55 12:42-13:24/42	17:46	18:35	20:27	21:16	21:56
8	08:48 14:54-15:36/42	08:13 08:56-09:32/36	07:17	07:08 19:32-19:54/22	06:08	05:32
	16:56 12:43-13:23/40	17:47	18:37	20:29	21:17	21:57
9	08:48 14:55-15:37/42	08:11 08:56-09:32/36	07:15	07:06 19:33-19:53/20	06:06	05:32
	16:58 12:45-13:24/39	17:49	18:39	20:30	21:19	21:58
10	08:47 14:55-15:37/42	08:09 08:56-09:31/35	07:13	07:03 19:34-19:52/18	06:04	05:31
	16:59 12:46-13:23/37	17:51	18:40	20:32	21:21	21:59
11	08:46 14:56-15:37/41	08:08 08:56-09:31/35	07:11	07:01 19:35-19:51/16	06:03	05:31
	17:00 12:47-13:22/35	17:53	18:42	20:34	21:22	22:00
12	08:46 14:57-15:37/40	08:06 08:57-09:31/34	07:08	06:59 19:36-19:48/12	06:01	05:30
	17:02 12:49-13:22/33	17:55	18:44	20:35	21:24	22:00
13	08:45 14:58-15:37/39	08:04 08:57-09:30/33	07:06	06:57 19:40-19:44/4	06:00	05:30
	17:03 12:51-13:21/30	17:56	18:45	20:37	21:25	22:01
14	08:44 14:58-15:37/39	08:02 08:58-09:29/31	07:04	06:55	05:58	05:30
	17:05 12:53-13:20/27	17:58	18:47	20:38	21:27	22:02
15	08:44 14:59-15:37/38	08:00 08:58-09:28/30	07:02	06:53	05:57	05:30
	17:06 12:55-13:18/23	18:00	18:49	20:40	21:28	22:02
16	08:43 15:00-15:37/37	07:58 08:59-09:27/28	06:59 18:25-18:26/1	06:50	05:55	05:30
	17:08 12:58-13:15/17	18:02	18:51	20:42	21:30	22:03
17	08:42 15:01-15:37/36	07:57 09:00-09:26/26	06:57 18:24-18:27/3	06:48 07:11-07:22/11	05:54	05:30
	17:09 13:07-13:10/3	18:04	18:52	20:43	21:31	22:03
18	08:41 15:02-15:37/35	07:55 09:02-09:24/22	06:55 18:25-18:29/4	06:46 07:09-07:24/15	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 15:03-15:36/33	07:53 09:04-09:21/17	06:53 18:26-18:31/5	06:44 07:07-07:25/18	05:51	05:30
	17:13	18:07	18:56	20:47	21:34	22:04
20	08:39 15:05-15:36/31	07:51 09:07-09:18/11	06:50	06:42 07:05-07:26/21	05:49	05:30
	17:14	18:09 17:40-17:42/2	18:57	20:48	21:35	22:04
21	08:38 15:05-15:35/30	07:49 17:42-17:44/2	06:48	06:40 07:03-07:27/24	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 15:07-15:34/27	07:47	06:46	06:38 07:02-07:27/25	05:47	05:30
	17:17	18:13	19:01	20:52	21:38	22:05
23	08:36 15:09-15:33/24	07:45	06:44	06:36 07:01-07:28/27	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 15:12-15:32/20	07:43	06:41	06:34 07:00-07:28/28	05:45	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 15:14-15:30/16	07:41	06:39	06:32 07:00-07:28/28	05:43	05:31
	17:23 09:06-09:17/11	18:18	19:06	20:57	21:42	22:05
26	08:32 15:19-15:27/8	07:39	06:37	06:30 06:59-07:27/28	05:42	05:31
	17:24 09:04-09:20/16	18:20	19:07	20:58	21:43	22:05
27	08:31 09:02-09:22/20	07:36	06:35	06:28 06:59-07:27/28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 09:01-09:24/23	07:34	06:32	06:26 07:00-07:28/28	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:00-09:25/25		07:30 19:42-19:47/5	06:24 07:00-07:27/27	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 08:59-09:27/28		07:28 19:39-19:49/10	06:22 07:00-07:26/26	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:26 08:58-09:27/29		07:26 19:37-19:50/13		05:37	
	17:33 17:01-17:03/2		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1672	620	41	579	129	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57	19:34-19:50/16	07:45		07:37	08:26-09:01/35	08:26	14:38-15:19/41
	22:04	21:34		20:33		19:25		17:21		16:42	12:29-13:04/35
2	05:35	06:11		06:59	19:32-19:50/18	07:46		07:38	08:26-09:01/35	08:27	14:38-15:20/42
	22:04	21:32		20:31		19:23		17:19		16:42	12:29-13:06/37
3	05:35	06:12		07:00	19:31-19:52/21	07:48		07:40	08:26-09:02/36	08:29	14:38-15:20/42
	22:04	21:30		20:29		19:21		17:18		16:41	12:28-13:07/39
4	05:36	06:14		07:02	19:29-19:51/22	07:49		07:42	08:25-09:01/36	08:30	14:39-15:21/42
	22:03	21:29		20:27		19:19		17:16		16:40	12:28-13:08/40
5	05:37	06:15		07:03	19:29-19:52/23	07:51		07:44	08:25-09:01/36	08:31	14:39-15:21/42
	22:03	21:27		20:24		19:17		17:14		16:40	12:27-13:09/42
6	05:38	06:17	07:16-07:26/10	07:05	19:28-19:52/24	07:53		07:45	08:26-09:01/35	08:33	14:39-15:21/42
	22:02	21:25		20:22		19:14		17:12		16:40	12:27-13:10/43
7	05:38	06:18	07:14-07:29/15	07:07	19:28-19:53/25	07:54		07:47	08:26-09:00/34	08:34	14:40-15:23/43
	22:02	21:24		20:20		19:12		17:11		16:39	12:27-13:11/44
8	05:39	06:20	07:12-07:30/18	07:08	19:27-19:51/24	07:56		07:49	08:27-09:00/33	08:35	14:40-15:23/43
	22:01	21:22		20:18		19:10		17:09	16:36-16:39/3	16:39	12:27-13:12/45
9	05:40	06:21	07:12-07:32/20	07:10	19:28-19:49/21	07:58		07:50	08:28-09:00/32	08:36	14:40-15:23/43
	22:00	21:20		20:15		19:08		17:08	16:34-16:38/4	16:39	12:27-13:13/46
10	05:41	06:23	07:10-07:32/22	07:11	19:27-19:46/19	07:59		07:52	08:29-08:59/30	08:37	14:40-15:24/44
	22:00	21:18		20:13		19:05		17:06	16:33-16:36/3	16:38	12:27-13:13/46
11	05:42	06:24	07:10-07:34/24	07:13	19:28-19:45/17	08:01		07:54	08:30-08:59/29	08:38	14:40-15:24/44
	21:59	21:16		20:11		19:03		17:04	16:33-16:35/2	16:38	12:27-13:14/47
12	05:43	06:26	07:08-07:34/26	07:14	19:28-19:42/14	08:02		07:56	08:31-08:58/27	08:39	14:41-15:24/43
	21:58	21:14		20:09		19:01		17:03		16:38	12:27-13:15/48
13	05:44	06:27	07:08-07:35/27	07:16	19:30-19:40/10	08:04		07:57	08:32-08:57/25	08:40	14:41-15:25/44
	21:57	21:13		20:06		18:59		17:01		16:38	12:27-13:16/49
14	05:45	06:29	07:07-07:35/28	07:18	19:32-19:37/5	08:06		07:59	08:33-08:56/23	08:41	14:42-15:25/43
	21:56	21:11		20:04		18:57		17:00		16:38	12:27-13:16/49
15	05:47	06:31	07:06-07:34/28	07:19		08:07		08:01	08:35-08:55/20	08:42	14:42-15:26/44
	21:56	21:09		20:02		18:55		16:59		16:38	12:28-13:17/49
16	05:48	06:32	07:07-07:35/28	07:21		08:09		08:02	14:52-15:00/8	08:43	14:43-15:27/44
	21:55	21:07		20:00		18:53		16:57	08:37-08:53/16	16:38	12:28-13:18/50
17	05:49	06:34	07:06-07:34/28	07:22		08:11		08:04	14:48-15:04/16	08:44	14:43-15:27/44
	21:54	21:05		19:57		18:50		16:56	08:40-08:51/11	16:39	12:29-13:19/50
18	05:50	06:35	07:06-07:34/28	07:24		08:12		08:06	14:46-15:06/20	08:45	14:43-15:27/44
	21:52	21:03		19:55		18:48		16:55		16:39	12:28-13:18/50
19	05:51	06:37	07:06-07:33/27	07:25		08:14		08:07	14:43-15:07/24	08:45	14:44-15:28/44
	21:51	21:01		19:53		18:46		16:54		16:39	12:29-13:19/50
20	05:53	06:38	07:07-07:33/26	07:27		08:16	18:15-18:17/2	08:09	14:42-15:09/27	08:46	14:45-15:29/44
	21:50	20:59		19:50		18:44		16:52		16:40	12:30-13:20/50
21	05:54	06:40	07:07-07:32/25	07:29		08:18	18:11-18:14/3	08:11	14:41-15:11/30	08:47	14:45-15:29/44
	21:49	20:57		19:48		18:42		16:51		16:40	12:30-13:20/50
22	05:55	06:41	07:08-07:32/24	07:30		08:19	09:36-09:50/14	08:12	14:41-15:12/31	08:47	14:46-15:30/44
	21:48	20:55		19:46		18:40	18:10-18:12/2	16:50		16:40	12:31-13:21/50
23	05:57	06:43	07:09-07:30/21	07:32		08:21	09:34-09:52/18	08:14	14:39-15:12/33	08:48	14:46-15:30/44
	21:47	20:53		19:44		18:38		16:49		16:41	12:31-13:21/50
24	05:58	06:45	07:11-07:29/18	07:33	19:10-19:15/5	08:23	09:32-09:55/23	08:16	14:39-15:14/35	08:48	14:46-15:30/44
	21:45	20:50		19:41		18:36		16:48		16:41	12:31-13:21/50
25	05:59	06:46	07:12-07:26/14	07:35	19:08-19:12/4	07:24	08:31-08:56/25	08:17	14:39-15:15/36	08:48	14:47-15:31/44
	21:44	20:48		19:39		17:34		16:47	12:46-12:47/1	16:42	12:32-13:22/50
26	06:01	06:48	07:14-07:24/10	07:37	19:07-19:10/3	07:26	08:29-08:58/29	08:19	14:38-15:15/37	08:49	14:47-15:31/44
	21:43	20:46		19:37		17:32		16:46	12:36-12:53/17	16:43	12:33-13:23/50
27	06:02	06:49		07:38	19:07-19:08/1	07:28	08:28-08:58/30	08:20	14:38-15:16/38	08:49	14:48-15:32/44
	21:41	20:44		19:35		17:30		16:45	12:34-12:57/23	16:44	12:33-13:23/50
28	06:03	06:51		07:40		07:30	08:27-08:59/32	08:22	14:38-15:17/39	08:49	14:48-15:32/44
	21:40	20:42		19:32		17:28		16:44	12:33-12:59/26	16:44	12:34-13:23/49
29	06:05	06:52		07:41		07:31	08:26-09:00/34	08:23	14:38-15:17/39	08:49	14:48-15:32/44
	21:38	20:40		19:30		17:27		16:44	12:31-13:01/30	16:45	12:34-13:23/49
30	06:06	06:54	19:41-19:45/4	07:43		07:33	08:26-09:00/34	08:25	14:38-15:19/41	08:50	14:49-15:33/44
	21:37	20:38		19:28		17:25		16:43	12:30-13:03/33	16:46	12:35-13:23/48
31	06:08	06:56	19:36-19:48/12			07:35	08:26-09:01/35			08:50	14:49-15:33/44
	21:35	20:35				17:23				16:47	12:36-13:24/48
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	483		272		281		1089		2799	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	08:12-08:31/19	06:20		05:36	
	16:48	17:35	18:25		20:17		21:06		21:51	
2	08:50	08:22	07:30		07:21	08:15-08:28/13	06:18		05:36	
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28		07:19		06:16		05:35	
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26		07:16		06:15		05:34	
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24		07:14		06:13		05:33	
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21		07:12		06:11		05:33	
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19		07:10		06:09		05:32	
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17		07:08		06:08		05:32	
	16:56	17:47	18:37		20:29		21:17		21:57	
9	08:47	08:11	07:15		07:05		06:06		05:31	
	16:57	17:49	18:38		20:30		21:19		21:58	
10	08:47	08:09	07:13		07:03		06:04		05:31	
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:46	08:08	07:10		07:01		06:03	06:28-06:29/1	05:30	06:00-06:01/1
	17:00	17:53	18:42		20:33		21:22		22:00	
12	08:46	08:06	07:08	07:31-07:32/1	06:59		06:01	06:26-06:29/3	05:30	05:59-06:00/1
	17:02	17:54	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	07:29-07:37/8	06:57		05:59	06:25-06:29/4	05:30	05:59-06:00/1
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	07:26-07:38/12	06:55		05:58	06:23-06:28/5	05:30	05:59-06:00/1
	17:05	17:58	18:47		20:38		21:27		22:02	
15	08:44	08:00	07:02	07:24-07:40/16	06:52		05:56	06:22-06:28/6	05:30	05:59-06:00/1
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:22-07:42/20	06:50		05:55	06:21-06:28/7	05:29	05:59-06:00/1
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	07:19-07:42/23	06:48		05:53	06:19-06:27/8	05:29	05:59-06:00/1
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	07:17-07:43/26	06:46		05:52	06:18-06:26/8	05:29	05:59-06:00/1
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:53	07:15-07:43/28	06:44		05:51	06:17-06:25/8	05:29	05:59-06:00/1
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50	07:13-07:44/31	06:42		05:49	06:19-06:24/5	05:29	05:59-06:00/1
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48	07:10-07:43/33	06:40		05:48		05:30	06:00-06:01/1
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46	07:08-07:43/35	06:38		05:47		05:30	06:00-06:01/1
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:43	07:08-07:43/35	06:36		05:45		05:30	06:00-06:01/1
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41	07:08-07:43/35	06:34		05:44		05:30	06:00-06:01/1
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:40	06:39	07:08-07:42/34	06:32		05:43		05:31	06:01-06:02/1
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37	07:08-07:41/33	06:30		05:42		05:31	06:01-06:02/1
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34	07:08-07:40/32	06:28		05:41		05:31	06:02-06:03/1
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32	07:08-07:39/31	06:26		05:40		05:32	06:02-06:03/1
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	08:09-08:37/28	06:24		05:39		05:32	06:03-06:04/1
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	08:10-08:36/26	06:22		05:38		05:33	06:03-06:04/1
	17:31		20:14		21:05		21:48		22:04	
31	08:25		07:25	08:12-08:34/22			05:37			
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	509		32		55		20	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34	06:04-06:05/1	06:09	06:37-06:39/2	06:57		07:44	08:09-08:14/5	07:36	08:26
	22:04		21:34		20:33		19:25		17:21	16:42
2	05:34	06:04-06:05/1	06:10		06:59		07:46		07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35		06:12		07:00		07:48		07:40	08:29
	22:04		21:30		20:29		19:21		17:17	16:41
4	05:36		06:13		07:02		07:49		07:42	08:30
	22:03		21:29		20:27		19:19		17:16	16:40
5	05:37		06:15		07:03		07:51		07:43	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37		06:16		07:05		07:52		07:45	08:33
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38		06:18		07:06		07:54		07:47	08:34
	22:02		21:24		20:20		19:12		17:11	16:39
8	05:39		06:19		07:08		07:56		07:49	08:35
	22:01		21:22		20:18		19:10		17:09	16:39
9	05:40		06:21		07:10		07:57		07:50	08:36
	22:00		21:20		20:15		19:08		17:07	16:38
10	05:41		06:23		07:11	08:09-08:21/12	07:59		07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42		06:24		07:13	08:06-08:24/18	08:01		07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43		06:26		07:14	08:03-08:25/22	08:02		07:56	08:39
	21:58		21:14		20:09		19:01		17:03	16:38
13	05:44		06:27		07:16	08:02-08:27/25	08:04		07:57	08:40
	21:57		21:12		20:06		18:59		17:01	16:38
14	05:45		06:29		07:17	08:00-08:28/28	08:06		07:59	08:41
	21:56		21:11		20:04		18:57		17:00	16:38
15	05:46		06:30		07:19	07:59-08:29/30	08:07		08:01	08:42
	21:56		21:09		20:02		18:55		16:58	16:38
16	05:47		06:32		07:21	07:57-08:29/32	08:09		08:02	08:43
	21:55		21:07		19:59		18:52		16:57	16:38
17	05:49		06:33		07:22	07:56-08:29/33	08:11		08:04	08:44
	21:54		21:05		19:57		18:50		16:56	16:38
18	05:50		06:35		07:24	07:55-08:29/34	08:12		08:06	08:45
	21:52		21:03		19:55		18:48		16:55	16:39
19	05:51		06:37		07:25	07:55-08:29/34	08:14		08:07	08:45
	21:51		21:01		19:53		18:46		16:53	16:39
20	05:52		06:38		07:27	07:55-08:30/35	08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54		06:40		07:28	07:54-08:29/35	08:17		08:11	08:47
	21:49		20:57		19:48		18:42		16:51	16:40
22	05:55		06:41		07:30	07:55-08:29/34	08:19		08:12	08:47
	21:48		20:55		19:46		18:40		16:50	16:40
23	05:56		06:43		07:32	07:56-08:27/31	08:21		08:14	08:48
	21:47		20:52		19:43		18:38		16:49	16:41
24	05:58	06:29-06:35/6	06:44		07:33	07:58-08:27/29	08:23		08:16	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59	06:28-06:36/8	06:46		07:35	07:59-08:25/26	07:24		08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00	06:29-06:37/8	06:48		07:36	08:01-08:25/24	07:26		08:19	08:49
	21:43		20:46		19:37		17:32		16:46	16:43
27	06:02	06:30-06:38/8	06:49		07:38	08:03-08:24/21	07:28		08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03	06:32-06:39/7	06:51		07:40	08:04-08:22/18	07:30		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:05	06:33-06:39/6	06:52		07:41	08:06-08:20/14	07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06	06:34-06:39/5	06:54		07:43	08:07-08:17/10	07:33		08:25	08:50
	21:37		20:38		19:28		17:25		16:43	16:46
31	06:07	06:36-06:39/3	06:55				07:35			08:50
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	53		2		545		5		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT19 - VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 13:56-14:53/57 09:36-10:09/33 16:48 11:31-12:19/48	08:24 13:51-15:19/88 17:35	07:32 14:09-15:06/57 07:58-08:14/16 18:25 08:22-08:39/17	07:23 07:46-08:10/24 20:17 18:12-18:47/35	06:20 21:06	05:36 06:14-06:46/32 21:50
2	08:49 13:56-14:54/58 09:37-10:10/33 16:49 11:31-12:19/48	08:22 13:51-15:19/88 17:36	07:30 14:11-15:04/53 07:59-08:13/14 18:26 08:24-08:37/13	07:21 07:43-08:09/26 20:19 18:14-18:46/32	06:18 21:08	05:36 06:14-06:47/33 21:52
3	08:49 13:55-14:54/59 09:37-10:10/33 16:50 11:31-12:19/48	08:21 13:51-15:19/88 17:38	07:28 14:15-15:02/47 08:00-08:12/12 18:28 08:29-08:31/2	07:19 07:43-08:08/25 20:20 18:16-18:43/27	06:16 21:09	05:35 06:14-06:47/33 21:53
4	08:49 13:55-14:55/60 09:37-10:10/33 16:51 11:32-12:19/47	08:19 13:51-15:20/89 17:40	07:26 17:34-17:39/5 08:02-08:10/8 18:30 14:18-14:59/41	07:17 07:43-08:07/24 20:22 18:19-18:41/22	06:15 21:11	05:34 06:13-06:46/33 21:54
5	08:49 13:56-14:57/61 09:38-10:11/33 16:53 11:34-12:19/45	08:18 13:51-15:20/89 17:42	07:24 17:27-17:45/18 07:46-07:50/4 18:32 14:22-14:55/33	07:14 07:44-08:06/22 20:24 18:23-18:37/14	06:13 21:13	05:34 06:14-06:47/33 21:55
6	08:49 13:55-14:57/62 09:38-10:11/33 16:54 11:34-12:19/45	08:16 13:51-15:20/89 17:44	07:21 17:23-17:48/25 07:44-07:53/9 18:33 14:28-14:50/22	07:12 07:44-08:03/19 20:25	06:11 21:14	05:33 06:14-06:47/33 21:55
7	08:48 13:55-14:58/63 09:38-10:12/34 16:55 11:35-12:19/44	08:14 13:51-15:20/89 17:45	07:19 17:21-17:51/30 18:35 07:42-07:55/13	07:10 07:46-08:01/15 20:27	06:09 21:16	05:32 06:14-06:48/34 21:56
8	08:48 13:55-14:59/64 09:38-10:12/34 16:56 11:36-12:19/43	08:13 13:52-15:21/89 17:47	07:17 17:19-17:53/34 18:37 07:40-07:56/16	07:08 20:29	06:08 21:17	05:32 06:15-06:48/33 21:57
9	08:47 13:55-15:01/66 09:39-10:13/34 16:58 11:37-12:19/42	08:11 13:51-15:20/89 17:49	07:15 17:16-17:53/37 18:39 07:38-07:57/19	07:05 20:30	06:06 21:19	05:31 06:14-06:48/34 21:58
10	08:47 13:55-15:01/66 09:40-10:13/33 16:59 11:38-12:19/41	08:09 13:51-15:20/89 17:51	07:13 17:15-17:55/40 18:40 07:35-07:56/21	07:03 20:32	06:04 21:20	05:31 06:15-06:48/33 21:59
11	08:46 13:54-15:02/68 09:40-10:13/33 17:00 11:39-12:18/39	08:08 13:52-15:20/88 17:53	07:10 17:14-17:56/42 18:42 07:34-07:56/22	07:01 20:33	06:03 21:22	05:31 06:15-06:49/34 22:00
12	08:46 13:54-15:03/69 09:41-10:14/33 17:02 11:40-12:17/37	08:06 13:52-15:20/88 17:54	07:08 17:13-17:57/44 18:44 07:34-07:56/22	06:59 20:35	06:01 21:24	05:30 06:15-06:48/33 22:00
13	08:45 13:54-15:04/70 09:41-10:14/33 17:03 11:42-12:18/36	08:04 13:52-15:20/88 17:56 08:28-08:36/8	07:06 17:11-17:57/46 18:45 07:34-07:56/22	06:57 20:37	05:59 21:25	05:30 06:15-06:49/34 22:01
14	08:44 13:54-15:05/71 09:42-10:14/32 17:05 11:43-12:17/34	08:02 13:52-15:19/87 17:58 08:26-08:39/13	07:04 17:10-17:58/48 18:47 07:34-07:54/20	06:55 20:38	05:58 21:27	05:30 06:15-06:49/34 22:01
15	08:44 13:54-15:06/72 09:42-10:14/32 17:06 11:45-12:16/31	08:00 13:53-15:19/86 18:00 08:24-08:41/17	07:02 17:10-17:59/49 18:49 07:35-07:54/19	06:52 20:40	05:56 21:28	05:30 06:16-06:49/33 22:02
16	08:43 13:54-15:07/73 09:43-10:14/31 17:08 11:46-12:15/29	07:58 13:53-15:19/86 18:02 08:22-08:42/20	06:59 17:09-17:59/50 18:50 07:36-07:52/16	06:50 20:42	05:55 21:30	05:30 06:16-06:49/33 22:02
17	08:42 13:53-15:08/75 09:44-10:14/30 17:09 11:48-12:13/25	07:56 13:54-15:18/84 18:03 08:21-08:43/22	06:57 17:08-17:59/51 18:52 07:37-07:51/14	06:48 07:11-07:14/3 20:43	05:53 06:28-06:29/1 21:31	05:29 06:16-06:50/34 22:03
18	08:41 13:53-15:09/76 09:44-10:14/30 17:11 11:51-12:11/20	07:55 13:54-15:18/84 18:05 08:20-08:44/24	06:55 17:07-17:59/52 18:54 07:39-07:47/8	06:46 07:09-07:14/5 20:45	05:52 06:23-06:34/11 21:32	05:29 06:16-06:50/34 22:03
19	08:40 13:53-15:10/77 09:45-10:14/29 17:12 11:54-12:08/14	07:53 13:55-15:17/82 18:07 08:19-08:45/26	06:53 17:07-17:59/52 18:55	06:44 07:07-07:14/7 20:47	05:51 06:21-06:37/16 21:34	05:29 06:16-06:50/34 22:04
20	08:39 13:52-15:10/78 17:14 09:46-10:14/28	07:51 13:56-15:17/81 18:09 08:18-08:45/27	06:50 17:07-17:59/52 18:57	06:42 07:05-07:13/8 20:48	05:49 06:20-06:38/18 21:35	05:30 06:16-06:50/34 22:04
21	08:38 13:52-15:11/79 17:16 09:46-10:13/27	07:49 13:57-15:16/79 18:11 08:18-08:45/27	06:48 17:06-17:58/52 18:59	06:40 07:03-07:12/9 20:50	05:48 06:19-06:40/21 21:37	05:30 06:16-06:50/34 22:04
22	08:37 13:52-15:12/80 17:17 09:48-10:12/24	07:47 13:58-15:15/77 08:10-08:12/2 18:12 08:18-08:45/27	06:46 17:07-17:58/51 19:00	06:38 07:02-07:11/9 20:52	05:47 06:17-06:40/23 21:38	05:30 06:17-06:51/34 22:04
23	08:36 13:52-15:13/81 17:19 09:49-10:12/23	07:45 13:59-15:14/75 08:08-08:14/6 18:14 08:18-08:45/27	06:44 17:07-17:58/51 19:02	06:36 07:04-07:08/4 20:53	05:46 06:16-06:41/25 21:39	05:30 06:17-06:51/34 22:05
24	08:35 13:51-15:13/82 17:21 09:51-10:11/20	07:43 14:00-15:14/74 08:06-08:15/9 18:16 08:18-08:45/27	06:41 17:06-17:56/50 19:04	06:34 20:55	05:44 06:16-06:42/26 21:41	05:30 06:17-06:51/34 22:05
25	08:33 13:52-15:14/82 17:22 09:52-10:09/17	07:40 14:02-15:13/71 08:04-08:15/11 18:18 08:19-08:44/25	06:39 07:01-07:04/3 19:05 17:07-17:56/49	06:32 20:56	05:43 06:15-06:42/27 21:42	05:31 06:18-06:52/34 22:05
26	08:32 13:52-15:15/83 17:24 09:55-10:07/12	07:38 14:03-15:11/68 08:02-08:16/14 18:19 08:19-08:44/25	06:37 06:59-07:07/8 19:07 17:07-17:55/48	06:30 20:58	05:42 06:15-06:43/28 21:43	05:31 06:18-06:52/34 22:05
27	08:31 13:51-15:15/84 17:26 09:58-10:03/5	07:36 14:04-15:09/65 08:00-08:16/16 18:21 08:20-08:43/23	06:34 06:57-07:09/12 19:09 17:08-17:55/47	06:28 21:00	05:41 06:14-06:44/30 21:45	05:32 06:19-06:52/33 22:05
28	08:30 13:51-15:16/85 17:28	07:34 14:06-15:08/62 07:57-08:15/18 18:23 08:20-08:41/21	06:32 06:55-07:10/15 19:10 17:08-17:53/45	06:26 21:01	05:40 06:14-06:44/30 21:46	05:32 06:18-06:52/34 22:05
29	08:28 13:51-15:16/85 17:29		07:30 07:52-08:10/18 20:12 18:09-18:52/43	06:24 21:03	05:39 06:15-06:45/30 21:47	05:33 06:19-06:53/34 22:05
30	08:27 13:51-15:18/87 17:31		07:28 07:50-08:10/20 20:14 18:10-18:51/41	06:22 21:05	05:38 06:14-06:45/31 21:48	05:33 06:19-06:52/33 22:04
31	08:25 13:51-15:18/87 17:33		07:25 07:48-08:10/22 20:15 18:11-18:50/39		05:37 06:14-06:46/32 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	3748	2747	1849	330	349	1006

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT19 - VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:19-06:53/34 22:04	06:09 21:34	06:57 20:33	07:44 17:51-18:36/45 19:25 08:13-08:35/22	07:36 13:21-14:50/89 17:21	08:26 13:36-14:44/68 09:22-09:55/33 16:42 11:21-12:00/39
2	05:34 06:19-06:53/34 22:04	06:11 21:32	06:59 20:31	07:46 17:52-18:36/44 19:23 08:13-08:35/22	07:38 13:21-14:50/89 17:19	08:27 13:38-14:44/66 09:23-09:56/33 16:41 11:21-12:02/41
3	05:35 06:19-06:53/34 22:03	06:12 21:30	07:00 20:29	07:48 17:52-18:33/41 19:21 08:12-08:34/22	07:40 13:20-14:49/89 17:17	08:29 13:38-14:44/66 09:23-09:56/33 16:41 11:20-12:02/42
4	05:36 06:20-06:54/34 22:03	06:13 21:29	07:02 20:27	07:49 17:54-18:32/38 19:19 08:14-08:34/20	07:42 13:20-14:49/89 17:16	08:30 13:40-14:44/64 09:23-09:57/34 16:40 11:21-12:04/43
5	05:37 06:20-06:54/34 22:03	06:15 21:27	07:03 07:43-07:58/15 20:24	07:51 17:55-18:30/35 19:16 08:16-08:33/17	07:43 13:20-14:49/89 17:14	08:31 13:40-14:44/64 09:24-09:57/33 16:40 11:20-12:04/44
6	05:37 06:20-06:53/33 22:02	06:17 21:25	07:05 07:40-07:59/19 20:22	07:52 17:56-18:28/32 19:14 08:17-08:31/14	07:45 13:21-14:49/88 17:12	08:33 13:41-14:43/62 09:24-09:57/33 16:39 11:20-12:05/45
7	05:38 06:20-06:54/34 22:02	06:18 21:23	07:06 07:39-08:01/22 20:20 18:18-18:32/14	07:54 17:58-18:25/27 08:19-08:30/11 19:12 15:09-15:22/13	07:47 13:21-14:49/88 17:11	08:34 13:42-14:43/61 09:25-09:58/33 16:39 11:21-12:07/46
8	05:39 06:21-06:54/33 22:01	06:20 21:22	07:08 07:37-08:01/24 20:18 18:13-18:35/22	07:56 18:01-18:23/22 08:21-08:28/7 19:10 15:01-15:29/28	07:49 13:21-14:49/88 17:09	08:35 13:43-14:43/60 09:25-09:58/33 16:39 11:21-12:07/46
9	05:40 06:21-06:54/33 22:00	06:21 21:20	07:10 07:37-08:02/25 20:15 18:10-18:37/27	07:57 18:04-18:18/14 08:38-08:41/3 19:08 14:55-15:32/37	07:50 13:22-14:49/87 17:07	08:36 13:44-14:43/59 09:25-09:58/33 16:39 11:21-12:08/47
10	05:41 06:21-06:54/33 22:00	06:23 21:18	07:11 07:36-08:02/26 20:13 18:07-18:39/32	07:59 14:51-15:35/44 19:05 08:35-08:45/10	07:52 13:22-14:49/87 17:06	08:37 13:45-14:43/58 09:26-09:59/33 16:38 11:21-12:08/47
11	05:42 06:22-06:54/32 21:59	06:24 21:16	07:13 07:38-08:02/24 20:11 18:06-18:40/34	08:01 14:47-15:37/50 08:33-08:47/14 19:03 09:00-09:09/9	07:54 13:22-14:48/86 17:04	08:38 13:46-14:43/57 09:26-09:59/33 16:38 11:21-12:09/48
12	05:43 06:22-06:54/32 21:58	06:26 21:14	07:14 07:39-08:01/22 20:09 18:03-18:41/38	08:02 14:43-15:38/55 08:32-08:48/16 19:01 08:57-09:12/15	07:56 13:22-14:48/86 17:03	08:39 13:46-14:43/57 09:27-09:59/32 16:38 11:21-12:09/48
13	05:44 06:23-06:54/31 21:57	06:27 21:12	07:16 07:41-08:01/20 20:06 18:02-18:42/40	08:04 14:41-15:40/59 08:31-08:48/17 18:59 08:54-09:13/19	07:57 13:23-14:48/85 17:01	08:40 13:47-14:43/56 09:27-10:00/33 16:38 11:21-12:10/49
14	05:45 06:23-06:54/31 21:56	06:29 21:11	07:17 07:42-08:00/18 20:04 17:59-18:42/43	08:06 14:39-15:42/63 08:31-08:48/17 18:57 08:53-09:14/21	07:59 13:23-14:48/85 17:00	08:41 13:48-14:43/55 09:28-10:00/32 16:38 11:21-12:11/50
15	05:46 06:23-06:54/31 21:55	06:30 21:09	07:19 07:44-07:59/15 20:02 17:58-18:43/45	08:07 14:37-15:43/66 08:33-08:48/15 18:55 08:52-09:15/23	08:01 13:24-14:48/84 16:59 09:31-09:37/6	08:42 13:49-14:43/54 09:28-10:01/33 16:38 11:22-12:12/50
16	05:48 06:24-06:53/29 21:54	06:32 21:07	07:21 07:45-07:57/12 19:59 17:57-18:43/46	08:09 14:34-15:43/69 08:35-08:48/13 18:52 08:51-09:16/25	08:02 13:25-14:48/83 16:57 09:28-09:41/13	08:43 13:50-14:43/53 09:29-10:01/32 16:38 11:22-12:12/50
17	05:49 06:24-06:53/29 21:53	06:34 21:05	07:22 07:47-07:56/9 19:57 17:56-18:44/48	08:11 14:32-15:44/72 08:36-08:46/10 18:50 08:50-09:16/26	08:04 13:26-14:48/82 16:56 09:26-09:43/17	08:44 13:51-14:44/53 09:30-10:02/32 16:38 11:23-12:13/50
18	05:50 06:25-06:52/27 21:52	06:35 21:03	07:24 07:49-07:53/4 19:55 17:54-18:43/49	08:12 14:31-15:45/74 08:38-08:46/8 18:48 08:49-09:16/27	08:06 13:25-14:47/82 16:55 09:24-09:44/20	08:45 13:51-14:43/52 09:29-10:02/33 16:39 11:23-12:13/50
19	05:51 06:25-06:52/27 21:51	06:37 21:01	07:25 17:54-18:44/50 19:53	08:14 14:30-15:46/76 08:40-08:45/5 18:46 08:49-09:17/28	08:07 13:26-14:47/81 16:53 09:23-09:46/23	08:45 13:52-14:44/52 09:30-10:02/32 16:39 11:23-12:14/51
20	05:52 06:27-06:52/25 21:50	06:38 07:09-07:15/6 20:59	07:27 17:53-18:44/51 19:50	08:16 14:29-15:47/78 18:44 08:49-09:17/28	08:09 13:27-14:47/80 16:52 09:23-09:47/24	08:46 13:53-14:45/52 09:31-10:03/32 16:39 11:24-12:15/51
21	05:54 06:27-06:51/24 21:49	06:40 07:07-07:16/9 20:57	07:28 17:52-18:43/51 19:48	08:17 14:27-15:47/80 18:42 08:49-09:16/27	08:11 13:28-14:47/79 16:51 09:22-09:49/27	08:46 13:53-14:45/52 09:31-10:03/32 16:40 11:24-12:15/51
22	05:55 06:28-06:50/22 21:48	06:41 07:08-07:17/9 20:55	07:30 17:52-18:44/52 19:46	08:19 14:26-15:47/81 18:40 08:49-09:15/26	08:12 13:29-14:47/78 16:50 09:22-09:50/28	08:47 13:54-14:46/52 09:32-10:04/32 16:40 11:25-12:16/51
23	05:56 06:29-06:49/20 21:46	06:43 07:09-07:17/8 20:52	07:32 17:51-18:43/52 19:44	08:21 14:25-15:48/83 18:38 08:50-09:15/25	08:14 13:29-14:46/77 09:21-09:50/29 16:49 11:30-11:44/14	08:48 13:54-14:46/52 09:32-10:04/32 16:41 11:25-12:16/51
24	05:58 06:31-06:48/17 21:45	06:44 07:11-07:18/7 20:50	07:33 17:51-18:43/52 19:41	08:23 14:25-15:48/83 18:36 08:50-09:14/24	08:15 13:30-14:46/76 09:21-09:51/30 16:48 11:28-11:48/20	08:48 13:54-14:46/52 09:32-10:04/32 16:41 11:25-12:16/51
25	05:59 06:33-06:46/13 21:44	06:46 07:12-07:17/5 20:48	07:35 17:50-18:42/52 19:39 08:24-08:27/3	07:24 13:24-14:49/85 17:34 07:51-08:14/23	08:17 13:31-14:46/75 09:22-09:52/30 16:47 11:26-11:51/25	08:48 13:55-14:47/52 09:33-10:05/32 16:42 11:27-12:17/50
26	06:00 06:35-06:43/8 21:42	06:48 07:14-07:17/3 20:46	07:36 17:50-18:41/51 19:37 08:20-08:31/11	07:26 13:22-14:48/86 17:32 07:53-08:12/19	08:19 13:32-14:45/73 09:21-09:52/31 16:46 11:24-11:53/29	08:49 13:55-14:48/53 09:34-10:06/32 16:43 11:27-12:17/50
27	06:02 21:41	06:49 20:44	07:38 17:51-18:41/50 19:34 08:18-08:33/15	07:28 13:22-14:49/87 17:30 07:54-08:10/16	08:20 13:33-14:45/72 09:21-09:53/32 16:45 11:24-11:55/31	08:49 13:55-14:48/53 09:34-10:06/32 16:43 11:27-12:17/50
28	06:03 21:40	06:51 20:42	07:40 17:50-18:40/50 19:32 08:16-08:34/18	07:30 13:22-14:49/87 17:28 07:56-08:08/12	08:22 13:34-14:45/71 09:22-09:54/32 16:44 11:23-11:57/34	08:49 13:55-14:49/54 09:34-10:06/32 16:44 11:28-12:17/49
29	06:05 21:38	06:52 20:40	07:41 17:51-18:39/48 19:30 08:15-08:35/20	07:31 13:21-14:49/88 17:26 07:59-08:04/5	08:23 13:34-14:45/71 09:21-09:54/33 16:43 11:22-11:58/36	08:49 13:55-14:50/55 09:34-10:07/33 16:45 11:28-12:18/50
30	06:06 21:37	06:54 20:38	07:43 17:50-18:37/47 19:28 08:14-08:36/22	07:33 13:21-14:50/89 17:25	08:25 13:36-14:45/69 09:22-09:55/33 16:43 11:22-11:59/37	08:49 13:55-14:50/55 09:35-10:07/32 16:46 11:29-12:18/49
31	06:08 21:35	06:55 20:35		07:35 13:21-14:50/89 17:23		08:49 13:55-14:51/56 09:35-10:08/33 16:47 11:30-12:18/48
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	734	47	1388	2681	3092	4251

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 13:21-14:39/78 16:48	08:24 13:49-14:35/46 17:35	07:32 17:40-17:59/19 18:25	07:23 19:11-19:50/39 20:17	06:20 21:06	05:36 21:51
2	08:50 13:21-14:40/79 16:49	08:23 13:51-14:32/41 17:36	07:30 17:39-18:01/22 18:26	07:21 19:11-19:50/39 20:19	06:18 21:08	05:36 21:52
3	08:49 13:22-14:40/78 16:50	08:21 13:54-14:30/36 17:38	07:28 17:39-18:03/24 18:28	07:19 19:10-19:51/41 20:20	06:16 21:10	05:35 06:03-06:05/2 21:53
4	08:49 13:22-14:40/78 16:51	08:19 13:58-14:28/30 17:40	07:26 17:38-18:05/27 18:30	07:17 19:10-19:51/41 20:22	06:15 21:11	05:34 06:02-06:06/4 21:54
5	08:49 13:23-14:41/78 16:52	08:18 14:03-14:24/21 17:42	07:24 17:37-18:06/29 18:32	07:14 19:10-19:50/40 20:24	06:13 21:13	05:33 06:02-06:07/5 21:55
6	08:49 13:23-14:41/78 16:54	08:16 14:12-14:15/3 17:44	07:21 17:37-18:07/30 18:33	07:12 19:09-19:49/40 20:25	06:11 21:14	05:33 06:01-06:07/6 21:56
7	08:48 13:24-14:41/77 16:55	08:15 17:45	07:19 17:37-18:07/30 18:35	07:10 19:09-19:49/40 20:27	06:09 21:16	05:32 06:01-06:08/7 21:56
8	08:48 13:24-14:41/77 16:56	08:13 17:47	07:17 17:37-18:07/30 18:37	07:08 19:10-19:48/38 20:29	06:08 21:17	05:32 06:01-06:10/9 21:57
9	08:48 13:25-14:42/77 16:58	08:11 17:49	07:15 17:37-18:06/29 18:39	07:05 19:10-19:48/38 20:30	06:06 21:19	05:31 06:00-06:09/9 21:58
10	08:47 13:25-14:42/77 16:59	08:09 17:51	07:13 17:37-18:05/28 18:40	07:03 19:11-19:47/36 20:32	06:04 21:21	05:31 06:00-06:10/10 21:59
11	08:46 13:26-14:42/76 17:00	08:08 17:53	07:10 17:38-18:04/26 18:42	07:01 19:11-19:45/34 20:34	06:03 21:22	05:31 06:00-06:11/11 22:00
12	08:46 13:27-14:43/76 17:02	08:06 17:54	07:08 17:39-18:03/24 18:44	06:59 19:11-19:44/33 20:35	06:01 21:24	05:30 05:59-06:11/12 22:00
13	08:45 13:28-14:43/75 17:03	08:04 17:56	07:06 17:40-18:01/21 18:45	06:57 19:13-19:43/30 20:37	05:59 21:25	05:30 05:59-06:11/12 22:01
14	08:45 13:28-14:43/75 17:05	08:02 17:58	07:04 17:42-17:59/17 18:47	06:55 19:14-19:41/27 20:38	05:58 21:27	05:30 05:59-06:12/13 22:02
15	08:44 13:29-14:43/74 17:06	08:00 18:00	07:02 17:45-17:56/11 18:49	06:52 19:16-19:40/24 20:40	05:56 21:28	05:30 05:59-06:12/13 22:02
16	08:43 13:29-14:43/74 17:08	07:58 18:02	06:59 18:50	06:50 19:18-19:37/19 20:42	05:55 21:30	05:30 05:59-06:13/14 22:03
17	08:42 13:30-14:43/73 17:09	07:57 18:03	06:57 18:21-18:27/6 18:52	06:48 19:20-19:34/14 20:43	05:53 21:31	05:29 05:59-06:13/14 22:03
18	08:41 13:31-14:43/72 17:11	07:55 18:05	06:55 18:19-18:29/10 18:54	06:46 20:45	05:52 21:33	05:29 05:59-06:13/14 22:03
19	08:40 13:32-14:43/71 17:12	07:53 18:07	06:53 18:17-18:31/14 18:55	06:44 20:47	05:51 21:34	05:29 05:59-06:13/14 22:04
20	08:39 13:33-14:43/70 17:14	07:51 18:09	06:50 18:16-18:32/16 18:57	06:42 20:48	05:49 21:35	05:30 05:59-06:13/14 22:04
21	08:38 13:33-14:42/69 17:16	07:49 18:11	06:48 18:14-18:33/19 18:59	06:40 20:50	05:48 21:37	05:30 05:59-06:14/15 22:04
22	08:37 13:34-14:42/68 17:17	07:47 18:12	06:46 18:13-18:35/22 19:00	06:38 20:52	05:47 21:38	05:30 06:00-06:14/14 22:05
23	08:36 13:36-14:42/66 17:19	07:45 18:14	06:44 18:13-18:37/24 19:02	06:36 20:53	05:46 21:40	05:30 06:00-06:14/14 22:05
24	08:35 13:37-14:42/65 17:21	07:43 18:16	06:41 18:12-18:38/26 19:04	06:34 20:55	05:44 21:41	05:30 06:00-06:14/14 22:05
25	08:34 13:37-14:41/64 17:22	07:41 17:48-17:52/4 18:18	06:39 18:11-18:40/29 19:05	06:32 20:57	05:43 21:42	05:31 06:01-06:15/14 22:05
26	08:32 13:39-14:41/62 17:24	07:38 17:46-17:54/8 18:19	06:37 18:12-18:42/30 19:07	06:30 20:58	05:42 21:43	05:31 06:01-06:15/14 22:05
27	08:31 13:40-14:39/59 17:26	07:36 17:44-17:56/12 18:21	06:35 18:12-18:44/32 19:09	06:28 21:00	05:41 21:45	05:32 06:02-06:15/13 22:05
28	08:30 13:42-14:39/57 17:28	07:34 17:41-17:57/16 18:23	06:32 18:11-18:45/34 19:10	06:26 21:01	05:40 21:46	05:32 06:02-06:15/13 22:05
29	08:28 13:43-14:38/55 17:29		07:30 19:12-19:47/35 20:12	06:24 21:03	05:39 21:47	05:33 06:03-06:16/13 22:05
30	08:27 13:45-14:37/52 17:31		07:28 19:12-19:49/37 20:14	06:22 21:05	05:38 21:48	05:33 06:03-06:15/12 22:04
31	08:26 13:46-14:35/49 17:33		07:26 19:13-19:50/37 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	2179	217	738	573	0	319

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:15/11	06:09	06:57 19:10-19:45/35	07:44 18:19-18:42/23	07:37	08:26 13:08-14:24/76
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:15/11	06:11	06:59 19:09-19:45/36	07:46 18:17-18:43/26	07:38	08:27 13:09-14:25/76
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:15/10	06:12	07:00 19:08-19:46/38	07:48 18:16-18:43/27	07:40	08:29 13:08-14:25/77
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:15/9	06:14	07:02 19:07-19:45/38	07:49 18:15-18:43/28	07:42	08:30 13:09-14:26/77
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:15/8	06:15	07:03 19:07-19:46/39	07:51 18:14-18:44/30	07:44 13:39-13:47/8	08:31 13:09-14:26/77
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:14/7	06:17	07:05 19:05-19:45/40	07:53 18:13-18:43/30	07:45 13:32-13:54/22	08:33 13:09-14:27/78
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:14/6	06:18	07:07 19:05-19:46/41	07:54 18:13-18:43/30	07:47 13:27-13:58/31	08:34 13:10-14:28/78
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20	07:08 19:04-19:45/41	07:56 18:13-18:43/30	07:49 13:24-14:01/37	08:35 13:10-14:28/78
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21	07:10 19:05-19:45/40	07:57 18:12-18:40/28	07:50 13:22-14:03/41	08:36 13:10-14:28/78
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:12/1	06:23	07:11 19:04-19:44/40	07:59 18:13-18:38/25	07:52 13:20-14:06/46	08:37 13:10-14:29/79
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 19:04-19:43/39	08:01 18:13-18:36/23	07:54 13:18-14:07/49	08:38 13:11-14:29/78
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:04-19:42/38	08:02 18:13-18:33/20	07:56 13:16-14:08/52	08:39 13:11-14:30/79
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:04-19:40/36	08:04 18:14-18:31/17	07:57 13:15-14:10/55	08:40 13:11-14:30/79
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 19:02-19:37/35	08:06 18:15-18:29/14	07:59 13:14-14:11/57	08:41 13:12-14:31/79
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 19:02-19:35/33	08:07 18:17-18:27/10	08:01 13:13-14:12/59	08:42 13:12-14:31/79
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 19:00-19:33/33	08:09 18:18-18:24/6	08:02 13:12-14:14/62	08:43 13:13-14:32/79
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49	06:34	07:22 19:00-19:31/31	08:11 18:21-18:22/1	08:04 13:11-14:15/64	08:44 13:14-14:33/79
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 18:59-19:28/29	08:12	08:06 13:11-14:16/65	08:45 13:13-14:32/79
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 18:59-19:26/27	08:14	08:08 13:10-14:16/66	08:45 13:14-14:33/79
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 18:59-19:24/25	08:16	08:09 13:09-14:17/68	08:46 13:15-14:34/79
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29 18:59-19:21/22	08:18	08:11 13:09-14:18/69	08:47 13:15-14:34/79
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 19:00-19:20/20	08:19	08:12 13:09-14:19/70	08:47 13:16-14:35/79
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 18:59-19:17/18	08:21	08:14 13:08-14:19/71	08:48 13:16-14:35/79
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 19:01-19:15/14	08:23	08:16 13:08-14:20/72	08:48 13:16-14:35/79
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 19:29-19:31/2	07:35 19:01-19:12/11	07:24	08:17 13:08-14:21/73	08:48 13:17-14:36/79
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 19:23-19:37/14	07:36 19:03-19:10/7	07:26	08:19 13:08-14:21/73	08:49 13:18-14:37/79
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 19:19-19:39/20	07:38 19:07-19:08/1	07:28	08:20 13:08-14:22/74	08:49 13:18-14:37/79
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51 19:17-19:42/25	07:40 18:27-18:36/9	07:30	08:22 13:08-14:23/75	08:49 13:18-14:37/79
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:15-19:42/27	07:41 18:23-18:39/16	07:31	08:23 13:08-14:23/75	08:49 13:19-14:38/79
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:13-19:44/31	07:43 18:20-18:40/20	07:33	08:25 13:08-14:24/76	08:50 13:19-14:38/79
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:11-19:44/33		07:35		08:50 13:20-14:38/78
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	70	152	852	368	1510	2431

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 09:18-09:25/7	07:32 08:04-08:08/4	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49	08:22 08:48-08:49/1	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49	08:21 08:46-08:48/2	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49	08:19 08:45-08:46/1	07:26	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49	08:18 08:43-08:46/3	07:23	07:14	06:13	05:33
	16:52	17:42	18:32	20:23	21:12	21:54
6	08:48	08:16 08:41-08:45/4	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13 08:41-08:42/1	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:07	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:20/6	08:04	07:06	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:22/9	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:26	22:01
15	08:43 09:12-09:23/11	08:00 08:24-08:26/2	07:01	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:24/13	07:58 08:22-08:25/3	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56 08:20-08:25/5	06:57	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:10-09:26/16	07:54 08:18-08:23/5	06:55	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:27/17	07:52 08:16-08:25/9	06:52	06:44	05:51	05:29
	17:12	18:07	18:55	20:46	21:34	22:04
20	08:39 09:09-09:27/18	07:50 08:14-08:25/11	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:09-09:28/19	07:48 08:12-08:26/14	06:48	06:40	05:48	05:30
	17:16 09:05-09:06/1	18:11	18:59	20:50	21:37	22:04
22	08:37 09:09-09:29/20	07:46 08:10-08:26/16	06:46	06:38	05:47	05:30
	17:17 09:04-09:07/3	18:12	19:00	20:51	21:38	22:04
23	08:36 09:10-09:30/20	07:44 08:08-08:26/18	06:43	06:36	05:46	05:30
	17:19 09:03-09:07/4	18:14	19:02	20:53	21:39	22:04
24	08:35 09:09-09:29/20	07:42 08:06-08:25/19	06:41	06:34	05:44	05:30
	17:21 09:02-09:08/6	18:16	19:04	20:55	21:41	22:05
25	08:33 09:10-09:30/20	07:40 08:04-08:24/20	06:39	06:32	05:43	05:31
	17:22 09:00-09:07/7	18:18	19:05	20:56	21:42	22:05
26	08:32 09:11-09:30/19	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24 09:00-09:06/6	18:19 08:14-08:22/8	19:07	20:58	21:43	22:05
27	08:31 09:11-09:29/18	07:36 08:02-08:13/11	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:44	22:05
28	08:29 09:12-09:30/18	07:34 08:02-08:11/9	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:12-09:29/17		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 09:14-09:28/14		07:28	06:22	05:38	05:33
	17:31		20:14	21:04	21:48	22:04
31	08:25 09:15-09:27/12		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	329	185	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:10	06:59	07:46		07:38		08:27	
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:10-08:12/2	08:29	
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:13	07:02	07:49		07:42	08:09-08:14/5	08:30	
	22:03	21:28	20:26	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:15/4	08:31	
	22:02	21:27	20:24	19:16		17:14		16:40	
6	05:37	06:16	07:05	07:52		07:45	08:13-08:15/2	08:32	
	22:02	21:25	20:22	19:14		17:12		16:39	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:17/2	08:34	
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:19/2	08:35	
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	
	22:00	21:20	20:15	19:07		17:07		16:38	
10	05:41	06:23	07:11	07:59		07:52	08:48-08:56/8	08:37	
	21:59	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:46-08:58/12	08:38	
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:55	08:45-08:59/14	08:39	
	21:58	21:14	20:08	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04	08:36-08:43/7	07:57	08:44-09:01/17	08:40	
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06	08:34-08:44/10	07:59	08:44-09:02/18	08:41	
	21:56	21:10	20:04	18:57		17:00		16:38	
15	05:46	06:30	07:19	08:07	08:34-08:45/11	08:01	08:44-09:02/18	08:42	
	21:55	21:08	20:02	18:55	08:47-08:53/6	16:59		16:38	
16	05:48	06:32	07:21	08:09	08:34-08:54/20	08:02	08:44-09:03/19	08:43	
	21:54	21:07	19:59	18:52		16:57	08:33-08:39/6	16:38	
17	05:49	06:33	07:22	08:11	08:36-08:56/20	08:04	08:44-09:04/20	08:44	
	21:53	21:05	19:57	18:50		16:56	08:34-08:41/7	16:38	
18	05:50	06:35	07:24	08:12	08:38-08:57/19	08:06	08:43-09:03/20	08:44	
	21:52	21:03	19:55	18:48		16:55	08:36-08:42/6	16:39	
19	05:51	06:37	07:25	08:14	08:40-08:57/17	08:07	08:44-09:04/20	08:45	09:24-09:26/2
	21:51	21:01	19:53	18:46		16:53	08:37-08:41/4	16:39	
20	05:52	06:38	07:27	08:16	08:42-08:57/15	08:09	08:44-09:04/20	08:46	09:25-09:27/2
	21:50	20:59	19:50	18:44		16:52	08:39-08:42/3	16:39	
21	05:54	06:40	07:28	08:17	08:43-08:56/13	08:11	08:45-09:04/19	08:46	09:25-09:27/2
	21:49	20:56	19:48	18:42		16:51	08:41-08:42/1	16:40	
22	05:55	06:41	07:30	08:19	08:45-08:56/11	08:12	08:45-09:03/18	08:47	09:26-09:28/2
	21:48	20:54	19:46	18:40		16:50		16:40	
23	05:56	06:43	07:32	08:21	08:47-08:55/8	08:14	08:46-09:03/17	08:47	09:26-09:28/2
	21:46	20:52	19:43	18:38		16:49		16:41	
24	05:58	06:44	07:33	08:22	08:49-08:54/5	08:15	08:47-09:04/17	08:48	09:26-09:28/2
	21:45	20:50	19:41	18:36		16:48		16:41	
25	05:59	06:46	07:35	07:24	07:51-07:56/5	08:17	08:48-09:04/16	08:48	09:28-09:29/1
	21:44	20:48	19:39	17:34		16:47		16:42	
26	06:00	06:48	07:36	07:26	07:53-07:56/3	08:18	08:49-09:02/13	08:49	
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28	07:54-07:55/1	08:20	08:51-09:02/11	08:49	
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:39	07:29		08:21	08:53-09:02/9	08:49	
	21:39	20:42	19:32	17:28		16:44		16:44	
29	06:05	06:52	07:41	07:31		08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:43		16:45	
30	06:06	06:54	07:43	07:33		08:24		08:49	
	21:36	20:37	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35				08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	171		356		13	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: MVZ_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 08:50-08:56/6	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:55/7	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:55/9	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:46-08:55/9	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:47-08:53/6	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45 08:16-08:23/7	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:25/10	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:26/9	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50 08:19-08:26/7	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:21-08:27/6	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:23-08:27/4	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:24-08:26/2	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:27/1	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:38-08:45/7	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:37-08:47/10	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02 08:37-08:48/11	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04 08:36-08:49/13	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41 09:09-09:13/4	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06 08:35-08:49/14	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 09:08-09:14/6	07:52	06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:50/13	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:06-09:14/8	07:50	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09 08:39-08:50/11	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:14/9	07:48	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:50/9	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:40
22	08:37 09:04-09:15/11	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:51/8	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:03-09:16/13	07:44	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:50/6	08:47
	17:19	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:01-09:15/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15 08:46-08:50/4	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:02-09:15/13	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:04-09:15/11	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:04-09:14/10	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:06-09:13/7	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:21	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 08:54-08:55/1		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 08:51-08:55/4		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	115	37	0	0	0	0	0	0	0	0	154	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: MVZ_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January		February		March	April	May	June	July	August	September	October		November		December
1	08:49		08:24	08:50-08:57/7	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44		07:36	08:04-08:10/6	08:26
	16:48		17:35		18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25		17:21		16:42
2	08:49		08:22	08:48-08:57/9	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46		07:38	08:06-08:11/5	08:27
	16:49		17:36		18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23		17:19		16:41
3	08:49		08:21	08:46-08:56/10	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48		07:40	08:07-08:10/3	08:29
	16:50		17:38		18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21		17:17		16:41
4	08:49		08:19	08:46-08:56/10	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49		07:42	08:09-08:10/1	08:30
	16:51		17:40		18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19		17:16		16:40
5	08:49		08:18	08:47-08:55/8	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51		07:43	08:18-08:23/5	08:31
	16:53		17:42		18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16		17:14		16:40
6	08:48		08:16	08:49-08:53/4	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52		07:45	08:17-08:25/8	08:32
	16:54		17:44		18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14		17:12		16:39
7	08:48		08:14	08:39-08:40/1	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54		07:47	08:16-08:26/10	08:34
	16:55		17:45		18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12		17:11		16:39
8	08:48		08:13	08:38-08:41/3	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56		07:49	08:17-08:27/10	08:35
	16:56		17:47		18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10		17:09		16:39
9	08:47		08:11	08:36-08:41/5	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57		07:50	08:19-08:28/9	08:36
	16:58		17:49		18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07		17:07		16:39
10	08:47		08:09	08:34-08:40/6	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59		07:52	08:21-08:28/7	08:37
	16:59		17:51		18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05		17:06		16:38
11	08:46		08:07	08:32-08:39/7	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01		07:54	08:22-08:27/5	08:38
	17:00		17:53		18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03		17:04		16:38
12	08:46		08:06		07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02		07:55	08:24-08:27/3	08:39
	17:02		17:54		18:44	20:35	21:23	22:00	21:58	21:14	20:08	19:01		17:03		16:38
13	08:45		08:04		07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04		07:57		08:40
	17:03		17:56		18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59		17:01		16:38
14	08:44		08:02		07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06		07:59		08:41
	17:05		17:58		18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57		17:00		16:38
15	08:43		08:00		07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07		08:01		08:42
	17:06		18:00		18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55		16:59		16:38
16	08:43		07:58		06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09		08:02		08:43
	17:08		18:02		18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52		16:57		16:38
17	08:42		07:56		06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11		08:04		08:44
	17:09		18:03		18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50		16:56		16:38
18	08:41		07:54		06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12		08:06		08:44
	17:11		18:05		18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48		16:55		16:39
19	08:40		07:52		06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14		08:07		08:45
	17:12		18:07		18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46		16:53		16:39
20	08:39		07:50		06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16		08:09		08:46
	17:14		18:09		18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44		16:52		16:39
21	08:38		07:48		06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17		08:11		08:46
	17:16		18:11		18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42		16:51		16:40
22	08:37		07:46		06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19		08:12		08:47
	17:17		18:12		19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40		16:50		16:40
23	08:36		07:44		06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21		08:14		08:47
	17:19		18:14		19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38		16:49		16:41
24	08:35		07:42		06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22		08:15		08:48
	17:21		18:16		19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36		16:48		16:41
25	08:33		07:40		06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24		08:17		08:48
	17:22		18:18		19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34		16:47		16:42
26	08:32		07:38		06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26		08:18		08:48
	17:24		18:19		19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32		16:46		16:43
27	08:31		07:36		06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28		08:20		08:49
	17:26		18:21		19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30		16:45		16:43
28	08:29		07:34		06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29		08:21		08:49
	17:28		18:23		19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28		16:44		16:44
29	08:28	08:54-08:55/1			07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31		08:23		08:49
	17:29				20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26		16:43		16:45
30	08:27	08:53-08:56/3			07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:04-08:06/2	08:24		08:49
	17:31				20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25		16:43		16:46
31	08:25	08:51-08:56/5			07:25		05:37		06:08	06:55		07:35	08:02-08:09/7			08:49
	17:33				20:15		21:49		21:35	20:35		17:23				16:47
Potential sun hours	262		279		367	414	482	494	498	451	380	333		269		248
Sum of minutes with flicker	9		70		0	0	0	0	0	0	0	9		72		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:26/6	08:24 08:50-08:54/4	07:32 07:55-08:17/22	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:27/7	08:22 08:48-08:52/4	07:30 07:53-08:18/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:27/7	08:21	07:28 07:51-07:52/1	07:19	06:16	05:35
	16:50	17:38	18:28 07:53-08:19/26	20:20	21:09	21:53
4	08:49 09:19-09:26/7	08:19	07:26 07:49-08:19/30	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:20-09:26/6	08:18	07:24 07:46-08:18/32	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:20-09:25/5	08:16	07:21 07:44-08:18/34	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:23-09:24/1	08:14	07:19 07:42-08:18/36	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13	07:17 07:40-08:18/38	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15 07:38-08:17/39	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13 07:37-08:15/38	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08	07:10 07:38-08:14/36	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08 07:39-07:52/13	06:59	06:01	05:30
	17:02	17:54	18:44 07:54-08:13/19	20:35	21:24	22:00
13	08:45	08:04	07:06 07:40-07:50/10	06:57	05:59	05:30
	17:03	17:56	18:45 07:56-08:10/14	20:37	21:25	22:01
14	08:44	08:02	07:04 07:58-08:06/8	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:23/3	06:57	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:22/4	06:55	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40	07:53 08:16-08:21/5	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 08:16-08:19/3	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:15/15	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:16/19	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	44	75	421	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:18-08:30/12	07:36	08:26
	22:04	21:33	20:33	19:25 08:33-08:51/18	17:21	16:42
2	05:34	06:11	06:59	07:46 08:17-08:52/35	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:15-08:53/38	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:15-08:54/39	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:54/38	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05	07:52 08:17-08:54/37	07:45	08:33 09:06-09:11/5
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:54/35	07:47	08:34 09:07-09:13/6
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:54/33	07:49	08:35 09:07-09:14/7
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:53/31	07:50 08:19-08:23/4	08:36 09:08-09:15/7
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:24-08:53/29	07:52 08:21-08:25/4	08:37 09:09-09:16/7
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:27-08:52/25	07:54 08:23-08:26/3	08:38 09:10-09:16/6
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 08:27-08:51/24	07:56 08:24-08:26/2	08:39 09:11-09:17/6
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:29-08:50/21	07:57	08:40 09:12-09:18/6
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 08:31-08:49/18	07:59	08:41 09:13-09:18/5
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07 08:33-08:47/14	08:01	08:42 09:14-09:19/5
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21	08:09 08:34-08:43/9	08:02	08:43 09:15-09:20/5
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04	08:44 09:16-09:20/4
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 08:38-08:39/1	08:06	08:44 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:21/4
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09	08:46 09:18-09:22/4
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17	08:11	08:46 09:18-09:22/4
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:45-08:50/5	08:12	08:47 09:19-09:23/4
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:47-08:52/5	08:14	08:47 09:19-09:23/4
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 08:49-08:53/4	08:15	08:48 09:19-09:23/4
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 07:51-07:54/3	08:17	08:48 09:20-09:24/4
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:54/1	08:19	08:49 09:20-09:24/4
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:25/5
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:29	08:22	08:49 09:20-09:25/5
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:41-08:45/4	07:31	08:23	08:49 09:20-09:25/5
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43 08:20-08:28/8	07:33	08:24	08:49 09:20-09:25/5
	21:37	20:38	19:28 08:35-08:48/13	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:20-09:26/6
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	25	477	13	131

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: NES_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50 16:48	08:24 16:55-17:06/11 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:37 21:51	05:34 22:04	06:09 21:34	06:57 20:33	07:45 19:26	07:37 17:21	08:26 15:57-16:09/12 16:42
2	08:50 16:49	08:23 16:55-17:07/12 17:37	07:30 18:27	07:21 20:19	06:18 21:08	05:36 21:52	05:35 22:04	06:11 21:32	06:59 20:31	07:46 19:23	07:38 17:19	08:27 15:58-16:09/11 16:42
3	08:49 16:50	08:21 16:55-17:09/14 17:38	07:28 18:28	07:19 20:20	06:17 21:10	05:35 21:53	05:35 22:04	06:12 21:30	07:00 20:29	07:48 19:21	07:40 17:18	08:29 15:58-16:08/10 16:41
4	08:49 16:16-16:18/2 16:52	08:19 16:56-17:11/15 17:40	07:26 18:30	07:17 20:22	06:15 21:11	05:34 21:54	05:36 22:03	06:14 21:29	07:02 20:27	07:49 19:19	07:42 16:30-16:33/3 17:16 16:39-16:45/6	08:30 16:00-16:08/8 16:41
5	08:49 16:16-16:19/3 16:53	08:18 16:57-17:07/10 17:42 17:08-17:13/5	07:24 18:32	07:14 20:24	06:13 21:13	05:34 21:55	05:37 22:03	06:15 21:27	07:04 20:24	07:51 19:17	07:44 16:27-16:36/9 17:14 16:38-16:44/6	08:31 16:00-16:07/7 16:40
6	08:49 16:15-16:20/5 16:54	08:16 16:58-17:06/8 17:44 17:09-17:15/6	07:22 18:34	07:12 20:25	06:11 21:14	05:33 21:56	05:38 22:02	06:17 21:25	07:05 20:22	07:53 19:14	07:45 16:26-16:37/11 17:12 16:38-16:43/5	08:33 16:01-16:06/5 16:40
7	08:48 16:15-16:22/7 16:55	08:15 17:10-17:15/5 17:46	07:19 18:35	07:10 20:27	06:10 21:16	05:33 21:56	05:39 22:02	06:18 21:24	07:07 20:20	07:54 19:12	07:47 16:26-16:41/15 17:11	08:34 16:03-16:06/3 16:39
8	08:48 16:15-16:23/8 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 16:25-16:39/14 17:09	08:35 16:04-16:06/2 16:39
9	08:47 16:15-16:25/10 16:58	08:11 17:49	07:15 18:39	07:06 20:30	06:06 21:19	05:32 21:58	05:40 22:00	06:21 21:20	07:10 20:16	07:58 19:08	07:50 16:25-16:38/13 17:08	08:36 16:39
10	08:47 16:15-16:26/11 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 21:59	05:41 22:00	06:23 21:18	07:11 20:13	07:59 19:06	07:52 16:26-16:36/10 17:06	08:37 16:39
11	08:46 16:14-16:27/13 17:01	08:08 17:53	07:11 18:42	07:01 20:34	06:03 21:22	05:31 22:00	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 16:25-16:34/9 17:05	08:38 16:38
12	08:46 16:14-16:29/15 17:02	08:06 17:55	07:08 18:44	06:59 20:35	06:01 21:24	05:31 22:00	05:43 21:58	06:26 21:14	07:14 20:09	08:02 19:01	07:56 16:26-16:32/6 17:03	08:39 16:38
13	08:45 16:15-16:31/16 17:03	08:04 17:56	07:06 18:45	06:57 20:37	06:00 21:25	05:30 22:01	05:44 21:57	06:27 21:13	07:16 20:06	08:04 18:59	07:57 16:27-16:31/4 17:02	08:40 16:38
14	08:44 16:15-16:32/17 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:27	05:30 22:02	05:46 21:56	06:29 21:11	07:18 20:04	08:06 18:57	07:59 16:28-16:29/1 17:00	08:41 16:38
15	08:44 16:15-16:34/19 17:06	08:00 18:00	07:02 18:49	06:53 20:40	05:57 21:28	05:30 22:02	05:47 21:55	06:31 21:09	07:19 20:02	08:07 18:55	08:01 16:59	08:42 16:38
16	08:43 16:16-16:32/16 17:08 16:33-16:36/3	07:58 18:02	06:59 18:51	06:50 20:42	05:55 21:30	05:30 22:03	05:48 21:55	06:32 21:07	07:21 20:00	08:09 18:53	08:02 16:57	08:43 16:38
17	08:42 16:16-16:33/17 17:09 16:34-16:37/3	07:57 18:04	06:57 18:52	06:48 20:43	05:54 21:31	05:30 22:03	05:49 21:54	06:34 21:05	07:22 19:57	08:11 18:51	08:04 16:56	08:44 16:39
18	08:41 16:17-16:33/16 17:11	07:55 18:05	06:55 18:54	06:46 20:45	05:52 21:33	05:30 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 15:57-16:04/7 16:55	08:45 16:39
19	08:40 16:17-16:33/16 17:13	07:53 18:07	06:53 18:56	06:44 20:47	05:51 21:34	05:30 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 15:55-16:06/11 16:54	08:45 16:39
20	08:39 16:18-16:33/15 17:14	07:51 18:09	06:50 18:57	06:42 20:48	05:50 21:35	05:30 22:04	05:53 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 15:55-16:07/12 16:52	08:46 16:40
21	08:38 16:18-16:32/14 17:16	07:49 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:57	07:29 19:48	08:18 18:42	08:11 15:54-16:08/14 16:51	08:47 16:40
22	08:37 16:20-16:32/12 17:18	07:47 18:13	06:46 19:01	06:38 20:52	05:47 21:38	05:30 22:05	05:55 21:48	06:42 20:55	07:30 19:46	08:19 18:40	08:12 15:54-16:09/15 16:50	08:47 16:40
23	08:36 16:21-16:32/11 17:19	07:45 18:14	06:44 19:02	06:36 20:53	05:46 21:40	05:30 22:05	05:57 21:47	06:43 20:53	07:32 19:44	08:21 18:38	08:14 15:53-16:09/16 16:49	08:48 16:41
24	08:35 16:23-16:30/7 17:21	07:43 18:16	06:41 19:04	06:34 20:55	05:45 21:41	05:31 22:05	05:58 21:45	06:45 20:50	07:33 19:41	08:23 18:36	08:16 15:54-16:10/16 16:48	08:48 16:42
25	08:34 17:23	07:41 18:18	06:39 19:06	06:32 20:57	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 15:54-16:11/17 16:47 16:12-16:15/3	08:48 16:42
26	08:32 17:24	07:39 18:20	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:01 21:43	06:48 20:46	07:37 19:37	07:26 17:32	08:19 15:54-16:10/16 16:46 16:11-16:14/3	08:49 16:43
27	08:31 17:26	07:36 18:21	06:35 19:09	06:28 21:00	05:41 21:45	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:35	07:28 17:30	08:20 15:55-16:13/18 16:45	08:49 16:44
28	08:30 16:56-16:58/2 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:40	06:51 20:42	07:40 19:32	07:30 17:29	08:22 15:55-16:12/17 16:44	08:49 16:44
29	08:28 16:55-16:59/4 17:30		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:05	06:05 21:38	06:53 20:40	07:41 19:30	07:31 17:27	08:23 15:55-16:11/16 16:44	08:49 16:45
30	08:27 16:55-17:02/7 17:31		07:28 20:14	06:22 21:05	05:38 21:48	05:33 22:04	06:06 21:37	06:54 20:38	07:43 19:28	07:33 17:25	08:25 15:56-16:11/15 16:43	08:49 16:46
31	08:26 16:54-17:03/9 17:33		07:26 20:15		05:37 21:49		06:08 21:35	06:56 20:35		07:35 17:23		08:50 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	278	86	0	0	0	0	0	0	0	0	308	58

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April	May	June
1	08:49		08:24	08:50-08:57/7	07:32		07:23	06:20	05:36
	16:48		17:35	09:06-09:28/22	18:25		20:17	21:06	21:50
2	08:49		08:22	08:48-08:56/8	07:30		07:21	06:18	05:36
	16:49		17:36	09:07-09:27/20	18:26		20:19	21:08	21:51
3	08:49		08:21	08:46-08:55/9	07:28		07:19	06:16	05:35
	16:50		17:38	09:08-09:26/18	18:28		20:20	21:09	21:52
4	08:49		08:19	08:45-08:55/10	07:26		07:16	06:15	05:34
	16:51		17:40	09:10-09:25/15	18:30		20:22	21:11	21:53
5	08:49		08:18	08:43-08:55/12	07:24		07:14	06:13	05:34
	16:53		17:42	09:13-09:22/9	18:32		20:24	21:13	21:54
6	08:49		08:16	08:41-08:56/15	07:21		07:12	06:11	05:33
	16:54		17:44		18:33		20:25	21:14	21:55
7	08:48		08:14	08:39-08:56/17	07:19	07:42-07:43/1	07:10	06:09	05:32
	16:55		17:45		18:35		20:27	21:16	21:56
8	08:48		08:13	08:38-08:56/18	07:17	07:40-07:41/1	07:08	06:08	05:32
	16:56		17:47		18:37		20:28	21:17	21:57
9	08:47	09:17-09:18/1	08:11	08:36-08:56/20	07:15		07:05	06:06	05:31
	16:58		17:49		18:38		20:30	21:19	21:58
10	08:47	09:16-09:18/2	08:09	08:34-08:55/21	07:13		07:03	06:04	05:31
	16:59		17:51		18:40		20:32	21:20	21:59
11	08:46	09:15-09:18/3	08:07	08:37-08:55/18	07:10		07:01	06:03	05:31
	17:00		17:53		18:42		20:33	21:22	21:59
12	08:46	09:14-09:19/5	08:06	08:38-08:54/16	07:08		06:59	06:01	05:30
	17:02		17:54		18:44		20:35	21:23	22:00
13	08:45	09:14-09:19/5	08:04	08:39-08:52/13	07:06		06:57	05:59	05:30
	17:03		17:56		18:45		20:37	21:25	22:01
14	08:44	09:13-09:21/8	08:02	08:42-08:50/8	07:04		06:55	05:58	05:30
	17:05		17:58		18:47		20:38	21:27	22:01
15	08:44	09:12-09:22/10	08:00		07:01		06:52	05:56	05:30
	17:06		18:00		18:49		20:40	21:28	22:02
16	08:43	09:11-09:23/12	07:58	08:22-08:23/1	06:59		06:50	05:55	05:30
	17:08		18:02		18:50		20:42	21:29	22:02
17	08:42	09:10-09:24/14	07:56	08:20-08:22/2	06:57		06:48	05:53	05:30
	17:09		18:03		18:52		20:43	21:31	22:03
18	08:41	09:09-09:25/16	07:54	08:18-08:19/1	06:55		06:46	05:52	05:30
	17:11		18:05		18:54		20:45	21:32	22:03
19	08:40	09:08-09:26/18	07:53		06:53		06:44	05:51	05:30
	17:12		18:07		18:55		20:47	21:34	22:04
20	08:39	09:06-09:26/20	07:51		06:50		06:42	05:49	05:30
	17:14		18:09		18:57		20:48	21:35	22:04
21	08:38	09:05-09:27/22	07:49		06:48		06:40	05:48	05:30
	17:16		18:11		18:59		20:50	21:37	22:04
22	08:37	09:04-09:28/24	07:47		06:46		06:38	05:47	05:30
	17:17		18:12		19:00		20:51	21:38	22:04
23	08:36	09:03-09:28/25	07:45		06:43		06:36	05:46	05:30
	17:19		18:14		19:02		20:53	21:39	22:05
24	08:35	09:02-09:28/26	07:42		06:41		06:34	05:44	05:30
	17:21		18:16		19:04		20:55	21:41	22:05
25	08:33	09:02-09:29/27	07:40		06:39		06:32	05:43	05:31
	17:22		18:18		19:05		20:56	21:42	22:05
26	08:32	09:03-09:29/26	07:38		06:37		06:30	05:42	05:31
	17:24		18:19		19:07		20:58	21:43	22:05
27	08:31	09:03-09:29/26	07:36		06:34		06:28	05:41	05:32
	17:26		18:21		19:09		21:00	21:45	22:05
28	08:30	08:56-08:57/1	07:34		06:32		06:26	05:40	05:32
	17:28	09:03-09:30/27	18:23		19:10		21:01	21:46	22:05
29	08:28	08:54-08:57/3			07:30		06:24	05:39	05:33
	17:29	09:03-09:29/26			20:12		21:03	21:47	22:04
30	08:27	08:53-08:58/5			07:28		06:22	05:38	05:33
	17:31	09:05-09:29/24			20:14		21:05	21:48	22:04
31	08:25	08:51-08:57/6			07:25			05:37	
	17:33	09:05-09:28/23			20:15			21:49	
Potential sun hours	262		279		367		414	482	494
Sum of minutes with flicker	405		280		2		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36	08:04-08:25/21	08:26	08:57-09:00/3
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:11	06:59	07:46		07:38	08:06-08:26/20	08:27	08:59-09:01/2
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:07-08:25/18	08:29	09:00-09:01/1
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:25/16	08:30	
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:25/14	08:31	
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52	08:17-08:18/1	07:45	08:13-08:25/12	08:32	
	22:02	21:25	20:22	19:14		17:12	08:42-08:52/10	16:39	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:25/10	08:34	
	22:01	21:23	20:20	19:12		17:11	08:40-08:55/15	16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:26/9	08:35	
	22:01	21:22	20:18	19:10		17:09	08:39-08:57/18	16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:27/8	08:36	
	22:00	21:20	20:15	19:08		17:07	08:38-08:58/20	16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:28/7	08:37	
	22:00	21:18	20:13	19:05		17:06	08:37-08:59/22	16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:29/6	08:38	
	21:59	21:16	20:11	19:03		17:04	08:36-08:59/23	16:38	
12	05:43	06:26	07:14	08:02		07:55	08:24-08:29/5	08:39	
	21:58	21:14	20:09	19:01		17:03	08:35-09:00/25	16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:29/3	08:40	
	21:57	21:12	20:06	18:59		17:01	08:35-09:01/26	16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:29/1	08:41	
	21:56	21:10	20:04	18:57		17:00	08:35-09:01/26	16:38	
15	05:46	06:30	07:19	08:07		08:01	08:36-09:02/26	08:42	
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09		08:02	08:36-09:02/26	08:43	
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-09:03/27	08:44	
	21:53	21:05	19:57	18:50		16:56		16:38	
18	05:50	06:35	07:24	08:12		08:06	08:36-09:02/26	08:44	
	21:52	21:03	19:55	18:48		16:55		16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-09:02/25	08:45	
	21:51	21:01	19:53	18:46		16:53		16:39	
20	05:52	06:38	07:27	08:16		08:09	08:39-09:03/24	08:46	
	21:50	20:59	19:50	18:44		16:52		16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-09:03/22	08:46	
	21:49	20:57	19:48	18:42		16:51		16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-09:03/20	08:47	
	21:48	20:54	19:46	18:40		16:50		16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-09:02/18	08:47	
	21:46	20:52	19:43	18:38		16:49		16:41	
24	05:58	06:44	07:33	08:23	08:49-08:51/2	08:15	08:46-09:02/16	08:48	
	21:45	20:50	19:41	18:36		16:48		16:41	
25	05:59	06:46	07:35	07:24	07:51-07:53/2	08:17	08:48-09:02/14	08:48	
	21:44	20:48	19:39	17:34		16:47		16:42	
26	06:00	06:48	07:36	07:26	07:53-07:54/1	08:19	08:49-09:01/12	08:49	
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28		08:20	08:51-09:01/10	08:49	
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:40	07:29	08:11-08:20/9	08:22	08:53-09:01/8	08:49	
	21:40	20:42	19:32	17:28		16:44		16:44	
29	06:05	06:52	07:41	07:31	08:09-08:22/13	08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:44		16:45	
30	06:06	06:54	07:43	07:33	08:08-08:23/15	08:24	08:56-09:00/4	08:49	
	21:37	20:38	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35	08:07-08:24/17			08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	60		619		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:31-09:50/19	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26 08:57-08:58/1
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42 09:23-09:30/7
2	08:49 09:32-09:51/19	08:22	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27 09:22-09:32/10
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49 09:31-09:50/19	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40 08:08-08:09/1	08:29 09:21-09:33/12
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49 09:33-09:51/18	08:19	07:26	07:16	06:15	05:34	05:36	06:14	07:02	07:49	07:42 08:09-08:10/1	08:30 09:21-09:35/14
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49 09:34-09:51/17	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31 09:21-09:36/15
	16:53	17:42	18:32	20:24	21:13	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:49 09:34-09:50/16	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:52	07:45	08:32 09:20-09:36/16
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48 09:35-09:51/16	08:14 08:39-08:40/1	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34 09:20-09:37/17
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:36-09:50/14	08:13 08:38-08:39/1	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35 09:21-09:39/18
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:38-09:50/12	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36 09:21-09:39/18
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47 09:39-09:49/10	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:21-09:40/19
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46 09:15-09:16/1	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:21-09:40/19
	17:00 09:41-09:48/7	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:14-09:17/3	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55	08:39 09:21-09:41/20
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 09:14-09:18/4	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:30/4	08:40 09:21-09:41/20
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:13-09:19/6	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:28-08:32/4	08:41 09:22-09:42/20
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44 09:12-09:20/8	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:30-08:33/3	08:42 09:22-09:43/21
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59 08:44-08:50/6	16:38
16	08:43 09:11-09:20/9	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:35-08:36/1	08:02 08:32-08:34/2	08:43 09:23-09:44/21
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57 08:42-08:52/10	16:38 09:17-09:19/2
17	08:42 09:10-09:21/11	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04 08:42-08:54/12	08:44 09:23-09:44/21
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39 09:17-09:20/3
18	08:41 09:09-09:21/12	07:54	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 08:40-08:54/14	08:44 09:23-09:44/21
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39 09:16-09:21/5
19	08:40 09:08-09:22/14	07:52	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:40-08:56/16	08:45 09:24-09:45/21
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39 09:17-09:22/5
20	08:39 09:07-09:22/15	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09 08:40-08:56/16	08:46 09:25-09:46/21
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39 09:18-09:23/5
21	08:38 09:05-09:21/16	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:57/16	08:46 09:24-09:46/22
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40 09:18-09:23/5
22	08:37 09:05-09:21/16	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:58/15	08:47 09:25-09:47/22
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40 09:19-09:24/5
23	08:36 09:06-09:22/16	07:45	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:58/14	08:47 09:26-09:47/21
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41 09:19-09:24/5
24	08:35 09:06-09:20/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:15 08:46-08:58/12	08:48 09:26-09:47/21
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41 09:19-09:24/5
25	08:33 09:08-09:20/12	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:59/11	08:48 09:27-09:48/21
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42 09:20-09:25/5
26	08:32 08:59-09:01/2	07:38 08:02-08:03/1	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18 08:49-08:58/9	08:49 09:27-09:48/21
	17:24 09:09-09:19/10	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43 09:20-09:25/5
27	08:31 08:57-09:00/3	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 08:51-08:59/8	08:49 09:27-09:48/21
	17:26 09:11-09:17/6	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43 09:21-09:24/3
28	08:30 08:56-09:00/4	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22 08:53-08:59/6	08:49 09:28-09:49/21
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44 09:23-09:24/1
29	08:28 08:54-08:58/4		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 08:54-08:59/5	08:49 09:28-09:49/21
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 08:56-08:59/3	08:49 09:29-09:49/20
	17:31		20:14	21:04	21:48	22:04	21:37	20:37	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:55		07:35		08:49 09:30-09:50/20
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	353	3	0	0	0	0	0	0	0	1	188	637

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April	May	June
1	08:49	09:20-09:48/28	08:24		07:32	07:55-07:59/4	07:23	06:20	05:36
	16:48		17:35		18:25		20:17	21:06	21:50
2	08:49	09:20-09:49/29	08:22		07:30		07:21	06:18	05:36
	16:49		17:36		18:26		20:19	21:08	21:51
3	08:49	09:20-09:49/29	08:21	08:46-08:47/1	07:28		07:19	06:16	05:35
	16:50		17:38		18:28		20:20	21:09	21:52
4	08:49	09:19-09:50/31	08:19	08:45-08:48/3	07:26		07:17	06:15	05:34
	16:51		17:40		18:30		20:22	21:11	21:53
5	08:49	09:19-09:50/31	08:18	08:43-08:47/4	07:24		07:14	06:13	05:34
	16:53		17:42		18:32		20:24	21:13	21:54
6	08:49	09:18-09:50/32	08:16	08:41-08:46/5	07:21		07:12	06:11	05:33
	16:54		17:44		18:33		20:25	21:14	21:55
7	08:48	09:18-09:51/33	08:14	08:39-08:44/5	07:19		07:10	06:09	05:32
	16:55		17:45		18:35		20:27	21:16	21:56
8	08:48	09:17-09:51/34	08:13		07:17		07:08	06:08	05:32
	16:56		17:47		18:37		20:28	21:17	21:57
9	08:47	09:17-09:52/35	08:11		07:15		07:05	06:06	05:31
	16:58		17:49		18:39		20:30	21:19	21:58
10	08:47	09:17-09:51/34	08:09		07:13		07:03	06:04	05:31
	16:59		17:51		18:40		20:32	21:20	21:59
11	08:46	09:18-09:51/33	08:08		07:10		07:01	06:03	05:31
	17:00		17:53		18:42		20:33	21:22	21:59
12	08:46	09:20-09:51/31	08:06		07:08		06:59	06:01	05:30
	17:02		17:54		18:44		20:35	21:24	22:00
13	08:45	09:21-09:28/7	08:04		07:06		06:57	05:59	05:30
	17:03	09:30-09:52/22	17:56		18:45		20:37	21:25	22:01
14	08:44	09:23-09:27/4	08:02		07:04		06:55	05:58	05:30
	17:05	09:31-09:52/21	17:58		18:47		20:38	21:27	22:01
15	08:44	09:31-09:51/20	08:00		07:02		06:52	05:56	05:30
	17:06		18:00		18:49		20:40	21:28	22:02
16	08:43	09:32-09:51/19	07:58		06:59		06:50	05:55	05:30
	17:08		18:02		18:50		20:42	21:30	22:02
17	08:42	09:10-09:12/2	07:56		06:57		06:48	05:54	05:30
	17:09	09:34-09:50/16	18:03		18:52		20:43	21:31	22:03
18	08:41	09:09-09:12/3	07:54		06:55		06:46	05:52	05:30
	17:11	09:35-09:49/14	18:05		18:54		20:45	21:32	22:03
19	08:40	09:08-09:13/5	07:53		06:53		06:44	05:51	05:30
	17:12	09:37-09:48/11	18:07		18:55		20:47	21:34	22:04
20	08:39	09:07-09:13/6	07:51		06:50		06:42	05:49	05:30
	17:14	09:40-09:46/6	18:09		18:57		20:48	21:35	22:04
21	08:38	09:05-09:12/7	07:49		06:48		06:40	05:48	05:30
	17:16		18:11		18:59		20:50	21:37	22:04
22	08:37	09:04-09:12/8	07:47		06:46		06:38	05:47	05:30
	17:17		18:12		19:00		20:51	21:38	22:04
23	08:36	09:03-09:12/9	07:45		06:44		06:36	05:46	05:30
	17:19		18:14		19:02		20:53	21:39	22:05
24	08:35	09:02-09:12/10	07:43		06:41		06:34	05:44	05:31
	17:21		18:16		19:04		20:55	21:41	22:05
25	08:33	09:02-09:10/8	07:40		06:39		06:32	05:43	05:31
	17:22		18:18		19:05		20:56	21:42	22:05
26	08:32	09:06-09:08/2	07:38	08:02-08:04/2	06:37		06:30	05:42	05:31
	17:24		18:19		19:07		20:58	21:43	22:05
27	08:31		07:36	08:00-08:03/3	06:34		06:28	05:41	05:32
	17:26		18:21		19:09		21:00	21:45	22:05
28	08:30		07:34	07:57-08:01/4	06:32		06:26	05:40	05:32
	17:28		18:23		19:10		21:01	21:46	22:05
29	08:28				07:30		06:24	05:39	05:33
	17:29				20:12		21:03	21:47	22:04
30	08:27				07:28		06:22	05:38	05:33
	17:31				20:14		21:05	21:48	22:04
31	08:25				07:25			05:37	
	17:33				20:15			21:49	
Potential sun hours	262		279		367		414	482	494
Sum of minutes with flicker	580		27		4		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	09:00-09:33/33
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	09:00-09:34/34
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40		08:29	09:00-09:35/35
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:14/5	08:30	09:02-09:36/34
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:16/5	08:31	09:03-09:36/33
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52		07:45	08:13-08:17/4	08:33	09:04-09:36/32
	22:02	21:25	20:22	19:14		17:12		16:40	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:18/3	08:34	09:06-09:37/31
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:18/1	08:35	09:07-09:38/31
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	09:08-09:38/30
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52		08:37	09:09-09:38/29
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54		08:38	09:10-09:39/29
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:56		08:39	09:11-09:39/28
	21:58	21:14	20:09	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04	08:29-08:33/4	07:57		08:40	09:12-09:39/27
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06	08:31-08:35/4	07:59		08:41	09:13-09:40/27
	21:56	21:11	20:04	18:57		17:00		16:38	
15	05:47	06:30	07:19	08:07	08:33-08:36/3	08:01		08:42	09:14-09:40/26
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09	08:35-08:36/1	08:02	08:38-08:42/4	08:43	09:15-09:41/26
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-08:44/8	08:44	09:16-09:42/26
	21:53	21:05	19:57	18:50		16:56		16:39	
18	05:50	06:35	07:24	08:12		08:06	08:36-08:46/10	08:44	09:16-09:41/25
	21:52	21:03	19:55	18:48		16:55		16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-08:46/9	08:45	09:17-09:42/25
	21:51	21:01	19:53	18:46		16:53		16:39	
20	05:53	06:38	07:27	08:16		08:09	08:39-08:47/8	08:46	09:18-09:43/25
	21:50	20:59	19:50	18:44		16:52		16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-08:48/7	08:46	09:18-09:43/25
	21:49	20:57	19:48	18:42		16:51		16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-08:49/6	08:47	09:19-09:44/25
	21:48	20:55	19:46	18:40		16:50	09:16-09:22/6	16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-08:49/5	08:47	09:19-09:44/25
	21:46	20:52	19:44	18:38		16:49	09:13-09:24/11	16:41	
24	05:58	06:45	07:33	08:23		08:15	08:46-08:49/3	08:48	09:19-09:44/25
	21:45	20:50	19:41	18:36		16:48	09:12-09:26/14	16:41	
25	05:59	06:46	07:35	07:24		08:17	08:48-08:50/2	08:48	09:20-09:45/25
	21:44	20:48	19:39	17:34		16:47	09:12-09:28/16	16:42	
26	06:01	06:48	07:36	07:26		08:19	09:11-09:29/18	08:49	09:20-09:46/26
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28		08:20	09:11-09:30/19	08:49	09:20-09:46/26
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:40	07:29		08:22	09:04-09:06/2	08:49	09:20-09:46/26
	21:40	20:42	19:32	17:28		16:44	09:11-09:32/21	16:44	
29	06:05	06:52	07:41	07:31		08:23	09:01-09:08/7	08:49	09:20-09:47/27
	21:38	20:40	19:30	17:26		16:44	09:10-09:32/22	16:45	
30	06:06	06:54	07:43	07:33		08:24	09:01-09:33/32	08:49	09:20-09:47/27
	21:37	20:38	19:28	17:25		16:43		16:46	
31	06:08	06:56		07:35				08:49	09:20-09:48/28
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	12		248		871	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT01 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20 06:44-06:46/2	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:42-06:44/2	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:40-06:42/2	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22 06:50-06:52/2	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24 06:51-06:53/2	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25 06:53-06:54/1	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36 07:03-07:05/2	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38 07:05-07:07/2	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:40 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38 07:01-07:03/2	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35 06:59-07:01/2	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33 06:57-06:59/2	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	6	6	0	0	10	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April		May		June	
1	08:49	08:24	07:32	07:23		06:20		05:36	06:04-06:06/2
	16:48	17:34	18:24	20:17		21:06		21:50	
2	08:49	08:22	07:30	07:21		06:18		05:35	06:04-06:06/2
	16:49	17:36	18:26	20:18		21:08		21:51	
3	08:49	08:21	07:28	07:19		06:16		05:35	06:03-06:05/2
	16:50	17:38	18:28	20:20		21:09		21:52	
4	08:49	08:19	07:26	07:16		06:14		05:34	
	16:51	17:40	18:30	20:22		21:11		21:53	
5	08:49	08:18	07:23	07:14		06:13		05:33	
	16:52	17:42	18:31	20:23		21:13		21:54	
6	08:49	08:16	07:21	07:12	07:34-07:36/2	06:11		05:33	
	16:53	17:43	18:33	20:25		21:14		21:55	
7	08:48	08:14	07:19	07:10	07:32-07:36/4	06:09		05:32	
	16:55	17:45	18:35	20:27		21:16		21:56	
8	08:48	08:13	07:17	07:07	07:30-07:35/5	06:07		05:32	
	16:56	17:47	18:37	20:28		21:17		21:57	
9	08:47	08:11	07:15	07:05	07:28-07:34/6	06:06		05:31	
	16:57	17:49	18:38	20:30		21:19		21:58	
10	08:47	08:09	07:12	07:03		06:04	06:29-06:30/1	05:31	
	16:59	17:51	18:40	20:32		21:20		21:59	
11	08:46	08:07	07:10	07:01		06:02		05:30	
	17:00	17:52	18:42	20:33		21:22		21:59	
12	08:46	08:06	07:08	06:59		06:01		05:30	
	17:01	17:54	18:43	20:35		21:23		22:00	
13	08:45	08:04	07:06	06:57		05:59		05:30	
	17:03	17:56	18:45	20:37		21:25		22:01	
14	08:44	08:02	07:04	06:54		05:58		05:30	
	17:04	17:58	18:47	20:38		21:26		22:01	
15	08:44	08:00	07:01	06:52	07:15-07:17/2	05:56		05:29	
	17:06	18:00	18:49	20:40		21:28		22:02	
16	08:43	07:58	06:59	06:50	07:13-07:17/4	05:55		05:29	
	17:07	18:01	18:50	20:42		21:29		22:02	
17	08:42	07:56	06:57	06:48	07:11-07:16/5	05:53		05:29	
	17:09	18:03	18:52	20:43		21:31		22:03	
18	08:41	07:54	06:55	06:46	07:09-07:15/6	05:52		05:29	
	17:11	18:05	18:54	20:45		21:32		22:03	
19	08:40	07:52	06:52	06:44	07:10-07:12/2	05:50		05:29	
	17:12	18:07	18:55	20:46		21:34		22:04	
20	08:39	07:50	06:50	06:42		05:49		05:29	
	17:14	18:09	18:57	20:48		21:35		22:04	
21	08:38	07:48	06:48	06:40		05:48		05:29	
	17:15	18:10	18:59	20:50		21:37		22:04	
22	08:37	07:46	06:46	06:38		05:47		05:30	
	17:17	18:12	19:00	20:51		21:38		22:04	
23	08:36	07:44	06:43	06:36		05:45		05:30	
	17:19	18:14	19:02	20:53		21:39		22:05	
24	08:35	07:42	06:41	06:33		05:44		05:30	
	17:20	18:16	19:04	20:55		21:41		22:05	
25	08:33	07:40	06:39	06:31		05:43		05:30	
	17:22	18:17	19:05	20:56		21:42		22:05	
26	08:32	07:38	06:37	06:29		05:42		05:31	
	17:24	18:19	19:07	20:58		21:43		22:05	
27	08:31	07:36	06:34	06:28		05:41		05:31	
	17:26	18:21	19:09	21:00		21:45		22:05	
28	08:30	07:34	06:32	06:26		05:40		05:32	
	17:27	18:23	19:10	21:01		21:46		22:05	
29	08:28		07:30	06:24		05:39	06:07-06:08/1	05:32	
	17:29		20:12	21:03		21:47		22:04	
30	08:27		07:28	06:22		05:38	06:06-06:07/1	05:33	
	17:31		20:13	21:04		21:48		22:04	
31	08:25		07:25			05:37	06:05-06:07/2		
	17:33		20:15			21:49			
Potential sun hours	262	279	367	415		482		495	
Sum of minutes with flicker	0	0	0	36		5		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10		06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12	06:40-06:41/1	07:00	07:26-07:32/6	07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02	07:27-07:32/5	07:49	07:42	08:30
	22:03		21:29		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03	07:29-07:33/4	07:51	07:43	08:31
	22:03		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05	07:30-07:32/2	07:52	07:45	08:32
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06		07:54	07:47	08:34
	22:01		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08		07:56	07:49	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41	06:11-06:13/2	06:22		07:11		07:59	07:52	08:37
	22:00		21:18		20:13		19:05	17:06	16:38
11	05:42	06:12-06:14/2	06:24		07:13		08:01	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43	06:13-06:15/2	06:25		07:14		08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44	06:14-06:15/1	06:27		07:16		08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45	06:15-06:16/1	06:29		07:17		08:06	07:59	08:41
	21:56		21:10		20:04		18:57	17:00	16:38
15	05:46		06:30		07:19		08:07	08:01	08:42
	21:55		21:08		20:02		18:54	16:58	16:38
16	05:47		06:32		07:20		08:09	08:02	08:43
	21:54		21:07		19:59		18:52	16:57	16:38
17	05:48		06:33		07:22		08:11	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50		06:35		07:24		08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51		06:36		07:25		08:14	08:07	08:45
	21:51		21:01		19:52		18:46	16:53	16:39
20	05:52		06:38		07:27		08:16	08:09	08:46
	21:50		20:59		19:50		18:44	16:52	16:39
21	05:53		06:40		07:28		08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55		06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56		06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44	07:14-07:17/3	07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46	07:12-07:18/6	07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47	07:14-07:19/5	07:36		07:26	08:18	08:49
	21:42		20:46		19:36		17:32	16:46	16:42
27	06:02		06:49	07:15-07:19/4	07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51	07:17-07:19/2	07:39		07:29	08:22	08:49
	21:40		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52		07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54		07:43		07:33	08:24	08:49
	21:37		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:23		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	8		21		17		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14 07:37-07:38/1	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06 07:32-07:33/1	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57 07:19-07:21/2	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:22/5	05:58	05:30	05:45	06:29 06:59-07:05/6	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52 07:15-07:22/7	05:56	05:29	05:46	06:30 06:57-07:06/9	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:21/8	05:55	05:29	05:47	06:32 06:59-07:07/8	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:12-07:20/8	05:53	05:29	05:48	06:33 07:00-07:07/7	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46 07:13-07:18/5	05:52	05:29	05:50	06:35 07:02-07:07/5	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51 06:20-06:22/2	06:36 07:03-07:06/3	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52 06:21-06:23/2	06:38 07:05-07:06/1	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48 06:14-06:15/1	05:29	05:53 06:23-06:25/2	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:47 06:13-06:15/2	05:30	05:55 06:24-06:26/2	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36 06:59-07:01/2	05:45 06:12-06:14/2	05:30	05:56 06:25-06:26/1	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:34 06:57-07:00/3	05:44 06:11-06:13/2	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32 06:55-07:00/5	05:43	05:30	05:59	06:46 07:16-07:21/5	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30 06:53-07:00/7	05:42	05:31	06:00	06:47 07:14-07:23/9	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28 06:51-06:59/8	05:41	05:31	06:02	06:49 07:15-07:23/8	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26 06:49-06:58/9	05:40	05:32	06:03	06:51 07:17-07:23/6	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:51-06:57/6	05:39	05:32	06:04	06:52 07:18-07:23/5	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54 07:20-07:22/2	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	76	7	0	9	74	1	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 08:58-09:13/15	07:32	07:23 07:45-07:53/8	06:20 06:44-06:47/3	05:36
	16:48	17:35	18:25	20:17	21:06 06:53-07:23/30	21:50
2	08:49	08:22 08:59-09:12/13	07:30	07:21 07:43-07:55/12	06:18 06:42-06:46/4	05:35
	16:49	17:36	18:26	20:19	21:08 06:53-07:22/29	21:51
3	08:49	08:21 09:01-09:10/9	07:28	07:19 07:41-07:55/14	06:16 06:41-06:46/5	05:35
	16:50	17:38	18:28	20:20	21:09 06:53-07:22/29	21:52
4	08:49	08:19 09:04-09:08/4	07:26	07:16 07:39-07:56/17	06:14 06:39-06:44/5	05:34
	16:51	17:40 08:45-08:46/1	18:30	20:22	21:11 06:53-07:22/29	21:53
5	08:49	08:18 08:43-08:46/3	07:23	07:14 07:37-07:56/19	06:13 06:53-07:21/28	05:33
	16:52	17:42	18:32	20:23	21:13	21:54
6	08:49	08:16 08:41-08:46/5	07:21	07:12 07:35-07:55/20	06:11 06:53-07:20/27	05:33
	16:54	17:43	18:33	20:25	21:14	21:55
7	08:48 09:18-09:19/1	08:14 08:39-08:47/8	07:19	07:10 07:35-07:55/20	06:09 06:54-07:20/26	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13 08:38-08:48/10	07:17	07:08 07:35-07:54/19	06:07 06:32-06:33/1	05:32
	16:56	17:47	18:37	20:28	21:17 06:55-07:19/24	21:57
9	08:47 09:17-09:21/4	08:11 08:36-08:48/12	07:15 07:38-07:39/1	07:05 07:28-07:29/1	06:06 06:31-06:34/3	05:31
	16:57	17:49	18:38	20:30 07:35-07:53/18	21:19 06:56-07:18/22	21:58
10	08:47 09:16-09:21/5	08:09 08:34-08:48/14	07:13 07:35-07:39/4	07:03 07:36-07:52/16	06:04 06:29-06:34/5	05:31
	16:59	17:51	18:40	20:32	21:20 06:57-07:17/20	21:59
11	08:46 09:15-09:22/7	08:07 08:32-08:47/15	07:10 07:33-07:39/6	07:01 07:37-07:49/12	06:02 06:28-06:36/8	05:30
	17:00	17:53	18:42	20:33	21:22 06:58-07:16/18	21:59
12	08:46 09:15-09:23/8	08:06 08:33-08:46/13	07:08 07:31-07:38/7	06:59 07:39-07:46/7	06:01 06:26-06:36/10	05:30
	17:02	17:54	18:44	20:35	21:23 06:59-07:14/15	22:00
13	08:45 09:14-09:24/10	08:04 08:34-08:45/11	07:06 07:28-07:37/9	06:57	05:59 06:25-06:37/12	05:30
	17:03	17:56	18:45	20:37	21:25 07:02-07:12/10	22:01
14	08:44 09:13-09:24/11	08:02 08:35-08:43/8	07:04 07:26-07:34/8	06:54	05:58 06:23-06:36/13	05:30
	17:04	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:01 07:24-07:31/7	06:52	05:56 06:22-06:37/15	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:25/14	07:58	06:59 07:22-07:32/10	06:50	05:55 06:21-06:37/16	05:29
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56	06:57 07:19-07:31/12	06:48	05:53 06:19-06:36/17	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:25/16	07:54	06:55 07:17-07:31/14	06:46	05:52 06:19-06:36/17	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:25/15	07:52	06:52 07:15-07:31/16	06:44	05:51 06:19-06:36/17	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:09/2	07:50	06:50 07:16-07:30/14	06:42 07:08-07:13/5	05:49 06:20-06:36/16	05:29
	17:14 09:11-09:25/14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:09/4	07:49	06:48 07:16-07:27/11	06:40 07:04-07:17/13	05:48 06:19-06:35/16	05:30
	17:16 09:11-09:24/13	18:10	18:59	20:50	21:37	22:04
22	08:37 09:04-09:11/7	07:46	06:46 07:18-07:25/7	06:38 07:01-07:19/18	05:47 06:20-06:35/15	05:30
	17:17 09:12-09:24/12	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:12/9	07:44	06:43 07:06-07:08/2	06:36 06:59-07:20/21	05:45 06:21-06:34/13	05:30
	17:19 09:14-09:23/9	18:14	19:02	20:53	21:39	22:05
24	08:35 09:01-09:12/11	07:42	06:41 07:04-07:07/3	06:34 06:58-07:21/23	05:44 06:22-06:33/11	05:30
	17:21 09:15-09:21/6	18:16	19:04	20:55	21:41	22:05
25	08:33 09:00-09:13/13	07:40	06:39 07:01-07:05/4	06:32 06:56-07:22/26	05:43 06:23-06:32/9	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 08:59-09:14/15	07:38	06:37	06:30 06:55-07:22/27	05:42 06:25-06:30/5	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 08:57-09:14/17	07:36	06:34	06:28 06:54-07:22/28	05:41	05:31
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 08:56-09:14/18	07:34	06:32	06:26 06:54-07:22/28	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28 08:56-09:14/18		07:30	06:24 06:54-07:23/29	05:39	05:32
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:57-09:14/17		07:28 07:50-07:51/1	06:22 06:46-06:47/1	05:38	05:33
	17:31		20:14	21:04 06:54-07:23/29	21:48	22:04
31	08:25 08:57-09:13/16		07:25 07:48-07:52/4		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	322	141	140	431	543	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 06:37-06:46/9	06:57 07:37-07:49/12	07:44 08:09-08:17/8	07:36 08:04-08:17/13	08:26 08:57-09:04/7
	22:04	21:33 07:09-07:25/16	20:33	19:25	17:21	16:42
2	05:34	06:10 06:39-06:46/7	06:59 07:34-07:50/16	07:46 08:11-08:17/6	07:38 08:06-08:17/11	08:27 08:59-09:05/6
	22:04	21:32 07:07-07:26/19	20:31	19:23	17:19	16:41
3	05:35	06:12 06:40-06:44/4	07:00 07:26-07:27/1	07:48 08:12-08:17/5	07:40 08:07-08:16/9	08:29 09:00-09:04/4
	22:03	21:30 07:07-07:28/21	20:29 07:33-07:51/18	19:21	17:17	16:41
4	05:36	06:13 06:41-06:43/2	07:02 07:32-07:51/19	07:49 08:14-08:16/2	07:42 08:09-08:16/7	08:30 09:02-09:05/3
	22:03	21:29 07:05-07:28/23	20:26	19:19	17:16	16:40
5	05:37	06:15 07:05-07:30/25	07:03 07:32-07:52/20	07:51	07:43 08:11-08:16/5	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16 07:04-07:30/26	07:05 07:31-07:51/20	07:52	07:45 08:13-08:15/2	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18 07:04-07:31/27	07:06 07:32-07:51/19	07:54	07:47 08:34-08:38/4	08:34
	22:01	21:23	20:20	19:12	17:10 08:15-08:16/1	16:39
8	05:39	06:19 07:03-07:31/28	07:08 07:33-07:50/17	07:56	07:49 08:31-08:41/10	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21 06:49-06:54/5	07:10 07:35-07:50/15	07:57	07:50 08:30-08:43/13	08:36
	22:00	21:20 07:02-07:31/29	20:15	19:07	17:07	16:38
10	05:41	06:23 06:50-06:55/5	07:11 07:36-07:48/12	07:59	07:52 08:29-08:44/15	08:37
	22:00	21:18 07:02-07:31/29	20:13	19:05	17:06	16:38
11	05:42	06:24 06:51-06:55/4	07:13 07:38-07:47/9	08:01	07:54 08:29-08:45/16	08:38
	21:59	21:16 07:01-07:31/30	20:11	19:03	17:04	16:38
12	05:43	06:26 06:53-06:55/2	07:14 07:39-07:44/5	08:02	07:55 08:28-08:45/17	08:39
	21:58	21:14 07:02-07:31/29	20:08	19:01	17:03	16:38
13	05:44	06:27 06:54-06:55/1	07:16 07:41-07:42/1	08:04	07:57 08:28-08:46/18	08:40
	21:57	21:12 07:01-07:31/30	20:06	18:59	17:01	16:38
14	05:45	06:29 07:02-07:31/29	07:17	08:06	07:59 08:28-08:46/18	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46	06:30 07:01-07:30/29	07:19	08:07	08:01 08:30-08:46/16	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47	06:32 07:02-07:30/28	07:20	08:09	08:02 08:32-08:47/15	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:02-07:29/27	07:22	08:11	08:04 08:34-08:47/13	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:34-06:41/7	06:35 07:03-07:28/25	07:24 07:49-07:53/4	08:12	08:06 08:35-08:46/11	08:44
	21:52	21:03	19:55	18:48	16:54 08:49-08:55/6	16:39
19	05:51 06:32-06:42/10	06:37 07:04-07:26/22	07:25 07:50-07:54/4	08:14	08:07 08:37-08:46/9	08:45
	21:51	21:01	19:53	18:46	16:53 08:48-08:57/9	16:39
20	05:52 06:32-06:44/12	06:38 07:05-07:26/21	07:27 07:52-07:55/3	08:16	08:09 08:39-08:46/7	08:46
	21:50	20:59	19:50	18:44	16:52 08:47-08:59/12	16:39
21	05:54 06:31-06:45/14	06:40 07:06-07:23/17	07:28 08:05-08:10/5	08:17	08:11 08:41-08:45/4	08:46
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51 08:47-09:00/13	16:40
22	05:55 06:30-06:45/15	06:41 07:09-07:21/12	07:30 08:02-08:12/10	08:19	08:12 08:43-08:45/2	08:47
	21:48	20:54	19:46	18:40	16:50 08:47-09:01/14	16:40
23	05:56 06:30-06:46/16	06:43	07:32 08:00-08:13/13	08:21	08:14 08:46-09:01/15	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:46/17	06:44	07:33 07:59-08:14/15	08:23	08:15 08:46-09:02/16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:29-06:47/18	06:46	07:35 07:59-08:14/15	07:24	08:17 08:48-09:03/15	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:47/18	06:48	07:36 08:01-08:14/13	07:26	08:19 08:49-09:03/14	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:47/17	06:49	07:38 08:03-08:14/11	07:28 08:07-08:10/3	08:20 08:51-09:04/13	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:48/16	06:51	07:39 08:04-08:12/8	07:29 08:04-08:13/9	08:22 08:53-09:04/11	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:47/14	06:52	07:41 08:06-08:13/7	07:31 08:03-08:15/12	08:23 08:54-09:04/10	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:47/13	06:54	07:43 08:07-08:15/8	07:33 08:02-08:16/14	08:24 08:56-09:04/8	08:49
	21:37 07:14-07:20/6	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:47/11	06:55 07:39-07:47/8		07:35 08:02-08:17/15		08:49
	21:35 07:11-07:23/12	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	216	589	301	74	392	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:26-09:43/17	08:24	07:32	07:23 07:46-07:50/4	06:20 06:44-07:03/19	05:36
	16:48	17:35	18:25	20:17 08:19-09:15/56	21:06	21:50
2	08:49 09:26-09:43/17	08:22	07:30	07:21 07:43-07:45/2	06:18 06:42-07:04/22	05:36
	16:49	17:36	18:26	20:19 08:19-09:14/55	21:08	21:51
3	08:49 09:27-09:44/17	08:21	07:28 07:52-08:03/11	07:19 08:19-09:14/55	06:16 06:41-07:05/24	05:35
	16:50 09:20-09:21/1	17:38	18:28	20:20	21:09	21:52
4	08:49 09:27-09:43/16	08:19	07:26 07:50-08:06/16	07:16 08:19-09:14/55	06:15 06:39-07:05/26	05:34
	16:51 09:19-09:21/2	17:40	18:30	20:22	21:11	21:53
5	08:49 09:28-09:44/16	08:18	07:23 07:47-08:06/19	07:14 08:19-09:13/54	06:13 06:37-07:05/28	05:33
	16:52 09:19-09:22/3	17:42	18:32	20:23	21:13	21:54
6	08:49 09:29-09:43/14	08:16	07:21 07:45-08:08/23	07:12 08:18-09:12/54	06:11 06:36-07:05/29	05:33
	16:54 09:18-09:22/4	17:44	18:33	20:25	21:14	21:55
7	08:48 09:30-09:43/13	08:14	07:19 07:44-08:09/25	07:10 08:18-09:11/53	06:09 06:34-07:06/32	05:32
	16:55 09:18-09:22/4	17:45	18:35	20:27	21:16	21:56
8	08:48 09:31-09:43/12	08:13	07:17 07:43-08:10/27	07:08 08:19-09:10/51	06:08 06:34-07:05/31	05:32
	16:56 09:17-09:22/5	17:47	18:37 07:40-07:42/2	20:28	21:17	21:57
9	08:47 09:32-09:43/11	08:11	07:15 07:38-08:09/31	07:05 08:19-09:09/50	06:06 06:35-07:06/31	05:31
	16:57 09:17-09:23/6	17:49	18:38	20:30	21:19	21:58
10	08:47 09:33-09:42/9	08:09	07:13 07:35-08:10/35	07:03 08:20-09:08/48	06:04 06:36-07:05/29	05:31
	16:59 09:16-09:23/7	17:51	18:40	20:32	21:20	21:59
11	08:46 09:35-09:40/5	08:07	07:10 07:33-08:10/37	07:01 08:19-09:06/47	06:03 06:38-07:05/27	05:31
	17:00 09:15-09:23/8	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08 07:41-08:10/29	06:59 08:20-09:05/45	06:01 06:39-07:05/26	05:30
	17:02	17:54	18:44 07:31-07:39/8	20:35	21:23	22:00
13	08:45 09:15-09:23/8	08:04	07:06 07:40-08:09/29	06:57 08:21-09:03/42	05:59 06:40-07:05/25	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:16-09:22/6	08:02 08:26-08:30/4	07:04 07:40-08:08/28	06:54 08:22-09:02/40	05:58 06:39-07:03/24	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00 08:24-08:32/8	07:01 07:41-08:08/27	06:52 08:23-09:00/37	05:56 06:40-07:03/23	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:33/11	06:59 07:41-08:07/26	06:50 08:25-08:58/33	05:55 06:41-07:03/22	05:29
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:34/14	06:57 07:39-08:05/26	06:48 08:26-08:55/29	05:53 06:41-07:01/20	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:34/16	06:55 07:36-08:08/32	06:46 08:28-08:53/25	05:52 06:43-07:00/17	05:29
	17:11	18:05	18:54 07:17-07:19/2	20:45	21:32	22:03
19	08:40	07:52 08:16-08:35/19	06:52 07:34-08:10/36	06:44 08:31-08:49/18	05:51 06:44-07:00/16	05:29
	17:12	18:07	18:55 07:15-07:19/4	20:47	21:34	22:04
20	08:39	07:51 08:14-08:35/21	06:50 07:32-08:12/40	06:42 08:37-08:43/6	05:49 06:46-06:58/12	05:30
	17:14	18:09	18:57 07:13-07:18/5	20:48	21:35	22:04
21	08:38	07:49 08:12-08:35/23	06:48 07:30-08:12/42	06:40 07:03-07:05/2	05:48 06:47-06:56/9	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47 08:10-08:35/25	06:46 07:28-08:13/45	06:38 07:01-07:05/4	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:44 08:10-08:34/24	06:43 07:27-08:14/47	06:36 06:59-07:05/6	05:45	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:42 08:12-08:33/21	06:41 07:25-08:14/49	06:34 06:57-07:05/8	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:16-08:32/16	06:39 07:24-08:15/51	06:32 06:55-07:04/9	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:17-08:31/14	06:37 07:23-08:15/52	06:30 06:53-07:03/10	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:20-08:28/8	06:34 07:23-08:16/53	06:28 06:52-07:02/10	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32 07:21-08:15/54	06:26 06:49-07:00/11	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30 07:52-07:53/1	06:24 06:48-07:01/13	05:39	05:33
	17:29		20:12 08:21-09:15/54	21:03	21:47	22:04
30	08:27		07:28 07:50-07:52/2	06:22 06:46-07:02/16	05:38	05:33
	17:31		20:14 08:20-09:16/56	21:05	21:48	22:04
31	08:25		07:25 07:48-07:52/4		05:37	
	17:33		20:15 08:20-09:16/56		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	209	224	1084	948	492	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34		06:09	06:49-07:15/26	06:57	08:19-09:06/47	07:44	08:20-08:49/29	07:36		08:26	09:17-09:22/5
	22:04		21:33		20:33		19:25	08:11-08:17/6	17:21		16:42	08:57-09:05/8
2	05:34		06:10	06:48-07:16/28	06:59	08:18-09:06/48	07:46	08:20-08:49/29	07:38		08:27	09:17-09:25/8
	22:04		21:32		20:31		19:23	08:11-08:19/8	17:19		16:41	08:59-09:06/7
3	05:35		06:12	06:46-07:16/30	07:00	08:17-09:07/50	07:48	08:12-08:48/36	07:40		08:29	09:16-09:26/10
	22:03		21:30		20:29		19:21		17:17		16:41	09:00-09:06/6
4	05:36		06:13	06:45-07:15/30	07:02	08:16-09:07/51	07:49	08:14-08:47/33	07:42		08:30	09:16-09:28/12
	22:03		21:29		20:26		19:19		17:16		16:40	09:02-09:07/5
5	05:37		06:15	06:45-07:16/31	07:03	08:15-09:08/53	07:51	08:16-08:47/31	07:43		08:31	09:15-09:28/13
	22:03		21:27		20:24		19:16		17:14		16:40	09:03-09:07/4
6	05:37		06:16	06:44-07:15/31	07:05	08:14-09:08/54	07:52	08:19-08:45/26	07:45		08:33	09:15-09:29/14
	22:02		21:25		20:22		19:14	08:17-08:18/1	17:12		16:39	09:04-09:08/4
7	05:38		06:18	06:46-07:16/30	07:06	08:14-09:08/54	07:54	08:20-08:44/24	07:47		08:34	09:16-09:31/15
	22:01		21:23		20:20		19:12		17:11		16:39	09:06-09:09/3
8	05:39		06:19	06:47-07:15/28	07:08	08:13-09:08/55	07:56	08:22-08:43/21	07:49		08:35	09:15-09:31/16
	22:01		21:22		20:18		19:10		17:09		16:39	09:07-09:09/2
9	05:40		06:21	06:49-07:15/26	07:10	08:13-09:08/55	07:57	08:23-08:41/18	07:50		08:36	09:15-09:32/17
	22:00		21:20		20:15		19:07		17:07		16:38	09:08-09:09/1
10	05:41		06:23	06:50-07:13/23	07:11	07:36-07:37/1	07:59	08:25-08:38/13	07:52		08:37	09:15-09:32/17
	22:00		21:18		20:13	08:12-09:08/56	19:05		17:06		16:38	
11	05:42		06:24	06:51-07:12/21	07:13	07:38-07:42/4	08:01	08:29-08:34/5	07:54		08:38	09:16-09:33/17
	21:59		21:16		20:11	08:12-09:08/56	19:03		17:04		16:38	
12	05:43		06:26	06:53-07:12/19	07:14	07:39-07:43/4	08:02		07:55		08:39	09:16-09:33/17
	21:58		21:14		20:09	08:11-09:07/56	19:01		17:03		16:38	
13	05:44		06:27	06:54-07:10/16	07:16	07:41-07:44/3	08:04		07:57		08:40	09:16-09:34/18
	21:57		21:12		20:06	08:12-09:07/55	18:59		17:01		16:38	
14	05:45		06:29	06:56-07:08/12	07:17	07:42-07:43/1	08:06	08:55-08:57/2	07:59		08:41	09:17-09:34/17
	21:56		21:10		20:04	08:11-09:06/55	18:57		17:00		16:38	
15	05:46		06:30	06:57-07:08/11	07:19	08:11-09:06/55	08:07	08:51-09:02/11	08:01		08:42	09:17-09:35/18
	21:55		21:09		20:02		18:55		16:58		16:38	
16	05:48		06:32	06:59-07:10/11	07:21	08:11-09:04/53	08:09	08:48-09:03/15	08:02		08:43	09:18-09:36/18
	21:54		21:07		19:59		18:52		16:57		16:38	
17	05:49		06:33	07:00-07:10/10	07:22	08:12-09:04/52	08:11	08:45-09:04/19	08:04		08:44	09:18-09:36/18
	21:53		21:05		19:57		18:50		16:56		16:38	
18	05:50		06:35	07:02-07:11/9	07:24	08:11-09:02/51	08:12	08:43-09:05/22	08:06		08:44	09:18-09:36/18
	21:52		21:03		19:55		18:48		16:55		16:39	
19	05:51		06:37	07:03-07:10/7	07:25	08:12-09:02/50	08:14	08:41-09:06/25	08:07		08:45	09:19-09:37/18
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52		06:38	07:05-07:11/6	07:27	08:13-09:01/48	08:16	08:42-09:06/24	08:09		08:46	09:20-09:38/18
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54		06:40	07:06-07:10/4	07:28	08:14-08:59/45	08:17	08:43-09:05/22	08:11		08:46	09:20-09:38/18
	21:49		20:57		19:48		18:42		16:51		16:40	
22	05:55	06:59-07:05/6	06:41	07:08-07:09/1	07:30	08:15-08:58/43	08:19	08:45-09:05/20	08:12		08:47	09:21-09:39/18
	21:48		20:54		19:46		18:40		16:50		16:40	
23	05:56	06:56-07:07/11	06:43	08:39-08:48/9	07:32	08:16-08:56/40	08:21	08:47-09:05/18	08:14		08:47	09:21-09:39/18
	21:46		20:52		19:43	07:56-08:01/5	18:38		16:49		16:41	
24	05:58	06:54-07:08/14	06:44	08:35-08:54/19	07:33	08:17-08:54/37	08:23	08:49-09:05/16	08:15		08:48	09:21-09:39/18
	21:45		20:50		19:41	07:58-08:02/4	18:36		16:48		16:41	
25	05:59	06:54-07:10/16	06:46	08:31-08:56/25	07:35	08:18-08:51/33	07:24	07:51-08:04/13	08:17		08:48	09:22-09:40/18
	21:44		20:48		19:39	07:59-08:02/3	17:34		16:47		16:42	
26	06:00	06:53-07:11/18	06:48	08:29-08:59/30	07:36	08:21-08:49/28	07:26	07:52-08:02/10	08:19		08:49	09:22-09:40/18
	21:42		20:46		19:37	08:01-08:02/1	17:32		16:46		16:43	
27	06:02	06:52-07:12/20	06:49	08:26-09:00/34	07:38	08:23-08:48/25	07:28	07:54-08:01/7	08:20		08:49	09:23-09:41/18
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03	06:51-07:14/23	06:51	08:25-09:02/37	07:40	08:22-08:48/26	07:29	07:56-07:59/3	08:22	08:56-09:02/6	08:49	09:23-09:41/18
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05	06:50-07:14/24	06:52	08:23-09:03/40	07:41	08:21-08:49/28	07:31		08:23	08:55-09:03/8	08:49	09:23-09:41/18
	21:38		20:40		19:30		17:26		16:43		16:45	
30	06:06	06:50-07:14/24	06:54	08:22-09:04/42	07:43	08:20-08:48/28	07:33		08:24	08:56-09:04/8	08:49	09:24-09:42/18
	21:37		20:37		19:28		17:25		16:43		16:46	
31	06:07	06:50-07:15/25	06:55	08:20-09:05/45			07:35				08:49	09:25-09:42/17
	21:35		20:35				17:23				16:47	
Potential sun hours	498		451		380		333		269		248	
Sum of minutes with flicker		181		691		1413		507		22		541

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February		March		April		May		June	
1	08:50	08:24		07:32	08:03-08:38/35	07:23		06:20	06:44-06:45/1	05:36	06:27-06:48/21
	16:48	17:35		18:25		20:17		21:06	06:47-06:53/6	21:50	
2	08:49	08:22		07:30	08:04-08:40/36	07:21		06:18	06:42-06:44/2	05:35	06:28-06:49/21
	16:49	17:36		18:26		20:19		21:08		21:52	
3	08:49	08:21		07:28	08:07-08:41/34	07:19		06:16		05:35	06:28-06:48/20
	16:50	17:38		18:28		20:20		21:09		21:53	
4	08:49	08:19	08:57-09:04/7	07:26	08:07-08:42/35	07:16		06:14		05:34	06:29-06:47/18
	16:51	17:40		18:30		20:22		21:11		21:54	
5	08:49	08:18	08:53-09:08/15	07:24	08:05-08:42/37	07:14		06:13		05:33	06:30-06:47/17
	16:52	17:42		18:32		20:24		21:13		21:55	
6	08:49	08:16	08:51-09:10/19	07:21	08:04-08:42/38	07:12		06:11	06:36-06:38/2	05:33	06:30-06:46/16
	16:54	17:44		18:33		20:25		21:14		21:55	
7	08:48	08:14	08:49-09:11/22	07:19	08:04-08:43/39	07:10		06:09	06:34-06:37/3	05:32	06:31-06:47/16
	16:55	17:45		18:35		20:27		21:16		21:56	
8	08:48	08:13	08:48-09:13/25	07:17	08:03-08:43/40	07:08		06:07	06:32-06:36/4	05:32	06:31-06:46/15
	16:56	17:47		18:37		20:28		21:17		21:57	
9	08:47	08:11	08:47-09:14/27	07:15	08:02-08:42/40	07:05		06:06	06:31-06:43/12	05:31	06:33-06:45/12
	16:57	17:49		18:38		20:30		21:19		21:58	
10	08:47	08:09	08:46-09:15/29	07:13	08:02-08:42/40	07:03		06:04	06:29-06:44/15	05:31	06:34-06:45/11
	16:59	17:51		18:40	07:44-07:47/3	20:32		21:20		21:59	
11	08:46	08:08	08:45-09:16/31	07:10	08:02-08:42/40	07:01	07:24-07:29/5	06:02	06:28-06:46/18	05:30	06:35-06:45/10
	17:00	17:53		18:42	07:39-07:52/13	20:33		21:22		22:00	
12	08:46	08:06	08:45-09:16/31	07:08	08:02-08:42/40	06:59	07:21-07:29/8	06:01	06:26-06:47/21	05:30	06:35-06:44/9
	17:02	17:54		18:44	07:36-07:55/19	20:35		21:24		22:00	
13	08:45	08:04	08:44-09:17/33	07:06	08:02-08:40/38	06:57	07:19-07:30/11	05:59	06:25-06:48/23	05:30	06:36-06:43/7
	17:03	17:56		18:45	07:34-07:55/21	20:37		21:25		22:01	
14	08:44	08:02	08:44-09:17/33	07:04	08:02-08:40/38	06:54	07:17-07:31/14	05:58	06:25-06:48/23	05:30	06:38-06:43/5
	17:04	17:58		18:47	07:32-07:56/24	20:38		21:27		22:01	
15	08:44	08:00	08:43-09:17/34	07:01	08:03-08:39/36	06:52	07:15-07:31/16	05:56	06:25-06:49/24	05:30	06:39-06:42/3
	17:06	18:00		18:49	07:31-07:57/26	20:40		21:28		22:02	
16	08:43	07:58	08:43-09:17/34	06:59	08:03-08:38/35	06:50	07:13-07:31/18	05:55	06:25-06:50/25	05:29	
	17:08	18:02		18:50	07:30-07:58/28	20:42		21:30		22:02	
17	08:42	07:56	08:43-09:17/34	06:57	08:03-08:36/33	06:48	07:13-07:31/18	05:53	06:24-06:49/25	05:29	
	17:09	18:03		18:52	07:29-07:58/29	20:43		21:31		22:03	
18	08:41	07:54	08:43-09:17/34	06:55	08:04-08:35/31	06:46	07:13-07:30/17	05:52	06:24-06:50/26	05:29	
	17:11	18:05		18:54	07:29-07:58/29	20:45		21:32		22:03	
19	08:40	07:53	08:44-09:16/32	06:52	08:06-08:33/27	06:44	07:13-07:29/16	05:51	06:24-06:50/26	05:29	
	17:12	18:07		18:55	07:28-07:58/30	20:47		21:34		22:04	
20	08:39	07:51	08:44-09:16/32	06:50	08:07-08:31/24	06:42	07:14-07:28/14	05:49	06:24-06:51/27	05:29	
	17:14	18:09		18:57	07:28-07:58/30	20:48		21:35		22:04	
21	08:38	07:49	08:45-09:15/30	06:48	08:09-08:27/18	06:40	07:15-07:27/12	05:48	06:23-06:50/27	05:30	
	17:16	18:11	08:12-08:16/4	18:59	07:28-07:56/28	20:50	07:03-07:05/2	21:37		22:04	
22	08:37	07:47	08:45-09:14/29	06:46	08:12-08:23/11	06:38	07:17-07:24/7	05:47	06:23-06:50/27	05:30	
	17:17	18:12	08:10-08:18/8	19:00	07:28-07:56/28	20:51	07:01-07:06/5	21:38		22:04	
23	08:36	07:45	08:46-09:13/27	06:43	07:28-07:55/27	06:36	06:59-07:06/7	05:45	06:24-06:50/26	05:30	
	17:19	18:14	08:08-08:19/11	19:02		20:53		21:39		22:05	
24	08:35	07:42	08:48-09:11/23	06:41	07:28-07:53/25	06:34	06:57-07:06/9	05:44	06:24-06:50/26	05:30	
	17:21	18:16	08:06-08:19/13	19:04		20:55		21:41		22:05	
25	08:33	07:40	08:49-09:10/21	06:39	07:29-07:52/23	06:32	06:55-07:06/11	05:43	06:24-06:50/26	05:31	
	17:22	18:18	08:04-08:20/16	19:05		20:56		21:42		22:05	
26	08:32	07:38	08:02-08:33/31	06:37	07:31-07:50/19	06:30	06:53-07:05/12	05:42	06:24-06:50/26	05:31	
	17:24	18:19	08:51-09:07/16	19:07		20:58		21:43		22:05	
27	08:31	07:36	08:03-08:36/33	06:34	07:32-07:48/16	06:28	06:51-07:04/13	05:41	06:25-06:50/25	05:31	
	17:26	18:21	08:55-09:04/9	19:09		21:00		21:45		22:05	
28	08:30	07:34	08:02-08:37/35	06:32	07:34-07:44/10	06:26	06:50-07:03/13	05:40	06:25-06:49/24	05:32	06:41-06:45/4
	17:27	18:23		19:10		21:01		21:46		22:05	
29	08:28			07:30		06:24	06:48-07:02/14	05:39	06:26-06:50/24	05:32	06:40-06:46/6
	17:29			20:12		21:03		21:47		22:05	
30	08:27			07:28		06:22	06:46-06:55/9	05:38	06:26-06:50/24	05:33	06:40-06:48/8
	17:31			20:14		21:05		21:48		22:04	
31	08:25			07:25				05:37	06:27-06:49/22		
	17:33			20:15				21:49			
Potential sun hours	262	279		367		415		482		495	
Sum of minutes with flicker	0	778		1173		251		560		219	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:39-06:49/10 22:04	06:09 06:37-06:57/20 21:33	06:57 07:23-07:28/5 20:33	07:44 08:41-09:20/39 19:25 08:14-08:34/20	07:36 08:16-08:44/28 17:21	08:26 16:42
2	05:34 06:38-06:49/11 22:04	06:10 06:39-06:56/17 21:32	06:59 20:31	07:46 08:41-09:21/40 19:23 08:17-08:32/15	07:38 08:17-08:44/27 17:19	08:27 16:41
3	05:35 06:38-06:50/12 22:03	06:12 06:40-06:54/14 21:30	07:00 20:29	07:48 08:40-09:20/40 19:21 08:19-08:28/9	07:40 08:17-08:42/25 17:17	08:29 16:41
4	05:36 06:38-06:52/14 22:03	06:13 06:41-06:51/10 21:29	07:02 20:27	07:49 08:40-09:20/40 19:19	07:42 08:19-08:41/22 17:16	08:30 16:40
5	05:37 06:37-06:52/15 22:03	06:15 06:43-06:47/4 21:27	07:03 20:24	07:51 08:40-09:20/40 19:16	07:43 08:21-08:39/18 17:14	08:31 16:40
6	05:37 06:37-06:53/16 22:02	06:16 06:44-06:47/3 21:25	07:05 20:22	07:52 08:40-09:19/39 19:14	07:45 08:23-08:37/14 17:12	08:33 16:39
7	05:38 06:36-06:53/17 22:02	06:18 06:46-06:47/1 21:23	07:06 20:20	07:54 08:40-09:18/38 19:12	07:47 08:27-08:33/6 17:11	08:34 16:39
8	05:39 06:36-06:54/18 22:01	06:19 21:22	07:08 20:18	07:56 08:41-09:18/37 19:10	07:49 17:09	08:35 16:39
9	05:40 06:36-06:55/19 22:00	06:21 21:20	07:10 20:15	07:57 08:40-09:16/36 19:07	07:50 17:07	08:36 16:38
10	05:41 06:36-06:56/20 22:00	06:23 21:18	07:11 20:13	07:59 08:41-09:16/35 19:05	07:52 17:06	08:37 16:38
11	05:42 06:36-06:57/21 21:59	06:24 06:52-06:54/2 21:16	07:13 20:11	08:01 08:40-09:15/35 19:03	07:54 17:04	08:38 16:38
12	05:43 06:35-06:57/22 21:58	06:26 06:53-06:54/1 21:14 06:55-07:02/7	07:14 20:09	08:02 08:38-09:12/34 19:01	07:56 17:03	08:39 16:38
13	05:44 06:35-06:58/23 21:57	06:27 06:54-07:03/9 21:12	07:16 20:06	08:04 08:36-09:11/35 18:59	07:57 17:01	08:40 16:38
14	05:45 06:35-06:58/23 21:56	06:29 06:56-07:10/14 21:11	07:17 20:04	08:06 08:35-09:09/34 18:57	07:59 17:00	08:41 16:38
15	05:46 06:35-06:59/24 21:55	06:30 06:57-07:11/14 21:09	07:19 08:26-08:34/8 20:02	08:07 08:35-09:07/32 18:54 09:25-09:38/13	08:01 16:58	08:42 16:38
16	05:47 06:34-06:59/25 21:54	06:32 06:59-07:12/13 21:07	07:21 08:21-08:36/15 19:59	08:09 08:35-09:02/27 18:52 09:22-09:39/17	08:02 16:57	08:43 16:38
17	05:49 06:34-06:59/25 21:53	06:33 07:00-07:12/12 21:05	07:22 08:19-08:38/19 19:57	08:11 09:20-09:42/22 18:50 08:36-08:51/15	08:04 16:56	08:44 16:38
18	05:50 06:34-07:00/26 21:52	06:35 07:02-07:13/11 21:03	07:24 08:17-08:39/22 19:55	08:12 09:18-09:43/25 18:48 08:38-08:50/12	08:06 16:55	08:45 16:39
19	05:51 06:34-07:00/26 21:51	06:37 07:03-07:12/9 21:01	07:25 08:16-08:40/24 19:53	08:14 09:17-09:45/28 18:46 08:40-08:50/10	08:07 16:53	08:45 16:39
20	05:52 06:33-07:00/27 21:50	06:38 07:05-07:12/7 20:59	07:27 08:15-08:42/27 19:50	08:16 09:16-09:46/30 18:44 08:42-08:48/6	08:09 16:52	08:46 16:39
21	05:54 06:34-07:01/27 21:49	06:40 07:21-07:30/9 20:57 07:06-07:11/5	07:28 09:00-09:07/7 19:48 08:14-08:41/27	08:17 09:15-09:46/31 18:42 08:43-08:46/3	08:11 16:51	08:46 16:40
22	05:55 06:34-07:01/27 21:48	06:41 07:19-07:32/13 20:55 07:08-07:10/2	07:30 08:55-09:12/17 19:46 08:13-08:42/29	08:19 09:14-09:46/32 18:40	08:12 16:50	08:47 16:40
23	05:56 06:34-07:00/26 21:46	06:43 07:17-07:32/15 20:52	07:32 08:52-09:14/22 19:43 08:12-08:41/29	08:21 09:14-09:47/33 18:38	08:14 16:49	08:48 16:41
24	05:58 06:34-07:00/26 21:45	06:44 07:17-07:33/16 20:50	07:33 08:50-09:16/26 19:41 08:12-08:41/29	08:23 09:14-09:47/33 18:36	08:15 16:48	08:48 16:41
25	05:59 06:34-07:01/27 21:44	06:46 07:16-07:33/17 20:48	07:35 08:47-09:17/30 19:39 08:11-08:40/29	07:24 08:14-08:47/33 17:34	08:17 16:47	08:48 16:42
26	06:00 06:34-07:00/26 21:42	06:48 07:16-07:34/18 20:46	07:36 08:46-09:18/32 19:37 08:11-08:40/29	07:26 08:14-08:47/33 17:32	08:19 16:46	08:49 16:43
27	06:02 06:34-07:00/26 21:41	06:49 07:15-07:33/18 20:44	07:38 08:45-09:19/34 19:34 08:12-08:40/28	07:28 08:13-08:46/33 17:30	08:20 16:45	08:49 16:43
28	06:03 06:36-07:00/24 21:40	06:51 07:17-07:33/16 20:42	07:40 08:44-09:19/35 19:32 08:12-08:38/26	07:29 08:13-08:46/33 17:28	08:22 16:44	08:49 16:44
29	06:05 06:36-06:59/23 21:38	06:52 07:18-07:32/14 20:40	07:41 08:43-09:20/37 19:30 08:13-08:38/25	07:31 08:14-08:46/32 17:26	08:23 16:43	08:49 16:45
30	06:06 06:35-06:58/23 21:37	06:54 07:20-07:31/11 20:38	07:43 08:41-09:20/39 19:28 08:13-08:36/23	07:33 08:14-08:46/32 17:24	08:25 16:43	08:49 16:46
31	06:07 06:36-06:58/22 21:35	06:55 07:21-07:29/8 20:35	 	07:35 08:15-08:45/30 17:23	 	08:49 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	671	330	673	1161	140	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:47-10:30/43	08:24 08:52-09:29/37	07:32	07:23 07:48-07:54/6	06:20	05:36 06:23-06:34/11
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:48-10:30/42	08:22 08:52-09:29/37	07:30	07:21 07:51-08:00/9	06:18	05:36 06:22-06:37/15
	16:49	17:36	18:26	20:19 07:43-07:46/3	21:08	21:52
3	08:49 09:49-10:30/41	08:21 08:52-09:29/37	07:28	07:19 07:41-08:03/22	06:16	05:35 06:20-06:38/18
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:48-10:29/41	08:19 08:54-09:30/36	07:26	07:16 07:39-08:06/27	06:15	05:34 06:19-06:39/20
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:49-10:30/41	08:18 08:55-09:30/35	07:24	07:14 07:37-08:07/30	06:13	05:33 06:19-06:40/21
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 09:49-10:29/40	08:16 08:57-09:30/33	07:21	07:12 07:34-08:07/33	06:11	05:33 06:17-06:41/24
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:50-10:28/38	08:14 09:00-09:30/30	07:19	07:10 07:32-08:08/36	06:09	05:32 06:01-06:02/1
	16:55	17:45	18:35	20:27	21:16	21:56 06:17-06:42/25
8	08:48 09:50-10:27/37	08:13 09:01-09:30/29	07:17	07:08 07:32-08:09/37	06:08	05:32 06:01-06:03/2
	16:56	17:47	18:37	20:28	21:17	21:57 06:16-06:42/26
9	08:47 09:51-10:28/37	08:11 09:01-09:30/29	07:15	07:05 07:33-08:09/36	06:06	05:31 06:00-06:03/3
	16:57	17:49	18:38	20:30 07:28-07:30/2	21:19	21:58 06:16-06:43/27
10	08:47 09:51-10:28/37	08:09 09:02-09:29/27	07:13	07:03 07:34-08:09/35	06:04	05:31 06:00-06:04/4
	16:59	17:51	18:40	20:32 07:26-07:31/5	21:20	21:59 06:16-06:44/28
11	08:46 09:51-10:28/37	08:08 09:02-09:28/26	07:10	07:01 07:37-08:09/32	06:03	05:30 06:00-06:04/4
	17:00	17:53	18:42	20:33 07:24-07:31/7	21:22	22:00 06:16-06:45/29
12	08:46 09:51-10:28/37	08:06 09:03-09:27/24	07:08	06:59 07:35-08:08/33	06:01	05:30 05:59-06:04/5
	17:02	17:54	18:44	20:35 07:21-07:30/9	21:24	22:00 06:16-06:45/29
13	08:45 09:53-10:29/36	08:04 09:04-09:25/21	07:06	06:57 07:35-08:08/33	05:59	05:30 05:59-06:05/6
	17:03	17:56	18:45	20:37 07:19-07:29/10	21:25	22:01 06:16-06:46/30
14	08:44 09:53-10:30/37	08:02 09:06-09:24/18	07:04	06:55 07:35-08:08/33	05:58	05:30 05:59-06:05/6
	17:05	17:58	18:47	20:38 07:17-07:28/11	21:27	22:01 06:16-06:46/30
15	08:44 09:53-10:30/37	08:00 09:08-09:21/13	07:01	06:52 07:35-08:07/32	05:56	05:30 05:59-06:05/6
	17:06	18:00	18:49	20:40 07:18-07:26/8	21:28	22:02 06:16-06:47/31
16	08:43 09:54-10:30/36	07:58 09:12-09:17/5	06:59	06:50 07:35-08:07/32	05:55	05:29 05:59-06:06/7
	17:08	18:02	18:50	20:42	21:30	22:02 06:16-06:47/31
17	08:42 09:55-10:30/35	07:56	06:57 07:19-07:25/6	06:48 07:36-08:06/30	05:53	05:29 05:59-06:06/7
	17:09	18:03	18:52	20:43	21:31	22:03 06:16-06:48/32
18	08:41 09:55-10:30/35	07:54	06:55 07:17-07:27/10	06:46 07:36-08:05/29	05:52	05:29 05:59-06:06/7
	17:11	18:05	18:54	20:45	21:32	22:03 06:16-06:48/32
19	08:40 09:56-10:30/34	07:53	06:52 07:15-07:29/14	06:44 07:07-07:09/2	05:51	05:29 05:59-06:06/7
	17:12	18:07	18:55	20:47 07:37-08:04/27	21:34	22:04 06:16-06:48/32
20	08:39 09:57-10:30/33	07:51	06:50 07:13-07:29/16	06:42 07:05-07:08/3	05:49	05:29 05:59-06:07/8
	17:14	18:09	18:57	20:48 07:38-08:02/24	21:35	22:04 06:16-06:48/32
21	08:38 09:57-10:29/32	07:49	06:48 07:10-07:29/19	06:40 07:03-07:06/3	05:48	05:30 05:59-06:07/8
	17:16	18:11	18:59	20:50 07:39-08:00/21	21:37	22:04 06:16-06:48/32
22	08:37 09:58-10:28/30	07:47	06:46 07:09-07:29/20	06:38 07:01-07:03/2	05:47	05:30 06:00-06:08/8
	17:17	18:12	19:00	20:51 07:40-07:58/18	21:38	22:04 06:17-06:49/32
23	08:36 10:00-10:28/28	07:45	06:43 07:09-07:29/20	06:36 06:59-07:03/4	05:45	05:30 06:00-06:07/7
	17:19 09:10-09:16/6	18:14	19:02	20:53 07:43-07:55/12	21:39	22:05 06:17-06:49/32
24	08:35 10:00-10:27/27 09:02-09:04/2	07:42	06:41 07:09-07:29/20	06:34 06:57-07:02/5	05:44	05:30 06:00-06:07/7
	17:21 09:06-09:18/12	18:16	19:04	20:55 07:48-07:49/1	21:41	22:05 06:17-06:49/32
25	08:33 10:02-10:26/24	07:40	06:39 07:08-07:27/19	06:32 06:55-07:02/7	05:43	05:31 06:01-06:08/7
	17:22 09:00-09:21/21	18:18	19:05	20:56	21:42	22:05 06:18-06:50/32
26	08:32 10:04-10:25/21	07:38	06:37 07:09-07:26/17	06:30 06:53-07:01/8	05:42	05:31 06:01-06:08/7
	17:24 08:59-09:23/24	18:19	19:07	20:58	21:43	22:05 06:18-06:49/31
27	08:31 10:05-10:23/18	07:36	06:34 07:10-07:25/15	06:28 06:51-07:00/9	05:41	05:31 06:02-06:09/7
	17:26 08:57-09:24/27	18:21	19:09	21:00	21:45	22:05 06:18-06:49/31
28	08:30 10:08-10:21/13	07:34	06:32 07:11-07:22/11	06:26 06:51-07:00/9	05:40	05:32 06:02-06:08/6
	17:27 08:56-09:25/29	18:23	19:10 06:55-06:58/3	21:01	21:46	22:05 06:19-06:49/30
29	08:28 10:12-10:16/4		07:30 08:15-08:18/3	06:24 06:53-06:58/5	05:39	05:32 06:03-06:09/6
	17:29 08:54-09:26/32		20:12 07:52-07:57/5	21:03	21:47	22:05 06:19-06:49/30
30	08:27 08:53-09:27/34		07:28 07:50-07:56/6	06:22	05:38	05:33 06:03-06:08/5
	17:31		20:14	21:05	21:48	22:04 06:20-06:49/29
31	08:25 08:51-09:28/37		07:25 07:48-07:56/8		05:37 06:26-06:31/5	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1175	437	212	740	5	975

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:09/5	06:09	06:57 07:36-08:08/32	07:44	07:36 08:31-08:59/28	08:26 09:33-10:10/37
	22:04 06:21-06:50/29	21:33	20:33 07:23-07:30/7	19:25	17:21	16:42
2	05:34 06:04-06:08/4	06:10	06:59 07:32-08:07/35	07:46	07:38 08:31-08:59/28	08:27 09:34-10:11/37
	22:04 06:20-06:49/29	21:32	20:31 07:24-07:29/5	19:23	17:19	16:41
3	05:35 06:05-06:08/3	06:12	07:00 07:31-08:07/36	07:48	07:40 08:29-08:59/30	08:29 09:34-10:11/37
	22:03 06:21-06:49/28	21:30	20:29 07:26-07:28/2	19:21	17:17	16:41
4	05:36 06:06-06:08/2	06:13	07:02 07:29-08:06/37	07:49	07:42 08:29-08:59/30	08:30 09:35-10:12/37
	22:03 06:22-06:49/27	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:09/2	06:15	07:03 07:29-08:05/36	07:51	07:43 08:26-09:00/34	08:31 09:35-10:13/38
	22:03 06:22-06:48/26	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:47/24	06:16	07:05 07:30-08:03/33	07:52	07:45 08:25-09:00/35	08:33 09:35-10:15/40
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:25-06:47/22	06:18	07:06 07:32-08:02/30	07:54	07:47 08:24-09:00/36	08:34 09:36-10:17/41
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39 06:26-06:47/21	06:19	07:08 07:33-08:00/27	07:56	07:49 08:23-09:00/37	08:35 09:36-10:17/41
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:27-06:46/19	06:21	07:10 07:35-07:58/23	07:57	07:50 08:23-09:00/37	08:36 09:37-10:18/41
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:28-06:45/17	06:23	07:11 07:43-07:54/11	07:59	07:52 08:23-09:00/37	08:37 09:37-10:19/42
	22:00	21:18	20:13 07:36-07:39/3	19:05	17:06	16:38
11	05:42 06:30-06:43/13	06:24	07:13 07:40-07:46/6	08:01	07:54 08:23-09:00/37	08:38 09:37-10:20/43
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:33-06:41/8	06:26	07:14 07:39-07:47/8	08:02	07:56 08:24-08:58/34	08:39 09:38-10:20/42
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 07:41-07:48/7	08:04	07:57 09:44-09:49/5	08:40 09:38-10:21/43
	21:57	21:12	20:06	18:59	17:01 08:26-08:58/32	16:38
14	05:45	06:29 07:00-07:06/6	07:17 07:42-07:47/5	08:06	07:59 09:40-09:53/13	08:41 09:39-10:22/43
	21:56	21:11	20:04	18:57	17:00 08:28-08:57/29	16:38
15	05:46	06:30 06:57-07:07/10	07:19 08:02-08:12/10	08:07	08:01 09:38-09:56/18	08:42 09:40-10:23/43
	21:55	21:09	20:02 07:44-07:47/3	18:55	16:58 08:30-08:57/27	16:38
16	05:47	06:32 06:59-07:08/9	07:21 07:59-08:13/14	08:09	08:02 09:37-09:58/21	08:43 09:40-10:24/44
	21:54	21:07	19:59 07:45-07:46/1	18:52	16:57 08:32-08:56/24	16:38
17	05:49	06:33 07:00-07:08/8	07:22 07:58-08:15/17	08:11	08:04 09:36-10:00/24	08:44 09:41-10:24/43
	21:53	21:05	19:57	18:50	16:56 08:34-08:55/21	16:38
18	05:50	06:35 07:02-07:08/6	07:24 07:56-08:15/19	08:12	08:06 09:34-10:01/27 08:36-08:38/2	08:45 09:41-10:24/43
	21:52	21:03	19:55	18:48	16:55 08:40-08:52/12	16:39
19	05:51	06:37 07:03-07:08/5	07:25 07:56-08:15/19	08:14	08:07 09:34-10:02/28	08:45 09:42-10:25/43
	21:51	21:01 07:52-07:57/5	19:53	18:46	16:53 08:44-08:50/6	16:39
20	05:52	06:38 07:05-07:09/4	07:27 07:55-08:16/21	08:16	08:09 09:33-10:03/30	08:46 09:43-10:26/43
	21:50	20:59 07:48-08:02/14	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:08/2	07:28 07:54-08:15/21	08:17	08:11 09:33-10:05/32	08:46 09:43-10:26/43
	21:49	20:57 07:45-08:03/18	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:11/3	07:30 07:55-08:15/20	08:19	08:12 09:33-10:06/33	08:47 09:44-10:27/43
	21:48	20:55 07:43-08:05/22	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:12/3	07:32 07:56-08:13/17	08:21	08:14 09:32-10:06/34	08:47 09:44-10:27/43
	21:46	20:52 07:41-08:06/25	19:43	18:38	16:49	16:41
24	05:58	06:44 07:11-07:13/2	07:33 07:58-08:13/15	08:23	08:15 09:32-10:07/35	08:48 09:44-10:27/43
	21:45	20:50 07:41-08:07/26	19:41	18:36	16:48	16:41
25	05:59	06:46 07:39-08:08/29	07:35 07:59-08:10/11	07:24	08:17 09:33-10:08/35	08:48 09:45-10:28/43
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 07:39-08:09/30	07:36 08:01-08:09/8	07:26 08:41-08:49/8	08:19 09:32-10:08/36	08:49 09:45-10:28/43
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:37-08:09/32	07:38 08:03-08:05/2	07:28 08:37-08:51/14	08:20 09:33-10:09/36	08:49 09:45-10:29/44
	21:41	20:44 07:23-07:25/2	19:34	17:30	16:45	16:43
28	06:03	06:51 07:37-08:09/32	07:40	07:29 08:35-08:54/19	08:22 09:33-10:10/37	08:49 09:46-10:29/43
	21:40	20:42 07:20-07:28/8	19:32	17:28	16:44	16:44
29	06:05	06:52 07:36-08:09/33	07:41	07:31 08:33-08:55/22	08:23 09:33-10:10/37	08:49 09:46-10:29/43
	21:38	20:40 07:18-07:29/11	19:30	17:26	16:43	16:45
30	06:06	06:54 07:36-08:09/33	07:43	07:33 08:32-08:57/25	08:25 09:33-10:10/37	08:49 09:46-10:29/43
	21:37	20:38 07:20-07:30/10	19:28	17:25	16:43	16:46
31	06:07	06:55 07:35-08:08/33		07:35 08:32-08:58/26		08:49 09:47-10:29/42
	21:35	20:35 07:21-07:29/8		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	279	429	541	114	1074	1294

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:49	08:24	07:32		07:23		06:20		05:36	06:04-06:13/9
	16:48	17:34	18:25		20:17		21:06		21:50	
2	08:49	08:22	07:30		07:21		06:18	06:42-06:43/1	05:35	06:04-06:14/10
	16:49	17:36	18:26		20:18		21:08		21:51	
3	08:49	08:21	07:28		07:19		06:16	06:40-06:43/3	05:35	06:03-06:14/11
	16:50	17:38	18:28		20:20		21:09		21:52	
4	08:49	08:19	07:26		07:16		06:14	06:39-06:43/4	05:34	06:02-06:14/12
	16:51	17:40	18:30		20:22		21:11		21:53	
5	08:49	08:18	07:23		07:14		06:13	06:37-06:43/6	05:33	06:02-06:14/12
	16:52	17:42	18:31		20:23		21:13		21:54	
6	08:49	08:16	07:21	07:44-07:47/3	07:12	07:34-07:35/1	06:11	06:35-06:42/7	05:33	06:01-06:14/13
	16:53	17:43	18:33		20:25		21:14		21:55	
7	08:48	08:14	07:19	07:42-07:47/5	07:10	07:32-07:34/2	06:09	06:34-06:42/8	05:32	06:01-06:14/13
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	07:40-07:47/7	07:07	07:30-07:32/2	06:07	06:32-06:41/9	05:32	06:00-06:14/14
	16:56	17:47	18:37		20:28		21:17		21:57	
9	08:47	08:11	07:15	07:37-07:46/9	07:05		06:06	06:31-06:41/10	05:31	06:00-06:14/14
	16:57	17:49	18:38		20:30		21:19		21:58	
10	08:47	08:09	07:12	07:35-07:45/10	07:03		06:04	06:33-06:38/5	05:31	06:00-06:14/14
	16:59	17:51	18:40		20:32		21:20		21:59	
11	08:46	08:07	07:10	07:34-07:44/10	07:01		06:02		05:30	05:59-06:14/15
	17:00	17:52	18:42		20:33		21:22		21:59	
12	08:46	08:06	07:08	07:36-07:42/6	06:59		06:01		05:30	05:59-06:14/15
	17:01	17:54	18:43		20:35		21:23		22:00	
13	08:45	08:04	07:06		06:57		05:59		05:30	05:59-06:14/15
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04		06:54		05:58		05:30	05:59-06:14/15
	17:04	17:58	18:47		20:38		21:26		22:01	
15	08:44	08:00	07:01	07:24-07:26/2	06:52		05:56		05:29	05:59-06:15/16
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:22-07:27/5	06:50	07:13-07:15/2	05:55		05:29	05:59-06:15/16
	17:07	18:01	18:50		20:42		21:29		22:02	
17	08:42	07:56	06:57	07:19-07:26/7	06:48	07:11-07:15/4	05:53		05:29	05:59-06:15/16
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:54	06:55	07:17-07:26/9	06:46	07:09-07:14/5	05:52		05:29	05:59-06:15/16
	17:11	18:05	18:54		20:45		21:32		22:03	
19	08:40	07:52	06:52	07:15-07:26/11	06:44	07:07-07:13/6	05:50		05:29	05:59-06:15/16
	17:12	18:07	18:55		20:46		21:34		22:04	
20	08:39	07:50	06:50	07:13-07:25/12	06:42	07:05-07:11/6	05:49		05:29	05:59-06:15/16
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:48	06:48	07:10-07:22/12	06:40		05:48		05:30	05:59-06:15/16
	17:15	18:10	18:59		20:50		21:37		22:04	
22	08:37	07:46	06:46	07:08-07:20/12	06:38		05:47		05:30	06:00-06:16/16
	17:17	18:12	19:00		20:51		21:38		22:04	
23	08:36	07:44	06:43	07:06-07:14/8	06:36		05:45		05:30	06:00-06:16/16
	17:19	18:14	19:02		20:53		21:39		22:05	
24	08:35	07:42	06:41	07:03-07:11/8	06:34		05:44		05:30	06:00-06:16/16
	17:20	18:16	19:04		20:55		21:41		22:05	
25	08:33	07:40	06:39		06:32		05:43	06:10-06:11/1	05:31	06:01-06:17/16
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37		06:30		05:42	06:09-06:11/2	05:31	06:01-06:17/16
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34		06:28		05:41	06:08-06:12/4	05:31	06:01-06:17/16
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	06:07-06:12/5	05:32	06:02-06:17/15
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30		06:24		05:39	06:06-06:12/6	05:32	06:02-06:17/15
	17:29		20:12		21:03		21:47		22:04	
30	08:27		07:28		06:22		05:38	06:06-06:13/7	05:33	06:03-06:18/15
	17:31		20:14		21:04		21:48		22:04	
31	08:25		07:25				05:37	06:05-06:13/8		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	136		28		86		435	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34	06:04-06:19/15	06:09		06:57		07:44		07:36	08:26
	22:04		21:33		20:33		19:25		17:21	16:42
2	05:34	06:04-06:19/15	06:10		06:58		07:46	08:14-08:22/8	07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35	06:05-06:19/14	06:12	06:42-06:50/8	07:00		07:47	08:12-08:23/11	07:40	08:29
	22:03		21:30		20:29		19:21		17:17	16:41
4	05:36	06:06-06:20/14	06:13	06:41-06:50/9	07:02	07:27-07:29/2	07:49	08:14-08:24/10	07:42	08:30
	22:03		21:29		20:26		19:18		17:15	16:40
5	05:36	06:06-06:19/13	06:15	06:43-06:52/9	07:03	07:29-07:31/2	07:51	08:16-08:24/8	07:43	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37	06:07-06:20/13	06:16	06:44-06:52/8	07:05	07:30-07:31/1	07:52	08:17-08:23/6	07:45	08:32
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38	06:08-06:20/12	06:18	06:46-06:53/7	07:06		07:54	08:19-08:23/4	07:47	08:34
	22:01		21:23		20:20		19:12		17:10	16:39
8	05:39	06:09-06:21/12	06:19	06:47-06:52/5	07:08		07:56	08:21-08:23/2	07:49	08:35
	22:01		21:22		20:17		19:10		17:09	16:39
9	05:40	06:10-06:21/11	06:21	06:48-06:52/4	07:09		07:57		07:50	08:36
	22:00		21:20		20:15		19:07		17:07	16:38
10	05:41	06:11-06:21/10	06:22	06:50-06:52/2	07:11		07:59		07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42	06:12-06:22/10	06:24		07:13		08:01		07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43	06:13-06:22/9	06:26		07:14		08:02		07:55	08:39
	21:58		21:14		20:08		19:01		17:03	16:38
13	05:44	06:14-06:22/8	06:27		07:16		08:04		07:57	08:40
	21:57		21:12		20:06		18:59		17:01	16:38
14	05:45	06:15-06:22/7	06:29		07:17		08:06		07:59	08:41
	21:56		21:10		20:04		18:57		17:00	16:38
15	05:46	06:16-06:22/6	06:30		07:19		08:07		08:01	08:42
	21:55		21:08		20:02		18:54		16:58	16:38
16	05:47	06:17-06:21/4	06:32		07:20		08:09		08:02	08:43
	21:54		21:07		19:59		18:52		16:57	16:38
17	05:49	06:18-06:21/3	06:33		07:22		08:11		08:04	08:44
	21:53		21:05		19:57		18:50		16:56	16:38
18	05:50	06:19-06:21/2	06:35		07:24		08:12		08:06	08:44
	21:52		21:03		19:55		18:48		16:54	16:38
19	05:51		06:36		07:25	07:51-07:58/7	08:14		08:07	08:45
	21:51		21:01		19:52		18:46		16:53	16:39
20	05:52		06:38		07:27	07:52-08:00/8	08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54		06:40		07:28	07:53-08:00/7	08:17		08:11	08:46
	21:49		20:56		19:48		18:42		16:51	16:40
22	05:55		06:41		07:30	07:55-08:07/12	08:19		08:12	08:47
	21:48		20:54		19:46		18:40		16:50	16:40
23	05:56		06:43	07:09-07:15/6	07:31	07:56-08:08/12	08:21		08:14	08:47
	21:46		20:52		19:43		18:38		16:49	16:41
24	05:57		06:44	07:11-07:17/6	07:33	07:58-08:09/11	08:22		08:15	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59		06:46	07:12-07:17/5	07:35	07:59-08:09/10	07:24		08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00		06:47	07:14-07:18/4	07:36	08:01-08:09/8	07:26		08:18	08:49
	21:42		20:46		19:37		17:32		16:46	16:42
27	06:02		06:49	07:15-07:17/2	07:38	08:03-08:09/6	07:28		08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03		06:51		07:39	08:04-08:07/3	07:29		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:04		06:52		07:41		07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06		06:54		07:43		07:33		08:24	08:49
	21:37		20:37		19:27		17:24		16:43	16:46
31	06:07		06:55				07:35			08:49
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	178		75		89		49		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT09 - VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:41/2	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12 06:37-06:40/3	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11 06:35-06:39/4	05:33	05:37	06:16 06:44-06:48/4	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09 06:34-06:38/4	05:32	05:38	06:18 06:46-06:49/3	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19 06:47-06:50/3	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21 06:48-06:49/1	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:27/1	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:26/1	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:25/2	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:25/3	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:25/4	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:22/3	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01 06:30-06:34/4	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:35/3	06:50	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:36/3	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06 06:34-06:36/2	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:37/1	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	28	0	13	12	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT10 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20 06:44-06:49/5	05:36	05:34 06:04-06:12/8	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:42-06:48/6	05:35	05:34 06:04-06:12/8	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:41-06:47/6	05:35 06:03-06:04/1	05:35 06:05-06:12/7	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:45/6	05:34 06:02-06:04/2	05:36 06:06-06:12/6	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:02-06:05/3	05:36 06:06-06:12/6	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:05/4	05:37 06:07-06:12/5	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:06/5	05:38 06:08-06:12/4	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32 06:00-06:06/6	05:39 06:09-06:12/3	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31 06:00-06:07/7	05:40 06:10-06:12/2	06:21 06:49-06:55/6	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:07/7	05:41 06:11-06:12/1	06:22 06:50-06:56/6	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 05:59-06:07/8	05:42	06:24 06:51-06:56/5	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 05:59-06:07/8	05:43	06:26 06:53-06:57/4	07:14	08:02	07:56	08:39
	17:01	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:08/9	05:44	06:27 06:54-06:57/3	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 05:59-06:08/9	05:45	06:29 06:56-06:58/2	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 05:59-06:09/10	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 05:59-06:09/10	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 05:59-06:09/10	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29 05:59-06:09/10	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44	05:50	05:29 05:59-06:09/10	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 05:59-06:10/11	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:29 05:59-06:10/11	05:54	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:00-06:11/11	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:00-06:11/11	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34	05:44	05:30 06:00-06:10/10	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43	05:31 06:00-06:10/10	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:01-06:11/10	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31 06:01-06:11/10	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32 06:02-06:11/9	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:48-06:50/2	05:39	05:32 06:02-06:11/9	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22 06:46-06:49/3	05:38	05:33 06:03-06:12/9	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	5	23	230	50	26	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 08:50-09:14/24 17:35	07:32 18:25	07:23 07:46-08:07/21 20:17	06:20 06:56-07:17/21 21:06	05:36 06:04-06:24/20 21:50
2	08:49 16:49	08:22 08:48-09:14/26 17:36	07:30 18:26	07:21 07:43-08:05/22 20:19	06:18 06:56-07:16/20 21:08	05:35 06:04-06:25/21 21:51
3	08:49 16:50	08:21 08:48-09:13/25 17:38	07:28 18:28	07:19 07:49-08:04/15 20:20	06:16 06:57-07:14/17 21:09	05:35 06:03-06:25/22 21:53
4	08:49 16:51	08:19 08:49-09:14/25 17:40	07:26 18:30	07:16 07:51-08:02/11 20:22	06:14 06:59-07:13/14 21:11	05:34 06:02-06:26/24 21:54
5	08:49 16:52	08:18 08:49-09:13/24 17:42	07:23 18:32	07:14 07:55-07:57/2 20:23 07:37-07:38/1	06:13 07:02-07:10/8 21:13	05:33 06:02-06:27/25 21:54
6	08:49 16:54	08:16 08:49-09:12/23 17:43	07:21 18:33	07:12 07:34-07:36/2 20:25	06:11 21:14	05:33 06:01-06:27/26 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:50-09:11/21 17:45 08:39-08:41/2	07:19 18:35	07:10 07:32-07:35/3 20:27	06:09 21:16	05:32 06:01-06:28/27 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:52-09:11/19 17:47 08:38-08:42/4	07:17 18:37	07:08 20:28	06:07 21:17	05:32 06:00-06:28/28 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:53-09:10/17 17:49 08:36-08:42/6	07:15 18:38	07:05 20:30	06:06 21:19	05:31 06:00-06:29/29 21:58
10	08:47 09:16-09:22/6 16:59	08:09 08:55-09:08/13 17:51 08:34-08:41/7	07:13 18:40	07:03 20:32	06:04 21:20	05:31 06:00-06:29/29 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:58-09:04/6 17:53 08:32-08:40/8	07:10 18:42	07:01 20:33	06:02 21:22	05:30 05:59-06:29/30 21:59
12	08:46 09:15-09:24/9 17:02	08:06 08:30-08:41/11 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:27/1 21:24	05:30 05:59-06:30/31 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:28-08:41/13 17:56	07:06 18:45	06:57 20:37	05:59 06:25-06:27/2 21:25	05:30 05:59-06:30/31 22:01
14	08:44 09:13-09:25/12 17:04	08:02 08:26-08:41/15 17:58	07:04 18:47	06:54 20:38	05:58 06:23-06:26/3 21:27	05:30 05:59-06:31/32 22:01
15	08:44 09:12-09:26/14 17:06	08:00 08:24-08:41/17 18:00	07:01 18:49	06:52 20:40	05:56 06:22-06:26/4 21:28	05:30 05:59-06:31/32 22:02
16	08:43 09:11-09:26/15 17:08	07:58 08:22-08:41/19 18:02	06:59 07:22-07:24/2 18:50	06:50 07:13-07:16/3 20:42	05:55 06:21-06:26/5 21:30	05:29 05:59-06:32/33 22:02
17	08:42 09:10-09:27/17 17:09	07:56 08:20-08:41/21 18:03	06:57 07:19-07:24/5 18:52	06:48 07:11-07:18/7 20:43	05:53 06:19-06:25/6 21:31	05:29 05:59-06:32/33 22:03
18	08:41 09:09-09:27/18 17:11	07:54 08:20-08:40/20 18:05	06:55 07:17-07:24/7 18:54	06:46 07:09-07:19/10 20:45	05:52 06:18-06:24/6 21:32	05:29 05:59-06:32/33 22:03
19	08:40 09:08-09:27/19 17:12	07:52 08:21-08:39/18 18:07	06:52 07:15-07:24/9 18:55	06:44 07:07-07:20/13 20:47	05:51 06:17-06:23/6 21:34	05:29 05:59-06:32/33 22:04
20	08:39 09:07-09:28/21 17:14	07:51 08:22-08:38/16 18:09	06:50 07:13-07:23/10 18:57	06:42 07:05-07:21/16 20:48	05:49 21:35	05:29 05:59-06:32/33 22:04
21	08:38 09:05-09:27/22 17:16	07:49 08:24-08:36/12 18:10	06:48 07:10-07:21/11 18:59	06:40 07:03-07:21/18 20:50	05:48 21:37	05:30 05:59-06:32/33 22:04
22	08:37 09:04-09:28/24 17:17	07:47 08:27-08:33/6 18:12	06:46 07:10-07:19/9 19:00	06:38 07:01-07:22/21 20:51	05:47 21:38	05:30 06:00-06:33/33 22:04
23	08:36 09:03-09:28/25 17:19	07:44 18:14	06:43 07:13-07:16/3 19:02	06:36 06:59-07:22/23 20:53	05:45 21:39	05:30 06:00-06:33/33 22:05
24	08:35 09:01-09:27/26 17:21	07:42 18:16	06:41 07:03-07:07/4 19:04	06:34 06:57-07:22/25 20:55	05:44 21:41	05:30 06:00-06:33/33 22:05
25	08:33 09:00-09:27/27 17:22	07:40 18:18	06:39 07:01-07:08/7 19:05	06:32 06:55-07:21/26 20:56	05:43 21:42	05:31 06:01-06:34/33 22:05
26	08:32 08:59-09:27/28 17:24	07:38 18:19	06:37 06:59-07:09/10 19:07	06:30 06:54-07:21/27 20:58	05:42 06:09-06:15/6 21:43	05:31 06:01-06:34/33 22:05
27	08:31 08:57-09:25/28 17:26	07:36 18:21	06:34 06:57-07:10/13 19:09	06:28 06:54-07:20/26 21:00	05:41 06:08-06:17/9 21:45	05:31 06:01-06:33/32 22:05
28	08:30 08:56-09:25/29 17:27	07:34 18:23	06:32 06:54-07:09/15 19:10	06:26 06:54-07:20/26 21:01	05:40 06:07-06:19/12 21:46	05:32 06:02-06:34/32 22:05
29	08:28 08:54-09:12/18 17:29 09:13-09:22/9		07:30 07:52-08:09/17 20:12	06:24 06:55-07:20/25 21:03	05:39 06:06-06:20/14 21:47	05:32 06:02-06:33/31 22:04
30	08:27 08:53-09:13/20 17:31		07:28 07:50-08:09/19 20:14	06:22 06:55-07:19/24 21:05	05:38 06:06-06:22/16 21:48	05:33 06:03-06:34/31 22:04
31	08:25 08:51-09:13/22 17:33		07:25 07:48-08:08/20 20:15		05:37 06:05-06:23/18 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	434	418	161	367	188	896

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:34/30 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 08:24-08:38/14 17:21 08:04-08:11/7	08:26 08:57-09:04/7 16:42
2	05:34 06:04-06:34/30 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 08:23-08:40/17 17:19 08:06-08:11/5	08:27 08:59-09:05/6 16:41
3	05:35 06:05-06:34/29 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:21-08:40/19 17:17 08:08-08:12/4	08:29 09:00-09:04/4 16:41
4	05:36 06:06-06:34/28 22:03	06:13 21:29	07:02 20:26	07:49 19:19	07:42 08:20-08:41/21 17:16 08:09-08:11/2	08:30 09:02-09:05/3 16:40
5	05:37 06:06-06:33/27 22:03	06:15 21:27	07:03 07:29-07:32/3 20:24	07:51 19:16	07:43 08:19-08:42/23 17:14	08:31 09:03-09:04/1 16:40
6	05:37 06:07-06:33/26 22:02	06:16 21:25	07:05 07:30-07:32/2 20:22	07:52 19:14	07:45 08:19-08:43/24 17:12	08:33 16:39
7	05:38 06:08-06:33/25 22:02	06:18 21:23	07:06 07:32-07:33/1 20:20	07:54 19:12	07:47 08:19-08:44/25 17:10	08:34 16:39
8	05:39 06:09-06:33/24 22:01	06:19 07:10-07:20/10 21:22	07:08 07:45-07:56/11 20:18	07:56 19:10	07:49 08:18-08:44/26 17:09	08:35 16:39
9	05:40 06:10-06:33/23 22:00	06:21 07:07-07:22/15 21:20	07:10 07:43-07:58/15 20:15	07:57 19:07	07:50 08:19-08:44/25 17:07	08:36 16:38
10	05:41 06:11-06:33/22 22:00	06:23 07:06-07:24/18 21:18	07:11 07:36-07:59/23 20:13	07:59 19:05	07:52 08:21-08:45/24 17:06	08:37 16:38
11	05:42 06:12-06:32/20 21:59	06:24 07:05-07:25/20 21:16	07:13 07:38-08:00/22 20:11	08:01 19:03	07:54 08:23-08:45/22 17:04	08:38 16:38
12	05:43 06:13-06:32/19 21:58	06:26 07:04-07:26/22 21:14	07:14 07:39-07:59/20 20:09	08:02 19:01	07:55 08:24-08:44/20 17:03	08:39 16:38
13	05:44 06:14-06:31/17 21:57	06:27 07:03-07:26/23 21:12	07:16 07:41-08:00/19 20:06	08:04 18:59	07:57 08:26-08:44/18 17:01 08:45-08:54/9	08:40 16:38
14	05:45 06:15-06:30/15 21:56	06:29 07:02-07:27/25 21:10	07:17 07:42-07:59/17 20:04	08:06 18:57	07:59 08:28-08:57/29 17:00	08:41 16:38
15	05:46 06:16-06:29/13 21:55	06:30 07:01-07:27/26 21:09	07:19 07:44-07:59/15 20:02	08:07 18:54	08:01 08:30-08:58/28 16:58	08:42 16:38
16	05:47 06:17-06:28/11 21:54	06:32 07:01-07:28/27 21:07	07:20 07:45-07:58/13 19:59	08:09 18:52	08:02 08:32-09:00/28 16:57	08:43 16:38
17	05:49 06:18-06:26/8 21:53	06:33 07:00-07:28/28 21:05	07:22 07:47-07:58/11 19:57	08:11 18:50	08:04 08:34-09:01/27 16:56	08:44 16:38
18	05:50 06:19-06:23/4 21:52	06:35 07:02-07:28/26 21:03	07:24 07:48-07:56/8 19:55	08:12 18:48	08:06 08:35-09:01/26 16:54	08:44 16:39
19	05:51 21:51	06:37 07:03-07:27/24 21:01	07:25 07:50-07:55/5 19:53	08:14 18:46	08:07 08:37-09:02/25 16:53	08:45 16:39
20	05:52 21:50	06:38 07:05-07:27/22 20:59	07:27 07:52-07:53/1 19:50	08:16 08:57-09:05/8 18:44	08:09 08:39-09:03/24 16:52	08:46 16:39
21	05:54 21:49	06:40 07:06-07:26/20 20:57	07:28 07:56-08:04/8 19:48	08:17 08:54-09:07/13 18:42	08:11 08:41-09:03/22 16:51	08:46 16:40
22	05:55 21:48	06:41 07:08-07:26/18 20:54	07:30 07:55-08:06/11 19:46	08:19 08:52-09:09/17 18:40	08:12 08:43-09:04/21 16:50	08:47 16:40
23	05:56 21:46	06:43 07:09-07:25/16 20:52	07:32 07:56-08:06/10 19:43	08:21 08:51-09:10/19 18:38	08:14 08:44-09:03/19 16:49	08:47 16:41
24	05:58 06:29-06:32/3 21:45	06:44 07:11-07:24/13 20:50	07:33 07:58-08:07/9 19:41	08:23 08:51-09:11/20 18:36	08:15 08:46-09:04/18 16:48	08:48 16:41
25	05:59 06:28-06:34/6 21:44	06:46 07:12-07:22/10 20:48	07:35 07:59-08:06/7 19:39	07:24 07:51-08:11/20 17:34	08:17 08:48-09:05/17 16:47	08:48 16:42
26	06:00 06:29-06:35/6 21:42	06:48 07:14-07:21/7 20:46	07:36 08:01-08:06/5 19:37	07:26 07:53-08:11/18 17:32	08:19 08:49-09:04/15 16:46	08:49 16:43
27	06:02 06:30-06:36/6 21:41	06:49 07:15-07:17/2 20:44	07:38 08:03-08:06/3 19:34	07:28 07:54-08:11/17 17:30	08:20 08:51-09:05/14 16:45	08:49 16:43
28	06:03 06:32-06:37/5 21:40	06:51 20:42	07:39 19:32	07:29 07:56-08:11/15 17:28	08:22 08:53-09:05/12 16:44	08:49 16:44
29	06:05 06:33-06:37/4 21:38	06:52 20:40	07:41 19:30	07:31 07:58-08:10/12 17:26	08:23 08:54-09:05/11 16:43	08:49 16:45
30	06:06 06:34-06:37/3 21:37	06:54 20:37	07:43 19:28	07:33 08:00-08:10/10 17:24	08:24 08:56-09:05/9 16:43	08:49 16:46
31	06:07 06:36-06:38/2 21:35	06:55 20:35		07:35 08:27-08:35/8 17:23 08:02-08:10/8		08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	406	372	239	185	650	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June
1	08:49	08:24	07:32		07:23	07:45-07:48/3	06:20		05:36
	16:48	17:34	18:24		20:17		21:06		21:50
2	08:49	08:22	07:30		07:21	07:43-07:46/3	06:18		05:35
	16:49	17:36	18:26		20:18		21:08		21:51
3	08:49	08:21	07:28		07:18		06:16		05:35
	16:50	17:38	18:28		20:20		21:09		21:52
4	08:49	08:19	07:26		07:16		06:14		05:34
	16:51	17:40	18:30		20:22		21:11		21:53
5	08:49	08:18	07:23		07:14		06:13		05:33
	16:52	17:42	18:31		20:23		21:12		21:54
6	08:48	08:16	07:21		07:12	07:34-07:35/1	06:11		05:33
	16:53	17:43	18:33		20:25		21:14		21:55
7	08:48	08:14	07:19		07:10	07:32-07:34/2	06:09		05:32
	16:55	17:45	18:35		20:27		21:16		21:56
8	08:48	08:13	07:17		07:07	07:30-07:34/4	06:07		05:32
	16:56	17:47	18:37		20:28		21:17		21:57
9	08:47	08:11	07:15		07:05	07:28-07:32/4	06:06	06:31-06:32/1	05:31
	16:57	17:49	18:38		20:30		21:19		21:58
10	08:47	08:09	07:12		07:03		06:04	06:29-06:30/1	05:31
	16:59	17:51	18:40		20:32		21:20		21:59
11	08:46	08:07	07:10		07:01		06:02	06:28-06:29/1	05:30
	17:00	17:52	18:42		20:33		21:22		21:59
12	08:46	08:06	07:08		06:59		06:01		05:30
	17:01	17:54	18:43		20:35		21:23		22:00
13	08:45	08:04	07:06		06:56		05:59		05:30
	17:03	17:56	18:45		20:37		21:25		22:01
14	08:44	08:02	07:04		06:54		05:58		05:29
	17:04	17:58	18:47		20:38		21:26		22:01
15	08:43	08:00	07:01		06:52		05:56		05:29
	17:06	18:00	18:48		20:40		21:28		22:02
16	08:43	07:58	06:59		06:50		05:55		05:29
	17:07	18:01	18:50		20:41		21:29		22:02
17	08:42	07:56	06:57		06:48		05:53		05:29
	17:09	18:03	18:52		20:43		21:31		22:03
18	08:41	07:54	06:55		06:46		05:52		05:29
	17:10	18:05	18:54		20:45		21:32		22:03
19	08:40	07:52	06:52		06:44		05:50		05:29
	17:12	18:07	18:55		20:46		21:34		22:04
20	08:39	07:50	06:50		06:42		05:49		05:29
	17:14	18:09	18:57		20:48		21:35		22:04
21	08:38	07:48	06:48		06:40		05:48		05:29
	17:15	18:10	18:59		20:50		21:37		22:04
22	08:37	07:46	06:46		06:38		05:46		05:30
	17:17	18:12	19:00		20:51		21:38		22:04
23	08:36	07:44	06:43		06:35		05:45		05:30
	17:19	18:14	19:02		20:53		21:39		22:05
24	08:35	07:42	06:41		06:33		05:44	06:11-06:12/1	05:30
	17:20	18:16	19:04		20:55		21:41		22:05
25	08:33	07:40	06:39		06:31		05:43	06:10-06:12/2	05:30
	17:22	18:17	19:05		20:56		21:42		22:05
26	08:32	07:38	06:37		06:29		05:42	06:09-06:12/3	05:31
	17:24	18:19	19:07		20:58		21:43		22:05
27	08:31	07:36	06:34		06:27		05:41	06:08-06:11/3	05:31
	17:26	18:21	19:08		21:00		21:44		22:05
28	08:29	07:34	06:32		06:26		05:40	06:07-06:11/4	05:32
	17:27	18:23	19:10		21:01		21:46		22:05
29	08:28		07:30		06:24		05:39	06:06-06:10/4	05:32
	17:29		20:12		21:03		21:47		22:04
30	08:27		07:27		06:22		05:38	06:07-06:09/2	05:33
	17:31		20:13		21:04		21:48		22:04
31	08:25		07:25	07:48-07:50/2			05:37		
	17:33		20:15				21:49		
Potential sun hours	262	279	367		415		482		495
Sum of minutes with flicker	0	0	2		17		22		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10	06:39-06:40/1	06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12	06:40-06:41/1	07:00	07:26-07:30/4	07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02	07:27-07:31/4	07:49	07:42	08:30
	22:03		21:28		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03	07:29-07:31/2	07:51	07:43	08:31
	22:02		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05	07:30-07:31/1	07:52	07:45	08:32
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06		07:54	07:47	08:34
	22:01		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08		07:56	07:48	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41		06:22		07:11	07:36-07:39/3	07:59	07:52	08:37
	21:59		21:18		20:13		19:05	17:06	16:38
11	05:42		06:24		07:13	07:38-07:41/3	08:00	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43		06:25		07:14	07:39-07:41/2	08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44		06:27		07:16	07:41-07:42/1	08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45	06:15-06:19/4	06:29		07:17		08:05	07:59	08:41
	21:56		21:10		20:04		18:56	17:00	16:38
15	05:46	06:16-06:20/4	06:30		07:19		08:07	08:01	08:42
	21:55		21:08		20:02		18:54	16:58	16:38
16	05:47	06:17-06:21/4	06:32		07:20		08:09	08:02	08:43
	21:54		21:06		19:59		18:52	16:57	16:38
17	05:48	06:18-06:21/3	06:33		07:22		08:10	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50	06:19-06:21/2	06:35		07:23		08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51	06:20-06:22/2	06:36		07:25		08:14	08:07	08:45
	21:51		21:00		19:52		18:46	16:53	16:39
20	05:52	06:21-06:22/1	06:38		07:27		08:16	08:09	08:46
	21:50		20:58		19:50		18:44	16:52	16:39
21	05:53		06:39		07:28		08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55		06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56		06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44		07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46		07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47		07:36		07:26	08:18	08:49
	21:42		20:46		19:36		17:32	16:46	16:42
27	06:02		06:49		07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51		07:39		07:29	08:21	08:49
	21:39		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52		07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54		07:43		07:33	08:24	08:49
	21:36		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:22		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	20		2		20		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: SWB_WT02_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:01	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:09	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:12	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56 07:19-07:20/1	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:19/2	05:58	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:53	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42 07:05-07:06/1	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40 07:03-07:05/2	05:48	05:29	05:53	06:39 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41 07:08-07:10/2	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43 07:09-07:10/1	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:03	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:36	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52 07:18-07:20/2	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54 07:20-07:21/1	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	6	0	0	0	7	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A WTG: TEN_WT01 - VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
510	543	598	498	371	355	711	1.313	1.567	877	636	560	8.538

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:04-06:14/10	05:34 06:05-06:23/18	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35 06:04-06:15/11	05:34 06:04-06:23/19	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:03-06:16/13	05:35 06:05-06:23/18	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:02-06:16/14	05:36 06:06-06:24/18	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:02-06:17/15	05:36 06:06-06:23/17	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:17/16	05:37 06:07-06:23/16	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:18/17	05:38 06:08-06:23/15	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32 06:00-06:17/17	05:39 06:09-06:23/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 06:00-06:18/18	05:40 06:10-06:23/13	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:19/19	05:41 06:11-06:23/12	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:01-06:19/18	05:42 06:12-06:23/11	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:00-06:19/19	05:43 06:13-06:22/9	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:00-06:19/19	05:44 06:14-06:22/8	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 06:01-06:19/18	05:45 06:15-06:21/6	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 06:01-06:20/19	05:46 06:16-06:19/3	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 06:01-06:20/19	05:47	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 06:01-06:20/19	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29 06:01-06:20/19	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29 06:02-06:21/19	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 06:02-06:21/19	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30 06:02-06:21/19	05:54	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:03-06:22/19	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:03-06:22/19	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30 06:02-06:22/20	05:58	06:44	07:33	08:23	08:16	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31 06:03-06:22/19	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:03-06:22/19	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31 06:03-06:22/19	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:07-06:08/1	05:32 06:04-06:23/19	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:07-06:12/5	05:32 06:03-06:22/19	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:13/7	05:33 06:04-06:23/19	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:05-06:14/9		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	22	529	197	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

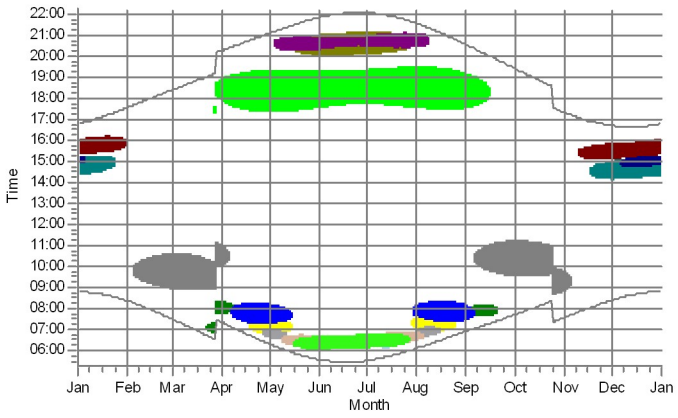
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Calculated:
08/04/2026 21:18/4.1.264

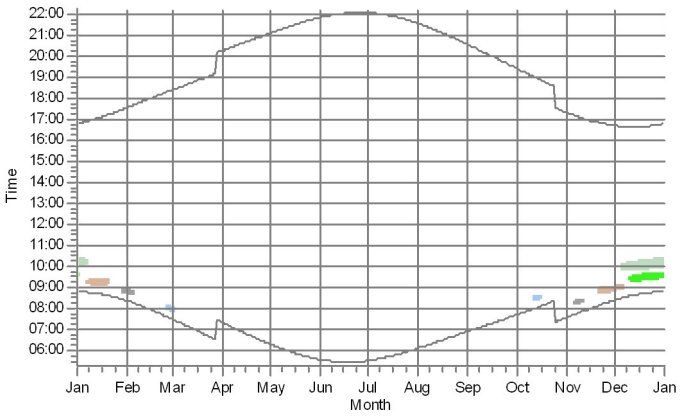
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

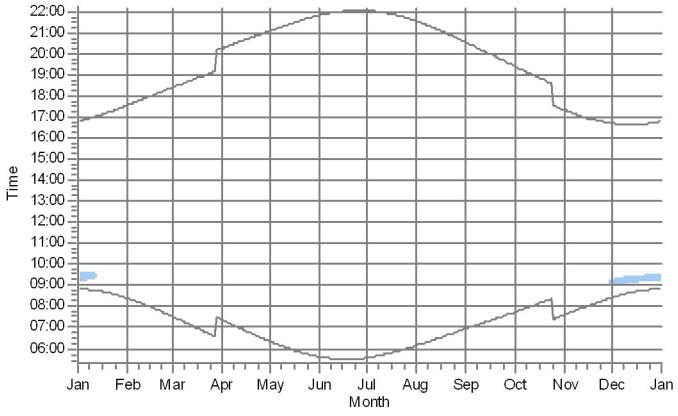
KLZ_WT21: KLZ_WT21 Armasteel



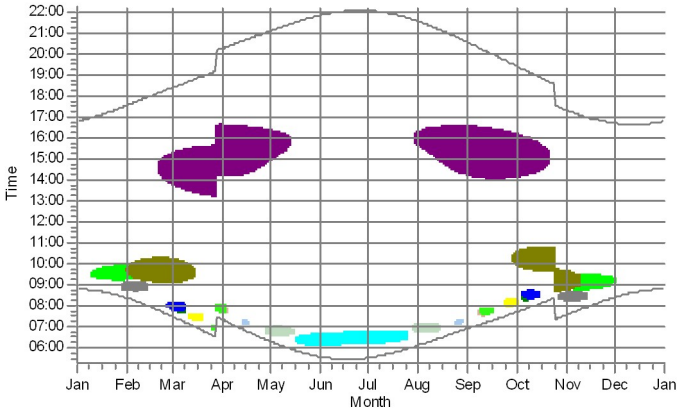
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 19



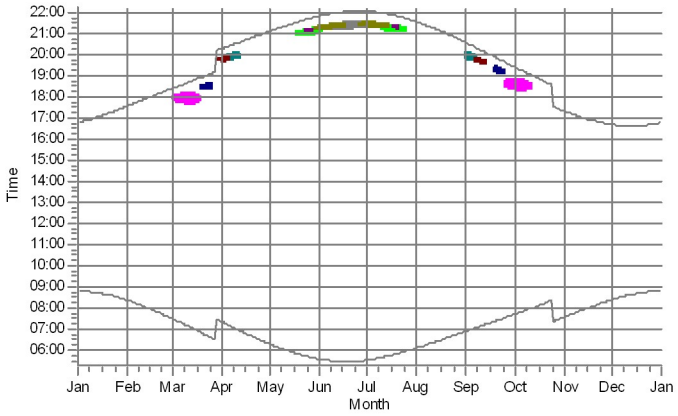
ATS_WT01: NORDEX N149/5.X-pow ercurve 5700 149.0 !O! hub: 156,5 m



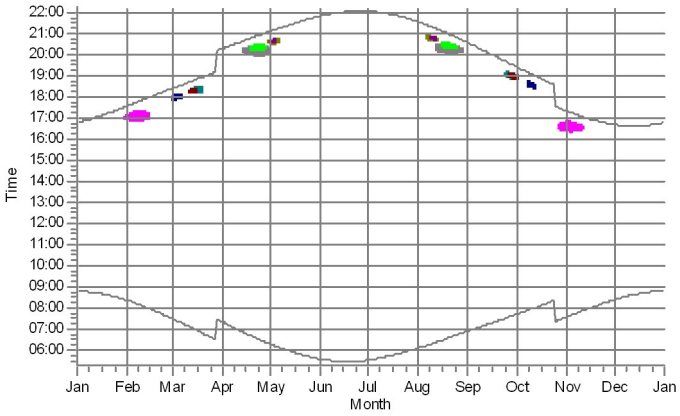
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 r



EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

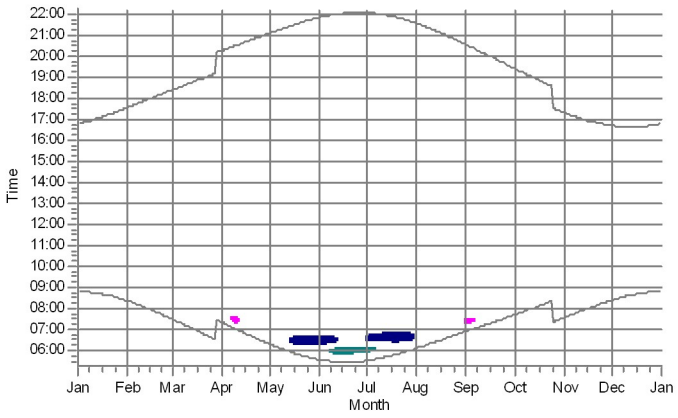
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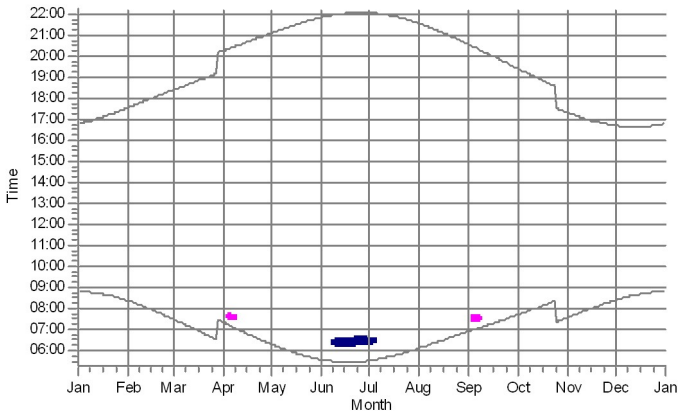
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

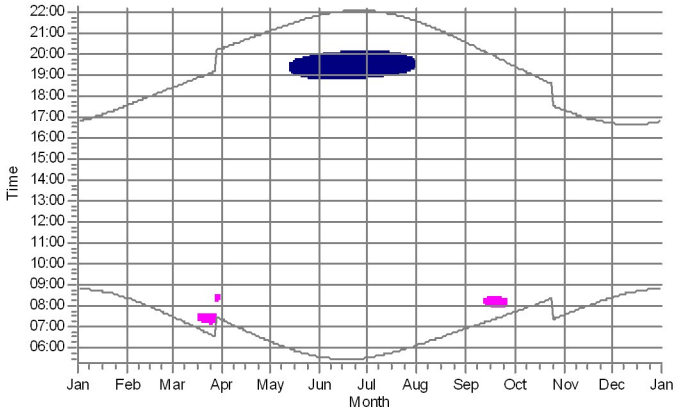
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



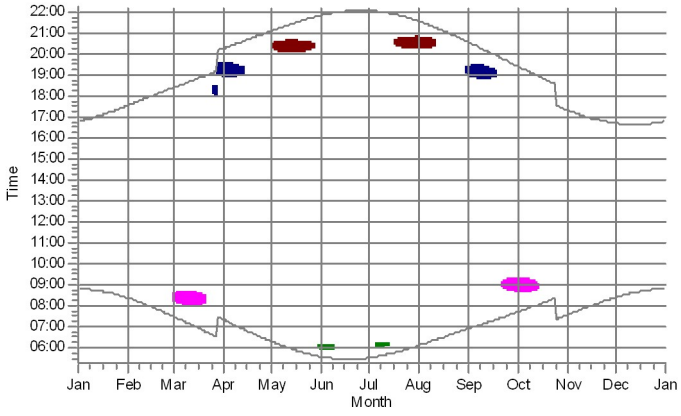
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



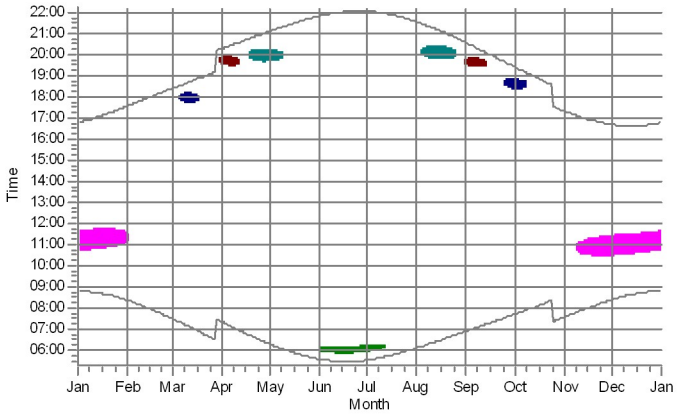
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



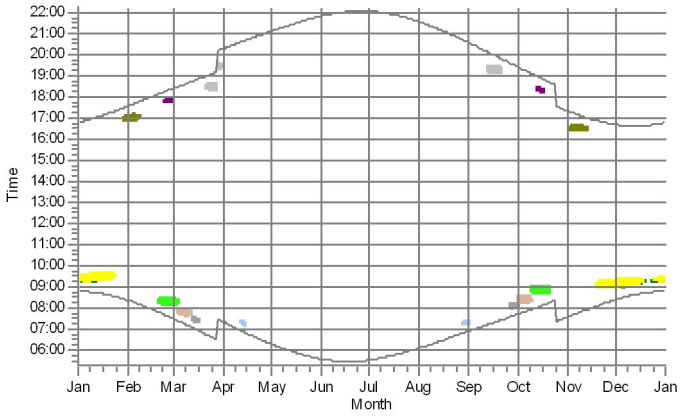
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

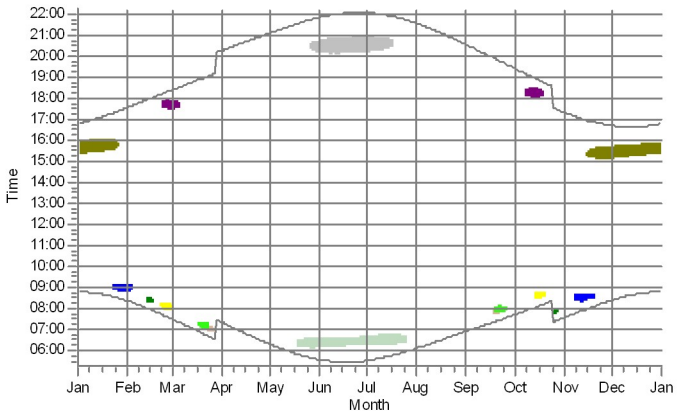
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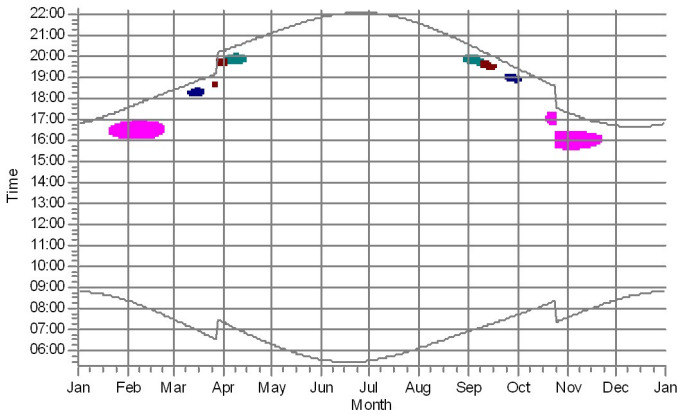
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

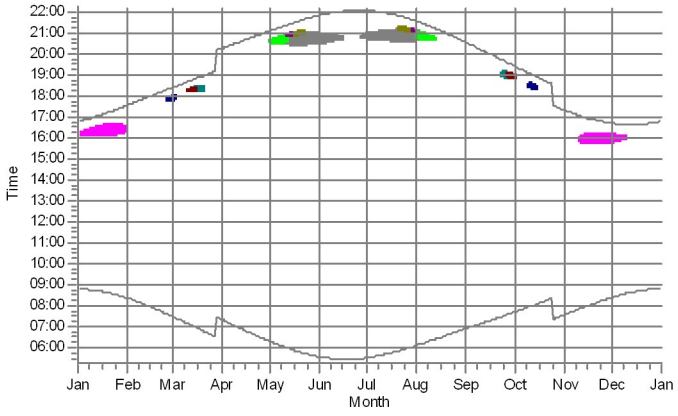
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



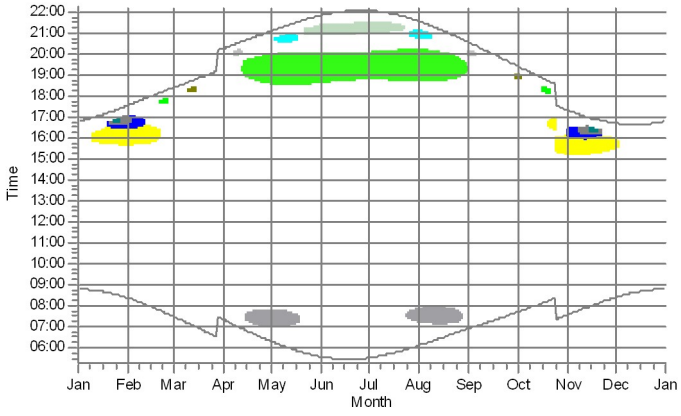
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m



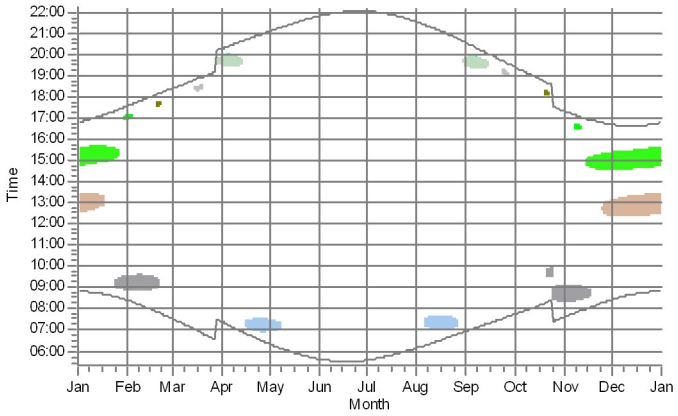
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



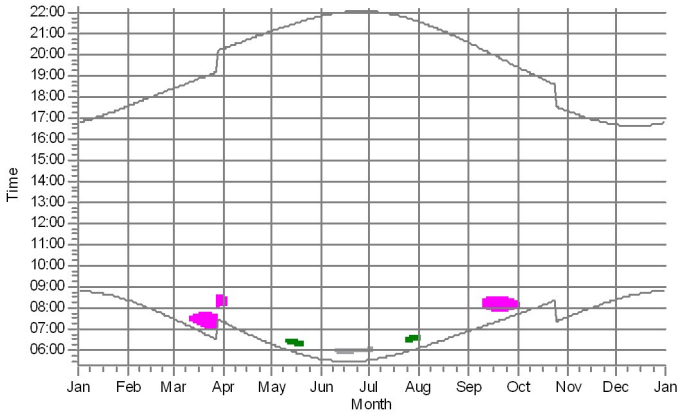
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m



KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



Shadow receptors

1: Hoogstraat 54, 9940 Evergem	7: Christoffel Columbuslaan 23, 9042 Gent	13: Doornzele Dries 107, 9940 Evergem
2: Pachtgoederen 2, 9940 Evergem	8: Christoffel Columbuslaan 17, 9042 Gent	14: Abdijdreef 2, 9940 Evergem
3: Pachtgoederen 2, 9940 Evergem	9: Willem van Rubroeckstraat 2, 9042 Gent	15: Hageland 14, 9940 Evergem
4: James Cookstraat 10, 9042 Gent	10: Willem van Rubroeckstraat 26, 9042 Gent	16: Molendreef 5, 9940 Evergem
5: Pelikaanstraat 60, 9940 Evergem	11: Arbedkaai 3, 9042 Gent	17: Amerigo Vespuccistraat 2A, 9940 Evergem
6: Christoffel Columbuslaan 23, 9042 Gent	12: Terdonkkaai 8, 9042 Gent	18: Pachtgoederen 1, 9940 Evergem

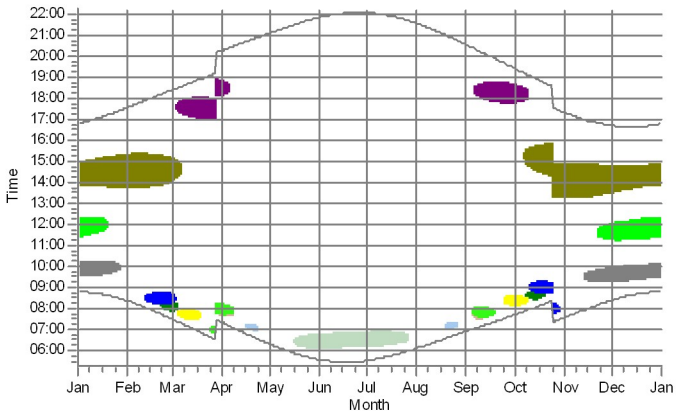
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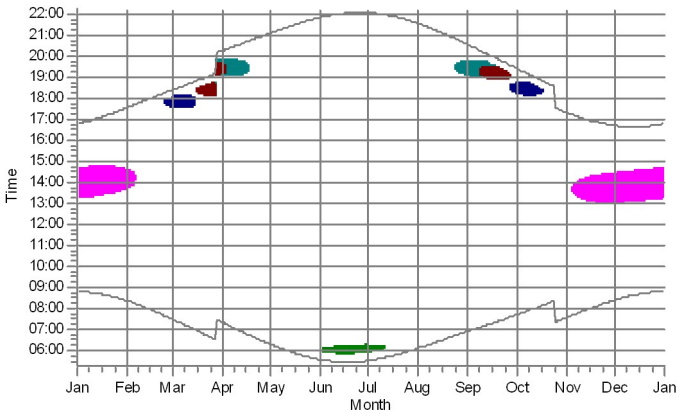
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

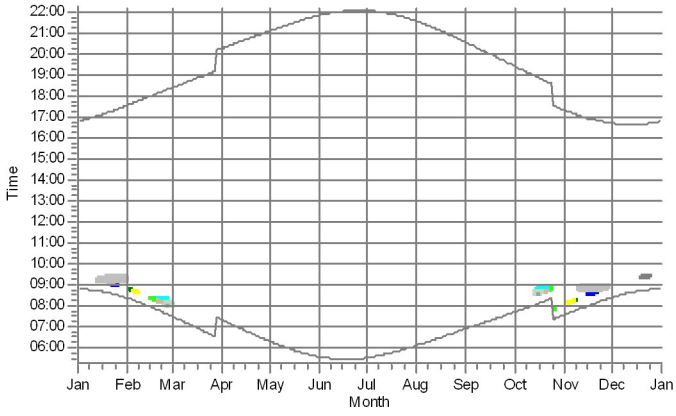
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 2



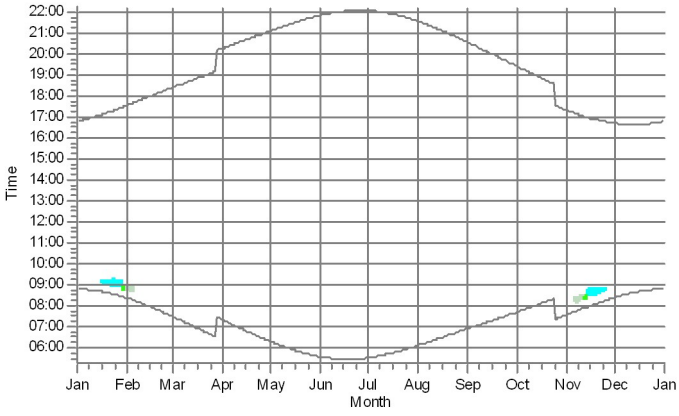
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



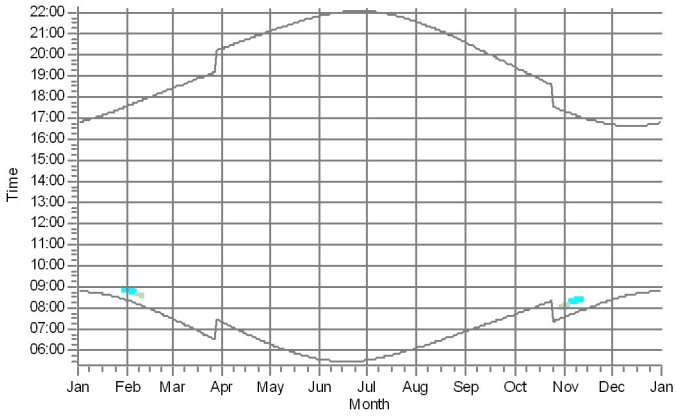
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 23



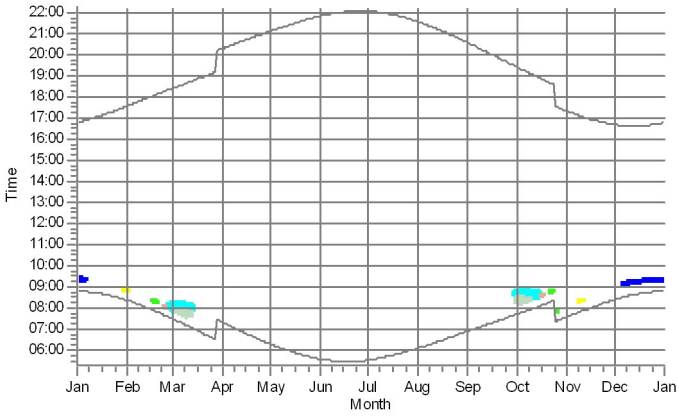
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
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- 5: Pelikaanstraat 60, 9940 Evergem
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- 10: Willem van Rubroeckstraat 26, 9042 Gent
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- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

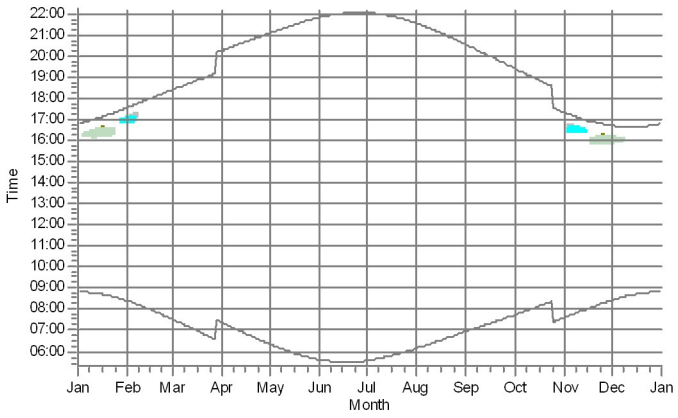
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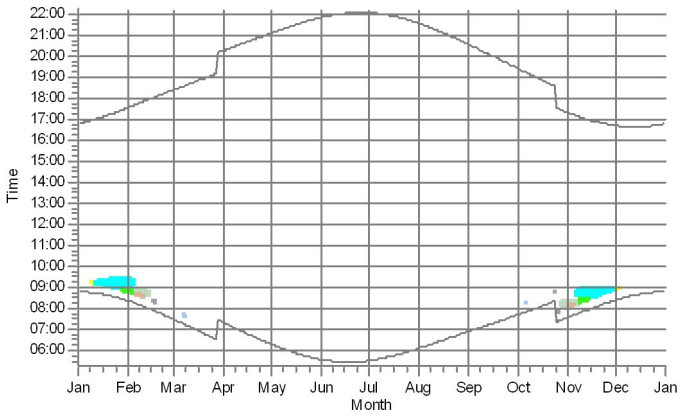
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

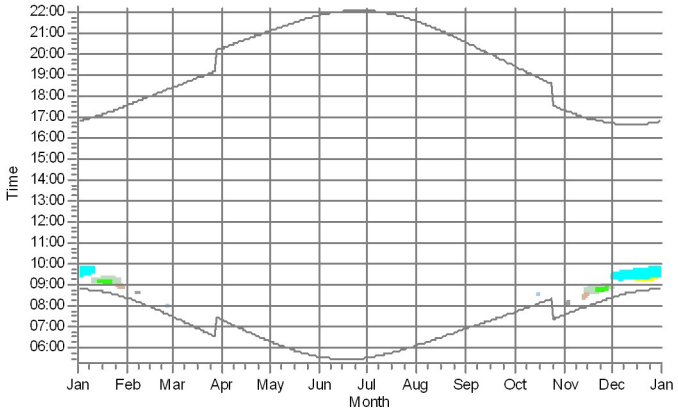
NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 21



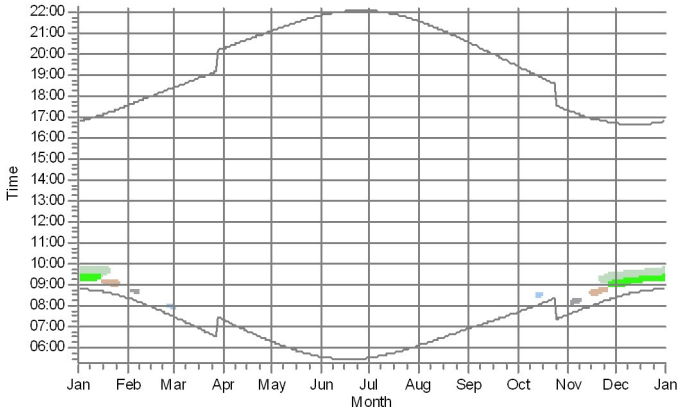
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



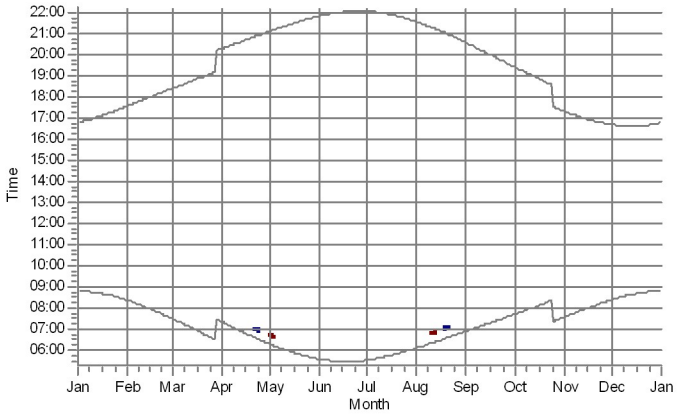
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



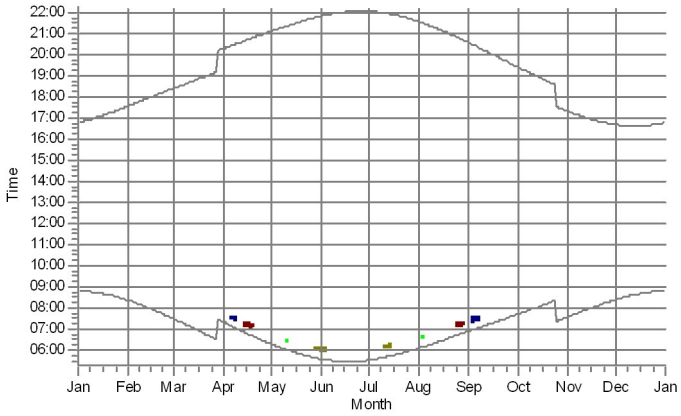
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



Shadow receptors

1: Hoogstraat 54, 9940 Evergem	9: Willem van Rubroeckstraat 2, 9042 Gent	14: Abdijdreef 2, 9940 Evergem
2: Pachtgoederen 2, 9940 Evergem	10: Willem van Rubroeckstraat 26, 9042 Gent	15: Hageland 14, 9940 Evergem
6: Christoffel Columbuslaan 23, 9042 Gent	11: Arbedkaai 3, 9042 Gent	16: Molendreef 5, 9940 Evergem
7: Christoffel Columbuslaan 23, 9042 Gent	12: Terdonkkaai 8, 9042 Gent	17: Amerigo Vespuccistraat 2A, 9940 Evergem
8: Christoffel Columbuslaan 17, 9042 Gent	13: Doornzele Dries 107, 9940 Evergem	18: Pachtgoederen 1, 9940 Evergem

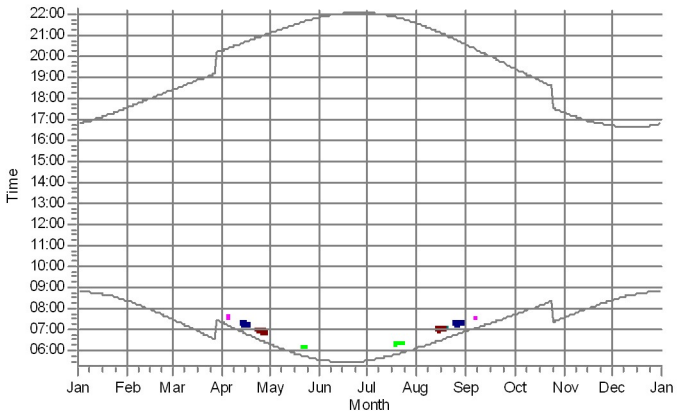
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08/04/2026 21:18/4.1.264

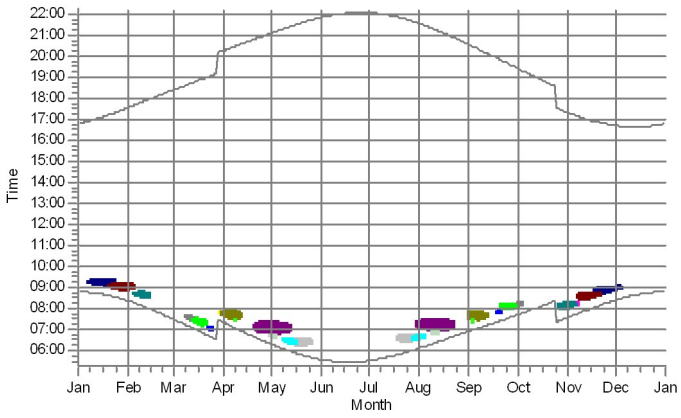
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

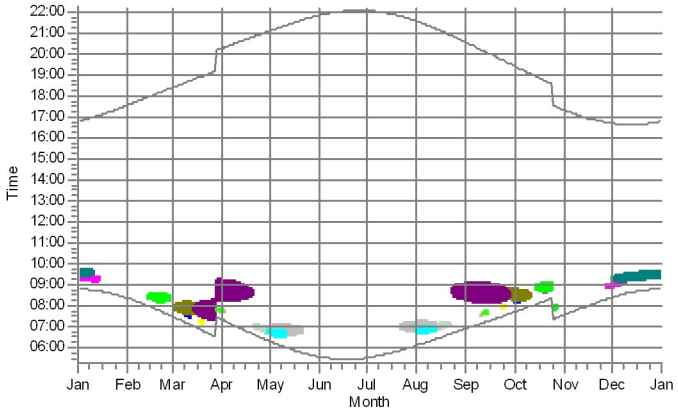
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



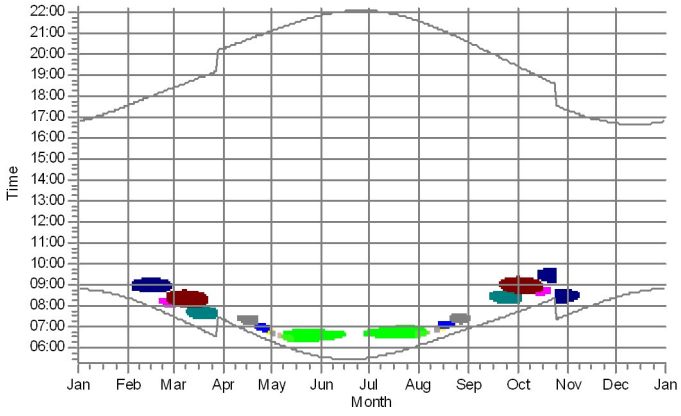
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



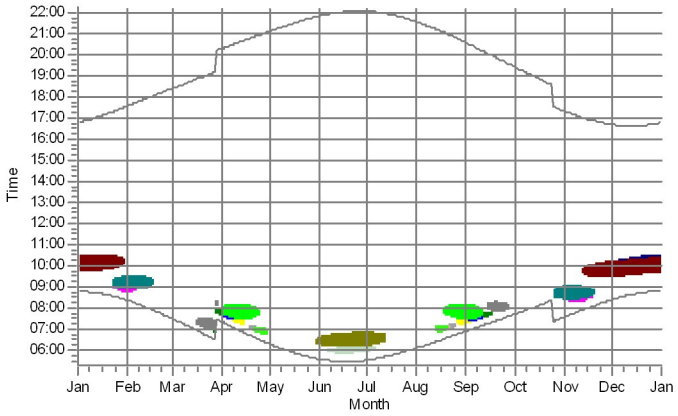
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



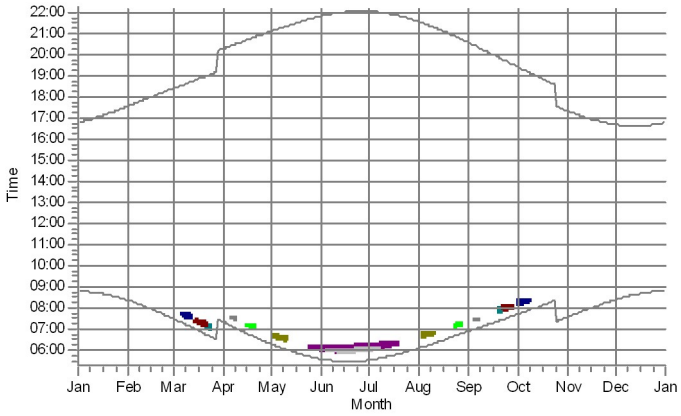
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

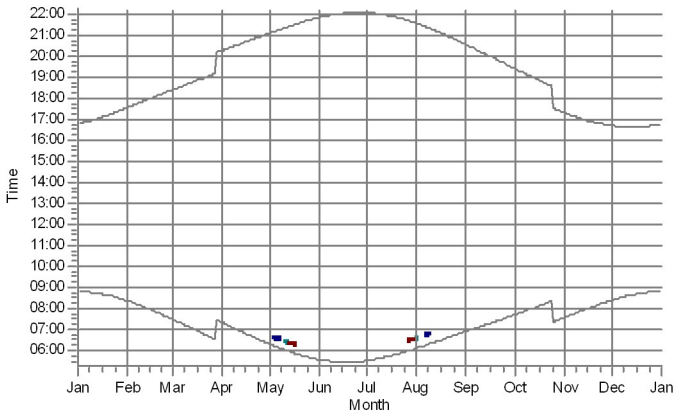
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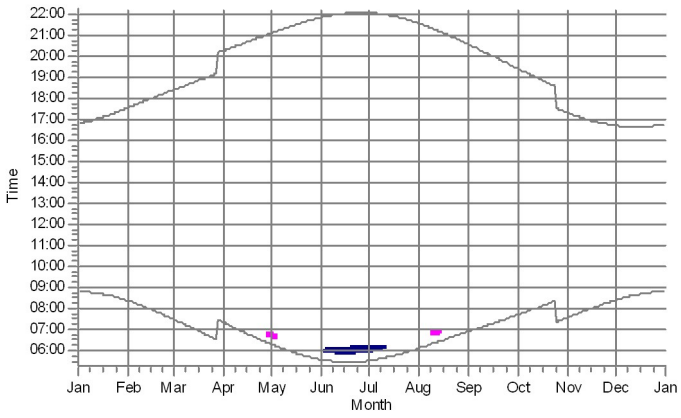
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A

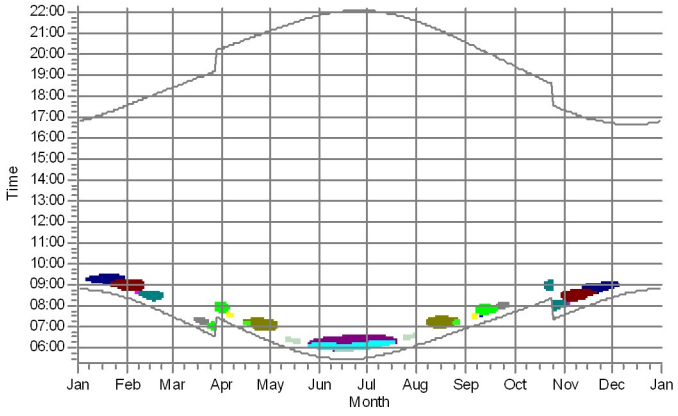
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0



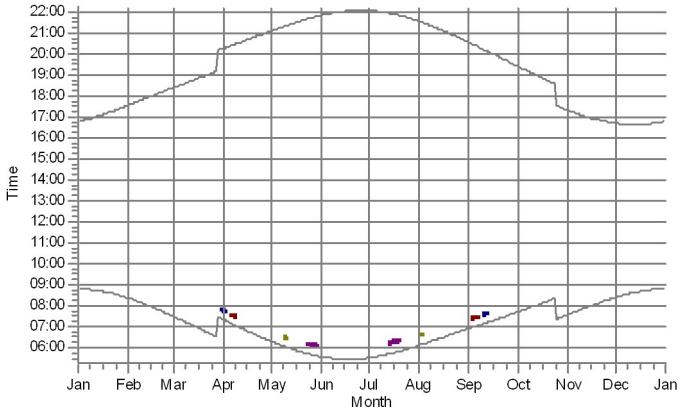
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



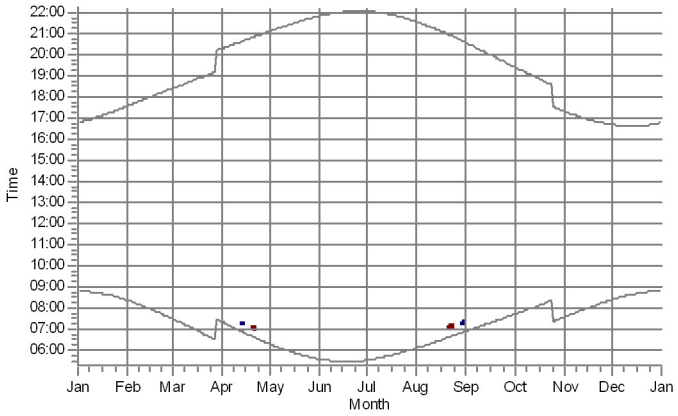
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



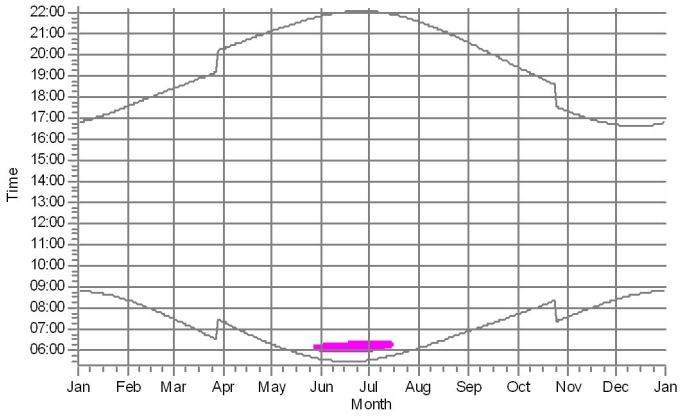
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!



SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!



TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 r



Shadow receptors

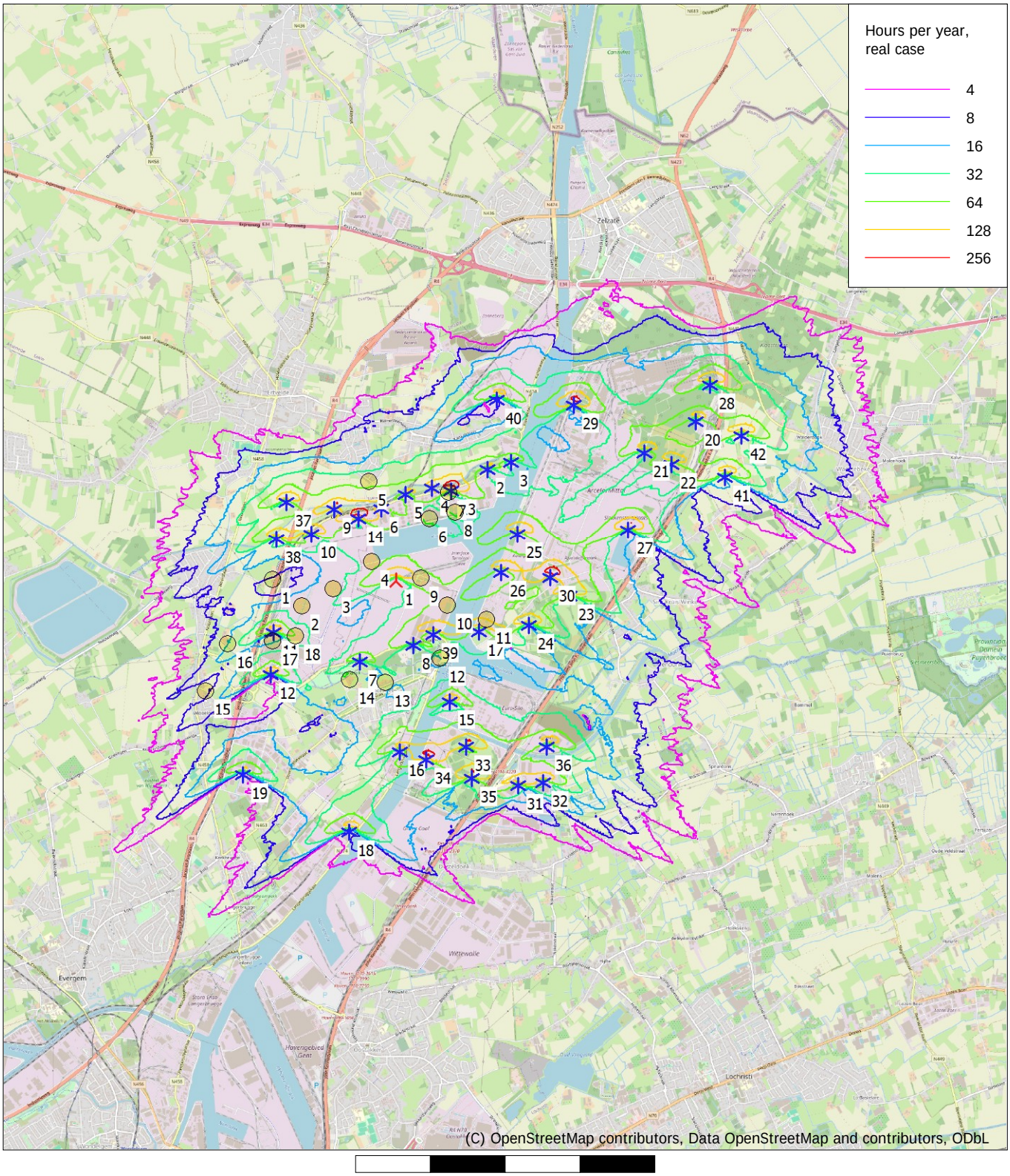
- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
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- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

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SHADOW - Map

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A



Map: EMD OpenStreetMap , Print scale 1:75.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 109.460 North: 205.320

New WTG Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

Assumptions for shadow calculations

Maximum distance for influence	No limit
Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

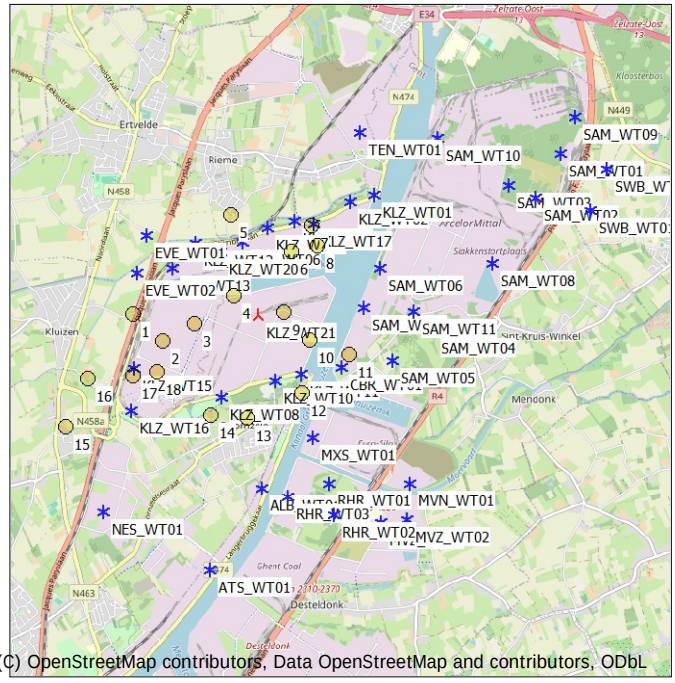
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Monthly aggregation of real case reduction
Idle start wind speed: Cut in wind speed from power curve
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)
Receptor grid resolution: 1,0 m

All coordinates are in
Belgian Lambert72-BD72 (BE 2001 <±1m)



(C) OpenStreetMap contributors, Data OpenStreetMap and contributors, ODbL

Scale 1:100.000

New WTG | Existing WTG | Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
ALB_WT01	108.129	203.056	6,8	ENERCON E-115 EP3 E...	No	ENERCON	E-115 EP3 E3-4.200	4.200	115,7	135,0	100.000	12,9
ATS_WT01	107.438	201.986	6,5	NORDEX N149/5.X-po...	Yes	NORDEX	N149/5.X-powercurve-5.700	5.700	149,0	156,5	100.000	10,7
CBR_WT01	109.199	204.660	5,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	165,0	100.000	10,4
EVE_WT01	106.632	206.417	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
EVE_WT02	106.491	205.925	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
KLZ_WT01	109.653	206.929	5,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT02	109.337	206.834	6,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT04	108.595	206.585	5,7	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT05	108.233	206.502	6,1	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT06	107.898	206.322	5,5	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT08	107.596	204.270	7,4	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT10	108.320	204.485	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT11	108.672	204.558	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT12	107.283	206.313	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT13	106.963	205.983	6,4	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT15	106.447	204.659	9,6	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT16	106.409	204.106	5,8	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT17	108.845	206.555	5,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT20	107.601	206.186	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT21	108.099	205.347	10,0	KLZ_WT21 Armasteel	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	162,5	100.000	-
MVN_WT01	110.103	203.099	14,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	164,0	100.000	10,7
MVZ_WT01	109.715	202.591	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MVZ_WT02	110.052	202.627	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MXS_WT01	108.810	203.720	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
NES_WT01	106.019	202.761	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	147,0	100.000	12,1
RHR_WT01	109.022	203.110	6,7	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT02	109.082	202.694	10,0	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT03	108.481	202.945	6,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
SAM_WT01	112.131	207.449	8,3	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT02	111.799	206.878	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT03	111.438	207.038	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT04	110.414	205.130	10,0	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT05	109.878	204.734	9,9	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT06	109.720	205.956	9,1	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT07	109.509	205.446	5,6	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4

To be continued on next page...

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

...continued from previous page

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
SAM_WT08	111.215	206.006	10,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	123,0	100.000	10,4
SAM_WT09	112.321	207.938	9,4	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	149,0	100.000	-
SAM_WT10	110.490	207.672	5,8	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SAM_WT11	110.164	205.375	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SWB_WT01_RP	112.521	206.699	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
SWB_WT02_RP	112.740	207.253	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
TEN_WT01	109.463	207.750	10,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	165,0	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	James Cookstraat 10, 9042 Gent	107.778	205.604	8,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Pelikaanstraat 60, 9940 Evergem	107.756	206.679	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 17, 9042 Gent	108.899	206.258	5,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Willem van Rubroeckstraat 26, 9042 Gent	108.776	205.017	5,7	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 14, 9940 Evergem	105.526	203.893	6,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow, expected values Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	26:36	180	0:30	6:31
2	Pachtgoederen 2, 9940 Evergem	98:30	240	0:54	20:48
3	Pachtgoederen 2, 9940 Evergem	81:54	222	1:01	20:19
4	James Cookstraat 10, 9042 Gent	214:43	303	1:41	44:31
5	Pelikaanstraat 60, 9940 Evergem	296:36	282	2:30	54:47
6	Christoffel Columbuslaan 23, 9042 Gent	151:13	280	1:05	30:44
7	Christoffel Columbuslaan 23, 9042 Gent	190:20	319	1:37	43:15
8	Christoffel Columbuslaan 17, 9042 Gent	167:49	277	1:14	31:06
9	Willem van Rubroeckstraat 2, 9042 Gent	370:14	296	2:21	98:52
10	Willem van Rubroeckstraat 26, 9042 Gent	228:17	330	1:31	49:21
11	Arbedkaai 3, 9042 Gent	433:09	246	3:15	124:40
12	Terdonkkaai 8, 9042 Gent	68:13	197	0:43	17:07
13	Doornzele Dries 107, 9940 Evergem	96:17	271	0:42	21:43
14	Abdijdreef 2, 9940 Evergem	123:36	300	0:46	26:39
15	Hageland 14, 9940 Evergem	28:51	144	0:28	7:10
16	Molendreef 5, 9940 Evergem	69:08	165	0:57	16:28
17	Amerigo Vespuccistraat 2A, 9940 Evergem	67:02	220	0:50	13:21
18	Pachtgoederen 1, 9940 Evergem	263:10	298	1:44	64:00

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
ALB_WT01	ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)	17:03	2:13
ATS_WT01	NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)	7:12	0:51

To be continued on next page...

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

...continued from previous page

No.	Name	Worst case [h/year]	Expected [h/year]
CBR_WT01	VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)	430:39	115:47
EVE_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)	26:19	6:25
EVE_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)	20:46	4:51
KLZ_WT01	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)	18:12	5:32
KLZ_WT02	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)	7:31	2:15
KLZ_WT04	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)	79:48	19:09
KLZ_WT05	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)	50:48	12:11
KLZ_WT06	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)	89:19	16:19
KLZ_WT08	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)	32:24	5:40
KLZ_WT10	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)	82:36	18:36
KLZ_WT11	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)	32:26	6:38
KLZ_WT12	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)	48:00	10:25
KLZ_WT13	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)	52:43	11:43
KLZ_WT15	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)	288:02	71:18
KLZ_WT16	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)	132:45	24:34
KLZ_WT17	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)	20:21	4:59
KLZ_WT20	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)	156:49	31:13
KLZ_WT21	KLZ_WT21 Armasteel	691:31	171:07
MVN_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)	17:38	2:39
MVZ_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)	5:06	0:43
MVZ_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)	2:40	0:24
MXS_WT01	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)	19:46	3:42
NES_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)	12:10	2:12
RHR_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)	22:52	3:19
RHR_WT02	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)	19:42	2:28
RHR_WT03	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)	29:02	3:37
SAM_WT01	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)	0:22	0:06
SAM_WT02	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)	1:33	0:27
SAM_WT03	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)	2:47	0:49
SAM_WT04	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)	52:50	12:55
SAM_WT05	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)	105:12	24:28
SAM_WT06	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)	99:16	23:12
SAM_WT07	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)	121:15	24:33
SAM_WT08	VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)	17:56	5:08
SAM_WT09	VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)	0:53	0:16
SAM_WT10	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)	5:34	1:42
SAM_WT11	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)	72:17	17:08
SWB_WT01_RP	VESTAS V150-6.0 6000 150.0 !O!	1:23	0:24
SWB_WT02_RP	VESTAS V150-6.0 6000 150.0 !O!	0:13	0:03
TEN_WT01	VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)	12:28	3:49

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

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SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (KLZ_WT08)	08:24			07:32			07:23		07:48 (SAM_WT07)	06:20			05:36		06:04 (KLZ_WT05)
	16:48	5	09:25 (KLZ_WT08)	17:35			18:25			20:17	29	08:17 (KLZ_WT21)	21:06			21:51	2	06:06 (KLZ_WT05)
2	08:50		09:20 (KLZ_WT08)	08:23		08:48 (MVN_WT01)	07:30		07:53 (CBR_WT01)	07:21		07:52 (KLZ_WT21)	06:18			05:36		06:04 (KLZ_WT05)
	16:49	6	09:26 (KLZ_WT08)	17:37	1	08:49 (MVN_WT01)	18:27	1	07:54 (CBR_WT01)	20:19	24	08:16 (KLZ_WT21)	21:08			21:52	3	06:07 (KLZ_WT05)
3	08:49		09:20 (KLZ_WT08)	08:21		08:46 (MVN_WT01)	07:28		07:51 (CBR_WT01)	07:19		07:52 (KLZ_WT21)	06:17			05:35		06:03 (KLZ_WT05)
	16:50	7	09:27 (KLZ_WT08)	17:38	2	08:48 (MVN_WT01)	18:28	4	07:55 (CBR_WT01)	20:20	23	08:15 (KLZ_WT21)	21:10			21:53	3	06:06 (KLZ_WT05)
4	08:49		09:19 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (CBR_WT01)	07:17		07:53 (KLZ_WT21)	06:15			05:34		06:02 (KLZ_WT05)
	16:51	7	09:26 (KLZ_WT08)	17:40	1	08:46 (MVN_WT01)	18:30	6	07:55 (CBR_WT01)	20:22	21	08:14 (KLZ_WT21)	21:11			21:54	4	06:06 (KLZ_WT05)
5	08:49		09:19 (KLZ_WT08)	08:18			07:24		07:47 (CBR_WT01)	07:14		07:54 (KLZ_WT21)	06:13			05:34		06:02 (KLZ_WT05)
	16:53	8	09:27 (KLZ_WT08)	17:42			18:32	8	07:55 (CBR_WT01)	20:24	19	08:13 (KLZ_WT21)	21:13			21:55	5	06:07 (KLZ_WT20)
6	08:49		09:18 (KLZ_WT08)	08:16			07:22		07:44 (CBR_WT01)	07:12		07:55 (KLZ_WT21)	06:11			05:33		06:01 (KLZ_WT05)
	16:54	9	09:27 (KLZ_WT08)	17:44			18:33	10	07:54 (CBR_WT01)	20:25	15	08:10 (KLZ_WT21)	21:14			21:56	6	06:07 (KLZ_WT20)
7	08:48		09:18 (KLZ_WT08)	08:15			07:19		07:43 (CBR_WT01)	07:10		07:57 (KLZ_WT21)	06:09			05:32		06:01 (KLZ_WT05)
	16:55	10	09:28 (KLZ_WT08)	17:46			18:35	10	07:53 (CBR_WT01)	20:27	10	08:07 (KLZ_WT21)	21:16			21:57	7	06:08 (KLZ_WT20)
8	08:48		09:17 (KLZ_WT08)	08:13			07:17		07:45 (CBR_WT01)	07:08			06:08			05:32		06:01 (KLZ_WT06)
	16:56	11	09:28 (KLZ_WT08)	17:47			18:37	6	07:51 (CBR_WT01)	20:29			21:18			21:57	9	06:10 (KLZ_WT20)
9	08:48		09:18 (KLZ_WT08)	08:11			07:15			07:06			06:06			05:31		06:00 (KLZ_WT06)
	16:58	11	09:29 (KLZ_WT08)	17:49			18:39			20:30			21:19			21:58	9	06:09 (KLZ_WT20)
10	08:47		09:18 (KLZ_WT08)	08:09			07:13		07:35 (SAM_WT05)	07:03			06:04			05:31		06:00 (KLZ_WT06)
	16:59	11	09:29 (KLZ_WT08)	17:51			18:40	1	07:36 (SAM_WT05)	20:32			21:21			21:59	10	06:10 (KLZ_WT20)
11	08:47		09:15 (RHR_WT01)	08:08			07:11		07:33 (SAM_WT05)	07:01		07:24 (SAM_WT06)	06:03		06:28 (KLZ_WT17)	05:31		06:00 (KLZ_WT06)
	17:00	12	09:29 (KLZ_WT08)	17:53			18:42	2	07:35 (SAM_WT05)	20:34	1	07:25 (SAM_WT06)	21:22	1	06:29 (KLZ_WT17)	22:00	11	06:11 (KLZ_WT20)
12	08:46		09:15 (RHR_WT01)	08:06			07:08			06:59		07:21 (SAM_WT06)	06:01		06:26 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:02	11	09:29 (KLZ_WT08)	17:55			18:44			20:35	3	07:24 (SAM_WT06)	21:24	3	06:29 (KLZ_WT17)	22:00	12	06:11 (KLZ_WT20)
13	08:45		09:14 (RHR_WT01)	08:04			07:06			06:57		07:19 (SAM_WT06)	06:00		06:25 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:03	10	09:29 (KLZ_WT08)	17:56			18:45			20:37	5	07:24 (SAM_WT06)	21:25	4	06:29 (KLZ_WT17)	22:01	12	06:11 (KLZ_WT20)
14	08:45		09:13 (RHR_WT01)	08:02		08:26 (KLZ_WT10)	07:04			06:55		07:17 (SAM_WT06)	05:58		06:23 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:05	8	09:28 (KLZ_WT08)	17:58	2	08:28 (KLZ_WT10)	18:47			20:39	6	07:23 (SAM_WT06)	21:27	5	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
15	08:44			08:00		08:24 (KLZ_WT10)	07:02			06:53		07:15 (SAM_WT06)	05:56		06:22 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:06			18:00	3	08:27 (KLZ_WT10)	18:49			20:40	6	07:21 (SAM_WT06)	21:28	6	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
16	08:43			07:58		08:22 (KLZ_WT10)	06:59			06:50			05:55		06:21 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:08			18:02	4	08:26 (KLZ_WT10)	18:51			20:42			21:30	7	06:28 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
17	08:42			07:57			06:57			06:48			05:54		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:09			18:04			18:52			20:43			21:31	8	06:27 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
18	08:41			07:55			06:55			06:46			05:52		06:18 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:11			18:05			18:54			20:45			21:33	8	06:26 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
19	08:40			07:53			06:53			06:44			05:51		06:17 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:12			18:07			18:56			20:47			21:34	8	06:25 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
20	08:39			07:51			06:50			06:42			05:49		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:14			18:09			18:57			20:48			21:35	5	06:24 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
21	08:38			07:49			06:48			06:40			05:48			05:30		05:59 (KLZ_WT06)
	17:16			18:11			18:59			20:50			21:37			22:04	15	06:14 (KLZ_WT20)
22	08:37			07:47			06:46			06:38			05:47			05:30		06:00 (KLZ_WT06)
	17:17			18:12			19:01			20:52			21:38			22:05	14	06:14 (KLZ_WT20)
23	08:36			07:45		08:08 (KLZ_WT11)	06:44		07:06 (KLZ_WT21)	06:36			05:46			05:30		06:00 (KLZ_WT06)
	17:19			18:14	1	08:09 (KLZ_WT11)	19:02	4	07:10 (KLZ_WT21)	20:53			21:40			22:05	14	06:14 (KLZ_WT20)
24	08:35			07:43			06:41		07:04 (KLZ_WT21)	06:34			05:44			05:31		06:00 (KLZ_WT06)
	17:21			18:16			19:04	10	07:14 (KLZ_WT21)	20:55			21:41			22:05	14	06:14 (KLZ_WT20)
25	08:34			07:41			06:39		07:01 (KLZ_WT21)	06:32			05:43			05:31		06:01 (KLZ_WT06)
	17:22			18:18			19:06	14	07:15 (KLZ_WT21)	20:57			21:42			22:05	14	06:15 (KLZ_WT20)
26	08:32			07:39			06:37		06:59 (KLZ_WT21)	06:30			05:42			05:31		06:01 (KLZ_WT06)
	17:24			18:20			19:07	17	07:16 (KLZ_WT21)	20:58			21:43			22:05	14	06:15 (KLZ_WT20)
27	08:31			07:36			06:35		06:57 (KLZ_WT21)	06:28			05:41			05:32		06:02 (KLZ_WT06)
	17:26			18:21			19:09	20	07:17 (KLZ_WT21)	21:00			21:45			22:05	13	06:15 (KLZ_WT20)
28	08:30			07:34			06:32		06:55 (SAM_WT07)	06:26			05:40			05:32		06:02 (KLZ_WT06)
	17:28			18:23			19:10	23	07:18 (KLZ_WT21)	21:01			21:46			22:05	13	06:15 (KLZ_WT20)
29	08:28						07:30		07:52 (SAM_WT07)	06:24			05:39			05:33		06:03 (KLZ_WT06)
	17:29						20:12	25	08:17 (KLZ_WT21)	21:03			21:47			22:05	13	06:16 (KLZ_WT20)
30	08:27						07:28		07:50 (SAM_WT07)	06:22			05:38			05:33		06:03 (KLZ_WT06)
	17:31						20:14	27	08:17 (KLZ_WT21)	21:05			21:48			22:05	12	06:15 (KLZ_WT20)
31	08:26						07:26		07:48 (SAM_WT07)				05:37		06:05 (KLZ_WT05)			
	17:33						20:15	29	08:17 (KLZ_WT21)				21:49	1	06:06 (KLZ_WT05)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		126			14			217			162			56			325	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,53			0,56			0,61			0,62			0,70			0,71	
Total reduction		0,13			0,16			0,22			0,28			0,31			0,31	
Total, real		16			2			49			45			17			100	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT06)	06:09		06:37 (KLZ_WT17)	06:57		07:23 (SAM_WT06)	07:45			07:37			08:26		08:57 (RHR_WT01)
	22:04	11	06:15 (KLZ_WT20)	21:34	2	06:39 (KLZ_WT17)	20:33	1	07:24 (SAM_WT06)	19:25			17:21			16:42	12	09:11 (KLZ_WT08)
2	05:35		06:04 (KLZ_WT06)	06:11			06:59			07:46		08:11 (SAM_WT05)	07:38			08:27		09:01 (KLZ_WT08)
	22:04	11	06:15 (KLZ_WT20)	21:32			20:31			19:23	2	08:13 (SAM_WT05)	17:19			16:42	11	09:12 (KLZ_WT08)
3	05:35		06:05 (KLZ_WT06)	06:12			07:00			07:48		08:12 (SAM_WT05)	07:40			08:29		09:01 (KLZ_WT08)
	22:04	10	06:15 (KLZ_WT20)	21:30			20:29			19:21	2	08:14 (SAM_WT05)	17:17			16:41	11	09:12 (KLZ_WT08)
4	05:36		06:06 (KLZ_WT06)	06:14			07:02			07:49			07:42			08:30		09:02 (KLZ_WT08)
	22:03	9	06:15 (KLZ_WT20)	21:29			20:27			19:19			17:16			16:40	11	09:13 (KLZ_WT08)
5	05:37		06:07 (KLZ_WT05)	06:15			07:03		07:54 (KLZ_WT21)	07:51		08:23 (CBR_WT01)	07:44			08:31		09:03 (KLZ_WT08)
	22:03	8	06:15 (KLZ_WT20)	21:27			20:24	10	08:04 (KLZ_WT21)	19:17	4	08:27 (CBR_WT01)	17:14			16:40	10	09:13 (KLZ_WT08)
6	05:38		06:07 (KLZ_WT05)	06:17			07:05		07:51 (KLZ_WT21)	07:53		08:20 (CBR_WT01)	07:45			08:33		09:04 (KLZ_WT08)
	22:02	7	06:14 (KLZ_WT20)	21:25			20:22	15	08:06 (KLZ_WT21)	19:14	8	08:28 (CBR_WT01)	17:12			16:40	9	09:13 (KLZ_WT08)
7	05:38		06:08 (KLZ_WT05)	06:18			07:07		07:49 (KLZ_WT21)	07:54		08:19 (CBR_WT01)	07:47		08:15 (MVN_WT01)	08:34		09:06 (KLZ_WT08)
	22:02	6	06:14 (KLZ_WT20)	21:24			20:20	19	08:08 (KLZ_WT21)	19:12	11	08:30 (CBR_WT01)	17:11	2	08:17 (MVN_WT01)	16:39	8	09:14 (KLZ_WT08)
8	05:39		06:09 (KLZ_WT05)	06:20			07:08		07:47 (KLZ_WT21)	07:56		08:21 (CBR_WT01)	07:49		08:17 (MVN_WT01)	08:35		09:07 (KLZ_WT08)
	22:01	4	06:13 (KLZ_WT05)	21:22			20:18	21	08:08 (KLZ_WT21)	19:10	9	08:30 (CBR_WT01)	17:09	2	08:19 (MVN_WT01)	16:39	8	09:15 (KLZ_WT08)
9	05:40		06:10 (KLZ_WT05)	06:21			07:10		07:47 (KLZ_WT21)	07:58		08:22 (CBR_WT01)	07:51			08:36		09:08 (KLZ_WT08)
	22:00	3	06:13 (KLZ_WT05)	21:20			20:16	22	08:09 (KLZ_WT21)	19:08	7	08:29 (CBR_WT01)	17:07			16:39	7	09:15 (KLZ_WT08)
10	05:41		06:11 (KLZ_WT05)	06:23			07:11		07:45 (KLZ_WT21)	07:59		08:24 (CBR_WT01)	07:52			08:37		09:09 (KLZ_WT08)
	22:00	3	06:14 (KLZ_WT05)	21:18			20:13	24	08:09 (KLZ_WT21)	19:05	5	08:29 (CBR_WT01)	17:06			16:38	6	09:15 (KLZ_WT08)
11	05:42		06:12 (KLZ_WT05)	06:24			07:13		07:40 (SAM_WT07)	08:01		08:26 (CBR_WT01)	07:54			08:38		09:10 (KLZ_WT08)
	21:59	2	06:14 (KLZ_WT05)	21:16			20:11	29	08:09 (KLZ_WT21)	19:03	3	08:29 (CBR_WT01)	17:04			16:38	5	09:15 (KLZ_WT08)
12	05:43		06:13 (KLZ_WT05)	06:26			07:14		07:39 (SAM_WT07)	08:02			07:56			08:39		09:11 (KLZ_WT08)
	21:58	2	06:15 (KLZ_WT05)	21:14			20:09	30	08:09 (KLZ_WT21)	19:01			17:03			16:38	4	09:15 (KLZ_WT08)
13	05:44		06:14 (KLZ_WT05)	06:27			07:16		07:41 (SAM_WT07)	08:04			07:57			08:40		09:12 (KLZ_WT08)
	21:57	1	06:15 (KLZ_WT05)	21:13			20:06	28	08:09 (KLZ_WT21)	18:59			17:01			16:38	4	09:16 (KLZ_WT08)
14	05:45			06:29			07:18		07:42 (SAM_WT07)	08:06			07:59			08:41		09:13 (KLZ_WT08)
	21:57			21:11			20:04	26	08:08 (KLZ_WT21)	18:57			17:00			16:38	3	09:16 (KLZ_WT08)
15	05:47			06:30			07:19		07:44 (SAM_WT07)	08:07			08:01			08:42		09:14 (KLZ_WT08)
	21:56			21:09			20:02	23	08:07 (KLZ_WT21)	18:55			16:59			16:38	2	09:16 (KLZ_WT08)
16	05:48			06:32			07:21		07:45 (SAM_WT07)	08:09			08:03			08:43		09:15 (KLZ_WT08)
	21:55			21:07			20:00	21	08:06 (KLZ_WT21)	18:53			16:57			16:38	2	09:17 (KLZ_WT08)
17	05:49			06:34			07:22		07:47 (KLZ_WT21)	08:11			08:04			08:44		09:16 (KLZ_WT08)
	21:54			21:05			19:57	18	08:05 (KLZ_WT21)	18:50			16:56			16:39	1	09:17 (KLZ_WT08)
18	05:50			06:35			07:24		07:49 (KLZ_WT21)	08:13		08:38 (KLZ_WT11)	08:06			08:45		09:16 (KLZ_WT08)
	21:53			21:03			19:55	15	08:04 (KLZ_WT21)	18:48	1	08:39 (KLZ_WT11)	16:55			16:39	1	09:17 (KLZ_WT08)
19	05:51			06:37			07:25		07:50 (KLZ_WT21)	08:14			08:08			08:45		09:17 (KLZ_WT08)
	21:51			21:01			19:53	11	08:01 (KLZ_WT21)	18:46			16:53			16:39	1	09:18 (KLZ_WT08)
20	05:53			06:38			07:27		07:52 (KLZ_WT21)	08:16			08:09			08:46		
	21:50			20:59			19:50	6	07:58 (KLZ_WT21)	18:44			16:52			16:39		
21	05:54			06:40			07:29			08:18			08:11			08:47		
	21:49			20:57			19:48			18:42			16:51			16:40		
22	05:55			06:41			07:30			08:19			08:12			08:47		
	21:48			20:55			19:46			18:40			16:50			16:40		
23	05:56			06:43			07:32			08:21			08:14			08:48		
	21:47			20:53			19:44			18:38			16:49			16:41		
24	05:58		06:29 (KLZ_WT17)	06:45			07:33			08:23			08:16			08:48		09:19 (KLZ_WT08)
	21:45	6	06:35 (KLZ_WT17)	20:51			19:41			18:36			16:48			16:41	1	09:20 (KLZ_WT08)
25	05:59		06:28 (KLZ_WT17)	06:46			07:35			07:24			08:17			08:48		09:20 (KLZ_WT08)
	21:44	8	06:36 (KLZ_WT17)	20:48			19:39			17:34			16:47			16:42	1	09:21 (KLZ_WT08)
26	06:01		06:29 (KLZ_WT17)	06:48			07:37			07:26		07:53 (KLZ_WT10)	08:19			08:49		09:20 (KLZ_WT08)
	21:43	8	06:37 (KLZ_WT17)	20:46			19:37			17:32	4	07:57 (KLZ_WT10)	16:46			16:43	1	09:21 (KLZ_WT08)
27	06:02		06:30 (KLZ_WT17)	06:49			07:38			07:28		07:54 (KLZ_WT10)	08:20			08:49		09:20 (KLZ_WT08)
	21:41	8	06:38 (KLZ_WT17)	20:44			19:35			17:30	3	07:57 (KLZ_WT10)	16:45			16:43	2	09:22 (KLZ_WT08)
28	06:03		06:32 (KLZ_WT17)	06:51		07:17 (SAM_WT06)	07:40			07:30		07:56 (KLZ_WT10)	08:22		08:53 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:40	7	06:39 (KLZ_WT17)	20:42	6	07:23 (SAM_WT06)	19:32			17:28	2	07:58 (KLZ_WT10)	16:44	8	09:08 (KLZ_WT08)	16:44	2	09:22 (KLZ_WT08)
29	06:05		06:33 (KLZ_WT17)	06:52		07:18 (SAM_WT06)	07:41			07:31			08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	6	06:39 (KLZ_WT17)	20:40	6	07:24 (SAM_WT06)	19:30			17:27			16:44	10	09:09 (KLZ_WT08)	16:45	3	09:23 (KLZ_WT08)
30	06:06		06:34 (KLZ_WT17)	06:54		07:20 (SAM_WT06)	07:43			07:33			08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	5	06:39 (KLZ_WT17)	20:38	5	07:25 (SAM_WT06)	19:28			17:25			16:43	11	09:10 (KLZ_WT08)	16:46	3	09:23 (KLZ_WT08)
31	06:08		06:36 (KLZ_WT17)	06:56		07:21 (SAM_WT06)				07:35						08:50		09:20 (KLZ_WT08)
	21:35	3	06:39 (KLZ_WT17)	20:36	3	07:24 (SAM_WT06)				17:23						16:47	4	09:24 (KLZ_WT08)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		128			22			319			61			33			133	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,65			0,62			0,56			0,53			0,53	
Total reduction		0,31			0,29			0,26			0,20			0,14			0,12	
Total, real		39			6			83			12			5			15	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		09:20 (KLZ_WT08)	08:24		08:50 (MXS_WT01)	07:32			07:23			06:20		06:47 (SAM_WT06)	05:36
	16:48	11	09:31 (KLZ_WT08)	17:35	53	16:35 (KLZ_WT15)	18:25			20:17			21:06	39	07:28 (KLZ_WT21)	21:51
2	08:50		09:21 (KLZ_WT08)	08:23		08:48 (MXS_WT01)	07:30			07:21			06:18		06:55 (KLZ_WT21)	05:36
	16:49	11	09:32 (KLZ_WT08)	17:36	53	16:35 (KLZ_WT15)	18:27			20:19			21:08	32	07:27 (KLZ_WT21)	21:52
3	08:49		09:21 (KLZ_WT08)	08:21		15:46 (KLZ_WT15)	07:28			07:19			06:17		06:56 (KLZ_WT21)	05:35
	16:50	12	09:33 (KLZ_WT08)	17:38	49	16:35 (KLZ_WT15)	18:28			20:20			21:10	32	07:28 (KLZ_WT21)	21:53
4	08:49		09:20 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (KLZ_WT11)	07:17			06:15		06:56 (KLZ_WT21)	05:34
	16:51	13	09:33 (KLZ_WT08)	17:40	50	16:36 (KLZ_WT15)	18:30	2	07:51 (KLZ_WT11)	20:22			21:11	31	07:27 (KLZ_WT21)	21:54
5	08:49		09:20 (KLZ_WT08)	08:18		08:43 (MVN_WT01)	07:24		07:46 (KLZ_WT11)	07:14		07:37 (SAM_WT11)	06:13		06:56 (KLZ_WT21)	05:34
	16:53	14	09:34 (KLZ_WT08)	17:42	51	16:35 (KLZ_WT15)	18:32	4	07:50 (KLZ_WT11)	20:24	1	07:38 (SAM_WT11)	21:13	30	07:26 (KLZ_WT21)	21:55
6	08:49		09:20 (KLZ_WT08)	08:16		08:41 (MVN_WT01)	07:21		07:44 (KLZ_WT11)	07:12		07:34 (SAM_WT11)	06:11		06:57 (KLZ_WT21)	05:33
	16:54	15	09:35 (KLZ_WT08)	17:44	52	16:35 (KLZ_WT15)	18:33	5	07:49 (KLZ_WT11)	20:25	2	07:36 (SAM_WT11)	21:14	29	07:26 (KLZ_WT21)	21:56
7	08:48		09:20 (KLZ_WT08)	08:15		08:39 (MVN_WT01)	07:19		07:43 (KLZ_WT11)	07:10		07:32 (SAM_WT11)	06:09		06:57 (KLZ_WT21)	05:32
	16:55	16	09:36 (KLZ_WT08)	17:45	53	16:35 (KLZ_WT15)	18:35	5	07:48 (KLZ_WT11)	20:27	3	07:35 (SAM_WT11)	21:16	28	07:25 (KLZ_WT21)	21:56
8	08:48		09:20 (KLZ_WT08)	08:13		08:41 (MVN_WT01)	07:17			07:08			06:08		06:57 (KLZ_WT21)	05:32
	16:56	16	09:36 (KLZ_WT08)	17:47	48	16:35 (KLZ_WT15)	18:37			20:29			21:17	27	07:24 (KLZ_WT21)	21:57
9	08:48		09:17 (RHR_WT01)	08:11		15:49 (KLZ_WT15)	07:15			07:06		07:28 (SAM_WT07)	06:06		06:58 (KLZ_WT21)	05:31
	16:58	17	09:37 (KLZ_WT08)	17:49	46	16:35 (KLZ_WT15)	18:39			20:30	2	07:30 (SAM_WT07)	21:19	25	07:23 (KLZ_WT21)	21:58
10	08:47		09:16 (RHR_WT01)	08:09		15:49 (KLZ_WT15)	07:13			07:03		07:26 (SAM_WT07)	06:04		06:59 (KLZ_WT21)	05:31
	16:59	29	16:08 (KLZ_WT15)	17:51	45	16:34 (KLZ_WT15)	18:40			20:32	5	07:31 (SAM_WT07)	21:21	23	07:22 (KLZ_WT21)	21:59
11	08:46		09:15 (RHR_WT01)	08:08		15:50 (KLZ_WT15)	07:11			07:01		07:24 (SAM_WT07)	06:03		07:00 (KLZ_WT21)	05:31
	17:00	35	16:11 (KLZ_WT15)	17:53	44	16:34 (KLZ_WT15)	18:42			20:34	7	07:31 (SAM_WT07)	21:22	21	07:21 (KLZ_WT21)	22:00
12	08:46		09:15 (RHR_WT01)	08:06		15:50 (KLZ_WT15)	07:08		07:31 (CBR_WT01)	06:59		07:21 (SAM_WT07)	06:01		07:01 (KLZ_WT21)	05:30
	17:02	40	16:14 (KLZ_WT15)	17:55	43	16:33 (KLZ_WT15)	18:44	4	07:35 (CBR_WT01)	20:35	9	07:30 (SAM_WT07)	21:24	18	07:19 (KLZ_WT21)	22:00
13	08:45		09:14 (RHR_WT01)	08:04		15:51 (KLZ_WT15)	07:06		07:29 (CBR_WT01)	06:57		07:19 (SAM_WT07)	06:00		07:03 (KLZ_WT21)	05:30
	17:03	43	16:15 (KLZ_WT15)	17:56	41	16:32 (KLZ_WT15)	18:45	7	07:36 (CBR_WT01)	20:37	10	07:29 (SAM_WT07)	21:25	14	07:17 (KLZ_WT21)	22:01
14	08:45		09:13 (RHR_WT01)	08:02		15:52 (KLZ_WT15)	07:04		07:26 (CBR_WT01)	06:55		07:17 (SAM_WT07)	05:58		07:05 (KLZ_WT21)	05:30
	17:05	48	16:17 (KLZ_WT15)	17:58	39	16:31 (KLZ_WT15)	18:47	10	07:36 (CBR_WT01)	20:38	11	07:28 (SAM_WT07)	21:27	9	07:14 (KLZ_WT21)	22:02
15	08:44		09:12 (RHR_WT01)	08:00		15:53 (KLZ_WT15)	07:02		07:24 (CBR_WT01)	06:53		07:18 (SAM_WT07)	05:56			05:30
	17:06	51	16:19 (KLZ_WT15)	18:00	37	16:30 (KLZ_WT15)	18:49	12	07:36 (CBR_WT01)	20:40	8	07:26 (SAM_WT07)	21:28			22:02
16	08:43		09:11 (RHR_WT01)	07:58		15:55 (KLZ_WT15)	06:59		07:22 (CBR_WT01)	06:50			05:55			05:30
	17:08	53	16:20 (KLZ_WT15)	18:02	34	16:29 (KLZ_WT15)	18:50	14	07:36 (CBR_WT01)	20:42			21:30			22:03
17	08:42		09:11 (RHR_WT01)	07:57		15:57 (KLZ_WT15)	06:57		07:22 (CBR_WT01)	06:48			05:54			05:30
	17:09	54	16:22 (KLZ_WT15)	18:04	30	16:27 (KLZ_WT15)	18:52	13	07:35 (CBR_WT01)	20:43			21:31			22:03
18	08:41		09:13 (RHR_WT01)	07:55		15:59 (KLZ_WT15)	06:55		07:17 (SAM_WT05)	06:46			05:52			05:30
	17:11	51	16:23 (KLZ_WT15)	18:05	27	16:26 (KLZ_WT15)	18:54	13	07:33 (CBR_WT01)	20:45			21:33			22:03
19	08:40		09:25 (KLZ_WT08)	07:53		16:02 (KLZ_WT15)	06:53		07:15 (SAM_WT05)	06:44		07:10 (KLZ_WT21)	05:51			05:30
	17:12	51	16:25 (KLZ_WT15)	18:07	21	16:23 (KLZ_WT15)	18:56	13	07:32 (CBR_WT01)	20:47	9	07:19 (KLZ_WT21)	21:34			22:04
20	08:39		09:26 (KLZ_WT08)	07:51		16:05 (KLZ_WT15)	06:50		07:13 (SAM_WT05)	06:42		07:06 (KLZ_WT21)	05:49			05:30
	17:14	51	16:26 (KLZ_WT15)	18:09	15	16:20 (KLZ_WT15)	18:57	5	07:18 (SAM_WT05)	20:48	16	07:22 (KLZ_WT21)	21:35			22:04
21	08:38		09:27 (KLZ_WT08)	07:49			06:48			06:40		07:04 (KLZ_WT21)	05:48			05:30
	17:16	49	16:26 (KLZ_WT15)	18:11			18:59			20:50	20	07:24 (KLZ_WT21)	21:37			22:04
22	08:37		09:29 (KLZ_WT08)	07:47		08:10 (KLZ_WT10)	06:46			06:38		07:02 (KLZ_WT21)	05:47			05:30
	17:17	48	16:28 (KLZ_WT15)	18:12	1	08:11 (KLZ_WT10)	19:01			20:52	23	07:25 (KLZ_WT21)	21:38			22:05
23	08:36		09:32 (KLZ_WT08)	07:45		08:08 (KLZ_WT10)	06:44			06:36		07:01 (KLZ_WT21)	05:46			05:30
	17:19	44	16:29 (KLZ_WT15)	18:14	4	08:12 (KLZ_WT10)	19:02			20:53	25	07:26 (KLZ_WT21)	21:40			22:05
24	08:35		15:48 (KLZ_WT15)	07:43		08:06 (KLZ_WT10)	06:41			06:34		06:59 (KLZ_WT21)	05:44			05:31
	17:21	42	16:30 (KLZ_WT15)	18:16	6	08:12 (KLZ_WT10)	19:04			20:55	28	07:27 (KLZ_WT21)	21:41			22:05
25	08:34		15:47 (KLZ_WT15)	07:41		08:04 (KLZ_WT10)	06:39			06:32		06:55 (SAM_WT06)	05:43			05:31
	17:22	43	16:30 (KLZ_WT15)	18:18	8	08:12 (KLZ_WT10)	19:05			20:57	31	07:27 (KLZ_WT21)	21:42			22:05
26	08:32		15:47 (KLZ_WT15)	07:39		08:02 (KLZ_WT10)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31
	17:24	45	16:32 (KLZ_WT15)	18:20	10	08:12 (KLZ_WT10)	19:07			20:58	34	07:27 (KLZ_WT21)	21:43			22:05
27	08:31		15:46 (KLZ_WT15)	07:36		08:03 (KLZ_WT10)	06:35			06:28		06:51 (SAM_WT06)	05:41			05:32
	17:26	46	16:32 (KLZ_WT15)	18:21	8	08:11 (KLZ_WT10)	19:09			21:00	36	07:27 (KLZ_WT21)	21:45			22:05
28	08:30		15:46 (KLZ_WT15)	07:34		08:04 (KLZ_WT10)	06:32			06:26		06:50 (SAM_WT06)	05:40			05:32
	17:28	47	16:33 (KLZ_WT15)	18:23	4	08:08 (KLZ_WT10)	19:10			21:01	38	07:28 (KLZ_WT21)	21:46			22:05
29	08:28		15:46 (KLZ_WT15)				07:30			06:24		06:48 (SAM_WT06)	05:39			05:33
	17:29	47	16:33 (KLZ_WT15)				20:12			21:03	40	07:28 (KLZ_WT21)	21:47			22:05
30	08:27		08:53 (MXS_WT01)				07:28		07:50 (SAM_WT04)	06:22		06:46 (SAM_WT06)	05:38			05:33
	17:31	50	16:34 (KLZ_WT15)				20:14	1	07:51 (SAM_WT04)	21:05	41	07:28 (KLZ_WT21)	21:48			22:04
31	08:26		08:51 (MXS_WT01)				07:26		07:48 (SAM_WT04)				05:37			
	17:33	51	16:34 (KLZ_WT15)				20:15	1	07:49 (SAM_WT04)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		1143			872			109			399			358		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,98			0,98			0,98			0,98			0,98		
Wind dir. red.		0,65			0,70			0,59			0,65			0,65		
Total reduction		0,16			0,21			0,22			0,29			0,29		
Total, real		180			179			24			117			103		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		07:11 (KLZ_WT21)	06:57		07:23 (SAM_WT07)	07:44		08:09 (CBR_WT01)	07:37		15:19 (KLZ_WT15)	08:26		08:57 (RHR_WT01)
	22:04			21:34	19	07:30 (KLZ_WT21)	20:33	7	07:30 (SAM_WT07)	19:25	6	08:15 (CBR_WT01)	17:21	45	16:04 (KLZ_WT15)	16:42	35	15:53 (KLZ_WT15)
2	05:35			06:11		07:10 (KLZ_WT21)	06:59		07:24 (SAM_WT07)	07:46		08:11 (CBR_WT01)	07:38		15:18 (KLZ_WT15)	08:27		08:59 (RHR_WT01)
	22:04			21:32	22	07:32 (KLZ_WT21)	20:31	5	07:29 (SAM_WT07)	19:23	2	08:13 (CBR_WT01)	17:19	47	16:05 (KLZ_WT15)	16:42	30	15:52 (KLZ_WT15)
3	05:35			06:12		07:09 (KLZ_WT21)	07:00		07:26 (SAM_WT07)	07:48			07:40		08:10 (MVN_WT01)	08:29		09:00 (RHR_WT01)
	22:04			21:30	24	07:33 (KLZ_WT21)	20:29	2	07:28 (SAM_WT07)	19:21			17:17	49	16:05 (KLZ_WT15)	16:41	17	09:20 (KLZ_WT08)
4	05:36			06:14		07:08 (KLZ_WT21)	07:02			07:49			07:42		08:09 (MVN_WT01)	08:30		09:05 (KLZ_WT08)
	22:03			21:29	25	07:33 (KLZ_WT21)	20:27			19:19			17:16	53	16:05 (KLZ_WT15)	16:40	16	09:21 (KLZ_WT08)
5	05:37			06:15		07:07 (KLZ_WT21)	07:03		07:29 (SAM_WT11)	07:51			07:44		08:11 (MVN_WT01)	08:31		09:06 (KLZ_WT08)
	22:03			21:27	27	07:34 (KLZ_WT21)	20:24	3	07:32 (SAM_WT11)	19:16			17:14	52	16:05 (KLZ_WT15)	16:40	15	09:21 (KLZ_WT08)
6	05:38			06:17		07:06 (KLZ_WT21)	07:05		07:30 (SAM_WT11)	07:53			07:45		08:13 (MVN_WT01)	08:33		09:06 (KLZ_WT08)
	22:02			21:25	29	07:35 (KLZ_WT21)	20:22	2	07:32 (SAM_WT11)	19:14			17:12	50	16:05 (KLZ_WT15)	16:40	15	09:21 (KLZ_WT08)
7	05:38			06:18		07:06 (KLZ_WT21)	07:07		07:32 (SAM_WT11)	07:54		08:19 (KLZ_WT11)	07:47		08:15 (MVN_WT01)	08:34		09:07 (KLZ_WT08)
	22:02			21:24	30	07:36 (KLZ_WT21)	20:20	1	07:33 (SAM_WT11)	19:12	6	08:25 (KLZ_WT11)	17:11	49	16:05 (KLZ_WT15)	16:39	14	09:21 (KLZ_WT08)
8	05:39			06:20		07:05 (KLZ_WT21)	07:08			07:56		08:21 (KLZ_WT11)	07:49		15:17 (KLZ_WT15)	08:35		09:08 (KLZ_WT08)
	22:01			21:22	31	07:36 (KLZ_WT21)	20:18			19:10	5	08:26 (KLZ_WT11)	17:09	49	16:06 (KLZ_WT15)	16:39	13	09:21 (KLZ_WT08)
9	05:40			06:21		07:05 (KLZ_WT21)	07:10			07:58		08:22 (KLZ_WT11)	07:50		08:19 (MXS_WT01)	08:36		09:09 (KLZ_WT08)
	22:00			21:20	31	07:36 (KLZ_WT21)	20:15			19:08	3	08:25 (KLZ_WT11)	17:07	53	16:06 (KLZ_WT15)	16:39	12	09:21 (KLZ_WT08)
10	05:41			06:23		07:04 (KLZ_WT21)	07:11			07:59		08:24 (KLZ_WT11)	07:52		08:21 (MXS_WT01)	08:37		09:10 (KLZ_WT08)
	22:00			21:18	32	07:36 (KLZ_WT21)	20:13			19:05	1	08:25 (KLZ_WT11)	17:06	53	16:06 (KLZ_WT15)	16:38	11	09:21 (KLZ_WT08)
11	05:42			06:24		07:05 (KLZ_WT21)	07:13			08:01			07:54		08:23 (MXS_WT01)	08:38		09:10 (KLZ_WT08)
	21:59			21:16	32	07:37 (KLZ_WT21)	20:11			19:03			17:04	51	16:06 (KLZ_WT15)	16:38	11	09:21 (KLZ_WT08)
12	05:43			06:26		06:55 (SAM_WT06)	07:14			08:02			07:56		08:24 (MXS_WT01)	08:39		09:11 (KLZ_WT08)
	21:58			21:14	39	07:36 (KLZ_WT21)	20:09			19:01			17:03	50	16:05 (KLZ_WT15)	16:38	10	09:21 (KLZ_WT08)
13	05:44			06:27		06:54 (SAM_WT06)	07:16		07:41 (SAM_WT04)	08:04			07:57		15:18 (KLZ_WT15)	08:40		09:12 (KLZ_WT08)
	21:57			21:13	42	07:36 (KLZ_WT21)	20:06	1	07:42 (SAM_WT04)	18:59			17:01	47	16:05 (KLZ_WT15)	16:38	9	09:21 (KLZ_WT08)
14	05:45			06:29		06:56 (SAM_WT06)	07:18			08:06		08:36 (KLZ_WT10)	07:59		15:18 (KLZ_WT15)	08:41		09:13 (KLZ_WT08)
	21:56			21:11	40	07:36 (KLZ_WT21)	20:04			18:57	6	08:42 (KLZ_WT10)	17:00	47	16:05 (KLZ_WT15)	16:38	8	09:21 (KLZ_WT08)
15	05:47			06:30		06:57 (SAM_WT06)	07:19			08:07		08:34 (KLZ_WT10)	08:01		15:19 (KLZ_WT15)	08:42		09:15 (KLZ_WT08)
	21:56			21:09	38	07:35 (KLZ_WT21)	20:02			18:55	10	08:44 (KLZ_WT10)	16:59	46	16:05 (KLZ_WT15)	16:38	6	09:21 (KLZ_WT08)
16	05:48			06:32		06:59 (SAM_WT06)	07:21			08:09		08:35 (KLZ_WT10)	08:02		15:20 (KLZ_WT15)	08:43		09:16 (KLZ_WT08)
	21:55			21:07	36	07:35 (KLZ_WT21)	20:00			18:53	9	08:44 (KLZ_WT10)	16:57	45	16:05 (KLZ_WT15)	16:38	5	09:21 (KLZ_WT08)
17	05:49			06:34		07:00 (SAM_WT06)	07:22			08:11		08:36 (KLZ_WT10)	08:04		15:21 (KLZ_WT15)	08:44		09:17 (RHR_WT02)
	21:54			21:05	33	07:34 (KLZ_WT21)	19:57			18:50	8	08:44 (KLZ_WT10)	16:56	43	16:04 (KLZ_WT15)	16:39	4	09:21 (KLZ_WT08)
18	05:50			06:35		07:02 (SAM_WT06)	07:24			08:12		08:38 (KLZ_WT10)	08:06		15:22 (KLZ_WT15)	08:45		09:16 (RHR_WT02)
	21:52			21:03	30	07:34 (KLZ_WT21)	19:55			18:48	6	08:44 (KLZ_WT10)	16:55	42	16:04 (KLZ_WT15)	16:39	5	09:21 (RHR_WT02)
19	05:51			06:37		07:05 (KLZ_WT21)	07:25			08:14		08:40 (KLZ_WT10)	08:08		09:05 (KLZ_WT08)	08:45		09:17 (RHR_WT02)
	21:51			21:01	27	07:32 (KLZ_WT21)	19:53			18:46	3	08:43 (KLZ_WT10)	16:53	45	16:03 (KLZ_WT15)	16:39	5	09:22 (RHR_WT02)
20	05:53			06:38		07:06 (KLZ_WT21)	07:27			08:16			08:09		09:04 (KLZ_WT08)	08:46		09:18 (RHR_WT02)
	21:50			20:59	25	07:31 (KLZ_WT21)	19:50			18:44			16:52	48	16:03 (KLZ_WT15)	16:39	5	09:23 (RHR_WT02)
21	05:54			06:40		07:07 (KLZ_WT21)	07:29			08:18		16:40 (KLZ_WT15)	08:11		09:03 (KLZ_WT08)	08:47		09:18 (RHR_WT02)
	21:49			20:57	22	07:29 (KLZ_WT21)	19:48			18:42	6	16:46 (KLZ_WT15)	16:51	49	16:02 (KLZ_WT15)	16:40	5	09:23 (RHR_WT02)
22	05:55			06:41		07:09 (KLZ_WT21)	07:30			08:19		16:34 (KLZ_WT15)	08:12		09:02 (KLZ_WT08)	08:47		09:19 (RHR_WT02)
	21:48			20:55	19	07:28 (KLZ_WT21)	19:46			18:40	17	16:51 (KLZ_WT15)	16:50	51	16:02 (KLZ_WT15)	16:40	5	09:24 (RHR_WT02)
23	05:56			06:43		07:10 (KLZ_WT21)	07:32		07:56 (SAM_WT05)	08:21		16:31 (KLZ_WT15)	08:14		09:01 (KLZ_WT08)	08:48		09:19 (RHR_WT02)
	21:47			20:53	15	07:25 (KLZ_WT21)	19:44	5	08:01 (SAM_WT05)	18:38	23	16:54 (KLZ_WT15)	16:49	50	16:01 (KLZ_WT15)	16:41	5	09:24 (RHR_WT02)
24	05:58			06:45		07:14 (KLZ_WT21)	07:33		07:58 (SAM_WT05)	08:23		16:29 (KLZ_WT15)	08:16		08:51 (RHR_WT01)	08:48		09:19 (RHR_WT02)
	21:45			20:50	8	07:22 (KLZ_WT21)	19:41	10	08:14 (CBR_WT01)	18:36	28	16:57 (KLZ_WT15)	16:48	50	16:00 (KLZ_WT15)	16:41	5	09:24 (RHR_WT02)
25	05:59			06:46			07:35		07:59 (SAM_WT05)	07:24		15:27 (KLZ_WT15)	08:17		08:49 (RHR_WT01)	08:48		09:20 (RHR_WT02)
	21:44			20:48			19:39	14	08:16 (CBR_WT01)	17:34	31	15:58 (KLZ_WT15)	16:47	54	16:00 (KLZ_WT15)	16:42	5	09:25 (RHR_WT02)
26	06:01			06:48			07:36		08:01 (SAM_WT05)	07:26		15:25 (KLZ_WT15)	08:19		08:49 (RHR_WT01)	08:49		09:20 (RHR_WT02)
	21:43			20:46			19:37	14	08:17 (CBR_WT01)	17:32	35	16:00 (KLZ_WT15)	16:46	53	15:58 (KLZ_WT15)	16:43	5	09:25 (RHR_WT02)
27	06:02			06:49		07:23 (SAM_WT07)	07:38		08:03 (CBR_WT01)	07:28		15:23 (KLZ_WT15)	08:20		08:51 (RHR_WT01)	08:49		09:21 (RHR_WT02)
	21:41			20:44	2	07:25 (SAM_WT07)	19:35	15	08:18 (CBR_WT01)	17:30	37	16:00 (KLZ_WT15)	16:45	50	15:58 (KLZ_WT15)	16:43	5	09:26 (KLZ_WT08)
28	06:03			06:51		07:20 (SAM_WT07)	07:40		08:04 (CBR_WT01)	07:30		15:22 (KLZ_WT15)	08:22		08:53 (RHR_WT01)	08:49		09:21 (KLZ_WT08)
	21:40			20:42	8	07:28 (SAM_WT07)	19:32	13	08:17 (CBR_WT01)	17:28	39	16:01 (KLZ_WT15)	16:44	48	15:57 (KLZ_WT15)	16:44	5	09:26 (KLZ_WT08)
29	06:05		07:19 (KLZ_WT21)	06:52		07:18 (SAM_WT07)	07:41		08:06 (CBR_WT01)	07:31		15:21 (KLZ_WT15)	08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	3	07:22 (KLZ_WT21)	20:40	11	07:29 (SAM_WT07)	19:30	11	08:17 (CBR_WT01)	17:27	41	16:02 (KLZ_WT15)	16:44	44	15:56 (KLZ_WT15)	16:45	7	09:27 (KLZ_WT08)
30	06:06		07:15 (KLZ_WT21)	06:54		07:20 (SAM_WT07)	07:43		08:08 (CBR_WT01)	07:33		15:20 (KLZ_WT15)	08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	11	07:26 (KLZ_WT21)	20:38	10	07:30 (SAM_WT07)	19:28	8	08:16 (CBR_WT01)	17:25	43	16:03 (KLZ_WT15)	16:43	40	15:55 (KLZ_WT15)	16:46	8	09:28 (KLZ_WT08)
31	06:08		07:13 (KLZ_WT21)	06:56		07:21 (SAM_WT07)				07:35		15:19 (KLZ_WT15)				08:50		09:20 (KLZ_WT08)
	21:35	16	07:29 (KLZ_WT21)	20:35	8	07:29 (SAM_WT07)				17:23	45	16:04 (KLZ_WT15)				16:47	9	09:29 (KLZ_WT08)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		30			715			111			410			1453			310	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,65			0,65			0,60			0,69			0,68			0,54	
Total reduction		0,28			0,30			0,25			0,24			0,18			0,12	
Total, real		9			211			28			100			259			37	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		09:20 (MXS_WT01)	08:24		08:57 (KLZ_WT10)	07:32		07:55 (CBR_WT01)	07:23		07:46 (SAM_WT11)	06:20		07:24 (KLZ_WT21)	05:36
	16:48	6	09:26 (MXS_WT01)	17:35	38	16:59 (KLZ_WT15)	18:25	13	08:08 (CBR_WT01)	20:17	5	07:51 (SAM_WT11)	21:06	45	08:09 (KLZ_WT21)	21:51
2	08:50		09:20 (MXS_WT01)	08:23		08:58 (KLZ_WT10)	07:30		07:53 (CBR_WT01)	07:21		07:43 (SAM_WT07)	06:18		07:24 (KLZ_WT21)	05:36
	16:49	7	09:27 (MXS_WT01)	17:36	35	16:58 (KLZ_WT15)	18:27	16	08:09 (CBR_WT01)	20:19	6	07:49 (SAM_WT11)	21:08	44	08:08 (KLZ_WT21)	21:52
3	08:49		09:20 (MXS_WT01)	08:21		08:59 (KLZ_WT10)	07:28		07:51 (CBR_WT01)	07:19		07:41 (SAM_WT07)	06:16		07:25 (KLZ_WT21)	05:35
	16:50	7	09:27 (MXS_WT01)	17:38	32	16:58 (KLZ_WT15)	18:28	18	08:09 (CBR_WT01)	20:20	6	07:47 (SAM_WT07)	21:10	43	08:08 (KLZ_WT21)	21:53
4	08:49		09:19 (MXS_WT01)	08:19		16:34 (KLZ_WT15)	07:26		07:51 (CBR_WT01)	07:17		07:39 (SAM_WT07)	06:15		07:25 (KLZ_WT21)	05:34
	16:51	7	09:26 (MXS_WT01)	17:40	24	16:58 (KLZ_WT15)	18:30	18	08:09 (CBR_WT01)	20:22	9	07:48 (SAM_WT07)	21:11	41	08:06 (KLZ_WT21)	21:54
5	08:49		09:20 (MXS_WT01)	08:18		16:34 (KLZ_WT15)	07:24		07:51 (CBR_WT01)	07:14		07:37 (SAM_WT07)	06:13		07:26 (KLZ_WT21)	05:34
	16:53	6	09:26 (MXS_WT01)	17:42	24	16:58 (KLZ_WT15)	18:32	16	08:07 (CBR_WT01)	20:24	11	07:48 (SAM_WT07)	21:13	39	08:05 (KLZ_WT21)	21:55
6	08:49		09:20 (MXS_WT01)	08:16		16:35 (KLZ_WT15)	07:21		07:51 (CBR_WT01)	07:12		07:34 (SAM_WT07)	06:11		07:27 (KLZ_WT21)	05:33
	16:54	5	09:25 (MXS_WT01)	17:44	22	16:57 (KLZ_WT15)	18:33	16	08:07 (CBR_WT01)	20:25	13	07:47 (SAM_WT07)	21:14	38	08:05 (KLZ_WT21)	21:56
7	08:48		09:23 (MXS_WT01)	08:15		16:36 (KLZ_WT15)	07:19		07:52 (CBR_WT01)	07:10		07:32 (SAM_WT07)	06:09		07:28 (KLZ_WT21)	05:32
	16:55	1	09:24 (MXS_WT01)	17:45	20	16:56 (KLZ_WT15)	18:35	13	08:05 (CBR_WT01)	20:27	18	07:54 (KLZ_WT21)	21:16	35	08:03 (KLZ_WT21)	21:56
8	08:48			08:13		16:38 (KLZ_WT15)	07:17		07:40 (SAM_WT05)	07:08		07:32 (SAM_WT07)	06:08		07:28 (KLZ_WT21)	05:32
	16:56			17:47	18	16:56 (KLZ_WT15)	18:37	12	08:04 (CBR_WT01)	20:29	29	08:01 (KLZ_WT21)	21:17	33	08:01 (KLZ_WT21)	21:57
9	08:48			08:11		16:40 (KLZ_WT15)	07:15		07:38 (SAM_WT05)	07:06		07:33 (SAM_WT07)	06:06		07:30 (KLZ_WT21)	05:31
	16:58			17:49	14	16:54 (KLZ_WT15)	18:39	5	07:43 (SAM_WT05)	20:30	31	08:04 (KLZ_WT21)	21:19	30	08:00 (KLZ_WT21)	21:58
10	08:47			08:09		16:42 (KLZ_WT15)	07:13		07:35 (SAM_WT05)	07:03		07:34 (SAM_WT07)	06:04		07:31 (KLZ_WT21)	05:31
	16:59			17:51	9	16:51 (KLZ_WT15)	18:40	6	07:41 (SAM_WT05)	20:32	32	08:06 (KLZ_WT21)	21:21	27	07:58 (KLZ_WT21)	21:59
11	08:46			08:08		08:32 (KLZ_WT11)	07:11		07:33 (SAM_WT05)	07:01		07:36 (KLZ_WT21)	06:03		07:33 (KLZ_WT21)	05:31
	17:00			17:53	1	08:33 (KLZ_WT11)	18:42	8	07:41 (SAM_WT05)	20:34	32	08:08 (KLZ_WT21)	21:22	24	07:57 (KLZ_WT21)	22:00
12	08:46			08:06		08:30 (KLZ_WT11)	07:08		07:31 (SAM_WT05)	06:59		07:33 (KLZ_WT21)	06:01		07:34 (KLZ_WT21)	05:30
	17:02			17:55	4	08:34 (KLZ_WT11)	18:44	8	07:39 (SAM_WT05)	20:35	35	08:08 (KLZ_WT21)	21:24	21	07:55 (KLZ_WT21)	22:00
13	08:45			08:04		08:28 (KLZ_WT11)	07:06			06:57		07:32 (KLZ_WT21)	05:59		07:37 (KLZ_WT21)	05:30
	17:03			17:56	6	08:34 (KLZ_WT11)	18:45			20:37	37	08:09 (KLZ_WT21)	21:25	16	07:53 (KLZ_WT21)	22:01
14	08:44			08:02		08:26 (KLZ_WT11)	07:04			06:55		07:30 (KLZ_WT21)	05:58		07:41 (KLZ_WT21)	05:30
	17:05			17:58	8	08:34 (KLZ_WT11)	18:47			20:38	40	08:10 (KLZ_WT21)	21:27	7	07:48 (KLZ_WT21)	22:02
15	08:44			08:00		08:24 (KLZ_WT11)	07:02			06:52		07:29 (KLZ_WT21)	05:56			05:30
	17:06			18:00	10	08:34 (KLZ_WT11)	18:49			20:40	42	08:11 (KLZ_WT21)	21:28			22:02
16	08:43			07:58		08:23 (KLZ_WT11)	06:59			06:50		07:28 (KLZ_WT21)	05:55			05:30
	17:08			18:02	10	08:33 (KLZ_WT11)	18:50			20:42	44	08:12 (KLZ_WT21)	21:30			22:03
17	08:42			07:57		08:25 (KLZ_WT11)	06:57			06:48		07:27 (KLZ_WT21)	05:54			05:30
	17:09			18:04	6	08:31 (KLZ_WT11)	18:52			20:43	45	08:12 (KLZ_WT21)	21:31			22:03
18	08:41			07:55			06:55			06:46		07:26 (KLZ_WT21)	05:52			05:29
	17:11			18:05			18:54			20:45	47	08:13 (KLZ_WT21)	21:33			22:03
19	08:40			07:53			06:53			06:44		07:26 (KLZ_WT21)	05:51			05:30
	17:12			18:07			18:55			20:47	47	08:13 (KLZ_WT21)	21:34			22:04
20	08:39		16:39 (KLZ_WT15)	07:51			06:50			06:42		07:25 (KLZ_WT21)	05:49			05:30
	17:14	4	16:43 (KLZ_WT15)	18:09			18:57			20:48	48	08:13 (KLZ_WT21)	21:35			22:04
21	08:38		09:05 (MVN_WT01)	07:49			06:48			06:40		07:03 (SAM_WT06)	05:48			05:30
	17:16	9	16:44 (KLZ_WT15)	18:11			18:59			20:50	50	08:13 (KLZ_WT21)	21:37			22:04
22	08:37		09:04 (MVN_WT01)	07:47			06:46			06:38		07:01 (SAM_WT06)	05:47			05:30
	17:17	14	16:46 (KLZ_WT15)	18:12			19:00			20:52	54	08:13 (KLZ_WT21)	21:38			22:05
23	08:36		09:03 (KLZ_WT10)	07:45			06:44		07:06 (SAM_WT04)	06:36		06:59 (SAM_WT06)	05:46			05:30
	17:19	17	16:48 (KLZ_WT15)	18:14			19:02	2	07:08 (SAM_WT04)	20:53	56	08:13 (KLZ_WT21)	21:40			22:05
24	08:35		09:02 (KLZ_WT10)	07:43			06:41		07:04 (SAM_WT04)	06:34		06:57 (SAM_WT06)	05:44			05:30
	17:21	22	16:50 (KLZ_WT15)	18:16			19:04	3	07:07 (SAM_WT04)	20:55	58	08:12 (KLZ_WT21)	21:41			22:05
25	08:34		09:00 (KLZ_WT10)	07:41			06:39		07:01 (SAM_WT04)	06:32		06:55 (SAM_WT06)	05:43			05:31
	17:22	25	16:51 (KLZ_WT15)	18:18			19:05	4	07:05 (SAM_WT04)	20:57	60	08:12 (KLZ_WT21)	21:42			22:05
26	08:32		08:59 (KLZ_WT10)	07:38		08:02 (CBR_WT01)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31
	17:24	30	16:54 (KLZ_WT15)	18:20	2	08:04 (CBR_WT01)	19:07			20:58	61	08:12 (KLZ_WT21)	21:43			22:05
27	08:31		08:57 (KLZ_WT10)	07:36		08:00 (CBR_WT01)	06:35			06:28		06:52 (SAM_WT06)	05:41			05:32
	17:26	34	16:55 (KLZ_WT15)	18:21	7	08:07 (CBR_WT01)	19:09			21:00	60	08:11 (KLZ_WT21)	21:45			22:05
28	08:30		08:56 (KLZ_WT10)	07:34		07:57 (CBR_WT01)	06:32			06:26		06:53 (SAM_WT06)	05:40			05:32
	17:28	38	16:57 (KLZ_WT15)	18:23	10	08:07 (CBR_WT01)	19:10			21:01	57	08:10 (KLZ_WT21)	21:46			22:05
29	08:28		08:55 (KLZ_WT10)				07:30		07:52 (SAM_WT11)	06:24		06:55 (SAM_WT06)	05:39			05:33
	17:29	39	16:57 (KLZ_WT15)				20:12	1	07:53 (SAM_WT11)	21:03	54	08:11 (KLZ_WT21)	21:47			22:05
30	08:27		08:55 (KLZ_WT10)				07:28		07:50 (SAM_WT11)	06:22		07:24 (KLZ_WT21)	05:38			05:33
	17:31	40	16:58 (KLZ_WT15)				20:14	3	07:53 (SAM_WT11)	21:05	46	08:10 (KLZ_WT21)	21:48			22:04
31	08:26		08:56 (KLZ_WT10)				07:26		07:48 (SAM_WT11)				05:37			
	17:33	39	16:58 (KLZ_WT15)				20:15	4	07:52 (SAM_WT11)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		350			300			166			1133			443		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,98			0,98			0,98			0,98			0,98		
Wind dir. red.		0,64			0,66			0,56			0,64			0,64		
Total reduction		0,16			0,19			0,21			0,29			0,28		
Total, real		54			58			35			327			126		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		07:44 (KLZ_WT21)	06:57		07:35 (KLZ_WT21)	07:44		08:11 (SAM_WT05)	07:37		16:11 (KLZ_WT15)	08:26		
	22:04			21:34	22	08:06 (KLZ_WT21)	20:33	32	08:07 (KLZ_WT21)	19:25	6	08:17 (SAM_WT05)	17:21	11	16:22 (KLZ_WT15)	16:42		
2	05:34			06:11		07:43 (KLZ_WT21)	06:59		07:32 (SAM_WT07)	07:46		08:11 (SAM_WT05)	07:38		16:09 (KLZ_WT15)	08:27		
	22:04			21:32	25	08:08 (KLZ_WT21)	20:31	32	08:04 (KLZ_WT21)	19:23	8	08:19 (SAM_WT05)	17:19	15	16:24 (KLZ_WT15)	16:41		
3	05:35			06:12		07:41 (KLZ_WT21)	07:00		07:31 (SAM_WT07)	07:48		08:12 (SAM_WT05)	07:40		16:08 (KLZ_WT15)	08:29		
	22:04			21:30	29	08:10 (KLZ_WT21)	20:29	31	08:02 (KLZ_WT21)	19:21	7	08:19 (SAM_WT05)	17:17	18	16:26 (KLZ_WT15)	16:41		
4	05:36			06:14		07:39 (KLZ_WT21)	07:02		07:29 (SAM_WT07)	07:49		08:14 (SAM_WT05)	07:42		16:05 (KLZ_WT15)	08:30		
	22:03			21:29	31	08:10 (KLZ_WT21)	20:27	29	07:58 (KLZ_WT21)	19:19	6	08:20 (SAM_WT05)	17:16	21	16:26 (KLZ_WT15)	16:40		
5	05:37			06:15		07:38 (KLZ_WT21)	07:03		07:29 (SAM_WT07)	07:51		08:16 (SAM_WT05)	07:44		16:05 (KLZ_WT15)	08:31		
	22:03			21:27	34	08:12 (KLZ_WT21)	20:24	19	07:52 (KLZ_WT21)	19:16	11	08:39 (CBR_WT01)	17:14	22	16:27 (KLZ_WT15)	16:40		
6	05:38			06:17		07:37 (KLZ_WT21)	07:05		07:30 (SAM_WT07)	07:53		08:17 (SAM_WT05)	07:45		16:04 (KLZ_WT15)	08:33		09:06 (MXS_WT01)
	22:02			21:25	36	08:13 (KLZ_WT21)	20:22	13	07:43 (SAM_WT07)	19:14	13	08:41 (CBR_WT01)	17:12	24	16:28 (KLZ_WT15)	16:39	5	09:11 (MXS_WT01)
7	05:38			06:18		07:36 (KLZ_WT21)	07:07		07:32 (SAM_WT07)	07:54		08:28 (CBR_WT01)	07:47		16:04 (KLZ_WT15)	08:34		09:07 (MXS_WT01)
	22:02			21:24	38	08:14 (KLZ_WT21)	20:20	11	07:43 (SAM_WT07)	19:12	14	08:42 (CBR_WT01)	17:11	24	16:28 (KLZ_WT15)	16:39	6	09:13 (MXS_WT01)
8	05:39			06:20		07:35 (KLZ_WT21)	07:08		07:33 (SAM_WT07)	07:56		08:27 (CBR_WT01)	07:49		08:29 (KLZ_WT10)	08:35		09:07 (MXS_WT01)
	22:01			21:22	40	08:15 (KLZ_WT21)	20:18	9	07:42 (SAM_WT07)	19:10	16	08:43 (CBR_WT01)	17:09	33	16:29 (KLZ_WT15)	16:39	7	09:14 (MXS_WT01)
9	05:40			06:21		07:35 (KLZ_WT21)	07:10		07:35 (SAM_WT07)	07:57		08:25 (CBR_WT01)	07:50		08:28 (KLZ_WT10)	08:36		09:08 (MXS_WT01)
	22:00			21:20	41	08:16 (KLZ_WT21)	20:15	7	07:42 (SAM_WT07)	19:08	18	08:43 (CBR_WT01)	17:07	36	16:29 (KLZ_WT15)	16:39	7	09:15 (MXS_WT01)
10	05:41			06:23		07:34 (KLZ_WT21)	07:11		07:36 (SAM_WT07)	07:59		08:25 (CBR_WT01)	07:52		08:28 (KLZ_WT10)	08:37		09:09 (MXS_WT01)
	22:00			21:18	42	08:16 (KLZ_WT21)	20:13	6	07:42 (SAM_WT11)	19:05	18	08:43 (CBR_WT01)	17:06	38	16:30 (KLZ_WT15)	16:38	7	09:16 (MXS_WT01)
11	05:42			06:24		07:32 (KLZ_WT21)	07:13		07:38 (SAM_WT11)	08:01		08:26 (CBR_WT01)	07:54		08:27 (KLZ_WT10)	08:38		09:10 (MXS_WT01)
	21:59			21:16	45	08:17 (KLZ_WT21)	20:11	6	07:44 (SAM_WT11)	19:03	17	08:43 (CBR_WT01)	17:04	40	16:30 (KLZ_WT15)	16:38	6	09:16 (MXS_WT01)
12	05:43			06:26		07:32 (KLZ_WT21)	07:14		07:39 (SAM_WT11)	08:02		08:28 (CBR_WT01)	07:56		08:26 (KLZ_WT10)	08:39		09:11 (MXS_WT01)
	21:58			21:14	46	08:18 (KLZ_WT21)	20:09	5	07:44 (SAM_WT11)	19:01	14	08:42 (CBR_WT01)	17:03	40	16:29 (KLZ_WT15)	16:38	6	09:17 (MXS_WT01)
13	05:44			06:27		07:31 (KLZ_WT21)	07:16		07:41 (SAM_WT11)	08:04		08:29 (CBR_WT01)	07:57		08:27 (KLZ_WT10)	08:40		09:12 (MXS_WT01)
	21:57			21:13	46	08:17 (KLZ_WT21)	20:06	3	07:44 (SAM_WT11)	18:59	12	08:41 (CBR_WT01)	17:01	39	16:29 (KLZ_WT15)	16:38	6	09:18 (MXS_WT01)
14	05:45			06:29		07:02 (SAM_WT06)	07:18		07:42 (SAM_WT11)	08:06		08:31 (CBR_WT01)	07:59		08:28 (KLZ_WT10)	08:41		09:13 (MXS_WT01)
	21:56			21:11	55	08:18 (KLZ_WT21)	20:04	1	07:43 (SAM_WT11)	18:57	9	08:40 (CBR_WT01)	17:00	38	16:29 (KLZ_WT15)	16:38	5	09:18 (MXS_WT01)
15	05:46			06:30		07:00 (SAM_WT06)	07:19			08:07		08:33 (CBR_WT01)	08:01		08:30 (KLZ_WT10)	08:42		09:14 (MXS_WT01)
	21:56			21:09	59	08:18 (KLZ_WT21)	20:02			18:55	5	08:38 (CBR_WT01)	16:59	34	16:28 (KLZ_WT15)	16:38	5	09:19 (MXS_WT01)
16	05:48			06:32		07:00 (SAM_WT06)	07:21			08:09			08:02		08:32 (KLZ_WT10)	08:43		09:15 (MXS_WT01)
	21:55			21:07	61	08:19 (KLZ_WT21)	20:00			18:53			16:57	30	16:27 (KLZ_WT15)	16:38	5	09:20 (MXS_WT01)
17	05:49			06:34		07:00 (SAM_WT06)	07:22			08:11			08:04		08:34 (KLZ_WT10)	08:44		09:16 (MXS_WT01)
	21:54			21:05	60	08:18 (KLZ_WT21)	19:57			18:50			16:56	25	16:25 (KLZ_WT15)	16:38	4	09:20 (MXS_WT01)
18	05:50			06:35		07:02 (SAM_WT06)	07:24		07:49 (SAM_WT04)	08:12			08:06		08:36 (KLZ_WT10)	08:45		09:16 (MXS_WT01)
	21:52			21:03	60	08:19 (KLZ_WT21)	19:55	4	07:53 (SAM_WT04)	18:48			16:55	22	16:24 (KLZ_WT15)	16:39	4	09:20 (MXS_WT01)
19	05:51			06:37		07:03 (SAM_WT06)	07:25		07:50 (SAM_WT04)	08:14			08:07		08:37 (KLZ_WT10)	08:45		09:17 (MXS_WT01)
	21:51			21:01	58	08:18 (KLZ_WT21)	19:53	4	07:54 (SAM_WT04)	18:46			16:53	17	16:22 (KLZ_WT15)	16:39	4	09:21 (MXS_WT01)
20	05:53			06:38		07:05 (SAM_WT06)	07:27		07:52 (SAM_WT04)	08:16			08:09		08:39 (MVN_WT01)	08:46		09:18 (MXS_WT01)
	21:50			20:59	56	08:18 (KLZ_WT21)	19:50	3	07:55 (SAM_WT04)	18:44			16:52	14	16:21 (KLZ_WT15)	16:39	4	09:22 (MXS_WT01)
21	05:54			06:40		07:06 (SAM_WT06)	07:29		07:53 (SAM_WT04)	08:18			08:11		08:41 (MVN_WT01)	08:47		09:18 (MXS_WT01)
	21:49			20:57	54	08:18 (KLZ_WT21)	19:48	1	07:54 (SAM_WT04)	18:42			16:51	9	16:20 (KLZ_WT15)	16:40	4	09:22 (MXS_WT01)
22	05:55			06:41		07:08 (SAM_WT06)	07:30			08:19			08:12		16:15 (KLZ_WT15)	08:47		09:19 (MXS_WT01)
	21:48			20:55	51	08:18 (KLZ_WT21)	19:46			18:40			16:50	4	16:19 (KLZ_WT15)	16:40	4	09:23 (MXS_WT01)
23	05:56			06:43		07:29 (KLZ_WT21)	07:32			08:21			08:14			08:48		09:19 (MXS_WT01)
	21:47			20:53	48	08:17 (KLZ_WT21)	19:44			18:38			16:49			16:41	4	09:23 (MXS_WT01)
24	05:58			06:45		07:30 (KLZ_WT21)	07:33			08:23		08:57 (KLZ_WT11)	08:16			08:48		09:19 (MXS_WT01)
	21:45			20:50	47	08:17 (KLZ_WT21)	19:41			18:36	3	09:00 (KLZ_WT11)	16:48			16:41	4	09:23 (MXS_WT01)
25	05:59			06:46		07:29 (KLZ_WT21)	07:35			07:24		07:55 (KLZ_WT11)	08:17			08:48		09:20 (MXS_WT01)
	21:44			20:48	46	08:15 (KLZ_WT21)	19:39			17:34	7	08:02 (KLZ_WT11)	16:47			16:42	4	09:24 (MXS_WT01)
26	06:00			06:48		07:30 (KLZ_WT21)	07:36			07:26		07:54 (KLZ_WT11)	08:19			08:49		09:20 (MXS_WT01)
	21:43			20:46	45	08:15 (KLZ_WT21)	19:37			17:32	10	08:04 (KLZ_WT11)	16:46			16:43	4	09:24 (MXS_WT01)
27	06:02			06:49		07:30 (KLZ_WT21)	07:38			07:28		07:54 (KLZ_WT11)	08:20			08:49		09:20 (MXS_WT01)
	21:41			20:44	44	08:14 (KLZ_WT21)	19:34			17:30	9	08:03 (KLZ_WT11)	16:45			16:43	5	09:25 (MXS_WT01)
28	06:03			06:51		07:31 (KLZ_WT21)	07:40			07:30		07:56 (KLZ_WT11)	08:22			08:49		09:20 (MXS_WT01)
	21:40			20:42	42	08:13 (KLZ_WT21)	19:32			17:28	8	08:04 (KLZ_WT11)	16:44			16:44	5	09:25 (MXS_WT01)
29	06:05			06:52		07:31 (KLZ_WT21)	07:41			07:31		07:58 (KLZ_WT11)	08:23			08:49		09:20 (MXS_WT01)
	21:38			20:40	40	08:11 (KLZ_WT21)	19:30			17:27	6	08:04 (KLZ_WT11)	16:44			16:45	5	09:25 (MXS_WT01)
30	06:06		07:49 (KLZ_WT21)	06:54		07:33 (KLZ_WT21)	07:43			07:33		08:00 (KLZ_WT11)	08:25			08:50		09:20 (MXS_WT01)
	21:37	11	08:00 (KLZ_WT21)	20:38	37	08:10 (KLZ_WT21)	19:28			17:25	3	08:03 (KLZ_WT11)	16:43			16:46	5	09:25 (MXS_WT01)
31	06:08		07:47 (KLZ_WT21)	06:56		07:33 (KLZ_WT21)				07:35						08:50		09:20 (MXS_WT01)
	21:35	17	08:04 (KLZ_WT21)	20:35	35	08:08 (KLZ_WT21)				17:23						16:47	6	09:26 (MXS_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		28			1373			216			220			554			131	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,64			0,63			0,55			0,67			0,53	
Total reduction		0,28			0,29			0,27			0,20			0,18			0,12	
Total, real		8			399			58			43			97			15	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (CBR_WT01)	07:32		09:04 (KLZ_WT21)	07:23		10:09 (KLZ_WT21)	06:20			05:36		20:33 (KLZ_WT13)
	16:48			17:35	26	16:57 (KLZ_WT15)	18:25	90	10:34 (KLZ_WT21)	20:17	48	10:57 (KLZ_WT21)	21:06			21:51	23	20:56 (KLZ_WT13)
2	08:50			08:23		08:48 (CBR_WT01)	07:30		09:03 (KLZ_WT21)	07:21		10:12 (KLZ_WT21)	06:18			05:36		20:35 (KLZ_WT13)
	16:49			17:36	24	16:55 (KLZ_WT15)	18:26	91	10:34 (KLZ_WT21)	20:19	42	10:54 (KLZ_WT21)	21:08			21:52	21	20:56 (KLZ_WT13)
3	08:49			08:21		08:48 (CBR_WT01)	07:28		09:03 (KLZ_WT21)	07:19		10:14 (KLZ_WT21)	06:16			05:35		20:35 (KLZ_WT13)
	16:50			17:38	20	09:08 (CBR_WT01)	18:28	91	10:34 (KLZ_WT21)	20:20	36	10:50 (KLZ_WT21)	21:09			21:53	21	20:56 (KLZ_WT13)
4	08:49			08:19		08:48 (CBR_WT01)	07:26		09:03 (KLZ_WT21)	07:17		10:17 (KLZ_WT21)	06:15			05:34		20:35 (KLZ_WT13)
	16:51			17:40	21	09:09 (CBR_WT01)	18:30	92	10:35 (KLZ_WT21)	20:22	29	10:46 (KLZ_WT21)	21:11			21:54	22	21:21 (EVE_WT01)
5	08:49			08:18		08:48 (CBR_WT01)	07:24		09:01 (KLZ_WT21)	07:14		10:23 (KLZ_WT21)	06:13			05:34		20:37 (KLZ_WT13)
	16:53			17:42	21	09:09 (CBR_WT01)	18:32	93	10:34 (KLZ_WT21)	20:24	17	10:40 (KLZ_WT21)	21:13			21:55	22	21:23 (EVE_WT01)
6	08:49			08:16		08:47 (CBR_WT01)	07:21		09:01 (KLZ_WT21)	07:12		07:34 (SAM_WT08)	06:11		20:40 (KLZ_WT13)	05:33		20:37 (KLZ_WT13)
	16:54			17:44	42	10:00 (KLZ_WT21)	18:33	93	10:34 (KLZ_WT21)	20:25	1	07:35 (SAM_WT08)	21:14	5	20:45 (KLZ_WT13)	21:56	22	21:23 (EVE_WT01)
7	08:48			08:15		08:47 (CBR_WT01)	07:19		09:01 (KLZ_WT21)	07:10		07:32 (SAM_WT08)	06:09		20:37 (KLZ_WT13)	05:32		20:38 (KLZ_WT13)
	16:55			17:45	51	10:05 (KLZ_WT21)	18:35	93	10:34 (KLZ_WT21)	20:27	2	07:34 (SAM_WT08)	21:16	10	20:47 (KLZ_WT13)	21:56	22	21:24 (EVE_WT01)
8	08:48			08:13		08:49 (CBR_WT01)	07:17		09:01 (KLZ_WT21)	07:08		07:30 (SAM_WT08)	06:08		20:35 (KLZ_WT13)	05:32		20:38 (KLZ_WT13)
	16:56			17:47	56	10:09 (KLZ_WT21)	18:37	93	10:34 (KLZ_WT21)	20:29	2	07:32 (SAM_WT08)	21:17	13	20:48 (KLZ_WT13)	21:57	22	21:25 (EVE_WT01)
9	08:48			08:11		08:49 (CBR_WT01)	07:15		07:38 (SAM_WT04)	07:05			06:06		20:34 (KLZ_WT13)	05:31		20:40 (KLZ_WT13)
	16:58			17:49	62	10:12 (KLZ_WT21)	18:39	94	10:34 (KLZ_WT21)	20:30			21:19	16	20:50 (KLZ_WT13)	21:58	21	21:26 (EVE_WT01)
10	08:47			08:09		08:49 (CBR_WT01)	07:13		07:35 (SAM_WT04)	07:03			06:04		20:32 (KLZ_WT13)	05:31		20:41 (KLZ_WT13)
	16:59			17:51	65	10:14 (KLZ_WT21)	18:40	96	10:32 (KLZ_WT21)	20:32			21:21	19	20:51 (KLZ_WT13)	21:59	21	21:27 (EVE_WT01)
11	08:46			08:08		08:50 (CBR_WT01)	07:10		07:33 (SAM_WT04)	07:01		07:24 (SAM_WT06)	06:03		20:32 (KLZ_WT13)	05:31		20:42 (KLZ_WT13)
	17:00			17:53	68	10:16 (KLZ_WT21)	18:42	98	10:32 (KLZ_WT21)	20:34	5	07:29 (SAM_WT06)	21:22	21	20:53 (KLZ_WT13)	22:00	21	21:28 (EVE_WT01)
12	08:46			08:06		08:51 (CBR_WT01)	07:08		07:31 (SAM_WT04)	06:59		07:21 (SAM_WT06)	06:01		20:31 (KLZ_WT13)	05:30		20:42 (KLZ_WT13)
	17:02			17:54	70	10:18 (KLZ_WT21)	18:44	99	10:32 (KLZ_WT21)	20:35	8	07:29 (SAM_WT06)	21:24	23	20:54 (KLZ_WT13)	22:00	20	21:27 (EVE_WT01)
13	08:45			08:04		08:53 (CBR_WT01)	07:06		07:29 (SAM_WT04)	06:57		07:19 (SAM_WT06)	05:59		20:30 (KLZ_WT13)	05:30		20:43 (KLZ_WT13)
	17:03			17:56	69	10:20 (KLZ_WT21)	18:45	99	10:31 (KLZ_WT21)	20:37	11	07:30 (SAM_WT06)	21:25	26	20:56 (KLZ_WT13)	22:01	19	21:28 (EVE_WT01)
14	08:44			08:02		09:19 (KLZ_WT21)	07:04		07:29 (SAM_WT04)	06:55		07:17 (SAM_WT06)	05:58		20:29 (KLZ_WT13)	05:30		20:45 (KLZ_WT13)
	17:05			17:58	63	10:22 (KLZ_WT21)	18:47	96	10:30 (KLZ_WT21)	20:38	14	07:31 (SAM_WT06)	21:27	27	20:56 (KLZ_WT13)	22:02	17	21:29 (EVE_WT01)
15	08:44			08:00		09:18 (KLZ_WT21)	07:02		08:59 (KLZ_WT21)	06:52		07:15 (SAM_WT06)	05:56		20:29 (KLZ_WT13)	05:30		20:46 (KLZ_WT13)
	17:06			18:00	65	10:23 (KLZ_WT21)	18:49	90	10:29 (KLZ_WT21)	20:40	21	20:14 (EVE_WT02)	21:28	28	20:57 (KLZ_WT13)	22:02	15	21:29 (EVE_WT01)
16	08:43			07:58		09:16 (KLZ_WT21)	06:59		07:22 (SAM_WT11)	06:50		07:13 (SAM_WT06)	05:55		20:29 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:08			18:02	68	10:24 (KLZ_WT21)	18:50	91	10:29 (KLZ_WT21)	20:42	26	20:15 (EVE_WT02)	21:30	29	20:58 (KLZ_WT13)	22:03	12	21:30 (EVE_WT01)
17	08:42			07:57		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT07)	06:48		07:13 (SAM_WT06)	05:53		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:09			18:03	73	10:26 (KLZ_WT21)	18:52	94	10:27 (KLZ_WT21)	20:43	29	20:17 (EVE_WT02)	21:31	29	20:58 (KLZ_WT13)	22:03	12	21:30 (EVE_WT01)
18	08:41			07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT07)	06:46		07:13 (SAM_WT06)	05:52		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:11			18:05	78	10:27 (KLZ_WT21)	18:54	97	10:26 (KLZ_WT21)	20:45	32	20:19 (EVE_WT02)	21:33	29	20:58 (KLZ_WT13)	22:03	13	21:31 (EVE_WT01)
19	08:40			07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT07)	06:44		07:13 (SAM_WT06)	05:51		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:12			18:07	83	10:28 (KLZ_WT21)	18:55	99	10:25 (KLZ_WT21)	20:47	32	20:20 (EVE_WT02)	21:34	29	20:58 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
20	08:39			07:51		08:14 (SAM_WT05)	06:50		07:13 (SAM_WT07)	06:42		07:14 (SAM_WT06)	05:49		20:29 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:14			18:09	88	10:29 (KLZ_WT21)	18:57	100	10:24 (KLZ_WT21)	20:48	33	20:22 (EVE_WT02)	21:35	30	20:59 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
21	08:38		16:43 (KLZ_WT15)	07:49		08:12 (SAM_WT05)	06:48		07:10 (SAM_WT07)	06:40		07:15 (SAM_WT06)	05:48		20:28 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:16	1	16:44 (KLZ_WT15)	18:11	91	10:30 (KLZ_WT21)	18:59	101	10:22 (KLZ_WT21)	20:50	33	20:23 (EVE_WT02)	21:37	30	20:58 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
22	08:37		16:43 (KLZ_WT15)	07:47		08:10 (SAM_WT05)	06:46		07:09 (SAM_WT07)	06:38		07:17 (SAM_WT06)	05:47		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:17	3	16:46 (KLZ_WT15)	18:12	95	10:31 (KLZ_WT21)	19:00	99	10:20 (KLZ_WT21)	20:52	30	20:25 (EVE_WT02)	21:38	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
23	08:36		16:43 (KLZ_WT15)	07:45		08:10 (SAM_WT05)	06:44		07:09 (SAM_WT07)	06:36		20:02 (EVE_WT02)	05:46		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:19	5	16:48 (KLZ_WT15)	18:14	94	10:31 (KLZ_WT21)	19:02	98	10:19 (KLZ_WT21)	20:53	23	20:25 (EVE_WT02)	21:40	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
24	08:35		16:43 (KLZ_WT15)	07:43		08:12 (SAM_WT05)	06:41		07:09 (SAM_WT07)	06:34		20:02 (EVE_WT02)	05:44		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:21	7	16:50 (KLZ_WT15)	18:16	92	10:32 (KLZ_WT21)	19:04	96	10:18 (KLZ_WT21)	20:55	22	20:24 (EVE_WT02)	21:41	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
25	08:34		16:43 (KLZ_WT15)	07:41		09:07 (KLZ_WT21)	06:39		07:08 (SAM_WT07)	06:32		20:02 (EVE_WT02)	05:43		20:30 (KLZ_WT13)	05:31		21:20 (EVE_WT01)
	17:22	8	16:51 (KLZ_WT15)	18:18	86	10:33 (KLZ_WT21)	19:05	92	10:15 (KLZ_WT21)	20:56	22	20:24 (EVE_WT02)	21:42	28	20:58 (KLZ_WT13)	22:05	13	21:33 (EVE_WT01)
26	08:32		16:43 (KLZ_WT15)	07:38		09:06 (KLZ_WT21)	06:37		07:09 (SAM_WT07)	06:30		20:02 (EVE_WT02)	05:42		20:30 (KLZ_WT13)	05:31		21:20 (EVE_WT01)
	17:24	11	16:54 (KLZ_WT15)	18:19	87	10:33 (KLZ_WT21)	19:07	87	10:13 (KLZ_WT21)	20:58	21	20:23 (EVE_WT02)	21:43	28	20:58 (KLZ_WT13)	22:05	12	21:32 (EVE_WT01)
27	08:31		16:43 (KLZ_WT15)	07:36		09:06 (KLZ_WT21)	06:35		07:10 (SAM_WT07)	06:28		20:03 (EVE_WT02)	05:41		20:31 (KLZ_WT13)	05:32		20:49 (KLZ_WT13)
	17:26	12	16:55 (KLZ_WT15)	18:21	88	10:34 (KLZ_WT21)	19:09	82	10:11 (KLZ_WT21)	21:00	19	20:22 (EVE_WT02)	21:45	26	20:57 (KLZ_WT13)	22:05	14	21:32 (EVE_WT01)
28	08:30		16:44 (KLZ_WT15)	07:34		09:04 (KLZ_WT21)	06:32		07:11 (SAM_WT07)	06:26		20:04 (EVE_WT02)	05:40		20:31 (KLZ_WT13)	05:32		20:48 (KLZ_WT13)
	17:28	13	16:57 (KLZ_WT15)	18:23	89	10:33 (KLZ_WT21)	19:10	75	10:08 (KLZ_WT21)	21:01	16	20:20 (EVE_WT02)	21:46	26	20:57 (KLZ_WT13)	22:05	16	21:32 (EVE_WT01)
29	08:28		08:54 (CBR_WT01)				07:30		08:15 (SAM_WT07)	06:24		20:06 (EVE_WT02)	05:39		20:32 (KLZ_WT13)	05:33		20:47 (KLZ_WT13)
	17:29	23	16:59 (KLZ_WT15)				20:12	63	11:06 (KLZ_WT21)	21:03	14	20:20 (EVE_WT02)	21:47	26	20:58 (KLZ_WT13)	22:05	18	21:32 (EVE_WT01)
30	08:27		08:53 (CBR_WT01)				07:28		10:07 (KLZ_WT21)	06:22		20:08 (EVE_WT02)	05:38		20:33 (KLZ_WT13)	05:33		20:47 (KLZ_WT13)
	17:31	25	16:59 (KLZ_WT15)				20:14	56	11:03 (KLZ_WT21)	21:05	9	20:17 (EVE_WT02)	21:48	24	20:57 (KLZ_WT13)	22:04	19	21:32 (EVE_WT01)
31	08:26		08:51 (CBR_WT01)				07:26		10:09 (KLZ_WT21)				05:37		20:33 (KLZ_WT13)			
	17:33	26	16:58 (KLZ_WT15)				20:15	52	11:01 (KLZ_WT21)				21:49	24	20:57 (KLZ_WT13)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		134			1835			2790			597			633			516	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,67			0,55			0,55			0,58			0,56			0,55	
Total reduction		0,16			0,16			0,20			0,26			0,25			0,24	
Total, real		22			294			566			156			157			123	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		20:47 (KLZ_WT13)	06:09		20:41 (KLZ_WT13)	06:57		07:23 (SAM_WT06)	07:44		08:09 (SAM_WT04)	07:37		08:19 (CBR_WT01)	08:26		
	22:04	20	21:32 (EVE_WT01)	21:34	23	21:04 (KLZ_WT13)	20:33	5	07:28 (SAM_WT06)	19:25	99	11:10 (KLZ_WT21)	17:21	65	09:44 (KLZ_WT21)	16:42		
2	05:34		20:45 (KLZ_WT13)	06:11		20:43 (KLZ_WT13)	06:59			07:46		08:11 (SAM_WT04)	07:38		08:18 (CBR_WT01)	08:27		
	22:04	21	21:31 (EVE_WT01)	21:32	20	21:03 (KLZ_WT13)	20:31			19:23	98	11:11 (KLZ_WT21)	17:19	62	09:41 (KLZ_WT21)	16:41		
3	05:35		20:45 (KLZ_WT13)	06:12		20:43 (KLZ_WT13)	07:00			07:48		08:12 (SAM_WT04)	07:40		08:17 (CBR_WT01)	08:29		
	22:04	21	21:31 (EVE_WT01)	21:30	18	21:01 (KLZ_WT13)	20:29			19:21	97	11:10 (KLZ_WT21)	17:17	56	09:37 (KLZ_WT21)	16:41		
4	05:36		20:45 (KLZ_WT13)	06:14		20:44 (KLZ_WT13)	07:02		07:27 (SAM_WT08)	07:49		08:14 (SAM_WT04)	07:42		08:17 (CBR_WT01)	08:30		
	22:03	21	21:31 (EVE_WT01)	21:29	15	20:59 (KLZ_WT13)	20:27	2	07:29 (SAM_WT08)	19:19	95	11:11 (KLZ_WT21)	17:16	50	09:34 (KLZ_WT21)	16:40		
5	05:37		20:44 (KLZ_WT13)	06:15		20:46 (KLZ_WT13)	07:03		07:29 (SAM_WT08)	07:51		09:38 (KLZ_WT21)	07:44		08:17 (CBR_WT01)	08:31		
	22:03	22	21:30 (EVE_WT01)	21:27	12	20:58 (KLZ_WT13)	20:24	2	07:31 (SAM_WT08)	19:16	93	11:11 (KLZ_WT21)	17:14	40	09:29 (KLZ_WT21)	16:40		
6	05:37		20:44 (KLZ_WT13)	06:17		20:48 (KLZ_WT13)	07:05		07:30 (SAM_WT08)	07:53		09:37 (KLZ_WT21)	07:45		08:18 (CBR_WT01)	08:33		
	22:02	22	21:30 (EVE_WT01)	21:25	8	20:56 (KLZ_WT13)	20:22	1	07:31 (SAM_WT08)	19:14	93	11:10 (KLZ_WT21)	17:12	21	08:39 (CBR_WT01)	16:39		
7	05:38		20:43 (KLZ_WT13)	06:18			07:07		10:18 (KLZ_WT21)	07:54		09:37 (KLZ_WT21)	07:47		08:18 (CBR_WT01)	08:34		
	22:02	22	21:29 (EVE_WT01)	21:24			20:20	16	10:34 (KLZ_WT21)	19:12	93	11:10 (KLZ_WT21)	17:11	21	08:39 (CBR_WT01)	16:39		
8	05:39		20:43 (KLZ_WT13)	06:20			07:08		10:12 (KLZ_WT21)	07:56		09:37 (KLZ_WT21)	07:49		08:19 (CBR_WT01)	08:35		
	22:01	22	21:29 (EVE_WT01)	21:22			20:18	28	10:40 (KLZ_WT21)	19:10	93	11:10 (KLZ_WT21)	17:09	20	08:39 (CBR_WT01)	16:39		
9	05:40		20:43 (KLZ_WT13)	06:21			07:10		10:09 (KLZ_WT21)	07:57		09:37 (KLZ_WT21)	07:50		08:19 (CBR_WT01)	08:36		
	22:00	21	21:29 (EVE_WT01)	21:20			20:15	35	10:44 (KLZ_WT21)	19:08	92	11:09 (KLZ_WT21)	17:07	24	16:26 (KLZ_WT15)	16:39		
10	05:41		20:42 (KLZ_WT13)	06:23			07:11		10:05 (KLZ_WT21)	07:59		09:37 (KLZ_WT21)	07:52		08:21 (CBR_WT01)	08:37		
	22:00	22	21:04 (KLZ_WT13)	21:18			20:13	42	10:47 (KLZ_WT21)	19:05	92	11:09 (KLZ_WT21)	17:06	26	16:28 (KLZ_WT15)	16:38		
11	05:42		20:42 (KLZ_WT13)	06:24			07:13		10:03 (KLZ_WT21)	08:01		09:37 (KLZ_WT21)	07:54		08:23 (CBR_WT01)	08:38		
	21:59	22	21:04 (KLZ_WT13)	21:16			20:11	47	10:50 (KLZ_WT21)	19:03	91	11:08 (KLZ_WT21)	17:04	26	16:30 (KLZ_WT15)	16:38		
12	05:43		20:42 (KLZ_WT13)	06:26		20:19 (EVE_WT02)	07:14		10:00 (KLZ_WT21)	08:02		09:38 (KLZ_WT21)	07:56		08:24 (CBR_WT01)	08:39		
	21:58	23	21:05 (KLZ_WT13)	21:14	3	20:22 (EVE_WT02)	20:09	52	10:52 (KLZ_WT21)	19:01	90	11:08 (KLZ_WT21)	17:03	25	16:30 (KLZ_WT15)	16:38		
13	05:44		20:41 (KLZ_WT13)	06:27		20:15 (EVE_WT02)	07:16		09:58 (KLZ_WT21)	08:04		09:37 (KLZ_WT21)	07:57		08:26 (CBR_WT01)	08:40		
	21:57	24	21:05 (KLZ_WT13)	21:13	10	20:25 (EVE_WT02)	20:06	56	10:54 (KLZ_WT21)	18:59	90	11:07 (KLZ_WT21)	17:01	22	16:31 (KLZ_WT15)	16:38		
14	05:45		20:41 (KLZ_WT13)	06:29		20:13 (EVE_WT02)	07:17		09:56 (KLZ_WT21)	08:06		09:38 (KLZ_WT21)	07:59		16:16 (KLZ_WT15)	08:41		
	21:56	25	21:06 (KLZ_WT13)	21:11	15	20:28 (EVE_WT02)	20:04	60	10:56 (KLZ_WT21)	18:57	88	11:06 (KLZ_WT21)	17:00	13	16:29 (KLZ_WT15)	16:38		
15	05:46		20:41 (KLZ_WT13)	06:30		20:11 (EVE_WT02)	07:19		08:02 (SAM_WT07)	08:07		09:38 (KLZ_WT21)	08:01		16:16 (KLZ_WT15)	08:42		
	21:56	25	21:06 (KLZ_WT13)	21:09	17	20:28 (EVE_WT02)	20:02	73	10:58 (KLZ_WT21)	18:55	88	11:06 (KLZ_WT21)	16:59	12	16:28 (KLZ_WT15)	16:38		
16	05:48		20:40 (KLZ_WT13)	06:32		20:10 (EVE_WT02)	07:21		07:59 (SAM_WT07)	08:09		09:38 (KLZ_WT21)	08:02		16:16 (KLZ_WT15)	08:43		09:34 (KLZ_WT11)
	21:55	27	21:07 (KLZ_WT13)	21:07	19	20:29 (EVE_WT02)	20:00	80	10:59 (KLZ_WT21)	18:52	86	11:04 (KLZ_WT21)	16:57	11	16:27 (KLZ_WT15)	16:38	2	09:36 (KLZ_WT11)
17	05:49		20:40 (KLZ_WT13)	06:34		20:09 (EVE_WT02)	07:22		07:58 (SAM_WT07)	08:11		08:45 (SAM_WT05)	08:04		16:17 (KLZ_WT15)	08:44		09:34 (KLZ_WT11)
	21:54	27	21:07 (KLZ_WT13)	21:05	21	20:30 (EVE_WT02)	19:57	86	11:01 (KLZ_WT21)	18:50	89	11:04 (KLZ_WT21)	16:56	8	16:25 (KLZ_WT15)	16:38	3	09:37 (KLZ_WT11)
18	05:50		20:39 (KLZ_WT13)	06:35		20:09 (EVE_WT02)	07:24		07:56 (SAM_WT07)	08:12		08:43 (SAM_WT05)	08:06		16:16 (KLZ_WT15)	08:45		09:33 (KLZ_WT11)
	21:52	28	21:07 (KLZ_WT13)	21:03	21	20:30 (EVE_WT02)	19:55	91	11:02 (KLZ_WT21)	18:48	93	11:03 (KLZ_WT21)	16:55	7	16:23 (KLZ_WT15)	16:39	5	09:38 (KLZ_WT11)
19	05:51		20:39 (KLZ_WT13)	06:37		20:07 (EVE_WT02)	07:25		07:56 (SAM_WT07)	08:14		08:41 (SAM_WT05)	08:07		16:17 (KLZ_WT15)	08:45		09:24 (MVN_WT01)
	21:51	28	21:07 (KLZ_WT13)	21:01	23	20:30 (EVE_WT02)	19:53	94	11:04 (KLZ_WT21)	18:46	94	11:02 (KLZ_WT21)	16:53	5	16:22 (KLZ_WT15)	16:39	7	09:39 (KLZ_WT11)
20	05:52		20:40 (KLZ_WT13)	06:38		20:08 (EVE_WT02)	07:27		07:55 (SAM_WT07)	08:16		08:42 (SAM_WT05)	08:09		16:18 (KLZ_WT15)	08:46		09:25 (MVN_WT01)
	21:50	28	21:08 (KLZ_WT13)	20:59	23	20:31 (EVE_WT02)	19:50	98	11:05 (KLZ_WT21)	18:44	93	11:02 (KLZ_WT21)	16:52	3	16:21 (KLZ_WT15)	16:39	8	09:40 (KLZ_WT11)
21	05:54		20:39 (KLZ_WT13)	06:40		07:21 (SAM_WT06)	07:28		07:54 (SAM_WT07)	08:18		08:43 (SAM_WT05)	08:11		16:19 (KLZ_WT15)	08:47		09:25 (MVN_WT01)
	21:49	29	21:08 (KLZ_WT13)	20:57	31	20:29 (EVE_WT02)	19:48	101	11:06 (KLZ_WT21)	18:42	90	11:00 (KLZ_WT21)	16:51	1	16:20 (KLZ_WT15)	16:40	8	09:40 (KLZ_WT11)
22	05:55		20:39 (KLZ_WT13)	06:41		07:19 (SAM_WT06)	07:30		07:55 (SAM_WT07)	08:19		08:45 (SAM_WT05)	08:12			08:47		09:26 (MVN_WT01)
	21:48	29	21:08 (KLZ_WT13)	20:55	34	20:28 (EVE_WT02)	19:46	101	11:07 (KLZ_WT21)	18:40	86	10:59 (KLZ_WT21)	16:50			16:40	8	09:41 (KLZ_WT11)
23	05:56		20:39 (KLZ_WT13)	06:43		07:17 (SAM_WT06)	07:32		07:56 (SAM_WT07)	08:21		08:47 (SAM_WT05)	08:14			08:48		09:26 (MVN_WT01)
	21:47	29	21:08 (KLZ_WT13)	20:53	33	20:25 (EVE_WT02)	19:44	100	11:07 (KLZ_WT21)	18:38	82	10:58 (KLZ_WT21)	16:49			16:41	8	09:41 (KLZ_WT11)
24	05:58		20:39 (KLZ_WT13)	06:45		07:17 (SAM_WT06)	07:33		07:58 (SAM_WT07)	08:23		08:49 (SAM_WT05)	08:16			08:48		09:26 (MVN_WT01)
	21:45	29	21:08 (KLZ_WT13)	20:50	33	20:24 (EVE_WT02)	19:41	99	11:08 (KLZ_WT21)	18:36	77	10:57 (KLZ_WT21)	16:48			16:41	7	09:41 (KLZ_WT11)
25	05:59		20:39 (KLZ_WT13)	06:46		07:16 (SAM_WT06)	07:35		07:59 (SAM_WT07)	07:24		07:51 (SAM_WT05)	08:17			08:48		09:28 (MVN_WT01)
	21:44	30	21:09 (KLZ_WT13)	20:48	31	20:21 (EVE_WT02)	19:39	97	11:08 (KLZ_WT21)	17:34	72	09:56 (KLZ_WT21)	16:47			16:42	6	09:42 (KLZ_WT11)
26	06:00		20:39 (KLZ_WT13)	06:48		07:16 (SAM_WT06)	07:36		08:01 (SAM_WT07)	07:26		08:47 (KLZ_WT21)	08:19			08:49		09:38 (KLZ_WT11)
	21:43	29	21:08 (KLZ_WT13)	20:46	29	20:20 (EVE_WT02)	19:37	95	11:09 (KLZ_WT21)	17:32	68	09:55 (KLZ_WT21)	16:46			16:43	3	09:41 (KLZ_WT11)
27	06:02		20:39 (KLZ_WT13)	06:49		07:15 (SAM_WT06)	07:38		08:03 (SAM_WT07)	07:28		08:48 (KLZ_WT21)	08:20			08:49		09:39 (KLZ_WT11)
	21:41	29	21:08 (KLZ_WT13)	20:44	26	20:17 (EVE_WT02)	19:34	91	11:10 (KLZ_WT21)	17:30	64	09:52 (KLZ_WT21)	16:45			16:43	2	09:41 (KLZ_WT11)
28	06:03		20:40 (KLZ_WT13)	06:51		07:17 (SAM_WT06)	07:40		09:40 (KLZ_WT21)	07:30		08:25 (CBR_WT01)	08:22			08:49		
	21:40	28	21:08 (KLZ_WT13)	20:42	20	20:15 (EVE_WT02)	19:32	90	11:10 (KLZ_WT21)	17:28	67	09:51 (KLZ_WT21)	16:44			16:44		
29	06:05		20:40 (KLZ_WT13)	06:52		07:18 (SAM_WT06)	07:41		08:11 (SAM_WT04)	07:31		08:22 (CBR_WT01)	08:23			08:49		
	21:38	28	21:08 (KLZ_WT13)	20:40	14	07:32 (SAM_WT06)	19:30	92	11:10 (KLZ_WT21)	17:26	70	09:49 (KLZ_WT21)	16:43			16:45		
30	06:06		20:40 (KLZ_WT13)	06:54		07:20 (SAM_WT06)	07:43		08:07 (SAM_WT04)	07:33		08:21 (CBR_WT01)	08:25			08:50		
	21:37	27	21:07 (KLZ_WT13)	20:38	11	07:31 (SAM_WT06)	19:28	99	11:10 (KLZ_WT21)	17:25	69	09:48 (KLZ_WT21)	16:43			16:46		
31	06:08		20:41 (KLZ_WT13)	06:56		07:21 (SAM_WT06)				07:35		08:20 (CBR_WT01)				08:50		
	21:35	25	21:06 (KLZ_WT13)	20:35	8	07:29 (SAM_WT06)				17:23	67	09:46 (KLZ_WT21)				16:47		
Potential sun hours	498			452			380			333			269			248		
Total, worst case	783			518			1833			2659			518			67		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,56			0,58			0,55			0,54			0,58			0,54		
Total reduction	0,24			0,27			0,23			0,19			0,15			0,12		
Total, real	190			138			427			512			79			8		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		10:51 (KLZ_WT06)	08:24		08:52 (SAM_WT07)	07:32		08:03 (SAM_WT06)	07:23		08:12 (KLZ_WT17)	06:20		06:44 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:48	125	14:39 (KLZ_WT20)	17:35	119	17:05 (EVE_WT02)	18:25	27	08:33 (KLZ_WT05)	20:17	19	08:31 (KLZ_WT17)	21:06	5	06:49 (SAM_WT10)	21:51	10	06:14 (TEN_WT01)
2	08:50		10:51 (KLZ_WT06)	08:23		08:52 (SAM_WT07)	07:30		08:04 (SAM_WT06)	07:21		08:15 (KLZ_WT17)	06:18		06:42 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:49	127	16:15 (KLZ_WT13)	17:36	107	17:07 (EVE_WT02)	18:26	30	18:01 (EVE_WT01)	20:19	13	08:28 (KLZ_WT17)	21:08	6	06:48 (SAM_WT10)	21:52	11	06:15 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:52 (SAM_WT07)	07:28		08:07 (SAM_WT06)	07:19			06:16		06:41 (SAM_WT10)	05:35		06:03 (TEN_WT01)
	16:50	130	16:17 (KLZ_WT13)	17:38	105	17:09 (EVE_WT02)	18:28	36	18:03 (EVE_WT01)	20:20			21:10	6	06:47 (SAM_WT10)	21:53	13	06:16 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT04)	07:26		08:14 (KLZ_WT05)	07:17		07:39 (KLZ_WT02)	06:15		06:39 (SAM_WT10)	05:34		06:02 (TEN_WT01)
	16:51	132	16:17 (KLZ_WT13)	17:40	101	17:11 (EVE_WT02)	18:30	38	18:05 (EVE_WT01)	20:22	3	07:42 (KLZ_WT02)	21:11	6	06:45 (SAM_WT10)	21:54	14	06:16 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24		08:11 (KLZ_WT05)	07:14		07:37 (KLZ_WT02)	06:13			05:33		06:02 (TEN_WT01)
	16:52	136	16:19 (KLZ_WT13)	17:42	94	17:13 (EVE_WT02)	18:32	45	18:06 (EVE_WT01)	20:24	6	07:43 (KLZ_WT02)	21:13			21:55	15	06:17 (TEN_WT01)
6	08:49		09:18 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21		08:10 (KLZ_WT05)	07:12		07:34 (KLZ_WT02)	06:11			05:33		06:01 (TEN_WT01)
	16:54	139	16:20 (KLZ_WT13)	17:44	76	17:15 (EVE_WT02)	18:33	50	18:08 (EVE_WT01)	20:25	8	07:42 (KLZ_WT02)	21:14			21:56	16	06:17 (TEN_WT01)
7	08:48		09:18 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19		08:09 (KLZ_WT05)	07:10		07:32 (KLZ_WT01)	06:09			05:32		06:01 (TEN_WT01)
	16:55	140	16:22 (KLZ_WT13)	17:45	68	17:16 (EVE_WT02)	18:35	54	18:10 (EVE_WT01)	20:27	10	07:42 (KLZ_WT02)	21:16			21:57	17	06:18 (TEN_WT01)
8	08:48		09:17 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17		08:09 (KLZ_WT05)	07:08		07:30 (KLZ_WT01)	06:08			05:32		06:00 (TEN_WT01)
	16:56	143	16:23 (KLZ_WT13)	17:47	70	17:18 (EVE_WT02)	18:37	57	18:12 (EVE_WT01)	20:29	11	07:41 (KLZ_WT02)	21:17			21:57	17	06:17 (TEN_WT01)
9	08:48		09:17 (SAM_WT05)	08:11		08:36 (SAM_WT11)	07:15		07:38 (SAM_WT08)	07:05		07:28 (KLZ_WT01)	06:06			05:31		06:00 (TEN_WT01)
	16:58	145	16:25 (KLZ_WT13)	17:49	69	17:17 (EVE_WT02)	18:39	59	18:12 (EVE_WT01)	20:30	12	07:40 (KLZ_WT02)	21:19			21:58	18	06:18 (TEN_WT01)
10	08:47		09:16 (SAM_WT05)	08:09		08:34 (SAM_WT11)	07:13		07:35 (SAM_WT08)	07:03		07:26 (KLZ_WT01)	06:04			05:31		06:00 (TEN_WT01)
	16:59	148	16:26 (KLZ_WT13)	17:51	70	17:17 (EVE_WT02)	18:40	62	18:12 (EVE_WT01)	20:32	6	07:32 (KLZ_WT01)	21:21			21:59	19	06:19 (TEN_WT01)
11	08:47		09:15 (SAM_WT05)	08:08		08:32 (SAM_WT11)	07:10		08:07 (KLZ_WT05)	07:01		07:27 (KLZ_WT01)	06:03			05:31		06:01 (TEN_WT01)
	17:00	149	16:27 (KLZ_WT13)	17:53	68	17:16 (EVE_WT02)	18:42	60	18:12 (EVE_WT01)	20:34	3	07:30 (KLZ_WT01)	21:22			22:00	18	06:19 (TEN_WT01)
12	08:46		09:15 (SAM_WT05)	08:06		08:30 (SAM_WT11)	07:08		07:31 (KLZ_WT17)	06:59			06:01			05:30		06:00 (TEN_WT01)
	17:02	149	16:29 (KLZ_WT13)	17:54	66	17:15 (EVE_WT02)	18:44	59	18:11 (EVE_WT01)	20:35			21:24			22:00	19	06:19 (TEN_WT01)
13	08:45		09:15 (SAM_WT05)	08:04		08:32 (SAM_WT11)	07:06		07:29 (KLZ_WT17)	06:57			05:59			05:30		06:00 (TEN_WT01)
	17:03	150	16:31 (KLZ_WT13)	17:56	56	17:13 (EVE_WT02)	18:45	66	18:11 (EVE_WT01)	20:37			21:25			22:01	19	06:19 (TEN_WT01)
14	08:45		09:16 (SAM_WT05)	08:02		16:13 (KLZ_WT12)	07:04		07:26 (KLZ_WT17)	06:55			05:58			05:30		06:01 (TEN_WT01)
	17:05	150	16:32 (KLZ_WT13)	17:58	47	17:11 (EVE_WT02)	18:47	67	18:09 (EVE_WT01)	20:38			21:27			22:02	18	06:19 (TEN_WT01)
15	08:44		10:57 (KLZ_WT06)	08:00		16:13 (KLZ_WT12)	07:02		07:24 (KLZ_WT17)	06:52			05:56			05:30		06:01 (TEN_WT01)
	17:06	144	16:34 (KLZ_WT13)	18:00	38	16:51 (KLZ_WT12)	18:49	68	18:08 (EVE_WT01)	20:40			21:28			22:02	19	06:20 (TEN_WT01)
16	08:43		10:57 (KLZ_WT06)	07:58		16:14 (KLZ_WT12)	06:59		07:22 (KLZ_WT17)	06:50			05:55			05:29		06:01 (TEN_WT01)
	17:08	144	16:35 (KLZ_WT13)	18:02	36	16:50 (KLZ_WT12)	18:50	67	18:07 (EVE_WT01)	20:42			21:30			22:03	19	06:20 (TEN_WT01)
17	08:42		10:58 (KLZ_WT06)	07:57		16:15 (KLZ_WT12)	06:57		07:19 (KLZ_WT17)	06:48			05:53			05:29		06:01 (TEN_WT01)
	17:09	143	16:35 (KLZ_WT13)	18:03	34	16:49 (KLZ_WT12)	18:52	64	18:04 (EVE_WT01)	20:43			21:31			22:03	19	06:20 (TEN_WT01)
18	08:41		10:58 (KLZ_WT06)	07:55		16:17 (KLZ_WT12)	06:55		07:17 (KLZ_WT17)	06:46			05:52			05:29		06:01 (TEN_WT01)
	17:11	143	16:36 (KLZ_WT13)	18:05	31	16:48 (KLZ_WT12)	18:54	58	18:01 (EVE_WT01)	20:45			21:33			22:04	19	06:20 (TEN_WT01)
19	08:40		10:59 (KLZ_WT06)	07:53		16:18 (KLZ_WT12)	06:53		07:15 (KLZ_WT17)	06:44			05:51			05:29		06:02 (TEN_WT01)
	17:12	141	16:36 (KLZ_WT13)	18:07	29	16:47 (KLZ_WT12)	18:55	48	08:31 (KLZ_WT05)	20:47			21:34			22:04	19	06:21 (TEN_WT01)
20	08:39		11:00 (KLZ_WT06)	07:51		16:21 (KLZ_WT12)	06:50		07:13 (KLZ_WT17)	06:42			05:49			05:30		06:02 (TEN_WT01)
	17:14	139	16:37 (KLZ_WT13)	18:09	24	16:45 (KLZ_WT12)	18:57	47	08:29 (KLZ_WT05)	20:48			21:35			22:04	19	06:21 (TEN_WT01)
21	08:38		11:00 (KLZ_WT06)	07:49		08:12 (SAM_WT06)	06:48		07:10 (KLZ_WT17)	06:40			05:48			05:30		06:02 (TEN_WT01)
	17:16	137	16:36 (KLZ_WT13)	18:11	24	16:43 (KLZ_WT12)	18:59	42	08:24 (KLZ_WT05)	20:50			21:37			22:04	19	06:21 (TEN_WT01)
22	08:37		11:01 (KLZ_WT06)	07:47		08:10 (SAM_WT06)	06:46		07:08 (KLZ_WT17)	06:38			05:47			05:30		06:03 (TEN_WT01)
	17:17	135	16:37 (KLZ_WT13)	18:12	22	16:40 (KLZ_WT12)	19:00	35	07:43 (KLZ_WT17)	20:52			21:38			22:05	19	06:22 (TEN_WT01)
23	08:36		11:02 (KLZ_WT06)	07:45		08:08 (SAM_WT06)	06:44		07:08 (KLZ_WT17)	06:36			05:46			05:30		06:03 (TEN_WT01)
	17:19	133	16:39 (KLZ_WT12)	18:14	11	08:19 (SAM_WT06)	19:02	35	07:43 (KLZ_WT17)	20:53			21:40			22:05	19	06:22 (TEN_WT01)
24	08:35		09:02 (SAM_WT07)	07:43		08:06 (SAM_WT06)	06:41		07:08 (KLZ_WT17)	06:34			05:44			05:30		06:02 (TEN_WT01)
	17:21	134	16:41 (KLZ_WT12)	18:16	13	08:19 (SAM_WT06)	19:04	35	07:43 (KLZ_WT17)	20:55			21:41			22:05	20	06:22 (TEN_WT01)
25	08:34		09:00 (SAM_WT07)	07:41		08:04 (SAM_WT06)	06:39		07:08 (KLZ_WT17)	06:32			05:43			05:31		06:03 (TEN_WT01)
	17:22	135	16:42 (KLZ_WT12)	18:18	16	08:20 (SAM_WT06)	19:05	34	07:42 (KLZ_WT17)	20:57			21:42			22:05	19	06:22 (TEN_WT01)
26	08:32		08:59 (SAM_WT07)	07:38		08:02 (SAM_WT06)	06:37		07:08 (KLZ_WT17)	06:30			05:42			05:31		06:03 (TEN_WT01)
	17:24	134	16:44 (KLZ_WT12)	18:19	18	08:20 (SAM_WT06)	19:07	33	07:41 (KLZ_WT17)	20:58			21:43			22:05	19	06:22 (TEN_WT01)
27	08:31		08:57 (SAM_WT07)	07:36		08:03 (SAM_WT06)	06:35		07:08 (KLZ_WT17)	06:28			05:41			05:32		06:03 (TEN_WT01)
	17:26	133	16:45 (KLZ_WT12)	18:21	16	08:19 (SAM_WT06)	19:09	32	07:40 (KLZ_WT17)	21:00			21:45			22:05	19	06:22 (TEN_WT01)
28	08:30		08:56 (SAM_WT07)	07:34		08:02 (SAM_WT06)	06:32		07:08 (KLZ_WT17)	06:26			05:40		06:07 (TEN_WT01)	05:32		06:04 (TEN_WT01)
	17:28	134	16:47 (KLZ_WT12)	18:23	16	08:18 (SAM_WT06)	19:10	31	07:39 (KLZ_WT17)	21:01			21:46	1	06:08 (TEN_WT01)	22:05	19	06:23 (TEN_WT01)
29	08:28		08:54 (SAM_WT07)				07:30		08:09 (KLZ_WT17)	06:24		06:48 (SAM_WT10)	05:39		06:07 (TEN_WT01)	05:33		06:03 (TEN_WT01)
	17:29	133	16:48 (KLZ_WT12)				20:12	28	08:37 (KLZ_WT17)	21:03	2	06:50 (SAM_WT10)	21:47	5	06:12 (TEN_WT01)	22:05	19	06:22 (TEN_WT01)
30	08:27		08:53 (SAM_WT07)				07:28		08:10 (KLZ_WT17)	06:22		06:46 (SAM_WT10)	05:38		06:06 (TEN_WT01)	05:33		06:04 (TEN_WT01)
	17:31	128	16:49 (KLZ_WT12)				20:14	26	08:36 (KLZ_WT17)	21:05	3	06:49 (SAM_WT10)	21:48	7	06:13 (TEN_WT01)	22:04	19	06:23 (TEN_WT01)
31	08:26		08:51 (SAM_WT07)				07:25		08:12 (KLZ_WT17)				05:37		06:05 (TEN_WT01)			
	17:33	127	17:03 (EVE_WT02)				20:15	22	08:34 (KLZ_WT17)				21:49	9	06:14 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		4280			1444			1415			96			45			529	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,67			0,68			0,59			0,63			0,69			0,71	
Total reduction		0,16			0,20			0,22			0,28			0,31			0,31	
Total, real		693			289			309			27			14			162	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:05 (TEN_WT01)	06:09			06:57		07:26 (KLZ_WT01)	07:44		08:09 (KLZ_WT17)	07:37		08:04 (SAM_WT11)	08:26		08:57 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:34			20:33	3	07:29 (KLZ_WT01)	19:25	63	18:50 (EVE_WT01)	17:21	69	16:47 (EVE_WT02)	16:42	149	16:09 (KLZ_WT13)
2	05:34		06:04 (TEN_WT01)	06:10			06:59		07:24 (KLZ_WT01)	07:46		08:46 (KLZ_WT05)	07:38		08:06 (SAM_WT11)	08:27		08:59 (SAM_WT05)
	22:04	19	06:23 (TEN_WT01)	21:32			20:31	6	07:30 (KLZ_WT01)	19:23	58	18:50 (EVE_WT01)	17:19	67	16:47 (EVE_WT02)	16:41	146	16:09 (KLZ_WT13)
3	05:35		06:05 (TEN_WT01)	06:12			07:00		07:26 (KLZ_WT01)	07:48		08:12 (SAM_WT08)	07:40		08:08 (SAM_WT04)	08:29		09:00 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:30			20:29	12	07:38 (KLZ_WT02)	19:21	62	18:49 (EVE_WT01)	17:17	70	16:47 (EVE_WT02)	16:41	145	16:08 (KLZ_WT13)
4	05:36		06:06 (TEN_WT01)	06:13			07:02		07:27 (KLZ_WT01)	07:49		08:14 (SAM_WT08)	07:42		08:09 (SAM_WT04)	08:30		09:02 (SAM_WT05)
	22:03	18	06:24 (TEN_WT01)	21:29			20:27	11	07:38 (KLZ_WT02)	19:19	59	18:49 (EVE_WT01)	17:16	69	16:46 (EVE_WT02)	16:40	142	16:08 (KLZ_WT13)
5	05:37		06:06 (TEN_WT01)	06:15			07:03		07:29 (KLZ_WT01)	07:51		08:46 (KLZ_WT05)	07:44		08:11 (SAM_WT04)	08:31		09:03 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:27			20:24	10	07:39 (KLZ_WT02)	19:16	57	18:49 (EVE_WT01)	17:14	81	16:44 (EVE_WT02)	16:40	140	16:07 (KLZ_WT13)
6	05:37		06:07 (TEN_WT01)	06:17			07:05		07:30 (KLZ_WT02)	07:53		08:45 (KLZ_WT05)	07:45		08:13 (SAM_WT04)	08:33		09:04 (SAM_WT05)
	22:02	16	06:23 (TEN_WT01)	21:25			20:22	8	07:38 (KLZ_WT02)	19:14	56	18:47 (EVE_WT01)	17:12	93	16:42 (EVE_WT02)	16:39	139	16:06 (KLZ_WT13)
7	05:38		06:08 (TEN_WT01)	06:18			07:06		07:32 (KLZ_WT02)	07:54		08:46 (KLZ_WT05)	07:47		08:15 (SAM_WT04)	08:34		09:06 (SAM_WT05)
	22:02	15	06:23 (TEN_WT01)	21:24			20:20	6	07:38 (KLZ_WT02)	19:12	51	18:45 (EVE_WT01)	17:11	101	16:41 (EVE_WT02)	16:39	136	16:06 (KLZ_WT13)
8	05:39		06:09 (TEN_WT01)	06:20			07:08		07:33 (KLZ_WT02)	07:56		08:47 (KLZ_WT05)	07:49		08:23 (SAM_WT07)	08:35		09:07 (SAM_WT05)
	22:01	14	06:23 (TEN_WT01)	21:22			20:18	4	07:37 (KLZ_WT02)	19:10	46	18:43 (EVE_WT01)	17:09	105	16:39 (EVE_WT02)	16:39	132	16:05 (KLZ_WT13)
9	05:40		06:10 (TEN_WT01)	06:21		06:49 (SAM_WT10)	07:10			07:57		08:47 (KLZ_WT05)	07:50		08:23 (SAM_WT07)	08:36		09:08 (SAM_WT05)
	22:00	13	06:23 (TEN_WT01)	21:20	6	06:55 (SAM_WT10)	20:15			19:08	41	18:40 (EVE_WT01)	17:07	107	16:38 (EVE_WT02)	16:38	130	16:05 (KLZ_WT13)
10	05:41		06:11 (TEN_WT01)	06:23		06:50 (SAM_WT10)	07:11		08:09 (KLZ_WT17)	07:59		08:49 (KLZ_WT05)	07:52		08:23 (SAM_WT07)	08:37		10:40 (KLZ_WT06)
	22:00	12	06:23 (TEN_WT01)	21:18	6	06:56 (SAM_WT10)	20:13	12	08:21 (KLZ_WT17)	19:05	34	18:38 (EVE_WT01)	17:06	119	16:36 (EVE_WT02)	16:38	129	16:05 (KLZ_WT13)
11	05:42		06:12 (TEN_WT01)	06:24		06:51 (SAM_WT10)	07:13		08:06 (KLZ_WT17)	08:01		08:40 (SAM_WT06)	07:54		08:23 (SAM_WT07)	08:38		10:41 (KLZ_WT06)
	21:59	11	06:23 (TEN_WT01)	21:16	5	06:56 (SAM_WT10)	20:11	18	08:24 (KLZ_WT17)	19:03	34	18:36 (EVE_WT01)	17:04	126	16:35 (EVE_WT02)	16:38	125	14:29 (KLZ_WT20)
12	05:43		06:13 (TEN_WT01)	06:26		06:53 (SAM_WT10)	07:14		08:03 (KLZ_WT17)	08:02		08:38 (SAM_WT06)	07:56		08:24 (SAM_WT07)	08:39		10:41 (KLZ_WT06)
	21:58	9	06:22 (TEN_WT01)	21:14	4	06:57 (SAM_WT10)	20:09	22	08:25 (KLZ_WT17)	19:01	28	09:09 (KLZ_WT05)	17:03	128	16:20 (KLZ_WT12)	16:38	126	14:30 (KLZ_WT20)
13	05:44		06:14 (TEN_WT01)	06:27		06:54 (SAM_WT10)	07:16		08:02 (KLZ_WT17)	08:04		08:36 (SAM_WT06)	07:57		08:26 (SAM_WT07)	08:40		10:42 (KLZ_WT06)
	21:57	8	06:22 (TEN_WT01)	21:13	3	06:57 (SAM_WT10)	20:06	25	08:27 (KLZ_WT17)	18:59	22	09:04 (KLZ_WT05)	17:01	132	16:19 (KLZ_WT12)	16:38	126	14:30 (KLZ_WT20)
14	05:45		06:15 (TEN_WT01)	06:29		06:56 (SAM_WT10)	07:17		08:00 (KLZ_WT17)	08:06		08:35 (SAM_WT06)	07:59		08:28 (SAM_WT07)	08:41		10:42 (KLZ_WT06)
	21:56	6	06:21 (TEN_WT01)	21:11	2	06:58 (SAM_WT10)	20:04	28	08:28 (KLZ_WT17)	18:57	16	08:51 (SAM_WT06)	17:00	134	16:19 (KLZ_WT12)	16:38	126	14:31 (KLZ_WT20)
15	05:46		06:16 (TEN_WT01)	06:30			07:19		07:59 (KLZ_WT17)	08:07		08:35 (SAM_WT06)	08:01		08:30 (SAM_WT07)	08:42		10:43 (KLZ_WT06)
	21:56	3	06:19 (TEN_WT01)	21:09			20:02	30	08:29 (KLZ_WT17)	18:55	17	08:52 (SAM_WT06)	16:59	133	16:18 (KLZ_WT12)	16:38	126	14:31 (KLZ_WT20)
16	05:48			06:32			07:21		07:57 (KLZ_WT17)	08:09		08:35 (SAM_WT06)	08:02		08:32 (SAM_WT07)	08:43		10:44 (KLZ_WT06)
	21:55			21:07			20:00	32	08:29 (KLZ_WT17)	18:52	17	08:52 (SAM_WT06)	16:57	134	16:17 (KLZ_WT12)	16:38	125	14:32 (KLZ_WT20)
17	05:49			06:34			07:22		07:56 (KLZ_WT17)	08:11		08:36 (SAM_WT06)	08:04		08:34 (SAM_WT07)	08:44		10:44 (KLZ_WT06)
	21:54			21:05			19:57	33	08:29 (KLZ_WT17)	18:50	15	08:51 (SAM_WT06)	16:56	135	16:16 (KLZ_WT12)	16:38	126	14:33 (KLZ_WT20)
18	05:50			06:35			07:24		07:55 (KLZ_WT17)	08:12		08:38 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		10:44 (KLZ_WT06)
	21:53			21:03			19:55	34	08:29 (KLZ_WT17)	18:48	12	08:50 (SAM_WT06)	16:55	134	16:15 (KLZ_WT12)	16:39	125	14:32 (KLZ_WT20)
19	05:51			06:37			07:25		07:55 (KLZ_WT17)	08:14		08:40 (SAM_WT06)	08:08		10:36 (KLZ_WT06)	08:45		10:45 (KLZ_WT06)
	21:51			21:01			19:53	34	08:29 (KLZ_WT17)	18:46	15	17:07 (KLZ_WT12)	16:53	133	16:13 (KLZ_WT12)	16:39	125	14:33 (KLZ_WT20)
20	05:52			06:38			07:27		07:55 (KLZ_WT17)	08:16		08:42 (SAM_WT06)	08:09		10:36 (KLZ_WT06)	08:46		10:46 (KLZ_WT06)
	21:50			20:59			19:50	35	08:30 (KLZ_WT17)	18:44	22	17:12 (KLZ_WT12)	16:52	135	16:12 (KLZ_WT13)	16:39	125	14:34 (KLZ_WT20)
21	05:54			06:40			07:28		07:54 (KLZ_WT17)	08:18		08:43 (SAM_WT06)	08:11		10:36 (KLZ_WT06)	08:47		10:46 (KLZ_WT06)
	21:49			20:57			19:48	35	08:29 (KLZ_WT17)	18:42	24	17:14 (KLZ_WT12)	16:51	137	16:12 (KLZ_WT13)	16:40	125	14:34 (KLZ_WT20)
22	05:55			06:41			07:30		07:55 (KLZ_WT17)	08:19		16:50 (KLZ_WT12)	08:12		10:36 (KLZ_WT06)	08:47		10:47 (KLZ_WT06)
	21:48			20:55			19:46	38	09:07 (KLZ_WT05)	18:40	26	17:16 (KLZ_WT12)	16:50	139	16:13 (KLZ_WT13)	16:40	125	14:35 (KLZ_WT20)
23	05:56			06:43			07:32		07:56 (KLZ_WT17)	08:21		16:48 (KLZ_WT12)	08:14		10:35 (KLZ_WT06)	08:48		10:47 (KLZ_WT06)
	21:47			20:53			19:44	45	09:11 (KLZ_WT05)	18:38	30	17:18 (KLZ_WT12)	16:49	141	16:12 (KLZ_WT13)	16:41	125	14:35 (KLZ_WT20)
24	05:58			06:44			07:33		07:58 (KLZ_WT17)	08:23		16:47 (KLZ_WT12)	08:16		10:35 (KLZ_WT06)	08:48		10:47 (KLZ_WT06)
	21:45			20:50			19:41	48	09:14 (KLZ_WT05)	18:36	32	17:19 (KLZ_WT12)	16:48	143	16:13 (KLZ_WT13)	16:41	125	14:35 (KLZ_WT20)
25	05:59			06:46			07:35		07:59 (KLZ_WT17)	07:24		15:46 (KLZ_WT12)	08:17		10:36 (KLZ_WT06)	08:48		10:48 (KLZ_WT06)
	21:44			20:48			19:39	52	18:41 (EVE_WT01)	17:34	34	16:20 (KLZ_WT12)	16:47	143	16:13 (KLZ_WT13)	16:42	125	14:36 (KLZ_WT20)
26	06:00			06:48			07:36		08:01 (KLZ_WT17)	07:26		15:45 (KLZ_WT12)	08:19		10:35 (KLZ_WT06)	08:49		10:48 (KLZ_WT06)
	21:43			20:46			19:37	63	18:46 (EVE_WT01)	17:32	36	16:21 (KLZ_WT12)	16:46	144	16:13 (KLZ_WT13)	16:43	126	14:37 (KLZ_WT20)
27	06:02			06:49			07:38		08:03 (KLZ_WT17)	07:28		15:43 (KLZ_WT12)	08:20		10:36 (KLZ_WT06)	08:49		10:48 (KLZ_WT06)
	21:41			20:44			19:34	66	18:48 (EVE_WT01)	17:30	38	16:21 (KLZ_WT12)	16:45	144	16:13 (KLZ_WT13)	16:43	126	14:37 (KLZ_WT20)
28	06:03			06:51			07:40		08:04 (KLZ_WT17)	07:30		15:42 (KLZ_WT12)	08:22		08:56 (SAM_WT05)	08:49		10:49 (KLZ_WT06)
	21:40			20:42			19:32	67	18:48 (EVE_WT01)	17:28	48	16:41 (EVE_WT02)	16:44	149	16:12 (KLZ_WT13)	16:44	125	14:37 (KLZ_WT20)
29	06:05			06:52			07:41		08:06 (KLZ_WT17)	07:31		08:01 (SAM_WT11)	08:23		08:55 (SAM_WT05)	08:49		10:49 (KLZ_WT06)
	21:38			20:40			19:30	68	18:50 (EVE_WT01)	17:26	59	16:43 (EVE_WT02)	16:43	150	16:11 (KLZ_WT13)	16:45	126	14:38 (KLZ_WT20)
30	06:06			06:54			07:43		08:07 (KLZ_WT17)	07:33		08:00 (SAM_WT11)	08:25		08:56 (SAM_WT05)	08:50		10:50 (KLZ_WT06)
	21:37			20:38			19:28	66	18:49 (EVE_WT01)	17:25	68	16:45 (EVE_WT02)	16:43	149	16:10 (KLZ_WT13)	16:46	125	14:38 (KLZ_WT20)
31	06:08			06:56						07:35		08:02 (SAM_WT11)				08:50		10:50 (KLZ_WT06)
	21:35			20:35						17:23	68	16:46 (EVE_WT02)				16:47	125	14:38 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		197			26			911			1188			3644			4021	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,71			0,67			0,60			0,63			0,68			0,66	
Total reduction		0,31			0,31			0,25			0,22			0,18			0,15	
Total, real		61			8			230			266			642			586	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:26 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32			07:23		19:11 (KLZ_WT20)	06:20		19:47 (KLZ_WT06)	05:36		
	16:48	63	15:12 (KLZ_WT21)	17:35	29	09:29 (SAM_WT07)	18:25			20:17	39	19:50 (KLZ_WT20)	21:06	25	20:12 (KLZ_WT06)	21:51		
2	08:50		09:26 (SAM_WT05)	08:23		09:00 (SAM_WT07)	07:30			07:21		19:11 (KLZ_WT20)	06:18		19:47 (KLZ_WT06)	05:36		
	16:49	62	15:12 (KLZ_WT21)	17:36	29	09:29 (SAM_WT07)	18:26			20:19	42	19:53 (KLZ_WT12)	21:08	24	20:11 (KLZ_WT06)	21:52		
3	08:49		09:27 (SAM_WT05)	08:21		08:59 (SAM_WT07)	07:28			07:19		19:10 (KLZ_WT20)	06:16		19:47 (KLZ_WT06)	05:35		
	16:50	62	15:13 (KLZ_WT21)	17:38	30	09:29 (SAM_WT07)	18:28			20:20	45	19:55 (KLZ_WT12)	21:09	23	20:10 (KLZ_WT06)	21:53		
4	08:49		09:27 (SAM_WT05)	08:19		09:00 (SAM_WT07)	07:26			07:16		19:10 (KLZ_WT20)	06:15		19:49 (KLZ_WT06)	05:34		
	16:51	61	15:13 (KLZ_WT21)	17:40	30	09:30 (SAM_WT07)	18:30			20:22	47	19:57 (EVE_WT01)	21:11	21	20:10 (KLZ_WT06)	21:54		
5	08:49		09:28 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24			07:14		19:10 (KLZ_WT20)	06:13		19:50 (KLZ_WT06)	05:33		
	16:52	60	15:13 (KLZ_WT21)	17:42	32	09:30 (SAM_WT07)	18:32			20:24	48	19:58 (EVE_WT01)	21:13	19	20:09 (KLZ_WT06)	21:55		
6	08:49		09:29 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21			07:12		19:09 (KLZ_WT20)	06:11		19:50 (KLZ_WT06)	05:33		
	16:54	58	15:13 (KLZ_WT21)	17:44	35	09:30 (SAM_WT07)	18:33			20:25	50	19:59 (EVE_WT01)	21:14	17	20:07 (KLZ_WT06)	21:56		
7	08:48		09:30 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19			07:10		19:09 (KLZ_WT20)	06:09		19:53 (KLZ_WT06)	05:32		
	16:55	57	15:14 (KLZ_WT21)	17:45	38	09:30 (SAM_WT07)	18:35			20:27	52	20:01 (EVE_WT01)	21:16	13	20:06 (KLZ_WT06)	21:56		
8	08:48		09:31 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17			07:08		07:30 (SWB_WT01_RP)	06:08		19:54 (KLZ_WT06)	05:32		06:00 (KLZ_WT01)
	16:56	55	15:13 (KLZ_WT21)	17:47	39	09:30 (SAM_WT07)	18:37			20:29	54	20:03 (EVE_WT01)	21:17	10	20:04 (KLZ_WT06)	21:57	2	06:02 (KLZ_WT01)
9	08:47		09:32 (SAM_WT05)	08:11		08:36 (SAM_WT04)	07:15			07:05		07:28 (SWB_WT01_RP)	06:06			05:31		06:00 (KLZ_WT01)
	16:57	54	15:14 (KLZ_WT21)	17:49	41	09:30 (SAM_WT07)	18:39			20:30	57	20:05 (EVE_WT01)	21:19			21:58	3	06:03 (KLZ_WT01)
10	08:47		09:33 (SAM_WT05)	08:09		08:34 (SAM_WT04)	07:13		07:44 (SAM_WT06)	07:03		19:11 (KLZ_WT20)	06:04			05:31		06:00 (KLZ_WT01)
	16:59	51	15:14 (KLZ_WT21)	17:51	41	09:29 (SAM_WT07)	18:40	3	07:47 (SAM_WT06)	20:32	55	20:06 (EVE_WT01)	21:21			21:59	4	06:04 (KLZ_WT01)
11	08:46		09:35 (SAM_WT05)	08:08		08:32 (SAM_WT04)	07:10		07:39 (SAM_WT06)	07:01		19:11 (KLZ_WT20)	06:03		06:28 (SAM_WT09)	05:31		05:59 (KLZ_WT01)
	17:00	47	15:14 (KLZ_WT21)	17:53	41	09:28 (SAM_WT07)	18:42	13	07:52 (SAM_WT06)	20:33	52	20:03 (EVE_WT01)	21:22	1	06:29 (SAM_WT09)	22:00	5	06:04 (KLZ_WT01)
12	08:46		14:34 (KLZ_WT21)	08:06		08:30 (SAM_WT11)	07:08		07:36 (SAM_WT06)	06:59		19:11 (KLZ_WT20)	06:01		06:26 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:02	40	15:14 (KLZ_WT21)	17:54	40	09:27 (SAM_WT07)	18:44	20	18:19 (KLZ_WT13)	20:35	49	20:01 (EVE_WT01)	21:24	1	06:27 (SAM_WT09)	22:00	6	06:05 (KLZ_WT01)
13	08:45		14:35 (KLZ_WT21)	08:04		08:28 (SAM_WT11)	07:06		07:34 (SAM_WT06)	06:57		19:13 (KLZ_WT20)	05:59		06:25 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:03	39	15:14 (KLZ_WT21)	17:56	38	09:25 (SAM_WT07)	18:45	25	18:20 (KLZ_WT13)	20:37	41	19:58 (KLZ_WT12)	21:25	1	06:26 (SAM_WT09)	22:01	7	06:06 (KLZ_WT01)
14	08:44		14:35 (KLZ_WT21)	08:02		08:26 (SAM_WT11)	07:04		07:32 (SAM_WT06)	06:55		19:14 (KLZ_WT20)	05:58			05:30		05:59 (KLZ_WT01)
	17:05	39	15:14 (KLZ_WT21)	17:58	35	09:24 (SAM_WT07)	18:47	31	18:22 (KLZ_WT13)	20:38	31	19:54 (KLZ_WT12)	21:27			22:02	7	06:06 (KLZ_WT01)
15	08:44		14:36 (KLZ_WT21)	08:00		08:24 (SAM_WT11)	07:02		07:31 (SAM_WT06)	06:52		19:16 (KLZ_WT20)	05:56			05:30		05:59 (KLZ_WT01)
	17:06	38	15:14 (KLZ_WT21)	18:00	30	09:21 (SAM_WT07)	18:49	36	18:24 (KLZ_WT13)	20:40	24	19:40 (KLZ_WT20)	21:28			22:02	8	06:07 (KLZ_WT01)
16	08:43		14:37 (KLZ_WT21)	07:58		08:22 (SAM_WT11)	06:59		07:30 (SAM_WT06)	06:50		07:13 (SAM_WT02)	05:55			05:29		05:59 (KLZ_WT01)
	17:08	36	15:13 (KLZ_WT21)	18:02	24	09:17 (SAM_WT07)	18:50	40	18:26 (KLZ_WT13)	20:42	21	19:37 (KLZ_WT20)	21:30			22:03	8	06:07 (KLZ_WT01)
17	08:42		14:39 (KLZ_WT21)	07:56		08:20 (SAM_WT11)	06:57		07:29 (SAM_WT06)	06:48		07:11 (SAM_WT02)	05:53			05:29		05:59 (KLZ_WT01)
	17:09	34	15:13 (KLZ_WT21)	18:03	21	08:41 (SAM_WT11)	18:52	42	18:27 (KLZ_WT13)	20:43	17	19:34 (KLZ_WT20)	21:31			22:03	8	06:07 (KLZ_WT01)
18	08:41		14:40 (KLZ_WT21)	07:55		08:20 (SAM_WT11)	06:55		07:29 (SAM_WT06)	06:46		07:09 (SAM_WT02)	05:52			05:29		05:59 (KLZ_WT01)
	17:11	33	15:13 (KLZ_WT21)	18:05	20	08:40 (SAM_WT11)	18:54	43	18:28 (KLZ_WT13)	20:45	3	07:12 (SAM_WT02)	21:33			22:03	8	06:07 (KLZ_WT01)
19	08:40		14:42 (KLZ_WT21)	07:53		08:21 (SAM_WT11)	06:53		07:15 (SAM_WT08)	06:44		19:56 (KLZ_WT06)	05:51			05:29		05:59 (KLZ_WT01)
	17:12	30	15:12 (KLZ_WT21)	18:07	18	08:39 (SAM_WT11)	18:55	42	18:27 (KLZ_WT13)	20:47	10	20:06 (KLZ_WT06)	21:34			22:04	9	06:08 (KLZ_WT01)
20	08:39		14:43 (KLZ_WT21)	07:51		08:22 (SAM_WT11)	06:50		07:13 (SAM_WT08)	06:42		19:53 (KLZ_WT06)	05:49			05:30		05:59 (KLZ_WT01)
	17:14	28	15:11 (KLZ_WT21)	18:09	16	08:38 (SAM_WT11)	18:57	40	18:25 (KLZ_WT13)	20:48	16	20:09 (KLZ_WT06)	21:35			22:04	9	06:08 (KLZ_WT01)
21	08:38		14:44 (KLZ_WT21)	07:49		08:24 (SAM_WT11)	06:48		07:10 (SAM_WT08)	06:40		19:52 (KLZ_WT06)	05:48			05:30		05:59 (KLZ_WT01)
	17:16	25	15:09 (KLZ_WT21)	18:11	12	08:36 (SAM_WT11)	18:59	33	07:56 (SAM_WT06)	20:50	18	20:10 (KLZ_WT06)	21:37			22:04	9	06:08 (KLZ_WT01)
22	08:37		14:47 (KLZ_WT21)	07:47		08:27 (SAM_WT11)	06:46		07:08 (SAM_WT08)	06:38		19:50 (KLZ_WT06)	05:47			05:30		06:00 (KLZ_WT01)
	17:17	21	15:08 (KLZ_WT21)	18:12	6	08:33 (SAM_WT11)	19:00	35	07:56 (SAM_WT06)	20:52	21	20:11 (KLZ_WT06)	21:38			22:05	9	06:09 (KLZ_WT01)
23	08:36		09:10 (SAM_WT07)	07:45			06:44		07:06 (SAM_WT08)	06:36		06:59 (SAM_WT03)	05:45			05:30		06:00 (KLZ_WT01)
	17:19	24	16:48 (KLZ_WT15)	18:14			19:02	44	18:37 (KLZ_WT20)	20:53	25	20:12 (KLZ_WT06)	21:40			22:05	9	06:09 (KLZ_WT01)
24	08:35		09:06 (SAM_WT07)	07:43			06:41		07:03 (SAM_WT08)	06:34		06:57 (SAM_WT03)	05:44			05:30		06:00 (KLZ_WT01)
	17:21	24	16:49 (KLZ_WT15)	18:16			19:04	48	18:38 (KLZ_WT20)	20:55	28	20:13 (KLZ_WT06)	21:41			22:05	9	06:09 (KLZ_WT01)
25	08:34		09:05 (SAM_WT07)	07:41			06:39		07:29 (SAM_WT06)	06:32		06:55 (SAM_WT03)	05:43			05:31		06:01 (KLZ_WT01)
	17:22	18	16:51 (KLZ_WT15)	18:18			19:05	42	18:40 (KLZ_WT20)	20:56	31	20:13 (KLZ_WT06)	21:42			22:05	8	06:09 (KLZ_WT01)
26	08:32		09:04 (SAM_WT07)	07:38			06:37		07:31 (SAM_WT06)	06:30		06:53 (SAM_WT03)	05:42			05:31		06:01 (KLZ_WT01)
	17:24	20	16:53 (KLZ_WT15)	18:19			19:07	42	18:42 (KLZ_WT20)	20:58	32	20:13 (KLZ_WT06)	21:43			22:05	8	06:09 (KLZ_WT01)
27	08:31		09:02 (SAM_WT07)	07:36			06:34		07:32 (SAM_WT06)	06:28		06:53 (SAM_WT03)	05:41			05:32		06:01 (KLZ_WT01)
	17:26	22	09:24 (SAM_WT07)	18:21			19:09	43	18:44 (KLZ_WT20)	21:00	31	20:13 (KLZ_WT06)	21:45			22:05	8	06:09 (KLZ_WT01)
28	08:30		09:02 (SAM_WT07)	07:34			06:32		07:34 (SAM_WT06)	06:26		19:46 (KLZ_WT06)	05:40			05:32		06:02 (KLZ_WT01)
	17:28	23	09:25 (SAM_WT07)	18:23			19:10	40	18:45 (KLZ_WT20)	21:01	27	20:13 (KLZ_WT06)	21:46			22:05	7	06:09 (KLZ_WT01)
29	08:28		09:01 (SAM_WT07)				07:30		19:14 (KLZ_WT20)	06:24		19:47 (KLZ_WT06)	05:39			05:33		06:02 (KLZ_WT01)
	17:29	25	09:26 (SAM_WT07)				20:12	33	19:47 (KLZ_WT20)	21:03	26	20:13 (KLZ_WT06)	21:47			22:05	7	06:09 (KLZ_WT01)
30	08:27		09:01 (SAM_WT07)				07:28		19:13 (KLZ_WT20)	06:22		19:47 (KLZ_WT06)	05:38			05:33		06:03 (KLZ_WT01)
	17:31	26	09:27 (SAM_WT07)				20:14	36	19:49 (KLZ_WT20)	21:05	26	20:13 (KLZ_WT06)	21:48			22:04	6	06:09 (KLZ_WT01)
31	08:25		09:00 (SAM_WT07)				07:25		19:13 (KLZ_WT20)				05:37					
	17:33	28	09:28 (SAM_WT07)				20:15	37	19:50 (KLZ_WT20)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1203			645			768			1018			155			164	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,68			0,55			0,60			0,60			0,57			0,71	
Total reduction		0,16			0,16			0,22			0,27			0,25			0,31	
Total, real		197			104			171			277			39			50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT01)	06:09		06:37 (SAM_WT09)	06:57		19:10 (KLZ_WT20)	07:44		08:14 (SAM_WT06)	07:36		08:04 (SAM_WT04)	08:26		09:17 (SAM_WT05)
	22:04	6	06:10 (KLZ_WT01)	21:34	1	06:38 (SAM_WT09)	20:33	53	20:03 (EVE_WT01)	19:25	22	18:58 (KLZ_WT13)	17:21	41	08:59 (SAM_WT07)	16:42	47	14:56 (KLZ_WT21)
2	05:34		06:04 (KLZ_WT01)	06:10			06:59		19:09 (KLZ_WT20)	07:46		08:17 (SAM_WT06)	07:38		08:06 (SAM_WT04)	08:27		09:17 (SAM_WT05)
	22:04	5	06:09 (KLZ_WT01)	21:32			20:31	54	20:03 (EVE_WT01)	19:23	15	08:32 (SAM_WT06)	17:19	39	08:59 (SAM_WT07)	16:41	50	14:57 (KLZ_WT21)
3	05:35		06:05 (KLZ_WT01)	06:12			07:00		07:26 (SWB_WT01_RP)	07:48		08:19 (SAM_WT06)	07:40		08:07 (SAM_WT04)	08:29		09:16 (SAM_WT05)
	22:04	4	06:09 (KLZ_WT01)	21:30			20:29	57	20:03 (EVE_WT01)	19:21	9	08:28 (SAM_WT06)	17:17	39	08:59 (SAM_WT07)	16:41	52	14:57 (KLZ_WT21)
4	05:36		06:06 (KLZ_WT01)	06:13		20:07 (KLZ_WT06)	07:02		07:27 (SWB_WT01_RP)	07:49			07:42		08:09 (SAM_WT04)	08:30		09:16 (SAM_WT05)
	22:03	3	06:09 (KLZ_WT01)	21:29	4	20:11 (KLZ_WT06)	20:27	54	20:00 (EVE_WT01)	19:19			17:16	37	08:59 (SAM_WT07)	16:40	55	14:58 (KLZ_WT21)
5	05:37		06:06 (KLZ_WT01)	06:15		20:04 (KLZ_WT06)	07:03		19:07 (KLZ_WT20)	07:51			07:43		08:11 (SAM_WT04)	08:31		09:15 (SAM_WT05)
	22:03	1	06:07 (KLZ_WT01)	21:27	11	20:15 (KLZ_WT06)	20:24	51	19:58 (EVE_WT01)	19:16			17:14	36	09:00 (SAM_WT07)	16:40	57	14:59 (KLZ_WT21)
6	05:37			06:16		20:01 (KLZ_WT06)	07:05		19:05 (KLZ_WT20)	07:53			07:45		08:13 (SAM_WT04)	08:33		09:15 (SAM_WT05)
	22:02			21:25	15	20:16 (KLZ_WT06)	20:22	50	19:55 (EVE_WT01)	19:14			17:12	32	09:00 (SAM_WT07)	16:39	58	14:59 (KLZ_WT21)
7	05:38			06:18		20:00 (KLZ_WT06)	07:06		19:05 (KLZ_WT20)	07:54			07:47		08:30 (SAM_WT07)	08:34		09:16 (SAM_WT05)
	22:02			21:24	18	20:18 (KLZ_WT06)	20:20	49	19:54 (EVE_WT01)	19:12			17:11	30	09:00 (SAM_WT07)	16:39	59	15:00 (KLZ_WT21)
8	05:39			06:20		19:59 (KLZ_WT06)	07:08		19:04 (KLZ_WT20)	07:56			07:49		08:30 (SAM_WT07)	08:35		09:15 (SAM_WT05)
	22:01			21:22	20	20:19 (KLZ_WT06)	20:18	47	19:51 (EVE_WT01)	19:10			17:09	30	09:00 (SAM_WT07)	16:39	61	15:01 (KLZ_WT21)
9	05:40			06:21		19:57 (KLZ_WT06)	07:10		19:05 (KLZ_WT20)	07:57			07:50		08:31 (SAM_WT07)	08:36		09:15 (SAM_WT05)
	22:00			21:20	22	20:19 (KLZ_WT06)	20:15	44	19:49 (KLZ_WT12)	19:08			17:07	29	09:00 (SAM_WT07)	16:38	62	15:01 (KLZ_WT21)
10	05:41			06:23		19:57 (KLZ_WT06)	07:11		19:04 (KLZ_WT20)	07:59			07:52		08:31 (SAM_WT07)	08:37		09:15 (SAM_WT05)
	22:00			21:18	23	20:20 (KLZ_WT06)	20:13	42	19:46 (KLZ_WT12)	19:05			17:06	29	09:00 (SAM_WT07)	16:38	62	15:01 (KLZ_WT21)
11	05:42			06:24		19:55 (KLZ_WT06)	07:13		19:04 (KLZ_WT20)	08:01			07:54		08:32 (SAM_WT07)	08:38		09:16 (SAM_WT05)
	21:59			21:16	25	20:20 (KLZ_WT06)	20:11	39	19:43 (KLZ_WT20)	19:03			17:04	28	09:00 (SAM_WT07)	16:38	63	15:02 (KLZ_WT21)
12	05:43			06:26		19:55 (KLZ_WT06)	07:14		19:04 (KLZ_WT20)	08:02			07:56		08:32 (SAM_WT07)	08:39		09:16 (SAM_WT05)
	21:58			21:14	26	20:21 (KLZ_WT06)	20:09	38	19:42 (KLZ_WT20)	19:01			17:03	26	08:58 (SAM_WT07)	16:38	63	15:02 (KLZ_WT21)
13	05:44			06:27		19:54 (KLZ_WT06)	07:16		19:05 (KLZ_WT20)	08:04			07:57		08:33 (SAM_WT07)	08:40		09:16 (SAM_WT05)
	21:57			21:12	26	20:20 (KLZ_WT06)	20:06	35	19:40 (KLZ_WT20)	18:59			17:01	25	08:58 (SAM_WT07)	16:38	64	15:03 (KLZ_WT21)
14	05:45			06:29		19:54 (KLZ_WT06)	07:17		19:04 (KLZ_WT20)	08:06			07:59		08:34 (SAM_WT07)	08:41		09:17 (SAM_WT05)
	21:56			21:11	27	20:21 (KLZ_WT06)	20:04	33	19:37 (KLZ_WT20)	18:57			17:00	23	08:57 (SAM_WT07)	16:38	63	15:03 (KLZ_WT21)
15	05:46			06:30		19:54 (KLZ_WT06)	07:19		08:26 (SAM_WT06)	08:07			08:01		08:35 (SAM_WT07)	08:42		09:17 (SAM_WT05)
	21:56			21:09	26	20:20 (KLZ_WT06)	20:02	38	19:35 (KLZ_WT20)	18:55			16:58	22	08:57 (SAM_WT07)	16:38	64	15:04 (KLZ_WT21)
16	05:48			06:32		07:00 (SAM_WT03)	07:21		08:21 (SAM_WT06)	08:09			08:02		08:37 (SAM_WT07)	08:43		09:18 (SAM_WT05)
	21:55			21:07	31	20:20 (KLZ_WT06)	19:59	42	19:33 (KLZ_WT20)	18:52			16:57	21	16:26 (KLZ_WT15)	16:38	65	15:05 (KLZ_WT21)
17	05:49			06:33		07:00 (SAM_WT03)	07:22		08:19 (SAM_WT06)	08:11			08:04		08:39 (SAM_WT07)	08:44		09:18 (SAM_WT05)
	21:54			21:05	31	20:19 (KLZ_WT06)	19:57	43	19:31 (KLZ_WT20)	18:50			16:56	18	16:25 (KLZ_WT15)	16:38	64	15:05 (KLZ_WT21)
18	05:50			06:35		07:02 (SAM_WT03)	07:24		08:17 (SAM_WT06)	08:12			08:06		08:40 (SAM_WT07)	08:45		09:18 (SAM_WT05)
	21:52			21:03	30	20:19 (KLZ_WT06)	19:55	42	19:28 (KLZ_WT20)	18:48			16:55	24	16:23 (KLZ_WT15)	16:39	64	15:05 (KLZ_WT21)
19	05:51			06:37		07:03 (SAM_WT03)	07:25		07:51 (SAM_WT08)	08:14			08:07		08:44 (SAM_WT07)	08:45		09:19 (SAM_WT05)
	21:51			21:01	27	20:18 (KLZ_WT06)	19:53	47	19:26 (KLZ_WT20)	18:46			16:53	24	16:22 (KLZ_WT15)	16:39	65	15:06 (KLZ_WT21)
20	05:52			06:38		07:05 (SAM_WT03)	07:27		07:52 (SAM_WT08)	08:16		08:57 (SAM_WT11)	08:09		14:22 (KLZ_WT21)	08:46		09:20 (SAM_WT05)
	21:50			20:59	24	20:18 (KLZ_WT06)	19:50	46	19:24 (KLZ_WT20)	18:44	8	09:05 (SAM_WT11)	16:52	21	14:43 (KLZ_WT21)	16:39	65	15:07 (KLZ_WT21)
21	05:54			06:40		19:55 (KLZ_WT06)	07:28		07:53 (SAM_WT08)	08:17		08:54 (SAM_WT11)	08:11		14:20 (KLZ_WT21)	08:47		09:20 (SAM_WT05)
	21:49			20:57	21	20:16 (KLZ_WT06)	19:48	34	08:41 (SAM_WT06)	18:42	13	09:07 (SAM_WT11)	16:51	25	14:45 (KLZ_WT21)	16:40	65	15:07 (KLZ_WT21)
22	05:55			06:41		19:56 (KLZ_WT06)	07:30		07:55 (SAM_WT08)	08:19		08:52 (SAM_WT11)	08:12		14:19 (KLZ_WT21)	08:47		09:21 (SAM_WT05)
	21:48			20:55	18	20:14 (KLZ_WT06)	19:46	35	08:42 (SAM_WT06)	18:40	17	09:09 (SAM_WT11)	16:50	28	14:47 (KLZ_WT21)	16:40	65	15:08 (KLZ_WT21)
23	05:56			06:43		19:57 (KLZ_WT06)	07:32		07:56 (SAM_WT08)	08:21		08:51 (SAM_WT11)	08:14		14:18 (KLZ_WT21)	08:48		09:21 (SAM_WT05)
	21:47			20:52	15	20:12 (KLZ_WT06)	19:44	39	19:08 (KLZ_WT13)	18:38	19	09:10 (SAM_WT11)	16:49	30	14:48 (KLZ_WT21)	16:41	65	15:08 (KLZ_WT21)
24	05:58			06:44		20:00 (KLZ_WT06)	07:33		07:58 (SAM_WT08)	08:23		08:51 (SAM_WT11)	08:16		14:17 (KLZ_WT21)	08:48		09:21 (SAM_WT05)
	21:45			20:50	10	20:10 (KLZ_WT06)	19:41	40	19:10 (KLZ_WT13)	18:36	20	09:11 (SAM_WT11)	16:48	33	14:50 (KLZ_WT21)	16:41	65	15:08 (KLZ_WT21)
25	05:59			06:46		07:12 (SAM_WT02)	07:35		08:11 (SAM_WT06)	07:24		07:51 (SAM_WT11)	08:17		14:17 (KLZ_WT21)	08:48		09:22 (SAM_WT05)
	21:44			20:48	5	19:31 (KLZ_WT20)	19:39	43	19:11 (KLZ_WT13)	17:34	20	08:11 (SAM_WT11)	16:47	34	14:51 (KLZ_WT21)	16:42	64	15:09 (KLZ_WT21)
26	06:00			06:48		07:14 (SAM_WT02)	07:36		08:11 (SAM_WT06)	07:26		07:53 (SAM_WT11)	08:19		14:16 (KLZ_WT21)	08:49		09:22 (SAM_WT05)
	21:43			20:46	17	19:37 (KLZ_WT20)	19:37	42	19:10 (KLZ_WT13)	17:32	26	08:49 (SAM_WT07)	16:46	35	14:51 (KLZ_WT21)	16:43	64	15:09 (KLZ_WT21)
27	06:02			06:49		07:15 (SAM_WT02)	07:38		08:12 (SAM_WT06)	07:28		07:54 (SAM_WT11)	08:20		14:15 (KLZ_WT21)	08:49		09:23 (SAM_WT05)
	21:41			20:44	22	19:39 (KLZ_WT20)	19:34	40	19:08 (KLZ_WT13)	17:30	31	08:51 (SAM_WT07)	16:45	38	14:53 (KLZ_WT21)	16:43	65	15:10 (KLZ_WT21)
28	06:03			06:51		19:17 (KLZ_WT20)	07:40		08:12 (SAM_WT06)	07:30		07:56 (SAM_WT11)	08:22		14:16 (KLZ_WT21)	08:49		09:23 (SAM_WT05)
	21:40			20:42	25	19:42 (KLZ_WT20)	19:32	36	19:05 (KLZ_WT13)	17:28	36	08:54 (SAM_WT07)	16:44	38	14:54 (KLZ_WT21)	16:44	64	15:10 (KLZ_WT21)
29	06:05			06:52		19:15 (KLZ_WT20)	07:41		08:13 (SAM_WT06)	07:31		07:58 (SAM_WT11)	08:23		14:15 (KLZ_WT21)	08:49		09:23 (SAM_WT05)
	21:38			20:40	33	19:56 (KLZ_WT12)	19:30	33	19:03 (KLZ_WT13)	17:26	39	08:55 (SAM_WT07)	16:43	39	14:54 (KLZ_WT21)	16:45	64	15:10 (KLZ_WT21)
30	06:06			06:54		19:13 (KLZ_WT20)	07:43		08:13 (SAM_WT06)	07:33		08:00 (SAM_WT11)	08:25		14:15 (KLZ_WT21)	08:50		09:24 (SAM_WT05)
	21:37			20:38	42	19:59 (KLZ_WT12)	19:28	28	19:00 (KLZ_WT13)	17:25	41	08:57 (SAM_WT07)	16:43	40	14:55 (KLZ_WT21)	16:46	64	15:11 (KLZ_WT21)
31	06:08		06:36 (SAM_WT09)	06:55		19:11 (KLZ_WT20)				07:35		08:02 (SAM_WT04)				08:50		09:25 (SAM_WT05)
	21:35	1	06:37 (SAM_WT09)	20:35	49	20:01 (EVE_WT01)				17:23	41	08:58 (SAM_WT07)				16:47	63	15:11 (KLZ_WT21)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		20			644			1274			357			914			1911	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,71			0,58			0,61			0,56			0,62			0,67	
Total reduction		0,31			0,27			0,26			0,20			0,16			0,15	
Total, real		6			171			327			70			149			283	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		10:08 (SAM_WT07)	08:24			07:32		17:40 (KLZ_WT20)	07:23		07:45 (SWB_WT01_RP)	06:20			05:36		06:24 (KLZ_WT01)
	16:48	38	15:14 (KLZ_WT21)	17:35			18:25	19	17:59 (KLZ_WT13)	20:17	31	19:30 (KLZ_WT05)	21:06			21:51	79	19:56 (KLZ_WT04)
2	08:50		10:09 (SAM_WT07)	08:22			07:30		17:39 (KLZ_WT20)	07:21		07:43 (SWB_WT01_RP)	06:18			05:36		06:25 (KLZ_WT01)
	16:49	35	15:14 (KLZ_WT21)	17:36			18:26	22	18:01 (KLZ_WT13)	20:19	32	19:31 (KLZ_WT05)	21:08			21:52	78	19:57 (KLZ_WT04)
3	08:49		10:10 (SAM_WT07)	08:21			07:28		17:39 (KLZ_WT20)	07:19		19:01 (KLZ_WT05)	06:16			05:35		06:03 (SAM_WT10)
	16:50	32	15:13 (KLZ_WT21)	17:38			18:28	24	18:03 (EVE_WT02)	20:20	30	19:31 (KLZ_WT05)	21:09			21:53	79	19:57 (KLZ_WT04)
4	08:49		10:10 (SAM_WT07)	08:19		08:57 (SAM_WT06)	07:26		17:38 (KLZ_WT20)	07:16		19:01 (KLZ_WT05)	06:15		06:39 (SAM_WT09)	05:34		06:02 (SAM_WT10)
	16:51	28	15:12 (KLZ_WT21)	17:40	7	09:04 (SAM_WT06)	18:30	27	18:05 (EVE_WT02)	20:22	30	19:31 (KLZ_WT05)	21:11	2	06:41 (SAM_WT09)	21:54	81	19:58 (KLZ_WT04)
5	08:49		10:12 (SAM_WT07)	08:18		08:53 (SAM_WT06)	07:24		17:37 (KLZ_WT20)	07:14		19:01 (KLZ_WT05)	06:13		06:37 (SAM_WT09)	05:33		06:02 (SAM_WT10)
	16:52	23	15:11 (KLZ_WT21)	17:42	15	09:08 (SAM_WT06)	18:32	29	18:06 (EVE_WT02)	20:24	30	19:31 (KLZ_WT05)	21:13	3	06:40 (SAM_WT09)	21:55	81	19:59 (KLZ_WT04)
6	08:49		10:12 (SAM_WT07)	08:16		08:51 (SAM_WT06)	07:21		07:44 (SAM_WT08)	07:12		07:34 (SAM_WT02)	06:11		06:35 (SAM_WT09)	05:33		06:01 (SAM_WT10)
	16:54	17	10:29 (SAM_WT07)	17:44	19	09:10 (SAM_WT06)	18:33	33	18:07 (KLZ_WT20)	20:25	31	19:30 (KLZ_WT05)	21:14	4	06:39 (SAM_WT09)	21:56	81	19:59 (KLZ_WT04)
7	08:48		09:18 (SAM_WT04)	08:15		08:49 (SAM_WT06)	07:19		07:42 (SAM_WT08)	07:10		07:32 (SAM_WT02)	06:09		06:34 (SAM_WT09)	05:32		06:01 (SAM_WT10)
	16:55	15	10:28 (SAM_WT07)	17:45	22	09:11 (SAM_WT06)	18:35	35	18:07 (KLZ_WT20)	20:27	32	19:29 (KLZ_WT05)	21:16	4	06:38 (SAM_WT09)	21:56	82	20:00 (KLZ_WT04)
8	08:48		09:17 (SAM_WT04)	08:13		08:48 (SAM_WT06)	07:17		07:40 (SAM_WT08)	07:08		07:30 (SAM_WT02)	06:08			05:32		06:00 (SAM_WT10)
	16:56	15	10:27 (SAM_WT07)	17:47	25	09:13 (SAM_WT06)	18:37	38	18:08 (KLZ_WT06)	20:29	31	19:28 (KLZ_WT05)	21:17			21:57	86	20:00 (KLZ_WT04)
9	08:47		09:17 (SAM_WT04)	08:11		08:47 (SAM_WT06)	07:15		07:37 (SAM_WT08)	07:05		07:28 (SAM_WT02)	06:06			05:31		06:00 (SAM_WT10)
	16:57	12	10:26 (SAM_WT07)	17:49	27	09:14 (SAM_WT06)	18:38	40	18:08 (KLZ_WT06)	20:30	32	19:28 (KLZ_WT05)	21:19			21:58	89	20:00 (KLZ_WT04)
10	08:47		09:16 (SAM_WT04)	08:09		08:46 (SAM_WT06)	07:13		07:35 (SAM_WT08)	07:03		19:03 (KLZ_WT05)	06:04			05:31		06:00 (SAM_WT10)
	16:59	6	09:22 (SAM_WT11)	17:51	29	09:15 (SAM_WT06)	18:40	42	18:09 (KLZ_WT06)	20:32	23	19:26 (KLZ_WT05)	21:21			21:59	89	20:01 (KLZ_WT04)
11	08:46		09:15 (SAM_WT04)	08:08		08:45 (SAM_WT06)	07:10		07:34 (SAM_WT08)	07:01		19:04 (KLZ_WT05)	06:03			05:30		05:59 (SAM_WT10)
	17:00	7	09:22 (SAM_WT04)	17:53	31	09:16 (SAM_WT06)	18:42	44	18:17 (KLZ_WT12)	20:33	20	19:24 (KLZ_WT05)	21:22			22:00	92	20:01 (KLZ_WT04)
12	08:46		09:15 (SAM_WT04)	08:06		08:45 (SAM_WT06)	07:08		07:36 (SAM_WT08)	06:59		19:06 (KLZ_WT05)	06:01			05:30		05:59 (SAM_WT10)
	17:02	9	09:24 (SAM_WT11)	17:54	31	09:16 (SAM_WT06)	18:44	42	18:19 (KLZ_WT12)	20:35	16	19:22 (KLZ_WT05)	21:24			22:00	90	20:01 (KLZ_WT04)
13	08:45		09:14 (SAM_WT04)	08:04		08:44 (SAM_WT06)	07:06		17:40 (KLZ_WT20)	06:57		07:19 (SAM_WT03)	05:59			05:30		05:59 (SAM_WT10)
	17:03	10	09:24 (SAM_WT04)	17:56	33	09:17 (SAM_WT06)	18:45	37	18:20 (KLZ_WT12)	20:37	14	19:20 (KLZ_WT05)	21:25			22:01	91	20:02 (KLZ_WT04)
14	08:44		09:13 (SAM_WT04)	08:02		08:44 (SAM_WT06)	07:04		17:42 (KLZ_WT20)	06:55		07:17 (SAM_WT03)	05:58		06:29 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:05	12	09:25 (SAM_WT11)	17:58	33	09:17 (SAM_WT06)	18:47	37	18:22 (KLZ_WT12)	20:38	5	07:22 (SAM_WT03)	21:27	19	19:30 (KLZ_WT04)	22:02	91	20:02 (KLZ_WT04)
15	08:44		09:12 (SAM_WT04)	08:00		08:43 (SAM_WT06)	07:02		17:45 (KLZ_WT20)	06:52		07:15 (SAM_WT03)	05:56		06:27 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:06	14	09:26 (SAM_WT11)	18:00	34	09:17 (SAM_WT06)	18:49	35	18:24 (KLZ_WT12)	20:40	7	07:22 (SAM_WT03)	21:28	33	19:35 (KLZ_WT04)	22:02	94	20:03 (KLZ_WT04)
16	08:43		09:11 (SAM_WT04)	07:58		08:43 (SAM_WT06)	06:59		17:53 (KLZ_WT06)	06:50		07:13 (SAM_WT03)	05:55		06:26 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:08	15	09:26 (SAM_WT11)	18:02	34	09:17 (SAM_WT06)	18:50	28	18:26 (KLZ_WT12)	20:42	8	07:21 (SAM_WT03)	21:30	40	19:38 (KLZ_WT04)	22:03	95	20:03 (KLZ_WT04)
17	08:42		09:10 (SAM_WT04)	07:56		08:43 (SAM_WT06)	06:57		17:55 (KLZ_WT06)	06:48		07:12 (SAM_WT03)	05:53		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:09	17	09:27 (SAM_WT11)	18:03	34	09:17 (SAM_WT06)	18:52	21	18:25 (KLZ_WT12)	20:43	8	07:20 (SAM_WT03)	21:31	47	19:39 (KLZ_WT04)	22:03	94	20:03 (KLZ_WT04)
18	08:41		09:09 (SAM_WT04)	07:55		08:43 (SAM_WT06)	06:55		18:13 (KLZ_WT12)	06:46		07:13 (SAM_WT03)	05:52		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:11	18	09:27 (SAM_WT11)	18:05	34	09:17 (SAM_WT06)	18:54	11	18:24 (KLZ_WT12)	20:45	5	07:18 (SAM_WT03)	21:33	52	19:41 (KLZ_WT04)	22:03	95	20:04 (KLZ_WT04)
19	08:40		09:08 (SAM_WT11)	07:53		08:44 (SAM_WT06)	06:53		18:15 (KLZ_WT12)	06:44			05:51		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:12	19	09:27 (SAM_WT11)	18:07	32	09:16 (SAM_WT06)	18:55	9	18:31 (EVE_WT01)	20:47			21:34	56	19:43 (KLZ_WT04)	22:04	96	20:04 (KLZ_WT04)
20	08:39		09:07 (SAM_WT11)	07:51		08:44 (SAM_WT06)	06:50		18:29 (EVE_WT01)	06:42			05:49		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:14	21	09:28 (SAM_WT11)	18:09	32	09:16 (SAM_WT06)	18:57	3	18:32 (EVE_WT01)	20:48			21:35	60	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
21	08:38		09:05 (SAM_WT11)	07:49		08:45 (SAM_WT06)	06:48		18:27 (EVE_WT01)	06:40			05:48		06:22 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:16	22	09:27 (SAM_WT11)	18:11	30	09:15 (SAM_WT06)	18:59	6	18:33 (EVE_WT01)	20:50			21:37	63	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
22	08:37		09:05 (SAM_WT11)	07:47		08:45 (SAM_WT06)	06:46		18:27 (EVE_WT01)	06:38		07:01 (SAM_WT01)	05:47		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:17	23	09:28 (SAM_WT11)	18:12	29	09:14 (SAM_WT06)	19:00	8	18:35 (EVE_WT01)	20:52	2	07:03 (SAM_WT01)	21:38	66	19:47 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
23	08:36		09:06 (SAM_WT11)	07:45		08:46 (SAM_WT06)	06:43		18:28 (EVE_WT01)	06:36		06:59 (SAM_WT01)	05:45		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:19	22	09:28 (SAM_WT11)	18:14	27	09:13 (SAM_WT06)	19:02	9	18:37 (EVE_WT01)	20:53	2	07:01 (SAM_WT01)	21:40	68	19:48 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
24	08:35		09:06 (SAM_WT11)	07:43		08:48 (SAM_WT06)	06:41		18:28 (EVE_WT01)	06:34		06:57 (SAM_WT01)	05:44		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:21	21	09:27 (SAM_WT11)	18:16	23	09:11 (SAM_WT06)	19:04	10	18:38 (EVE_WT01)	20:55	2	06:59 (SAM_WT01)	21:41	71	19:49 (KLZ_WT04)	22:05	96	20:05 (KLZ_WT04)
25	08:34		09:07 (SAM_WT11)	07:40		08:49 (SAM_WT06)	06:39		18:30 (EVE_WT01)	06:32			05:43		06:22 (KLZ_WT01)	05:31		06:00 (SAM_WT10)
	17:22	20	09:27 (SAM_WT11)	18:18	25	17:52 (KLZ_WT20)	19:05	6	18:36 (EVE_WT01)	20:56			21:42	72	19:50 (KLZ_WT04)	22:05	95	20:05 (KLZ_WT04)
26	08:32		09:09 (SAM_WT11)	07:38		08:51 (SAM_WT06)	06:37		18:15 (KLZ_WT05)	06:30			05:42		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:24	18	09:27 (SAM_WT11)	18:19	24	17:54 (KLZ_WT13)	19:07	7	18:22 (KLZ_WT05)	20:58			21:43	74	19:51 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
27	08:31		09:09 (SAM_WT11)	07:36		08:55 (SAM_WT06)	06:34		18:11 (KLZ_WT05)	06:28			05:41		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:26	16	09:25 (SAM_WT11)	18:21	21	17:56 (KLZ_WT13)	19:09	14	18:25 (KLZ_WT05)	21:00			21:45	75	19:52 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
28	08:30		09:11 (SAM_WT11)	07:34		17:41 (KLZ_WT20)	06:32		18:08 (KLZ_WT05)	06:26			05:40		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:27	14	09:25 (SAM_WT11)	18:23	16	17:57 (KLZ_WT13)	19:10	18	18:26 (KLZ_WT05)	21:01			21:46	75	19:52 (KLZ_WT04)	22:05	93	20:06 (KLZ_WT04)
29	08:28		09:13 (SAM_WT11)				07:30		19:06 (KLZ_WT05)	06:24			05:39		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:29	9	09:22 (SAM_WT11)				20:12	22	19:28 (KLZ_WT05)	21:03			21:47	77	19:53 (KLZ_WT04)	22:05	91	20:05 (KLZ_WT04)
30	08:27						07:28		19:05 (KLZ_WT05)	06:22			05:38		06:23 (KLZ_WT01)	05:33		06:03 (SAM_WT10)
	17:31						20:14	25	19:30 (KLZ_WT05)	21:05			21:48	78	19:55 (KLZ_WT04)	22:04	90	20:06 (KLZ_WT04)
31	08:25						07:25		07:48 (SWB_WT01_RP)				05:37		06:24 (KLZ_WT01)			
	17:33						20:15	29	19:31 (KLZ_WT05)				21:49	77	19:55 (KLZ_WT04)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		528			667			730			391			1116			2704	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,57			0,56			0,64			0,63			0,59			0,59	
Total reduction		0,14			0,16			0,24			0,28			0,26			0,25	
Total, real		73			110			173			111			294			689	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (SAM_WT10)	06:09			06:57		19:04 (KLZ_WT05)	07:44		18:19 (KLZ_WT20)	07:36		08:16 (SAM_WT06)	08:26		08:57 (SAM_WT04)
	22:04	92 20:06 (KLZ_WT04)	21:34			20:33	20	19:24 (KLZ_WT05)	19:25	35	18:58 (KLZ_WT12)	17:21	28	08:44 (SAM_WT06)	16:42	7	09:04 (SAM_WT04)
2	05:34	06:04 (SAM_WT10)	06:10			06:59		19:01 (KLZ_WT05)	07:46		08:14 (SAM_WT08)	07:38		08:17 (SAM_WT06)	08:27		08:59 (SAM_WT04)
	22:04	90 20:05 (KLZ_WT04)	21:32			20:31	23	19:24 (KLZ_WT05)	19:23	43	18:56 (KLZ_WT12)	17:19	27	08:44 (SAM_WT06)	16:41	6	09:05 (SAM_WT04)
3	05:35	06:05 (SAM_WT10)	06:12			07:00		07:26 (SAM_WT02)	07:48		08:12 (SAM_WT08)	07:40		08:17 (SAM_WT06)	08:29		09:00 (SAM_WT04)
	22:04	90 20:06 (KLZ_WT04)	21:30			20:29	32	19:26 (KLZ_WT05)	19:21	43	18:54 (KLZ_WT12)	17:17	25	08:42 (SAM_WT06)	16:41	12	10:09 (SAM_WT07)
4	05:36	06:06 (SAM_WT10)	06:13			07:02		07:27 (SAM_WT02)	07:49		08:14 (SAM_WT08)	07:42		08:19 (SAM_WT06)	08:30		09:02 (SAM_WT04)
	22:03	88 20:06 (KLZ_WT04)	21:29			20:27	31	19:25 (KLZ_WT05)	19:19	41	18:46 (KLZ_WT06)	17:16	22	08:41 (SAM_WT06)	16:40	14	10:12 (SAM_WT07)
5	05:37	06:06 (SAM_WT10)	06:15			07:03		07:29 (SAM_WT02)	07:51		08:16 (SAM_WT08)	07:43		08:21 (SAM_WT06)	08:31		09:03 (SAM_WT04)
	22:03	83 20:05 (KLZ_WT04)	21:27			20:24	32	19:26 (KLZ_WT05)	19:16	39	18:45 (KLZ_WT06)	17:14	18	08:39 (SAM_WT06)	16:40	15	10:13 (SAM_WT07)
6	05:37	06:07 (SAM_WT10)	06:16		06:44 (SAM_WT09)	07:05		07:30 (SAM_WT02)	07:52		08:17 (SAM_WT08)	07:45		08:23 (SAM_WT06)	08:33		09:59 (SAM_WT07)
	22:02	82 20:05 (KLZ_WT04)	21:25	4	06:48 (SAM_WT09)	20:22	31	19:26 (KLZ_WT05)	19:14	36	18:43 (KLZ_WT06)	17:12	14	08:37 (SAM_WT06)	16:39	16	10:15 (SAM_WT07)
7	05:38	06:08 (SAM_WT10)	06:18		06:46 (SAM_WT09)	07:06		18:57 (KLZ_WT05)	07:54		08:19 (SAM_WT08)	07:47		08:27 (SAM_WT06)	08:34		09:59 (SAM_WT07)
	22:02	82 20:05 (KLZ_WT04)	21:24	3	06:49 (SAM_WT09)	20:20	29	19:26 (KLZ_WT05)	19:12	34	18:43 (KLZ_WT20)	17:11	6	08:33 (SAM_WT06)	16:39	22	14:57 (KLZ_WT21)
8	05:39	06:09 (SAM_WT10)	06:19		06:47 (SAM_WT09)	07:08		18:55 (KLZ_WT05)	07:56		08:21 (SAM_WT08)	07:49			08:35		09:59 (SAM_WT07)
	22:01	81 20:05 (KLZ_WT04)	21:22	3	06:50 (SAM_WT09)	20:18	30	19:25 (KLZ_WT05)	19:10	32	18:43 (KLZ_WT20)	17:09			16:39	27	15:00 (KLZ_WT21)
9	05:40	06:10 (SAM_WT10)	06:21		06:48 (SAM_WT09)	07:10		18:56 (KLZ_WT05)	07:57		18:12 (KLZ_WT20)	07:50			08:36		09:58 (SAM_WT07)
	22:00	80 20:05 (KLZ_WT04)	21:20	1	06:49 (SAM_WT09)	20:15	29	19:25 (KLZ_WT05)	19:08	28	18:40 (EVE_WT02)	17:07			16:38	31	15:01 (KLZ_WT21)
10	05:41	06:11 (SAM_WT10)	06:23			07:11		07:36 (SWB_WT01_RP)	07:59		18:13 (KLZ_WT20)	07:52			08:37		09:58 (SAM_WT07)
	22:00	79 20:05 (KLZ_WT04)	21:18			20:13	32	19:24 (KLZ_WT05)	19:05	25	18:38 (EVE_WT02)	17:06			16:38	35	15:03 (KLZ_WT21)
11	05:42	06:32 (KLZ_WT01)	06:24			07:13		07:38 (SWB_WT01_RP)	08:01		18:13 (KLZ_WT20)	07:54			08:38		09:58 (SAM_WT07)
	21:59	78 20:04 (KLZ_WT04)	21:16			20:11	31	19:23 (KLZ_WT05)	19:03	23	18:36 (KLZ_WT13)	17:04			16:38	38	15:04 (KLZ_WT21)
12	05:43	06:32 (KLZ_WT01)	06:26			07:14		07:39 (SWB_WT01_RP)	08:02		18:13 (KLZ_WT20)	07:56			08:39		09:58 (SAM_WT07)
	21:58	78 20:04 (KLZ_WT04)	21:14			20:09	29	19:22 (KLZ_WT05)	19:01	20	18:33 (KLZ_WT13)	17:03			16:38	39	15:05 (KLZ_WT21)
13	05:44	06:32 (KLZ_WT01)	06:27			07:16		07:41 (SWB_WT01_RP)	08:04		18:14 (KLZ_WT20)	07:57		08:45 (SAM_WT11)	08:40		09:58 (SAM_WT07)
	21:57	78 20:04 (KLZ_WT04)	21:12			20:06	26	19:21 (KLZ_WT05)	18:59	17	18:31 (KLZ_WT13)	17:01	9	08:54 (SAM_WT11)	16:38	41	15:06 (KLZ_WT21)
14	05:45	06:32 (KLZ_WT01)	06:29			07:17		18:56 (KLZ_WT05)	08:06		18:15 (KLZ_WT20)	07:59		08:43 (SAM_WT11)	08:41		09:59 (SAM_WT07)
	21:56	77 20:03 (KLZ_WT04)	21:11			20:04	23	19:19 (KLZ_WT05)	18:57	14	18:29 (KLZ_WT13)	17:00	14	08:57 (SAM_WT11)	16:38	42	15:07 (KLZ_WT21)
15	05:46	06:32 (KLZ_WT01)	06:30			07:19		18:58 (KLZ_WT05)	08:07		09:25 (SAM_WT06)	08:01		08:42 (SAM_WT11)	08:42		09:59 (SAM_WT07)
	21:56	76 20:02 (KLZ_WT04)	21:09			20:02	19	19:17 (KLZ_WT05)	18:55	23	18:27 (KLZ_WT13)	16:58	16	08:58 (SAM_WT11)	16:38	43	15:07 (KLZ_WT21)
16	05:47	06:32 (KLZ_WT01)	06:32			07:21		18:59 (KLZ_WT05)	08:09		09:22 (SAM_WT06)	08:02		08:42 (SAM_WT11)	08:43		09:59 (SAM_WT07)
	21:55	75 20:02 (KLZ_WT04)	21:07			19:59	15	19:14 (KLZ_WT05)	18:52	23	18:24 (KLZ_WT20)	16:57	18	09:00 (SAM_WT11)	16:38	45	15:08 (KLZ_WT21)
17	05:49	06:31 (KLZ_WT01)	06:33			07:22		19:02 (KLZ_WT05)	08:11		09:20 (SAM_WT06)	08:04		08:41 (SAM_WT11)	08:44		10:00 (SAM_WT07)
	21:54	75 20:01 (KLZ_WT04)	21:05			19:57	9	19:11 (KLZ_WT05)	18:50	23	18:22 (KLZ_WT20)	16:56	20	09:01 (SAM_WT11)	16:38	44	15:09 (KLZ_WT21)
18	05:50	06:31 (KLZ_WT01)	06:35			07:24		19:18 (EVE_WT01)	08:12		09:18 (SAM_WT06)	08:06		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:52	73 20:00 (KLZ_WT04)	21:03			19:55	5	19:23 (EVE_WT01)	18:48	25	09:43 (SAM_WT06)	16:55	21	09:01 (SAM_WT11)	16:39	45	15:09 (KLZ_WT21)
19	05:51	06:31 (KLZ_WT01)	06:37		07:03 (SAM_WT01)	07:25		19:16 (EVE_WT01)	08:14		09:17 (SAM_WT06)	08:07		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:51	71 19:59 (KLZ_WT04)	21:01	2	07:05 (SAM_WT01)	19:53	10	19:26 (EVE_WT01)	18:46	28	09:45 (SAM_WT06)	16:53	22	09:02 (SAM_WT11)	16:39	46	15:10 (KLZ_WT21)
20	05:52	06:31 (KLZ_WT01)	06:38		07:05 (SAM_WT01)	07:27		19:15 (EVE_WT01)	08:16		09:16 (SAM_WT06)	08:09		08:40 (SAM_WT11)	08:46		10:01 (SAM_WT07)
	21:50	70 19:58 (KLZ_WT04)	20:59	2	07:07 (SAM_WT01)	19:50	9	19:24 (EVE_WT01)	18:44	30	09:46 (SAM_WT06)	16:52	23	09:03 (SAM_WT11)	16:39	46	15:11 (KLZ_WT21)
21	05:54	06:32 (KLZ_WT01)	06:40		07:06 (SAM_WT01)	07:28		19:13 (EVE_WT01)	08:17		09:15 (SAM_WT06)	08:11		08:41 (SAM_WT11)	08:47		10:01 (SAM_WT07)
	21:49	68 19:58 (KLZ_WT04)	20:57	1	07:07 (SAM_WT01)	19:48	8	19:21 (EVE_WT01)	18:42	31	09:46 (SAM_WT06)	16:51	22	09:03 (SAM_WT11)	16:40	46	15:11 (KLZ_WT21)
22	05:55	06:32 (KLZ_WT01)	06:41			07:30		19:13 (EVE_WT01)	08:19		09:14 (SAM_WT06)	08:12		08:43 (SAM_WT11)	08:47		10:02 (SAM_WT07)
	21:48	65 19:57 (KLZ_WT04)	20:55			19:46	7	19:20 (EVE_WT01)	18:40	32	09:46 (SAM_WT06)	16:50	21	09:04 (SAM_WT11)	16:40	46	15:12 (KLZ_WT21)
23	05:56	06:32 (KLZ_WT01)	06:43			07:32		19:12 (EVE_WT01)	08:21		09:14 (SAM_WT06)	08:14		08:44 (SAM_WT11)	08:48		10:02 (SAM_WT07)
	21:47	62 19:55 (KLZ_WT04)	20:52			19:43	5	19:17 (EVE_WT01)	18:38	33	09:47 (SAM_WT06)	16:49	19	09:03 (SAM_WT11)	16:41	46	15:12 (KLZ_WT21)
24	05:58	06:33 (KLZ_WT01)	06:44			07:33		18:59 (KLZ_WT12)	08:23		09:14 (SAM_WT06)	08:16		08:46 (SAM_WT04)	08:48		10:02 (SAM_WT07)
	21:45	58 19:54 (KLZ_WT04)	20:50			19:41	7	19:15 (EVE_WT01)	18:36	33	09:47 (SAM_WT06)	16:48	18	09:04 (SAM_WT11)	16:41	46	15:12 (KLZ_WT21)
25	05:59	06:34 (KLZ_WT01)	06:46		07:16 (SAM_WT03)	07:35		18:56 (KLZ_WT12)	07:24		08:14 (SAM_WT06)	08:17		08:48 (SAM_WT04)	08:48		10:04 (SAM_WT07)
	21:44	55 19:53 (KLZ_WT04)	20:48	5	07:21 (SAM_WT03)	19:39	10	19:06 (KLZ_WT12)	17:34	33	08:47 (SAM_WT06)	16:47	17	09:05 (SAM_WT11)	16:42	45	15:13 (KLZ_WT21)
26	06:00	06:34 (KLZ_WT01)	06:48		07:14 (SAM_WT03)	07:36		18:39 (KLZ_WT06)	07:26		08:14 (SAM_WT06)	08:19		08:49 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:43	51 19:51 (KLZ_WT04)	20:46	9	07:23 (SAM_WT03)	19:37	18	19:07 (KLZ_WT12)	17:32	33	08:47 (SAM_WT06)	16:46	15	09:04 (SAM_WT11)	16:43	44	15:13 (KLZ_WT21)
27	06:02	06:35 (KLZ_WT01)	06:49		07:15 (SAM_WT03)	07:38		18:36 (KLZ_WT06)	07:28		08:13 (SAM_WT06)	08:20		08:51 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:41	45 19:49 (KLZ_WT04)	20:44	8	07:23 (SAM_WT03)	19:34	26	19:08 (KLZ_WT12)	17:30	33	08:46 (SAM_WT06)	16:45	14	09:05 (SAM_WT11)	16:43	45	15:13 (KLZ_WT21)
28	06:03	06:37 (KLZ_WT01)	06:51		07:17 (SAM_WT03)	07:40		18:27 (KLZ_WT20)	07:30		08:13 (SAM_WT06)	08:22		08:53 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:40	37 19:47 (KLZ_WT04)	20:42	6	07:23 (SAM_WT03)	19:32	33	19:05 (KLZ_WT12)	17:28	33	08:46 (SAM_WT06)	16:44	12	09:05 (SAM_WT11)	16:44	43	15:13 (KLZ_WT21)
29	06:05	06:38 (KLZ_WT01)	06:52		07:18 (SAM_WT03)	07:41		18:23 (KLZ_WT20)	07:31		08:14 (SAM_WT06)	08:23		08:54 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:38	28 19:44 (KLZ_WT04)	20:40	5	07:23 (SAM_WT03)	19:30	36	19:03 (KLZ_WT12)	17:26	32	08:46 (SAM_WT06)	16:43	11	09:05 (SAM_WT11)	16:45	42	15:13 (KLZ_WT21)
30	06:06	19:28 (KLZ_WT04)	06:54		07:20 (SAM_WT03)	07:43		18:20 (KLZ_WT20)	07:33		08:14 (SAM_WT06)	08:25		08:56 (SAM_WT04)	08:50		10:06 (SAM_WT07)
	21:37	10 19:38 (KLZ_WT04)	20:38	14	19:21 (KLZ_WT05)	19:28	37	19:00 (KLZ_WT12)	17:25	32	08:46 (SAM_WT06)	16:43	9	09:05 (SAM_WT11)	16:46	41	15:14 (KLZ_WT21)
31	06:07		06:55		19:05 (KLZ_WT05)				07:35		08:15 (SAM_WT06)				08:50		10:07 (SAM_WT07)
	21:35		20:35	17	19:22 (KLZ_WT05)				17:23	30	08:45 (SAM_WT06)				16:47	39	15:14 (KLZ_WT21)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		2077		80			652			937			441			1097	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98		0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,59		0,64			0,63			0,60			0,54			0,64	
Total reduction		0,26		0,29			0,27			0,21			0,14			0,14	
Total, real		533		23			174			198			62			153	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:47 (SAM_WT07)	08:24		08:50 (SAM_WT11)	07:32		08:10 (SAM_WT06)	07:23		19:14 (KLZ_WT20)	06:20		06:44 (SAM_WT01)	05:36		
	16:48	71	16:01 (KLZ_WT21)	17:35	24	09:14 (SAM_WT11)	18:25	28	08:38 (SAM_WT06)	20:17	33	19:51 (EVE_WT01)	21:06	2	06:46 (SAM_WT01)	21:50		
2	08:50		09:48 (SAM_WT07)	08:22		08:48 (SAM_WT11)	07:30		08:09 (SAM_WT06)	07:21		19:16 (KLZ_WT20)	06:18		06:42 (SAM_WT01)	05:36		
	16:49	71	16:01 (KLZ_WT21)	17:36	26	09:14 (SAM_WT11)	18:26	31	08:40 (SAM_WT06)	20:19	31	19:53 (EVE_WT01)	21:08	8	20:26 (KLZ_WT05)	21:52		
3	08:49		09:49 (SAM_WT07)	08:21		08:48 (SAM_WT11)	07:28		08:08 (SAM_WT06)	07:19		19:19 (KLZ_WT20)	06:16		06:40 (SAM_WT01)	05:35		
	16:50	71	16:02 (KLZ_WT21)	17:38	25	09:13 (SAM_WT11)	18:28	33	08:41 (SAM_WT06)	20:20	28	19:55 (EVE_WT01)	21:09	14	20:29 (KLZ_WT05)	21:53		
4	08:49		09:48 (SAM_WT07)	08:19		08:49 (SAM_WT11)	07:26		08:07 (SAM_WT06)	07:16		19:36 (KLZ_WT06)	06:15		20:16 (KLZ_WT05)	05:34		
	16:51	71	16:02 (KLZ_WT21)	17:40	25	09:14 (SAM_WT11)	18:30	35	08:42 (SAM_WT06)	20:22	20	19:56 (EVE_WT01)	21:11	15	20:31 (KLZ_WT05)	21:54		
5	08:49		09:49 (SAM_WT07)	08:18		08:49 (SAM_WT11)	07:24		08:05 (SAM_WT06)	07:14		19:36 (KLZ_WT06)	06:13		20:14 (KLZ_WT05)	05:33		
	16:52	72	16:03 (KLZ_WT21)	17:42	24	09:13 (SAM_WT11)	18:32	37	08:42 (SAM_WT06)	20:24	18	19:54 (EVE_WT01)	21:13	18	20:32 (KLZ_WT05)	21:55		
6	08:49		09:49 (SAM_WT07)	08:16		08:49 (SAM_WT11)	07:21		08:04 (SAM_WT06)	07:12		07:34 (SWB_WT01_RP)	06:11		20:13 (KLZ_WT05)	05:33		
	16:54	72	16:03 (KLZ_WT21)	17:44	23	09:12 (SAM_WT11)	18:33	38	08:42 (SAM_WT06)	20:25	19	19:52 (KLZ_WT06)	21:14	20	20:33 (KLZ_WT05)	21:56		
7	08:48		09:50 (SAM_WT07)	08:14		08:50 (SAM_WT11)	07:19		08:04 (SAM_WT06)	07:10		07:32 (SWB_WT01_RP)	06:09		20:12 (KLZ_WT05)	05:32		
	16:55	72	16:04 (KLZ_WT21)	17:45	21	09:11 (SAM_WT11)	18:35	39	08:43 (SAM_WT06)	20:27	18	19:51 (KLZ_WT06)	21:16	22	20:34 (KLZ_WT05)	21:56		
8	08:48		09:50 (SAM_WT07)	08:13		08:52 (SAM_WT11)	07:17		08:03 (SAM_WT06)	07:08		07:30 (SWB_WT01_RP)	06:08		20:11 (KLZ_WT05)	05:32		
	16:56	72	16:04 (KLZ_WT21)	17:47	19	09:11 (SAM_WT11)	18:37	40	08:43 (SAM_WT06)	20:29	20	19:51 (KLZ_WT06)	21:17	23	20:34 (KLZ_WT05)	21:57		
9	08:47		09:51 (SAM_WT07)	08:11		08:53 (SAM_WT11)	07:15		08:02 (SAM_WT06)	07:05		07:28 (SWB_WT01_RP)	06:06		20:11 (KLZ_WT05)	05:31		
	16:57	72	16:05 (KLZ_WT21)	17:49	17	09:10 (SAM_WT11)	18:38	40	08:42 (SAM_WT06)	20:30	18	19:50 (KLZ_WT06)	21:19	24	20:35 (KLZ_WT05)	21:58		
10	08:47		09:51 (SAM_WT07)	08:09		08:55 (SAM_WT11)	07:13		08:02 (SAM_WT06)	07:03		19:38 (KLZ_WT06)	06:04		20:10 (KLZ_WT05)	05:31		
	16:59	74	16:06 (KLZ_WT21)	17:51	13	09:08 (SAM_WT11)	18:40	40	08:42 (SAM_WT06)	20:32	10	19:48 (KLZ_WT06)	21:21	25	20:35 (KLZ_WT05)	21:59		
11	08:46		09:51 (SAM_WT07)	08:08		08:58 (SAM_WT11)	07:10		08:02 (SAM_WT06)	07:01		19:39 (KLZ_WT06)	06:03		20:11 (KLZ_WT05)	05:30		
	17:00	73	16:06 (KLZ_WT21)	17:53	6	09:04 (SAM_WT11)	18:42	42	18:17 (KLZ_WT13)	20:33	5	19:44 (KLZ_WT06)	21:22	25	20:36 (KLZ_WT05)	22:00		
12	08:46		09:51 (SAM_WT07)	08:06			07:08		08:02 (SAM_WT06)	06:59			06:01		20:10 (KLZ_WT05)	05:30		
	17:02	73	16:06 (KLZ_WT21)	17:54			18:44	44	18:19 (KLZ_WT13)	20:35			21:24	26	20:36 (KLZ_WT05)	22:00		
13	08:45		09:53 (SAM_WT07)	08:04			07:06		08:02 (SAM_WT06)	06:57			05:59		06:25 (SAM_WT09)	05:30		
	17:03	72	16:07 (KLZ_WT21)	17:56			18:45	44	18:20 (KLZ_WT13)	20:37			21:25	26	20:36 (KLZ_WT05)	22:01		
14	08:44		09:53 (SAM_WT07)	08:02			07:04		08:02 (SAM_WT06)	06:55			05:58		06:23 (SAM_WT09)	05:30		
	17:05	73	16:07 (KLZ_WT21)	17:58			18:47	46	18:22 (KLZ_WT13)	20:38			21:27	28	20:36 (KLZ_WT05)	22:02		
15	08:44		09:53 (SAM_WT07)	08:00			07:02		07:24 (SAM_WT08)	06:52		07:15 (SAM_WT02)	05:56		06:22 (SAM_WT09)	05:30		
	17:06	73	16:08 (KLZ_WT21)	18:00			18:49	47	18:24 (KLZ_WT13)	20:40	2	07:17 (SAM_WT02)	21:28	28	20:36 (KLZ_WT05)	22:02		
16	08:43		09:54 (SAM_WT07)	07:58			06:59		07:22 (SAM_WT08)	06:50		07:13 (SAM_WT02)	05:55		06:21 (SAM_WT09)	05:29		
	17:08	72	16:08 (KLZ_WT21)	18:02			18:50	47	18:24 (KLZ_WT13)	20:42	4	07:17 (SAM_WT02)	21:30	29	20:36 (KLZ_WT05)	22:03		
17	08:42		09:55 (SAM_WT07)	07:56			06:57		07:19 (SAM_WT08)	06:48		07:11 (SAM_WT02)	05:53		06:19 (SAM_WT09)	05:29		
	17:09	71	16:08 (KLZ_WT21)	18:03			18:52	46	18:27 (KLZ_WT20)	20:43	5	07:16 (SAM_WT02)	21:31	27	20:35 (KLZ_WT05)	22:03		
18	08:41		09:55 (SAM_WT07)	07:55			06:55		07:17 (SAM_WT08)	06:46		07:09 (SAM_WT02)	05:52		20:12 (KLZ_WT05)	05:29		
	17:11	70	16:08 (KLZ_WT21)	18:05			18:54	50	18:29 (KLZ_WT20)	20:45	6	07:15 (SAM_WT02)	21:33	23	20:35 (KLZ_WT05)	22:03		
19	08:40		09:56 (SAM_WT07)	07:53			06:53		07:15 (SAM_WT08)	06:44		07:10 (SAM_WT02)	05:51		20:12 (KLZ_WT05)	05:29		
	17:12	69	16:09 (KLZ_WT21)	18:07			18:55	52	18:31 (KLZ_WT20)	20:47	2	07:12 (SAM_WT02)	21:34	23	20:35 (KLZ_WT05)	22:04		
20	08:39		09:07 (SAM_WT04)	07:51			06:50		07:13 (SAM_WT08)	06:42		07:05 (SWB_WT02_RP)	05:49		20:13 (KLZ_WT05)	05:29		
	17:14	69	16:09 (KLZ_WT21)	18:09			18:57	52	18:32 (KLZ_WT20)	20:48	1	07:06 (SWB_WT02_RP)	21:35	21	20:34 (KLZ_WT05)	22:04		
21	08:38		09:05 (SAM_WT04)	07:49			06:48		07:13 (SAM_WT08)	06:40		07:03 (SWB_WT02_RP)	05:48		20:13 (KLZ_WT05)	05:30		
	17:16	70	16:08 (KLZ_WT21)	18:11			18:59	46	18:33 (KLZ_WT20)	20:50	2	07:05 (SWB_WT02_RP)	21:37	20	20:33 (KLZ_WT05)	22:04		
22	08:37		09:04 (SAM_WT04)	07:47			06:46		07:15 (SAM_WT08)	06:38			05:47		20:14 (KLZ_WT05)	05:30		
	17:17	70	16:08 (KLZ_WT21)	18:12			19:00	38	18:35 (KLZ_WT20)	20:52			21:38	18	20:32 (KLZ_WT05)	22:05		
23	08:36		09:03 (SAM_WT04)	07:45			06:43		18:13 (KLZ_WT20)	06:36		06:59 (SAM_WT03)	05:45		20:16 (KLZ_WT05)	05:30		
	17:19	69	16:08 (KLZ_WT21)	18:14			19:02	24	18:37 (KLZ_WT20)	20:53	1	07:00 (SAM_WT03)	21:39	16	20:32 (KLZ_WT05)	22:05		
24	08:35		09:01 (SAM_WT04)	07:43			06:41		18:12 (KLZ_WT20)	06:34		06:57 (SAM_WT03)	05:44		20:17 (KLZ_WT05)	05:30		
	17:21	68	16:07 (KLZ_WT21)	18:16			19:04	26	18:38 (KLZ_WT20)	20:55	3	07:00 (SAM_WT03)	21:41	14	20:31 (KLZ_WT05)	22:05		
25	08:34		09:00 (SAM_WT04)	07:40			06:39		18:11 (KLZ_WT20)	06:32		06:55 (SAM_WT03)	05:43		20:18 (KLZ_WT05)	05:31		
	17:22	66	16:07 (KLZ_WT21)	18:18			19:05	29	18:40 (KLZ_WT20)	20:56	5	07:00 (SAM_WT03)	21:42	12	20:30 (KLZ_WT05)	22:05		
26	08:32		08:59 (SAM_WT04)	07:38		08:18 (SAM_WT06)	06:37		18:12 (KLZ_WT20)	06:30		06:53 (SAM_WT03)	05:42		20:20 (KLZ_WT05)	05:31		
	17:24	63	16:07 (KLZ_WT21)	18:19	15	08:33 (SAM_WT06)	19:07	29	18:41 (KLZ_WT20)	20:58	7	07:00 (SAM_WT03)	21:43	8	20:28 (KLZ_WT05)	22:05		
27	08:31		08:57 (SAM_WT04)	07:36		08:15 (SAM_WT06)	06:34		18:12 (KLZ_WT20)	06:28		06:51 (SAM_WT03)	05:41		20:22 (KLZ_WT05)	05:31		
	17:26	60	16:06 (KLZ_WT21)	18:21	21	08:36 (SAM_WT06)	19:09	32	18:44 (KLZ_WT12)	21:00	8	06:59 (SAM_WT03)	21:45	4	20:26 (KLZ_WT05)	22:05		
28	08:30		08:56 (SAM_WT04)	07:34		08:12 (SAM_WT06)	06:32		18:11 (KLZ_WT20)	06:26		06:49 (SAM_WT03)	05:40			05:32		
	17:27	53	16:05 (KLZ_WT21)	18:23	25	08:37 (SAM_WT06)	19:10	34	18:45 (KLZ_WT12)	21:01	9	06:58 (SAM_WT03)	21:46			22:05		
29	08:28		08:54 (SAM_WT11)				07:30		19:12 (KLZ_WT20)	06:24		06:51 (SAM_WT03)	05:39			05:32		
	17:29	43	16:03 (KLZ_WT21)				20:12	35	19:47 (KLZ_WT12)	21:03	6	06:57 (SAM_WT03)	21:47			22:05		
30	08:27		08:53 (SAM_WT11)				07:28		19:12 (KLZ_WT20)	06:22			05:38			05:33		
	17:31	36	16:02 (KLZ_WT21)				20:14	36	19:49 (EVE_WT01)	21:05			21:48			22:04		
31	08:25		08:51 (SAM_WT11)				07:25		19:14 (KLZ_WT20)				05:37					
	17:33	30	15:58 (KLZ_WT21)				20:15	34	19:50 (EVE_WT01)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2061			284			1194			281			519				
Sun reduction		0,25			0,30			0,38			0,46			0,46				
Oper. time red.		0,98			0,98			0,98			0,98			0,98				
Wind dir. red.		0,63			0,55			0,58			0,62			0,56				
Total reduction		0,15			0,16			0,22			0,28			0,25				
Total, real		315			46			258			79			129				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		20:21 (KLZ_WT05)	06:57		19:39 (KLZ_WT06)	07:44		08:41 (SAM_WT06)	07:36		08:24 (SAM_WT11)	08:26		09:33 (SAM_WT07)
	22:04			21:34	25	20:46 (KLZ_WT05)	20:33	5	19:44 (KLZ_WT06)	19:25	43	18:58 (KLZ_WT13)	17:21	14	08:38 (SAM_WT11)	16:42	73	15:48 (KLZ_WT21)
2	05:34			06:10		20:20 (KLZ_WT05)	06:59		19:36 (KLZ_WT06)	07:46		08:41 (SAM_WT06)	07:38		08:23 (SAM_WT11)	08:27		09:34 (SAM_WT07)
	22:04			21:32	25	20:45 (KLZ_WT05)	20:31	10	19:46 (KLZ_WT06)	19:23	42	18:56 (KLZ_WT13)	17:19	17	08:40 (SAM_WT11)	16:41	73	15:49 (KLZ_WT21)
3	05:35			06:12		20:21 (KLZ_WT05)	07:00		07:26 (SWB_WT01_RP)	07:48		08:40 (SAM_WT06)	07:40		08:21 (SAM_WT11)	08:29		09:34 (SAM_WT07)
	22:04			21:30	25	20:46 (KLZ_WT05)	20:29	18	19:48 (KLZ_WT06)	19:21	40	09:20 (SAM_WT06)	17:17	19	08:40 (SAM_WT11)	16:41	72	15:48 (KLZ_WT21)
4	05:36			06:13		20:21 (KLZ_WT05)	07:02		07:27 (SWB_WT01_RP)	07:49		08:40 (SAM_WT06)	07:42		08:20 (SAM_WT11)	08:30		09:35 (SAM_WT07)
	22:03			21:29	24	20:45 (KLZ_WT05)	20:27	20	19:48 (KLZ_WT06)	19:19	40	09:20 (SAM_WT06)	17:16	21	08:41 (SAM_WT11)	16:40	72	15:49 (KLZ_WT21)
5	05:37			06:15		20:22 (KLZ_WT05)	07:03		07:29 (SWB_WT01_RP)	07:51		08:40 (SAM_WT06)	07:43		08:19 (SAM_WT11)	08:31		09:35 (SAM_WT07)
	22:03			21:27	23	20:45 (KLZ_WT05)	20:24	18	19:48 (KLZ_WT06)	19:16	40	09:20 (SAM_WT06)	17:14	23	08:42 (SAM_WT11)	16:40	72	15:49 (KLZ_WT21)
6	05:37			06:16		20:22 (KLZ_WT05)	07:05		07:30 (SWB_WT01_RP)	07:52		08:40 (SAM_WT06)	07:45		08:19 (SAM_WT11)	08:33		09:35 (SAM_WT07)
	22:02			21:25	21	20:43 (KLZ_WT05)	20:22	18	19:48 (KLZ_WT06)	19:14	39	09:19 (SAM_WT06)	17:12	24	08:43 (SAM_WT11)	16:39	72	15:49 (KLZ_WT21)
7	05:38			06:18		20:23 (KLZ_WT05)	07:06		19:31 (KLZ_WT06)	07:54		08:40 (SAM_WT06)	07:47		08:19 (SAM_WT11)	08:34		09:36 (SAM_WT07)
	22:02			21:23	20	20:43 (KLZ_WT05)	20:20	17	19:48 (KLZ_WT06)	19:12	38	09:18 (SAM_WT06)	17:11	25	08:44 (SAM_WT11)	16:39	72	15:50 (KLZ_WT21)
8	05:39			06:19		20:24 (KLZ_WT05)	07:08		19:30 (KLZ_WT06)	07:56		08:41 (SAM_WT06)	07:49		08:18 (SAM_WT11)	08:35		09:36 (SAM_WT07)
	22:01			21:22	17	20:41 (KLZ_WT05)	20:18	21	19:51 (EVE_WT01)	19:10	37	09:18 (SAM_WT06)	17:09	26	08:44 (SAM_WT11)	16:39	72	15:50 (KLZ_WT21)
9	05:40			06:21		20:25 (KLZ_WT05)	07:10		19:13 (KLZ_WT20)	07:57		08:40 (SAM_WT06)	07:50		08:19 (SAM_WT11)	08:36		09:37 (SAM_WT07)
	22:00			21:20	14	20:39 (KLZ_WT05)	20:15	28	19:49 (EVE_WT01)	19:08	36	09:16 (SAM_WT06)	17:07	25	08:44 (SAM_WT11)	16:38	71	15:50 (KLZ_WT21)
10	05:41			06:23		06:50 (SAM_WT01)	07:11		19:09 (KLZ_WT20)	07:59		08:41 (SAM_WT06)	07:52		08:21 (SAM_WT11)	08:37		09:37 (SAM_WT07)
	22:00			21:18	12	20:37 (KLZ_WT05)	20:13	31	19:46 (EVE_WT01)	19:05	35	09:16 (SAM_WT06)	17:06	24	08:45 (SAM_WT11)	16:38	71	15:50 (KLZ_WT21)
11	05:42			06:24		06:51 (SAM_WT01)	07:13		19:08 (KLZ_WT20)	08:01		08:42 (SAM_WT06)	07:54		08:23 (SAM_WT11)	08:38		09:37 (SAM_WT07)
	21:59			21:16	2	06:53 (SAM_WT01)	20:11	33	19:45 (EVE_WT01)	19:03	33	09:15 (SAM_WT06)	17:04	31	15:31 (KLZ_WT21)	16:38	71	15:51 (KLZ_WT21)
12	05:43			06:26		06:53 (SAM_WT01)	07:14		19:05 (KLZ_WT20)	08:02		08:43 (SAM_WT06)	07:56		08:24 (SAM_WT11)	08:39		09:38 (SAM_WT07)
	21:58			21:14	1	06:54 (SAM_WT01)	20:09	35	19:42 (EVE_WT01)	19:01	29	09:12 (SAM_WT06)	17:03	36	15:33 (KLZ_WT21)	16:38	71	15:51 (KLZ_WT21)
13	05:44			06:27			07:16		19:04 (KLZ_WT20)	08:04		08:44 (SAM_WT06)	07:57		08:26 (SAM_WT11)	08:40		09:38 (SAM_WT07)
	21:57			21:12			20:06	36	19:40 (EVE_WT01)	18:59	27	09:11 (SAM_WT06)	17:01	44	15:35 (KLZ_WT21)	16:38	70	15:51 (KLZ_WT21)
14	05:45			06:29		06:59 (SAM_WT03)	07:17		19:02 (KLZ_WT20)	08:06		08:46 (SAM_WT06)	07:59		08:28 (SAM_WT04)	08:41		09:39 (SAM_WT07)
	21:56			21:11	6	07:05 (SAM_WT03)	20:04	35	19:37 (KLZ_WT12)	18:57	23	09:09 (SAM_WT06)	17:00	54	15:37 (KLZ_WT21)	16:38	69	15:52 (KLZ_WT21)
15	05:46			06:30		06:57 (SAM_WT03)	07:19		19:02 (KLZ_WT20)	08:07		08:49 (SAM_WT06)	08:01		08:30 (SAM_WT04)	08:42		09:40 (SAM_WT07)
	21:55			21:09	9	07:06 (SAM_WT03)	20:02	33	19:35 (KLZ_WT12)	18:55	18	09:07 (SAM_WT06)	16:58	60	15:39 (KLZ_WT21)	16:38	69	15:52 (KLZ_WT21)
16	05:47			06:32		06:59 (SAM_WT03)	07:21		19:00 (KLZ_WT20)	08:09		08:51 (SAM_WT06)	08:02		08:32 (SAM_WT04)	08:43		09:40 (SAM_WT07)
	21:55			21:07	8	07:07 (SAM_WT03)	19:59	33	19:33 (KLZ_WT12)	18:52	11	09:02 (SAM_WT06)	16:57	63	15:40 (KLZ_WT21)	16:38	69	15:53 (KLZ_WT21)
17	05:49		20:30 (KLZ_WT05)	06:33		07:00 (SAM_WT03)	07:22		19:00 (KLZ_WT20)	08:11			08:04		08:34 (SAM_WT04)	08:44		09:41 (SAM_WT07)
	21:53	7	20:37 (KLZ_WT05)	21:05	7	07:07 (SAM_WT03)	19:57	30	19:31 (KLZ_WT12)	18:50			16:56	66	15:41 (KLZ_WT21)	16:38	68	15:53 (KLZ_WT21)
18	05:50		20:28 (KLZ_WT05)	06:35		07:02 (SAM_WT03)	07:24		18:59 (KLZ_WT20)	08:12			08:06		08:35 (SAM_WT04)	08:45		09:41 (SAM_WT07)
	21:52	11	20:39 (KLZ_WT05)	21:03	5	07:07 (SAM_WT03)	19:55	29	19:28 (KLZ_WT20)	18:48			16:55	68	15:41 (KLZ_WT21)	16:39	68	15:53 (KLZ_WT21)
19	05:51		20:27 (KLZ_WT05)	06:37		07:03 (SAM_WT03)	07:25		18:59 (KLZ_WT20)	08:14			08:07		08:37 (SAM_WT04)	08:45		09:42 (SAM_WT07)
	21:51	13	20:40 (KLZ_WT05)	21:01	3	07:06 (SAM_WT03)	19:53	27	19:26 (KLZ_WT20)	18:46			16:53	69	15:42 (KLZ_WT21)	16:39	69	15:54 (KLZ_WT21)
20	05:52		20:26 (KLZ_WT05)	06:38			07:27		18:59 (KLZ_WT20)	08:16			08:09		08:39 (SAM_WT04)	08:46		09:43 (SAM_WT07)
	21:50	15	20:41 (KLZ_WT05)	20:59			19:50	25	19:24 (KLZ_WT20)	18:44			16:52	70	15:43 (KLZ_WT21)	16:39	67	15:54 (KLZ_WT21)
21	05:54		20:26 (KLZ_WT05)	06:40		07:06 (SWB_WT02_RP)	07:28		09:00 (SAM_WT06)	08:17			08:11		08:41 (SAM_WT04)	08:47		09:43 (SAM_WT07)
	21:49	17	20:43 (KLZ_WT05)	20:57	1	07:07 (SWB_WT02_RP)	19:48	29	19:21 (KLZ_WT20)	18:42			16:51	70	15:44 (KLZ_WT21)	16:40	67	15:54 (KLZ_WT21)
22	05:55		20:24 (KLZ_WT05)	06:41		07:08 (SWB_WT02_RP)	07:30		07:59 (SAM_WT08)	08:19			08:12		08:43 (SAM_WT04)	08:47		09:44 (SAM_WT07)
	21:48	19	20:43 (KLZ_WT05)	20:55	2	07:10 (SWB_WT02_RP)	19:46	45	19:20 (KLZ_WT20)	18:40			16:50	69	15:45 (KLZ_WT21)	16:40	67	15:55 (KLZ_WT21)
23	05:56		20:23 (KLZ_WT05)	06:43		07:09 (SWB_WT02_RP)	07:32		07:56 (SAM_WT08)	08:21			08:14		09:32 (SAM_WT07)	08:48		09:44 (SAM_WT07)
	21:47	21	20:44 (KLZ_WT05)	20:52	1	07:10 (SWB_WT02_RP)	19:43	52	19:17 (KLZ_WT20)	18:38			16:49	69	15:45 (KLZ_WT21)	16:41	67	15:55 (KLZ_WT21)
24	05:58		20:22 (KLZ_WT05)	06:44		07:14 (SAM_WT02)	07:33		07:58 (SAM_WT08)	08:23			08:16		09:32 (SAM_WT07)	08:48		09:44 (SAM_WT07)
	21:45	22	20:44 (KLZ_WT05)	20:50	3	07:17 (SAM_WT02)	19:41	51	19:15 (KLZ_WT20)	18:36			16:48	70	15:45 (KLZ_WT21)	16:41	67	15:55 (KLZ_WT21)
25	05:59		20:23 (KLZ_WT05)	06:46		07:12 (SAM_WT02)	07:35		07:59 (SAM_WT08)	07:24			08:17		09:33 (SAM_WT07)	08:48		09:45 (SAM_WT07)
	21:44	22	20:45 (KLZ_WT05)	20:48	6	07:18 (SAM_WT02)	19:39	51	19:12 (KLZ_WT20)	17:34			16:47	70	15:46 (KLZ_WT21)	16:42	68	15:57 (KLZ_WT21)
26	06:00		20:22 (KLZ_WT05)	06:48		07:14 (SAM_WT02)	07:36		08:01 (SAM_WT08)	07:26			08:19		09:32 (SAM_WT07)	08:49		09:45 (SAM_WT07)
	21:43	23	20:45 (KLZ_WT05)	20:46	5	07:19 (SAM_WT02)	19:37	47	19:10 (KLZ_WT20)	17:32			16:46	72	15:46 (KLZ_WT21)	16:43	68	15:57 (KLZ_WT21)
27	06:02		06:30 (SAM_WT09)	06:49		07:15 (SAM_WT02)	07:38		08:03 (SAM_WT08)	07:28			08:20		09:33 (SAM_WT07)	08:49		09:45 (SAM_WT07)
	21:41	29	20:46 (KLZ_WT05)	20:44	4	07:19 (SAM_WT02)	19:34	46	19:08 (KLZ_WT20)	17:30			16:45	72	15:47 (KLZ_WT21)	16:43	68	15:57 (KLZ_WT21)
28	06:03		06:32 (SAM_WT09)	06:51		07:17 (SAM_WT02)	07:40		08:04 (SAM_WT08)	07:30			08:22		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:40	27	20:46 (KLZ_WT05)	20:42	2	07:19 (SAM_WT02)	19:32	47	19:05 (KLZ_WT13)	17:28			16:44	73	15:47 (KLZ_WT21)	16:44	69	15:58 (KLZ_WT21)
29	06:05		06:33 (SAM_WT09)	06:52			07:41		08:43 (SAM_WT06)	07:31			08:23		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:38	28	20:46 (KLZ_WT05)	20:40			19:30	45	19:03 (KLZ_WT13)	17:26			16:43	73	15:47 (KLZ_WT21)	16:45	69	15:58 (KLZ_WT21)
30	06:06		06:34 (SAM_WT09)	06:54			07:43		08:41 (SAM_WT06)	07:33			08:25		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:37	28	20:46 (KLZ_WT05)	20:38			19:28	45	19:00 (KLZ_WT13)	17:25			16:43	73	15:48 (KLZ_WT21)	16:46	70	15:59 (KLZ_WT21)
31	06:07		06:36 (SAM_WT09)	06:55						07:35		08:27 (SAM_WT11)				08:50		09:47 (SAM_WT07)
	21:35	27	20:47 (KLZ_WT05)	20:35						17:23	8	08:35 (SAM_WT11)				16:47	70	16:00 (KLZ_WT21)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		309			271			960			539			1490			2161	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,56			0,58			0,60			0,56			0,62			0,64	
Total reduction		0,24			0,26			0,26			0,20			0,16			0,14	
Total, real		76			71			245			106			240			302	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:22 (CBR_WT01)	07:32			07:23		07:47 (SAM_WT11)	06:20		17:25 (KLZ_WT21)	05:36		06:27 (SAM_WT06)
	16:48			17:35	37	17:05 (KLZ_WT16)	18:25			20:17	73	18:52 (KLZ_WT21)	21:06	113	20:38 (KLZ_WT13)	21:50	124	21:13 (EVE_WT01)
2	08:49			08:22		09:22 (CBR_WT01)	07:30			07:21		07:48 (SAM_WT11)	06:18		17:25 (KLZ_WT21)	05:36		06:28 (SAM_WT06)
	16:49			17:36	37	17:07 (KLZ_WT16)	18:26			20:19	75	18:54 (KLZ_WT21)	21:08	116	20:40 (KLZ_WT13)	21:52	120	21:13 (EVE_WT01)
3	08:49			08:21		09:22 (CBR_WT01)	07:28			07:19		07:47 (SAM_WT07)	06:16		17:25 (KLZ_WT21)	05:35		06:28 (SAM_WT06)
	16:50			17:38	35	17:07 (KLZ_WT16)	18:28			20:20	80	18:57 (KLZ_WT21)	21:09	118	20:41 (KLZ_WT13)	21:53	114	19:14 (KLZ_WT21)
4	08:49			08:19		09:23 (CBR_WT01)	07:26			07:17		07:45 (SAM_WT07)	06:15		17:26 (KLZ_WT21)	05:34		06:29 (SAM_WT06)
	16:51			17:40	33	09:56 (CBR_WT01)	18:30			20:22	89	18:59 (KLZ_WT21)	21:11	119	20:43 (KLZ_WT13)	21:54	111	19:13 (KLZ_WT21)
5	08:49			08:18		09:23 (CBR_WT01)	07:24			07:14		07:43 (SAM_WT07)	06:13		17:25 (KLZ_WT21)	05:33		06:30 (SAM_WT06)
	16:52			17:42	32	09:55 (CBR_WT01)	18:32			20:24	96	19:01 (KLZ_WT21)	21:13	121	20:44 (KLZ_WT13)	21:55	110	19:14 (KLZ_WT21)
6	08:49			08:16		09:24 (CBR_WT01)	07:21			07:12		07:40 (SAM_WT07)	06:11		17:25 (KLZ_WT21)	05:33		06:30 (SAM_WT06)
	16:54			17:44	30	09:54 (CBR_WT01)	18:33			20:25	102	19:01 (KLZ_WT21)	21:14	122	20:45 (KLZ_WT13)	21:56	108	19:13 (KLZ_WT21)
7	08:48			08:14		09:25 (CBR_WT01)	07:19			07:10		07:39 (SAM_WT07)	06:09		17:26 (KLZ_WT21)	05:32		06:31 (SAM_WT06)
	16:55			17:45	28	09:53 (CBR_WT01)	18:35			20:27	107	19:03 (KLZ_WT21)	21:16	123	20:47 (KLZ_WT13)	21:56	108	19:14 (KLZ_WT21)
8	08:48			08:13		09:26 (CBR_WT01)	07:17			07:08		07:38 (SAM_WT07)	06:08		17:26 (KLZ_WT21)	05:32		06:31 (SAM_WT06)
	16:56			17:47	27	09:53 (CBR_WT01)	18:37			20:29	113	19:05 (KLZ_WT21)	21:17	124	20:48 (KLZ_WT13)	21:57	106	19:13 (KLZ_WT21)
9	08:47			08:11		09:28 (CBR_WT01)	07:15			07:05		07:38 (SAM_WT07)	06:06		06:32 (SAM_WT06)	05:31		06:33 (SAM_WT06)
	16:58			17:49	23	09:51 (CBR_WT01)	18:39			20:30	116	19:06 (KLZ_WT21)	21:19	134	20:49 (KLZ_WT13)	21:58	103	19:14 (KLZ_WT21)
10	08:47			08:09		09:29 (CBR_WT01)	07:13			07:03		07:37 (SAM_WT07)	06:04		06:29 (SAM_WT02)	05:31		06:34 (SAM_WT06)
	16:59			17:51	20	09:49 (CBR_WT01)	18:40			20:32	119	19:07 (KLZ_WT21)	21:21	136	20:48 (KLZ_WT13)	21:59	101	19:14 (KLZ_WT21)
11	08:46		09:31 (CBR_WT01)	08:08		09:31 (CBR_WT01)	07:10			07:01		07:37 (SAM_WT07)	06:03		06:29 (SAM_WT06)	05:31		06:35 (SAM_WT06)
	17:00	4	09:35 (CBR_WT01)	17:53	16	09:47 (CBR_WT01)	18:42			20:33	121	19:08 (KLZ_WT21)	21:22	134	20:47 (KLZ_WT13)	22:00	99	19:14 (KLZ_WT21)
12	08:46		09:28 (CBR_WT01)	08:06		09:34 (CBR_WT01)	07:08			06:59		07:35 (SAM_WT07)	06:01		06:27 (SAM_WT06)	05:30		06:35 (SAM_WT06)
	17:02	10	09:38 (CBR_WT01)	17:54	9	09:43 (CBR_WT01)	18:44			20:35	124	19:08 (KLZ_WT21)	21:24	135	20:45 (KLZ_WT13)	22:00	99	19:14 (KLZ_WT21)
13	08:45		09:27 (CBR_WT01)	08:04			07:06		07:28 (SAM_WT04)	06:57		07:35 (SAM_WT07)	05:59		06:27 (SAM_WT06)	05:30		06:36 (SAM_WT06)
	17:03	14	09:41 (CBR_WT01)	17:56			18:45	1	07:29 (SAM_WT04)	20:37	127	19:09 (KLZ_WT21)	21:25	129	19:16 (KLZ_WT21)	22:01	96	19:14 (KLZ_WT21)
14	08:44		09:26 (CBR_WT01)	08:02		08:26 (SAM_WT05)	07:04		07:26 (SAM_WT04)	06:55		07:35 (SAM_WT07)	05:58		06:25 (SAM_WT06)	05:30		06:38 (SAM_WT06)
	17:05	17	09:43 (CBR_WT01)	17:58	4	08:30 (SAM_WT05)	18:47	4	07:30 (SAM_WT04)	20:38	129	19:10 (KLZ_WT21)	21:27	130	19:15 (KLZ_WT21)	22:01	94	19:14 (KLZ_WT21)
15	08:44		09:25 (CBR_WT01)	08:00		08:24 (SAM_WT05)	07:02		07:24 (SAM_WT04)	06:52		07:35 (SAM_WT07)	05:56		06:25 (SAM_WT06)	05:30		06:39 (SAM_WT06)
	17:06	19	09:44 (CBR_WT01)	18:00	8	08:32 (SAM_WT05)	18:49	7	07:31 (SAM_WT04)	20:40	130	19:11 (KLZ_WT21)	21:28	131	19:16 (KLZ_WT21)	22:02	91	19:14 (KLZ_WT21)
16	08:43		09:24 (CBR_WT01)	07:58		08:22 (SAM_WT05)	06:59		07:22 (SAM_WT04)	06:50		07:13 (SAM_WT08)	05:55		06:25 (SAM_WT06)	05:29		17:46 (KLZ_WT21)
	17:08	22	09:46 (CBR_WT01)	18:02	11	08:33 (SAM_WT05)	18:50	10	07:32 (SAM_WT04)	20:42	134	19:12 (KLZ_WT21)	21:30	131	19:16 (KLZ_WT21)	22:03	88	19:14 (KLZ_WT21)
17	08:42		09:23 (CBR_WT01)	07:56		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT04)	06:48		07:11 (SAM_WT08)	05:53		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:09	24	09:47 (CBR_WT01)	18:03	14	08:34 (SAM_WT05)	18:52	12	07:31 (SAM_WT04)	20:43	135	19:12 (KLZ_WT21)	21:31	131	19:15 (KLZ_WT21)	22:03	88	19:15 (KLZ_WT21)
18	08:41		09:23 (CBR_WT01)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT04)	06:46		07:09 (SAM_WT08)	05:52		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:11	25	09:48 (CBR_WT01)	18:05	16	08:34 (SAM_WT05)	18:54	14	07:31 (SAM_WT04)	20:45	136	19:13 (KLZ_WT21)	21:33	132	21:03 (EVE_WT01)	22:03	88	19:15 (KLZ_WT21)
19	08:40		09:22 (CBR_WT01)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT04)	06:44		07:07 (SAM_WT08)	05:51		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:12	28	09:50 (CBR_WT01)	18:07	19	08:35 (SAM_WT05)	18:55	16	07:31 (SAM_WT04)	20:47	139	20:20 (EVE_WT02)	21:34	132	21:04 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
20	08:39		09:22 (CBR_WT01)	07:51		08:14 (SAM_WT05)	06:50		07:16 (SAM_WT04)	06:42		07:05 (SAM_WT08)	05:49		06:24 (SAM_WT06)	05:30		17:47 (KLZ_WT21)
	17:14	29	09:51 (CBR_WT01)	18:09	21	08:35 (SAM_WT05)	18:57	14	07:30 (SAM_WT04)	20:48	140	20:22 (EVE_WT02)	21:35	135	21:06 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
21	08:38		09:21 (CBR_WT01)	07:49		08:14 (SAM_WT05)	06:48		07:16 (SAM_WT04)	06:40		07:39 (SAM_WT07)	05:48		06:14 (SAM_WT03)	05:30		17:47 (KLZ_WT21)
	17:16	30	09:51 (CBR_WT01)	18:11	23	17:44 (KLZ_WT15)	18:59	11	07:27 (SAM_WT04)	20:50	133	20:23 (EVE_WT02)	21:37	137	21:06 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
22	08:37		09:21 (CBR_WT01)	07:47		08:14 (SAM_WT05)	06:46		07:18 (SAM_WT04)	06:38		07:40 (SAM_WT07)	05:47		06:13 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:17	31	09:52 (CBR_WT01)	18:12	25	17:46 (KLZ_WT15)	19:00	7	07:25 (SAM_WT04)	20:52	134	20:25 (EVE_WT02)	21:38	138	21:07 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
23	08:36		09:21 (CBR_WT01)	07:45		08:14 (SAM_WT05)	06:44			06:36		07:43 (SAM_WT07)	05:46		06:12 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:19	32	09:53 (CBR_WT01)	18:14	26	17:48 (KLZ_WT15)	19:02			20:53	130	20:26 (EVE_WT02)	21:39	138	21:09 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
24	08:35		09:20 (CBR_WT01)	07:43		08:15 (SAM_WT05)	06:41		07:03 (SAM_WT11)	06:34		07:48 (SAM_WT07)	05:44		06:11 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:21	33	09:53 (CBR_WT01)	18:16	25	17:50 (KLZ_WT15)	19:04	4	07:07 (SAM_WT11)	20:55	121	20:28 (EVE_WT02)	21:41	137	21:10 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
25	08:34		09:20 (CBR_WT01)	07:40		08:16 (SAM_WT05)	06:39		07:01 (SAM_WT11)	06:32		17:26 (KLZ_WT21)	05:43		06:24 (SAM_WT06)	05:31		17:49 (KLZ_WT21)
	17:22	34	09:54 (CBR_WT01)	18:18	21	17:50 (KLZ_WT15)	19:05	7	07:08 (SAM_WT11)	20:56	121	20:29 (EVE_WT02)	21:42	136	21:11 (EVE_WT01)	22:05	88	19:17 (KLZ_WT21)
26	08:32		09:21 (CBR_WT01)	07:38		08:17 (SAM_WT05)	06:37		06:59 (SAM_WT11)	06:30		17:26 (KLZ_WT21)	05:42		06:24 (SAM_WT06)	05:31		17:48 (KLZ_WT21)
	17:24	34	09:55 (CBR_WT01)	18:19	14	08:31 (SAM_WT05)	19:07	10	07:09 (SAM_WT11)	20:58	118	20:27 (EVE_WT02)	21:43	135	21:12 (EVE_WT01)	22:05	89	19:17 (KLZ_WT21)
27	08:31		09:20 (CBR_WT01)	07:36		08:20 (SAM_WT05)	06:34		06:57 (SAM_WT11)	06:28		17:26 (KLZ_WT21)	05:41		06:25 (SAM_WT06)	05:32		17:48 (KLZ_WT21)
	17:26	35	09:55 (CBR_WT01)	18:21	8	08:28 (SAM_WT05)	19:09	13	07:10 (SAM_WT11)	21:00	112	20:24 (EVE_WT02)	21:45	135	21:13 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
28	08:30		09:21 (CBR_WT01)	07:34			06:32		06:54 (SAM_WT11)	06:26		17:25 (KLZ_WT21)	05:40		06:25 (SAM_WT06)	05:32		06:41 (SAM_WT06)
	17:28	35	09:56 (CBR_WT01)	18:23			19:10	25	17:32 (KLZ_WT21)	21:01	110	19:15 (KLZ_WT21)	21:46	134	21:14 (EVE_WT01)	22:05	92	19:17 (KLZ_WT21)
29	08:28		09:20 (CBR_WT01)				07:30		07:52 (SAM_WT11)	06:24		17:26 (KLZ_WT21)	05:39		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:29	35	09:55 (CBR_WT01)				20:12	45	18:41 (KLZ_WT21)	21:03	110	19:16 (KLZ_WT21)	21:47	134	21:16 (EVE_WT01)	22:05	95	19:17 (KLZ_WT21)
30	08:27		09:21 (CBR_WT01)				07:28		07:50 (SAM_WT11)	06:22		17:26 (KLZ_WT21)	05:38		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:31	35	09:56 (CBR_WT01)				20:14	58	18:46 (KLZ_WT21)	21:05	110	19:16 (KLZ_WT21)	21:48	131	21:15 (EVE_WT01)	22:04	98	19:18 (KLZ_WT21)
31	08:25		09:21 (CBR_WT01)				07:25		07:48 (SAM_WT11)				05:37		06:27 (SAM_WT06)			
	17:33	37	17:03 (KLZ_WT16)				20:15	67	18:50 (KLZ_WT21)				21:49	127	21:14 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	563			562			325			3484			4028			2926		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,53			0,55			0,62			0,63			0,64			0,64		
Total reduction	0,13			0,16			0,23			0,29			0,28			0,28		
Total, real	72			90			74			993			1142			805		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:39 (SAM_WT06)	06:09		06:38 (SAM_WT06)	06:57		07:36 (SAM_WT07)	07:44			07:36		08:58 (CBR_WT01)	08:26		09:13 (CBR_WT01)
	22:04	99	19:18 (KLZ_WT21)	21:34	134	20:56 (KLZ_WT13)	20:33	121	19:07 (KLZ_WT21)	19:25			17:21	22	09:20 (CBR_WT01)	16:42	4	09:17 (CBR_WT01)
2	05:34		06:38 (SAM_WT06)	06:10		06:40 (SAM_WT06)	06:59		07:35 (SAM_WT07)	07:46			07:38		08:57 (CBR_WT01)	08:27		
	22:04	101	19:18 (KLZ_WT21)	21:32	135	20:58 (KLZ_WT13)	20:31	119	19:05 (KLZ_WT21)	19:23			17:19	24	09:21 (CBR_WT01)	16:41		
3	05:35		06:38 (SAM_WT06)	06:12		06:40 (SAM_WT02)	07:00		07:36 (SAM_WT07)	07:48			07:40		08:55 (CBR_WT01)	08:29		
	22:04	103	19:19 (KLZ_WT21)	21:30	136	20:59 (KLZ_WT13)	20:29	116	19:04 (KLZ_WT21)	19:21			17:17	27	09:22 (CBR_WT01)	16:41		
4	05:36		06:38 (SAM_WT06)	06:13		06:43 (SAM_WT06)	07:02		07:35 (SAM_WT07)	07:49			07:42		08:54 (CBR_WT01)	08:30		
	22:03	105	19:19 (KLZ_WT21)	21:29	132	20:59 (KLZ_WT13)	20:27	113	19:02 (KLZ_WT21)	19:19			17:16	29	09:23 (CBR_WT01)	16:40		
5	05:37		06:37 (SAM_WT06)	06:15		17:36 (KLZ_WT21)	07:03		07:36 (SAM_WT07)	07:51			07:43		08:54 (CBR_WT01)	08:31		
	22:03	106	19:19 (KLZ_WT21)	21:27	123	20:58 (KLZ_WT13)	20:24	107	19:00 (KLZ_WT21)	19:16			17:14	30	09:24 (CBR_WT01)	16:40		
6	05:37		06:37 (SAM_WT06)	06:17		17:36 (KLZ_WT21)	07:05		07:37 (SAM_WT07)	07:53			07:45		08:53 (CBR_WT01)	08:33		
	22:02	108	19:20 (KLZ_WT21)	21:25	122	20:56 (KLZ_WT13)	20:22	102	18:58 (KLZ_WT21)	19:14			17:12	32	09:25 (CBR_WT01)	16:39		
7	05:38		06:36 (SAM_WT06)	06:18		17:36 (KLZ_WT21)	07:06		07:38 (SAM_WT07)	07:54			07:47		08:53 (CBR_WT01)	08:34		
	22:02	109	19:20 (KLZ_WT21)	21:23	121	20:55 (KLZ_WT13)	20:20	96	18:56 (KLZ_WT21)	19:12			17:11	33	09:26 (CBR_WT01)	16:39		
8	05:39		06:36 (SAM_WT06)	06:20		17:35 (KLZ_WT21)	07:08		07:39 (SAM_WT07)	07:56			07:49		08:53 (CBR_WT01)	08:35		
	22:01	112	19:21 (KLZ_WT21)	21:22	121	20:53 (KLZ_WT13)	20:18	89	18:53 (KLZ_WT21)	19:10			17:09	36	16:39 (KLZ_WT16)	16:39		
9	05:40		06:36 (SAM_WT06)	06:21		17:34 (KLZ_WT21)	07:10		07:41 (SAM_WT07)	07:57			07:50		08:52 (CBR_WT01)	08:36		
	22:00	113	19:21 (KLZ_WT21)	21:20	119	20:51 (KLZ_WT13)	20:15	80	18:51 (KLZ_WT21)	19:08			17:07	39	16:38 (KLZ_WT16)	16:38		
10	05:41		06:36 (SAM_WT06)	06:23		17:34 (KLZ_WT21)	07:11		07:41 (SAM_WT11)	07:59			07:52		08:52 (CBR_WT01)	08:37		
	22:00	119	21:20 (EVE_WT01)	21:18	117	20:50 (KLZ_WT13)	20:13	77	18:48 (KLZ_WT21)	19:05			17:06	38	16:36 (KLZ_WT16)	16:38		
11	05:42		06:36 (SAM_WT06)	06:24		17:34 (KLZ_WT21)	07:13		07:40 (SAM_WT11)	08:01			07:54		08:53 (CBR_WT01)	08:38		
	21:59	122	21:21 (EVE_WT01)	21:16	114	20:48 (KLZ_WT13)	20:11	73	18:45 (KLZ_WT21)	19:03			17:04	37	16:35 (KLZ_WT16)	16:38		
12	05:43		06:35 (SAM_WT06)	06:26		17:34 (KLZ_WT21)	07:14		07:39 (SAM_WT11)	08:02			07:56		08:52 (CBR_WT01)	08:39		
	21:58	125	21:22 (EVE_WT01)	21:14	112	20:46 (KLZ_WT13)	20:09	67	18:41 (KLZ_WT21)	19:01			17:03	35	09:27 (CBR_WT01)	16:38		
13	05:44		06:35 (SAM_WT06)	06:27		17:33 (KLZ_WT21)	07:16		07:41 (SAM_WT11)	08:04			07:57		08:52 (CBR_WT01)	08:40		
	21:57	130	21:23 (EVE_WT01)	21:12	111	19:24 (KLZ_WT21)	20:06	59	18:38 (KLZ_WT21)	18:59			17:01	35	09:27 (CBR_WT01)	16:38		
14	05:45		06:35 (SAM_WT06)	06:29		17:34 (KLZ_WT21)	07:17		07:42 (SAM_WT11)	08:06		08:55 (SAM_WT05)	07:59		08:53 (CBR_WT01)	08:41		
	21:56	131	21:24 (EVE_WT01)	21:11	110	19:24 (KLZ_WT21)	20:04	47	18:32 (KLZ_WT21)	18:57	2	08:57 (SAM_WT05)	17:00	35	09:28 (CBR_WT01)	16:38		
15	05:46		06:35 (SAM_WT06)	06:30		17:33 (KLZ_WT21)	07:19		07:44 (SAM_WT11)	08:07		08:51 (SAM_WT05)	08:01		08:53 (CBR_WT01)	08:42		
	21:55	134	21:24 (EVE_WT01)	21:09	110	19:23 (KLZ_WT21)	20:02	30	18:25 (KLZ_WT21)	18:55	11	09:02 (SAM_WT05)	16:59	35	09:28 (CBR_WT01)	16:38		
16	05:48		06:34 (SAM_WT06)	06:32		17:33 (KLZ_WT21)	07:21		07:45 (SAM_WT11)	08:09		08:48 (SAM_WT05)	08:02		08:54 (CBR_WT01)	08:43		
	21:54	134	21:23 (EVE_WT01)	21:07	115	20:32 (EVE_WT02)	19:59	13	07:58 (SAM_WT11)	18:52	15	09:03 (SAM_WT05)	16:57	34	09:28 (CBR_WT01)	16:38		
17	05:49		06:34 (SAM_WT06)	06:33		17:33 (KLZ_WT21)	07:22		07:47 (SAM_WT11)	08:11		08:47 (SAM_WT05)	08:04		08:54 (CBR_WT01)	08:44		
	21:53	136	21:22 (EVE_WT01)	21:05	119	20:34 (EVE_WT02)	19:57	11	07:58 (SAM_WT11)	18:50	24	18:22 (KLZ_WT15)	16:56	34	09:28 (CBR_WT01)	16:38		
18	05:50		06:34 (SAM_WT06)	06:35		17:33 (KLZ_WT21)	07:24		07:48 (SAM_WT11)	08:12		08:46 (SAM_WT05)	08:06		08:54 (CBR_WT01)	08:45		
	21:52	136	21:21 (EVE_WT01)	21:03	121	20:35 (EVE_WT02)	19:55	8	07:56 (SAM_WT11)	18:48	25	18:20 (KLZ_WT15)	16:55	33	09:27 (CBR_WT01)	16:39		
19	05:51		06:20 (SAM_WT03)	06:37		07:52 (SAM_WT07)	07:25		07:50 (SAM_WT11)	08:14		08:45 (SAM_WT05)	08:07		08:55 (CBR_WT01)	08:45		
	21:51	138	21:20 (EVE_WT01)	21:01	124	20:33 (EVE_WT02)	19:53	5	07:55 (SAM_WT11)	18:46	26	18:18 (KLZ_WT15)	16:53	32	09:27 (CBR_WT01)	16:39		
20	05:52		06:21 (SAM_WT03)	06:38		07:48 (SAM_WT07)	07:27		07:52 (SAM_WT11)	08:16		08:45 (SAM_WT05)	08:09		08:56 (CBR_WT01)	08:46		
	21:50	139	21:19 (EVE_WT01)	20:59	131	20:32 (EVE_WT02)	19:50	1	07:53 (SAM_WT11)	18:44	25	18:17 (KLZ_WT15)	16:52	31	09:27 (CBR_WT01)	16:39		
21	05:54		06:23 (SAM_WT03)	06:40		07:45 (SAM_WT07)	07:28		08:05 (SAM_WT04)	08:17		08:44 (SAM_WT05)	08:11		08:57 (CBR_WT01)	08:47		
	21:49	139	21:19 (EVE_WT01)	20:57	132	20:29 (EVE_WT02)	19:48	5	08:10 (SAM_WT04)	18:42	23	18:14 (KLZ_WT15)	16:51	30	09:27 (CBR_WT01)	16:40		
22	05:55		06:24 (SAM_WT03)	06:41		07:43 (SAM_WT07)	07:30		08:02 (SAM_WT04)	08:19		08:45 (SAM_WT05)	08:12		08:58 (CBR_WT01)	08:47		
	21:48	138	21:17 (EVE_WT01)	20:55	135	20:28 (EVE_WT02)	19:46	10	08:12 (SAM_WT04)	18:40	20	09:05 (SAM_WT05)	16:50	29	09:27 (CBR_WT01)	16:40		
23	05:56		06:25 (SAM_WT03)	06:43		07:09 (SAM_WT08)	07:32		08:00 (SAM_WT04)	08:21		08:47 (SAM_WT05)	08:14		08:58 (CBR_WT01)	08:48		
	21:47	135	21:16 (EVE_WT01)	20:52	141	20:25 (EVE_WT02)	19:44	13	08:13 (SAM_WT04)	18:38	18	09:05 (SAM_WT05)	16:49	28	09:26 (CBR_WT01)	16:41		
24	05:58		06:34 (SAM_WT06)	06:44		07:11 (SAM_WT08)	07:33		07:59 (SAM_WT04)	08:23		08:49 (SAM_WT05)	08:16		09:00 (CBR_WT01)	08:48		
	21:45	133	21:14 (EVE_WT01)	20:50	138	20:24 (EVE_WT02)	19:41	15	08:14 (SAM_WT04)	18:36	16	09:05 (SAM_WT05)	16:48	26	09:26 (CBR_WT01)	16:41		
25	05:59		06:34 (SAM_WT06)	06:46		07:12 (SAM_WT08)	07:35		07:59 (SAM_WT04)	07:24		07:51 (SAM_WT05)	08:17		09:01 (CBR_WT01)	08:48		
	21:44	134	21:14 (EVE_WT01)	20:48	137	19:16 (KLZ_WT21)	19:39	15	08:14 (SAM_WT04)	17:34	13	08:04 (SAM_WT05)	16:47	24	09:25 (CBR_WT01)	16:42		
26	06:00		06:34 (SAM_WT06)	06:48		07:14 (SAM_WT08)	07:36		08:01 (SAM_WT04)	07:26		07:52 (SAM_WT05)	08:19		09:02 (CBR_WT01)	08:49		
	21:43	132	19:26 (KLZ_WT21)	20:46	135	19:15 (KLZ_WT21)	19:37	13	08:14 (SAM_WT04)	17:32	10	08:02 (SAM_WT05)	16:46	22	09:24 (CBR_WT01)	16:43		
27	06:02		06:34 (SAM_WT06)	06:49		07:15 (SAM_WT08)	07:38		08:03 (SAM_WT04)	07:28		07:54 (SAM_WT05)	08:20		09:04 (CBR_WT01)	08:49		
	21:41	132	19:26 (KLZ_WT21)	20:44	134	19:14 (KLZ_WT21)	19:34	11	08:14 (SAM_WT04)	17:30	7	08:01 (SAM_WT05)	16:45	20	09:24 (CBR_WT01)	16:43		
28	06:03		06:36 (SAM_WT06)	06:51		07:37 (SAM_WT07)	07:40		08:04 (SAM_WT04)	07:30		07:56 (SAM_WT05)	08:22		09:06 (CBR_WT01)	08:49		
	21:40	130	19:26 (KLZ_WT21)	20:42	130	19:13 (KLZ_WT21)	19:32	8	08:12 (SAM_WT04)	17:28	3	07:59 (SAM_WT05)	16:44	17	09:23 (CBR_WT01)	16:44		
29	06:05		06:36 (SAM_WT06)	06:52		07:36 (SAM_WT07)	07:41		08:06 (SAM_WT04)	07:31			08:23		09:07 (CBR_WT01)	08:49		
	21:38	130	19:26 (KLZ_WT21)	20:40	129	19:11 (KLZ_WT21)	19:30	6	08:12 (SAM_WT04)	17:26			16:43	14	09:21 (CBR_WT01)	16:45		
30	06:06		06:36 (SAM_WT06)	06:54		07:36 (SAM_WT07)	07:43		08:07 (SAM_WT04)	07:33		09:03 (CBR_WT01)	08:25		09:10 (CBR_WT01)	08:49		
	21:37	130	19:26 (KLZ_WT21)	20:38	127	19:10 (KLZ_WT21)	19:28	2	08:09 (SAM_WT04)	17:25	11	09:14 (CBR_WT01)	16:43	10	09:20 (CBR_WT01)	16:46		
31	06:08		06:37 (SAM_WT06)	06:55		07:35 (SAM_WT07)				07:35		09:00 (CBR_WT01)				08:50		
	21:35	130	19:27 (KLZ_WT21)	20:35	125	19:08 (KLZ_WT21)				17:23	17	09:17 (CBR_WT01)				16:47		
Potential sun hours	498			451			380			333			269			248		
Total, worst case		3863			3890			1432			266			871			4	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,63			0,63			0,56			0,53			0,53	
Total reduction		0,28			0,29			0,27			0,20			0,14			0,12	
Total, real		1082			1117			381			53			121			0	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		13:30 (KLZ_WT11)	08:24		09:44 (CBR_WT01)	07:32		09:13 (CBR_WT01)	07:23		07:45 (SAM_WT04)	06:20		06:56 (SAM_WT11)	05:36		06:04 (SAM_WT02)
	16:48	48	15:53 (KLZ_WT10)	17:35	12	17:06 (KLZ_WT08)	18:25	59	10:12 (CBR_WT01)	20:17	8	07:53 (SAM_WT04)	21:06	23	20:38 (EVE_WT02)	21:50	67	21:19 (EVE_WT01)
2	08:49		13:31 (KLZ_WT11)	08:22		09:36 (CBR_WT01)	07:30		09:13 (CBR_WT01)	07:21		07:43 (SAM_WT04)	06:18		06:42 (SAM_WT08)	05:36		06:04 (SAM_WT02)
	16:49	47	15:54 (KLZ_WT10)	17:36	29	17:07 (KLZ_WT08)	18:26	59	10:12 (CBR_WT01)	20:19	12	07:55 (SAM_WT04)	21:08	26	20:40 (EVE_WT02)	21:52	72	21:20 (EVE_WT01)
3	08:49		13:32 (KLZ_WT11)	08:21		09:33 (CBR_WT01)	07:28		07:52 (SAM_WT05)	07:19		07:41 (SAM_WT04)	06:16		06:40 (SAM_WT08)	05:35		06:03 (SAM_WT02)
	16:50	46	15:54 (KLZ_WT10)	17:38	36	17:08 (KLZ_WT08)	18:28	68	10:11 (CBR_WT01)	20:20	14	07:55 (SAM_WT04)	21:09	26	20:41 (EVE_WT02)	21:53	76	21:21 (EVE_WT01)
4	08:49		13:33 (KLZ_WT11)	08:19		09:31 (CBR_WT01)	07:26		07:50 (SAM_WT05)	07:16		07:39 (SAM_WT04)	06:15		06:39 (SAM_WT08)	05:34		06:19 (SAM_WT07)
	16:51	45	15:55 (KLZ_WT10)	17:40	42	17:09 (KLZ_WT08)	18:30	71	10:10 (CBR_WT01)	20:22	17	07:56 (SAM_WT04)	21:11	25	20:43 (EVE_WT02)	21:54	77	21:21 (EVE_WT01)
5	08:49		13:35 (KLZ_WT11)	08:18		09:29 (CBR_WT01)	07:24		07:47 (SAM_WT05)	07:14		07:37 (SAM_WT04)	06:13		06:37 (SAM_WT08)	05:33		06:19 (SAM_WT07)
	16:52	44	15:56 (KLZ_WT10)	17:42	45	17:08 (KLZ_WT08)	18:32	73	10:08 (CBR_WT01)	20:24	19	07:56 (SAM_WT04)	21:13	21	20:44 (EVE_WT02)	21:55	79	21:23 (EVE_WT01)
6	08:49		13:37 (KLZ_WT11)	08:16		09:26 (CBR_WT01)	07:21		07:45 (SAM_WT05)	07:12		07:35 (SAM_WT04)	06:11		06:35 (SAM_WT08)	05:33		06:17 (SAM_WT07)
	16:54	40	15:56 (KLZ_WT10)	17:44	48	17:07 (KLZ_WT08)	18:33	75	10:07 (CBR_WT01)	20:25	20	07:55 (SAM_WT04)	21:14	13	20:44 (EVE_WT02)	21:55	83	21:23 (EVE_WT01)
7	08:48		13:40 (KLZ_WT11)	08:14		09:25 (CBR_WT01)	07:19		07:44 (SAM_WT05)	07:10		07:35 (SAM_WT04)	06:09		06:34 (SAM_WT08)	05:32		06:17 (SAM_WT07)
	16:55	37	15:57 (KLZ_WT10)	17:45	48	17:06 (KLZ_WT08)	18:35	75	10:06 (CBR_WT01)	20:27	20	07:55 (SAM_WT04)	21:16	8	06:42 (SAM_WT08)	21:56	84	21:24 (EVE_WT01)
8	08:48		13:44 (KLZ_WT11)	08:13		09:24 (CBR_WT01)	07:17		07:43 (SAM_WT05)	07:08		07:35 (SAM_WT04)	06:08		06:32 (SAM_WT08)	05:32		06:16 (SAM_WT07)
	16:56	29	15:57 (KLZ_WT10)	17:47	44	17:04 (KLZ_WT08)	18:37	74	10:04 (CBR_WT01)	20:28	19	07:54 (SAM_WT04)	21:17	9	06:41 (SAM_WT08)	21:57	87	21:25 (EVE_WT01)
9	08:47		15:32 (KLZ_WT10)	08:11		09:22 (CBR_WT01)	07:15		07:41 (SAM_WT05)	07:05		07:35 (SAM_WT04)	06:06		06:31 (SAM_WT08)	05:31		06:16 (SAM_WT07)
	16:58	26	15:58 (KLZ_WT10)	17:49	46	10:08 (CBR_WT01)	18:39	71	10:01 (CBR_WT01)	20:30	18	07:53 (SAM_WT04)	21:19	10	06:41 (SAM_WT08)	21:58	88	21:26 (EVE_WT01)
10	08:47		15:32 (KLZ_WT10)	08:09		09:21 (CBR_WT01)	07:13		07:41 (SAM_WT05)	07:03		07:36 (SAM_WT04)	06:04		06:29 (SWB_WT01_RP)	05:31		06:16 (SAM_WT07)
	16:59	26	15:58 (KLZ_WT10)	17:51	48	10:09 (CBR_WT01)	18:40	69	09:59 (CBR_WT01)	20:32	16	07:52 (SAM_WT04)	21:20	6	06:38 (SAM_WT08)	21:59	89	21:27 (EVE_WT01)
11	08:46		15:32 (KLZ_WT10)	08:08		09:20 (CBR_WT01)	07:10		07:41 (SAM_WT05)	07:01		07:37 (SAM_WT04)	06:03		06:28 (SWB_WT01_RP)	05:31		06:16 (SAM_WT07)
	17:00	26	15:58 (KLZ_WT10)	17:53	50	10:10 (CBR_WT01)	18:42	67	18:17 (KLZ_WT15)	20:33	12	07:49 (SAM_WT04)	21:22	1	06:29 (SWB_WT01_RP)	22:00	91	21:28 (EVE_WT01)
12	08:46		15:32 (KLZ_WT10)	08:06		09:19 (CBR_WT01)	07:08		07:41 (SAM_WT05)	06:59		07:39 (SAM_WT04)	06:01			05:30		06:16 (SAM_WT07)
	17:02	27	15:59 (KLZ_WT10)	17:54	52	10:11 (CBR_WT01)	18:44	64	18:19 (KLZ_WT15)	20:35	7	07:46 (SAM_WT04)	21:24			22:00	90	21:27 (EVE_WT01)
13	08:45		15:33 (KLZ_WT10)	08:04		09:18 (CBR_WT01)	07:06		07:40 (SAM_WT05)	06:57			05:59			05:30		06:16 (SAM_WT07)
	17:03	27	16:00 (KLZ_WT10)	17:56	54	10:12 (CBR_WT01)	18:45	59	18:20 (KLZ_WT15)	20:37			21:25			22:01	91	21:27 (EVE_WT01)
14	08:44		15:34 (KLZ_WT10)	08:02		09:17 (CBR_WT01)	07:04		07:40 (SAM_WT05)	06:55			05:58		20:56 (KLZ_WT13)	05:30		06:16 (SAM_WT07)
	17:05	27	16:32 (NES_WT01)	17:58	56	10:13 (CBR_WT01)	18:47	47	18:21 (KLZ_WT15)	20:38			21:27	1	20:57 (KLZ_WT13)	22:01	90	21:27 (EVE_WT01)
15	08:44		15:34 (KLZ_WT10)	08:00		09:16 (CBR_WT01)	07:02		07:41 (SAM_WT05)	06:52			05:56		20:28 (KLZ_WT21)	05:30		06:16 (SAM_WT07)
	17:06	28	16:34 (NES_WT01)	18:00	57	10:13 (CBR_WT01)	18:49	27	08:08 (SAM_WT05)	20:40			21:28	6	20:59 (KLZ_WT13)	22:02	90	21:26 (EVE_WT01)
16	08:43		15:35 (KLZ_WT10)	07:58		09:16 (CBR_WT01)	06:59		07:41 (SAM_WT05)	06:50		07:13 (SAM_WT11)	05:55		20:22 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:08	28	16:36 (NES_WT01)	18:02	58	10:14 (CBR_WT01)	18:50	26	08:07 (SAM_WT05)	20:42	3	07:16 (SAM_WT11)	21:30	20	21:00 (KLZ_WT13)	22:03	89	21:26 (EVE_WT01)
17	08:42		15:35 (KLZ_WT10)	07:56		09:15 (CBR_WT01)	06:57		07:41 (SAM_WT05)	06:48		07:11 (SAM_WT11)	05:53		20:19 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:09	28	16:37 (NES_WT01)	18:03	59	10:14 (CBR_WT01)	18:52	24	08:05 (SAM_WT05)	20:43	7	07:18 (SAM_WT11)	21:31	26	21:01 (KLZ_WT13)	22:03	87	21:02 (KLZ_WT21)
18	08:41		15:36 (KLZ_WT10)	07:55		09:15 (CBR_WT01)	06:55		07:43 (SAM_WT05)	06:46		07:09 (SAM_WT11)	05:52		20:17 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:11	24	16:00 (KLZ_WT10)	18:05	60	10:15 (CBR_WT01)	18:54	20	08:03 (SAM_WT05)	20:45	10	07:19 (SAM_WT11)	21:32	31	21:02 (KLZ_WT13)	22:03	87	21:02 (KLZ_WT21)
19	08:40		15:37 (KLZ_WT10)	07:53		09:14 (CBR_WT01)	06:53		07:44 (SAM_WT05)	06:44		07:07 (SAM_WT11)	05:51		20:15 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:12	23	16:00 (KLZ_WT10)	18:07	61	10:15 (CBR_WT01)	18:55	17	08:01 (SAM_WT05)	20:47	13	07:20 (SAM_WT11)	21:34	36	21:04 (KLZ_WT13)	22:04	88	21:03 (KLZ_WT21)
20	08:39		15:37 (KLZ_WT10)	07:51		09:14 (CBR_WT01)	06:50		07:47 (SAM_WT05)	06:42		07:05 (SAM_WT11)	05:49		20:14 (KLZ_WT21)	05:30		06:16 (SAM_WT07)
	17:14	22	15:59 (KLZ_WT10)	18:09	63	17:42 (KLZ_WT16)	18:57	11	07:58 (SAM_WT05)	20:48	16	07:21 (SAM_WT11)	21:35	40	21:06 (KLZ_WT13)	22:04	88	21:03 (KLZ_WT21)
21	08:38		15:38 (KLZ_WT10)	07:49		09:13 (CBR_WT01)	06:48			06:40		07:03 (SAM_WT11)	05:48		20:12 (KLZ_WT21)	05:30		06:16 (SAM_WT07)
	17:16	21	15:59 (KLZ_WT10)	18:11	64	17:44 (KLZ_WT16)	18:59			20:50	18	07:21 (SAM_WT11)	21:37	42	21:06 (KLZ_WT13)	22:04	88	21:03 (KLZ_WT21)
22	08:37		15:40 (KLZ_WT10)	07:47		09:13 (CBR_WT01)	06:46			06:38		07:01 (SAM_WT11)	05:47		20:11 (KLZ_WT21)	05:30		06:17 (SAM_WT07)
	17:17	19	15:59 (KLZ_WT10)	18:12	62	10:15 (CBR_WT01)	19:00			20:52	21	07:22 (SAM_WT11)	21:38	44	21:06 (KLZ_WT13)	22:05	88	21:04 (KLZ_WT21)
23	08:36		15:41 (KLZ_WT10)	07:45		09:13 (CBR_WT01)	06:43			06:36		06:59 (SAM_WT11)	05:46		20:10 (KLZ_WT21)	05:30		06:17 (SAM_WT07)
	17:19	18	15:59 (KLZ_WT10)	18:14	62	10:15 (CBR_WT01)	19:02			20:53	23	07:22 (SAM_WT11)	21:39	42	21:04 (KLZ_WT13)	22:05	88	21:04 (KLZ_WT21)
24	08:35		15:43 (KLZ_WT10)	07:43		09:13 (CBR_WT01)	06:41			06:34		06:57 (SAM_WT11)	05:44		20:10 (KLZ_WT21)	05:30		06:17 (SAM_WT07)
	17:21	14	15:57 (KLZ_WT10)	18:16	62	10:15 (CBR_WT01)	19:04			20:55	25	07:22 (SAM_WT11)	21:41	40	20:50 (KLZ_WT21)	22:05	87	21:03 (KLZ_WT21)
25	08:33		15:46 (KLZ_WT10)	07:40		09:13 (CBR_WT01)	06:39			06:32		06:55 (SAM_WT11)	05:43		20:09 (KLZ_WT21)	05:31		06:18 (SAM_WT07)
	17:22	10	15:56 (KLZ_WT10)	18:18	62	10:15 (CBR_WT01)	19:05			20:56	26	07:21 (SAM_WT11)	21:42	42	20:51 (KLZ_WT21)	22:05	87	21:04 (KLZ_WT21)
26	08:32		15:51 (KLZ_WT10)	07:38		09:13 (CBR_WT01)	06:37			06:30		06:54 (SAM_WT11)	05:42		20:08 (KLZ_WT21)	05:31		06:18 (SAM_WT07)
	17:24	1	15:52 (KLZ_WT10)	18:19	62	10:15 (CBR_WT01)	19:07			20:58	27	07:21 (SAM_WT11)	21:43	44	20:52 (KLZ_WT21)	22:05	88	21:28 (EVE_WT01)
27	08:31			07:36		09:12 (CBR_WT01)	06:34			06:28		06:54 (SAM_WT11)	05:41		20:08 (KLZ_WT21)	05:32		06:18 (SAM_WT07)
	17:26			18:21	61	10:13 (CBR_WT01)	19:09			21:00	26	07:20 (SAM_WT11)	21:45	45	20:53 (KLZ_WT21)	22:05	90	21:28 (EVE_WT01)
28	08:30			07:34		09:13 (CBR_WT01)	06:32			06:26		06:54 (SAM_WT11)	05:40		20:07 (KLZ_WT21)	05:32		06:19 (SAM_WT07)
	17:28			18:23	60	10:13 (CBR_WT01)	19:10			21:01	26	07:20 (SAM_WT11)	21:46	46	20:53 (KLZ_WT21)	22:05	90	21:30 (EVE_WT01)
29	08:28		16:58 (KLZ_WT08)				07:30			06:24		06:55 (SAM_WT11)	05:39		06:07 (SAM_WT02)	05:33		06:19 (SAM_WT07)
	17:29	1	16:59 (KLZ_WT08)				20:12			21:03	25	07:20 (SAM_WT11)	21:47	48	20:55 (KLZ_WT21)	22:05	90	21:30 (EVE_WT01)
30	08:27		16:57 (KLZ_WT08)				07:28			06:22		06:55 (SAM_WT11)	05:38		06:06 (SAM_WT02)	05:33		06:20 (SAM_WT07)
	17:31	4	17:01 (KLZ_WT08)				20:14			21:05	25	20:37 (EVE_WT02)	21:48	50	21:17 (EVE_WT01)	22:04	90	21:31 (EVE_WT01)
31	08:25		16:56 (KLZ_WT08)				07:25		07:48 (SAM_WT04)				05:37		06:05 (SAM_WT02)			
	17:33	7	17:03 (KLZ_WT08)				20:15	4	07:52 (SAM_WT04)				21:49	59	21:18 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		743			1463			1060			473			830			2579	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,72			0,55			0,55			0,64			0,58			0,60	
Total reduction		0,17			0,16			0,20			0,29			0,26			0,26	
Total, real		129			235			215			137			213			674	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:21 (SAM_WT07)	06:09			06:57		07:37 (SAM_WT04)	07:44		08:20 (SAM_WT05)	07:36		08:51 (CBR_WT01)	08:26		15:14 (KLZ_WT10)
	22:04	91	21:32 (EVE_WT01)	21:34			20:33	12	07:49 (SAM_WT04)	19:25	62	18:58 (KLZ_WT15)	17:21	48	09:39 (CBR_WT01)	16:42	26	15:40 (KLZ_WT10)
2	05:34		06:20 (SAM_WT07)	06:10		06:39 (SWB_WT01_RP)	06:59		07:34 (SAM_WT04)	07:46		08:20 (SAM_WT05)	07:38		08:52 (CBR_WT01)	08:27		15:15 (KLZ_WT10)
	22:04	90	21:31 (EVE_WT01)	21:32	1	06:40 (SWB_WT01_RP)	20:31	16	07:50 (SAM_WT04)	19:23	65	18:56 (KLZ_WT15)	17:19	46	09:38 (CBR_WT01)	16:41	26	15:41 (KLZ_WT10)
3	05:35		06:21 (SAM_WT07)	06:12		06:40 (SWB_WT01_RP)	07:00		07:33 (SAM_WT04)	07:48		08:19 (SAM_WT05)	07:40		08:53 (CBR_WT01)	08:29		15:15 (KLZ_WT10)
	22:03	89	21:31 (EVE_WT01)	21:30	9	06:50 (SAM_WT08)	20:29	18	07:51 (SAM_WT04)	19:21	68	18:54 (KLZ_WT15)	17:17	47	16:34 (KLZ_WT08)	16:41	26	15:41 (KLZ_WT10)
4	05:36		06:22 (SAM_WT07)	06:13		06:41 (SAM_WT08)	07:02		07:32 (SAM_WT04)	07:49		08:19 (SAM_WT05)	07:42		08:55 (CBR_WT01)	08:30		15:16 (KLZ_WT10)
	22:03	88	21:31 (EVE_WT01)	21:29	9	06:50 (SAM_WT08)	20:27	19	07:51 (SAM_WT04)	19:19	70	10:38 (CBR_WT01)	17:16	47	16:36 (KLZ_WT08)	16:40	26	15:42 (KLZ_WT10)
5	05:37		06:22 (SAM_WT07)	06:15		06:43 (SAM_WT08)	07:03		07:32 (SAM_WT04)	07:51		08:20 (SAM_WT05)	07:43		08:56 (CBR_WT01)	08:31		13:25 (KLZ_WT11)
	22:03	86	21:30 (EVE_WT01)	21:27	9	06:52 (SAM_WT08)	20:24	20	07:52 (SAM_WT04)	19:16	72	10:40 (CBR_WT01)	17:14	47	16:37 (KLZ_WT08)	16:40	36	15:42 (KLZ_WT10)
6	05:37		06:23 (SAM_WT07)	06:16		06:44 (SAM_WT08)	07:05		07:31 (SAM_WT04)	07:52		08:19 (SAM_WT05)	07:45		08:59 (CBR_WT01)	08:33		13:23 (KLZ_WT11)
	22:02	85	21:30 (EVE_WT01)	21:25	11	20:53 (EVE_WT02)	20:22	20	07:51 (SAM_WT04)	19:14	74	10:41 (CBR_WT01)	17:12	44	16:38 (KLZ_WT08)	16:39	40	15:42 (KLZ_WT10)
7	05:38		06:25 (SAM_WT07)	06:18		06:46 (SAM_WT08)	07:06		07:32 (SAM_WT04)	07:54		08:20 (SAM_WT05)	07:47		09:01 (CBR_WT01)	08:34		13:21 (KLZ_WT11)
	22:02	81	21:29 (EVE_WT01)	21:23	14	20:55 (EVE_WT02)	20:20	19	07:51 (SAM_WT04)	19:12	74	10:42 (CBR_WT01)	17:11	41	16:39 (KLZ_WT08)	16:39	44	15:42 (KLZ_WT10)
8	05:39		06:26 (SAM_WT07)	06:20		06:47 (SAM_WT08)	07:08		07:33 (SAM_WT04)	07:56		08:22 (SAM_WT05)	07:49		09:04 (CBR_WT01)	08:35		13:21 (KLZ_WT11)
	22:01	79	21:29 (EVE_WT01)	21:22	22	20:53 (EVE_WT02)	20:18	17	07:50 (SAM_WT04)	19:10	74	10:44 (CBR_WT01)	17:09	36	16:39 (KLZ_WT08)	16:39	45	15:43 (KLZ_WT10)
9	05:40		06:27 (SAM_WT07)	06:21		06:48 (SAM_WT08)	07:10		07:35 (SAM_WT04)	07:57		08:23 (SAM_WT05)	07:50		09:08 (CBR_WT01)	08:36		13:21 (KLZ_WT11)
	22:00	76	21:29 (EVE_WT01)	21:20	25	20:51 (EVE_WT02)	20:15	15	07:50 (SAM_WT04)	19:08	73	10:44 (CBR_WT01)	17:07	28	16:38 (KLZ_WT08)	16:38	46	15:43 (KLZ_WT10)
10	05:41		06:11 (SAM_WT02)	06:23		06:50 (SAM_WT08)	07:11		07:36 (SAM_WT04)	07:59		08:25 (SAM_WT05)	07:52		16:27 (KLZ_WT08)	08:37		13:20 (KLZ_WT11)
	22:00	74	21:28 (EVE_WT01)	21:18	25	20:50 (EVE_WT02)	20:13	12	07:48 (SAM_WT04)	19:05	70	10:45 (CBR_WT01)	17:06	9	16:36 (KLZ_WT08)	16:38	47	15:43 (KLZ_WT10)
11	05:42		06:12 (SAM_WT02)	06:24		07:05 (SAM_WT11)	07:13		07:38 (SAM_WT04)	08:01		08:29 (SAM_WT05)	07:54		16:27 (KLZ_WT08)	08:38		13:20 (KLZ_WT11)
	21:59	68	21:27 (EVE_WT01)	21:16	24	20:48 (EVE_WT02)	20:11	9	07:47 (SAM_WT04)	19:03	63	10:46 (CBR_WT01)	17:04	7	16:34 (KLZ_WT08)	16:38	48	15:43 (KLZ_WT10)
12	05:43		06:13 (SAM_WT02)	06:26		07:04 (SAM_WT11)	07:14		07:39 (SAM_WT04)	08:02		09:46 (CBR_WT01)	07:56		16:28 (KLZ_WT08)	08:39		13:20 (KLZ_WT11)
	21:58	62	21:27 (EVE_WT01)	21:14	24	20:46 (EVE_WT02)	20:09	5	07:44 (SAM_WT04)	19:01	59	10:45 (CBR_WT01)	17:03	4	16:32 (KLZ_WT08)	16:38	48	15:43 (KLZ_WT10)
13	05:44		06:14 (SAM_WT02)	06:27		07:03 (SAM_WT11)	07:16			08:04		09:46 (CBR_WT01)	07:57		16:30 (KLZ_WT08)	08:40		13:20 (KLZ_WT11)
	21:57	52	21:26 (EVE_WT01)	21:12	23	07:26 (SAM_WT11)	20:06			18:59	60	10:46 (CBR_WT01)	17:01	1	16:31 (KLZ_WT08)	16:38	50	15:44 (KLZ_WT10)
14	05:45		06:15 (SAM_WT02)	06:29		07:02 (SAM_WT11)	07:17			08:06		09:46 (CBR_WT01)	07:59			08:41		13:20 (KLZ_WT11)
	21:56	49	21:25 (EVE_WT01)	21:11	25	07:27 (SAM_WT11)	20:04			18:57	60	10:46 (CBR_WT01)	17:00			16:38	49	15:44 (KLZ_WT10)
15	05:46		20:16 (KLZ_WT21)	06:30		07:01 (SAM_WT11)	07:19			08:07		09:46 (CBR_WT01)	08:01			08:42		13:20 (KLZ_WT11)
	21:55	47	21:03 (KLZ_WT21)	21:09	26	07:27 (SAM_WT11)	20:02			18:55	61	10:47 (CBR_WT01)	16:59			16:38	49	15:44 (KLZ_WT10)
16	05:48		20:17 (KLZ_WT21)	06:32		07:01 (SAM_WT11)	07:21			08:09		09:44 (CBR_WT01)	08:02		15:23 (KLZ_WT10)	08:43		13:20 (KLZ_WT11)
	21:54	45	21:02 (KLZ_WT21)	21:07	27	07:28 (SAM_WT11)	19:59			18:52	62	10:46 (CBR_WT01)	16:57	2	15:25 (KLZ_WT10)	16:38	51	15:45 (KLZ_WT10)
17	05:49		20:18 (KLZ_WT21)	06:33		07:00 (SAM_WT11)	07:22			08:11		09:44 (CBR_WT01)	08:04		15:19 (KLZ_WT10)	08:44		13:21 (KLZ_WT11)
	21:53	44	21:02 (KLZ_WT21)	21:05	28	07:28 (SAM_WT11)	19:57			18:50	62	10:46 (CBR_WT01)	16:56	11	15:30 (KLZ_WT10)	16:38	51	15:46 (KLZ_WT10)
18	05:50		20:18 (KLZ_WT21)	06:35		07:02 (SAM_WT11)	07:24			08:12		09:44 (CBR_WT01)	08:06		15:17 (KLZ_WT10)	08:45		13:21 (KLZ_WT11)
	21:52	43	21:01 (KLZ_WT21)	21:03	26	07:28 (SAM_WT11)	19:55			18:48	63	10:47 (CBR_WT01)	16:55	14	15:31 (KLZ_WT10)	16:39	50	15:45 (KLZ_WT10)
19	05:51		20:19 (KLZ_WT21)	06:37		07:03 (SAM_WT11)	07:25			08:14		09:45 (CBR_WT01)	08:07		15:15 (KLZ_WT10)	08:45		13:21 (KLZ_WT11)
	21:51	41	21:00 (KLZ_WT21)	21:01	24	07:27 (SAM_WT11)	19:53			18:46	62	10:47 (CBR_WT01)	16:53	18	15:33 (KLZ_WT10)	16:39	51	15:46 (KLZ_WT10)
20	05:52		20:20 (KLZ_WT21)	06:38		07:05 (SAM_WT11)	07:27			08:16		09:45 (CBR_WT01)	08:09		15:15 (KLZ_WT10)	08:46		13:22 (KLZ_WT11)
	21:50	39	20:59 (KLZ_WT21)	20:59	22	07:27 (SAM_WT11)	19:50			18:44	64	18:17 (KLZ_WT16)	16:52	19	15:34 (KLZ_WT10)	16:39	51	15:47 (KLZ_WT10)
21	05:54		20:21 (KLZ_WT21)	06:40		07:06 (SAM_WT11)	07:28			08:17		09:44 (CBR_WT01)	08:11		15:14 (KLZ_WT10)	08:46		13:22 (KLZ_WT11)
	21:49	44	21:16 (KLZ_WT13)	20:57	20	07:26 (SAM_WT11)	19:48			18:42	65	18:14 (KLZ_WT16)	16:51	21	15:35 (KLZ_WT10)	16:40	51	15:47 (KLZ_WT10)
22	05:55		20:22 (KLZ_WT21)	06:41		07:08 (SAM_WT11)	07:30			08:19		09:44 (CBR_WT01)	08:12		15:14 (KLZ_WT10)	08:47		13:23 (KLZ_WT11)
	21:48	44	21:17 (KLZ_WT13)	20:55	18	07:26 (SAM_WT11)	19:46			18:40	63	18:12 (KLZ_WT16)	16:50	22	15:36 (KLZ_WT10)	16:40	51	15:48 (KLZ_WT10)
23	05:56		20:23 (KLZ_WT21)	06:43		07:09 (SAM_WT11)	07:32		08:32 (SAM_WT05)	08:21		09:45 (CBR_WT01)	08:14		15:13 (KLZ_WT10)	08:48		13:23 (KLZ_WT11)
	21:46	41	21:16 (KLZ_WT13)	20:52	16	07:25 (SAM_WT11)	19:43	9	08:41 (SAM_WT05)	18:38	60	10:45 (CBR_WT01)	16:49	23	15:36 (KLZ_WT10)	16:41	51	15:48 (KLZ_WT10)
24	05:58		20:24 (KLZ_WT21)	06:44		07:11 (SAM_WT11)	07:33		08:29 (SAM_WT05)	08:23		09:45 (CBR_WT01)	08:15		15:13 (KLZ_WT10)	08:48		13:23 (KLZ_WT11)
	21:45	38	21:14 (KLZ_WT13)	20:50	13	07:24 (SAM_WT11)	19:41	15	08:44 (SAM_WT05)	18:36	60	10:45 (CBR_WT01)	16:48	24	15:37 (KLZ_WT10)	16:41	51	15:48 (KLZ_WT10)
25	05:59		20:27 (KLZ_WT21)	06:46		07:12 (SAM_WT11)	07:35		08:26 (SAM_WT05)	07:24		08:46 (CBR_WT01)	08:17		15:13 (KLZ_WT10)	08:48		13:24 (KLZ_WT11)
	21:44	34	21:14 (KLZ_WT13)	20:48	10	07:22 (SAM_WT11)	19:39	19	08:45 (SAM_WT05)	17:34	59	09:45 (CBR_WT01)	16:47	28	16:15 (NES_WT01)	16:42	51	15:49 (KLZ_WT10)
26	06:00		20:28 (KLZ_WT21)	06:48		07:14 (SAM_WT11)	07:36		08:24 (SAM_WT05)	07:26		08:45 (CBR_WT01)	08:19		15:13 (KLZ_WT10)	08:49		13:25 (KLZ_WT11)
	21:42	30	21:12 (KLZ_WT13)	20:46	7	07:21 (SAM_WT11)	19:37	23	08:47 (SAM_WT05)	17:32	58	09:43 (CBR_WT01)	16:46	28	16:14 (NES_WT01)	16:43	50	15:49 (KLZ_WT10)
27	06:02		20:30 (KLZ_WT21)	06:49		07:15 (SAM_WT11)	07:38		08:23 (SAM_WT05)	07:28		08:46 (CBR_WT01)	08:20		15:13 (KLZ_WT10)	08:49		13:25 (KLZ_WT11)
	21:41	24	21:11 (KLZ_WT13)	20:44	2	07:17 (SAM_WT11)	19:34	25	08:48 (SAM_WT05)	17:30	57	09:43 (CBR_WT01)	16:45	28	16:13 (NES_WT01)	16:43	51	15:50 (KLZ_WT10)
28	06:03		20:34 (KLZ_WT21)	06:51			07:40		08:22 (SAM_WT05)	07:30		08:47 (CBR_WT01)	08:22		15:14 (KLZ_WT10)	08:49		13:26 (KLZ_WT11)
	21:40	15	21:10 (KLZ_WT13)	20:42			19:32	26	08:48 (SAM_WT05)	17:28	55	09:42 (CBR_WT01)	16:44	27	16:12 (NES_WT01)	16:44	50	15:50 (KLZ_WT10)
29	06:05		21:07 (KLZ_WT13)	06:52			07:41		08:21 (SAM_WT05)	07:31		08:48 (CBR_WT01)	08:23		15:13 (KLZ_WT10)	08:49		13:27 (KLZ_WT11)
	21:38	1	21:08 (KLZ_WT13)	20:40			19:30	40	10:24 (CBR_WT01)	17:26	53	09:41 (CBR_WT01)	16:43	27	15:40 (KLZ_WT10)	16:45	49	15:51 (KLZ_WT10)
30	06:06			06:54			07:43		08:20 (SAM_WT05)	07:33		08:49 (CBR_WT01)	08:25		15:14 (KLZ_WT10)	08:49		13:27 (KLZ_WT11)
	21:37			20:38			19:28	54	19:00 (KLZ_WT15)	17:25	52	09:41 (CBR_WT01)	16:43	27	15:41 (KLZ_WT10)	16:46	49	15:51 (KLZ_WT10)
31	06:08			06:55		07:39 (SAM_WT04)				07:35		08:50 (CBR_WT01)				08:49		13:28 (KLZ_WT11)
	21:35			20:35	8	07:47 (SAM_WT04)				17:23	50	09:40 (CBR_WT01)				16:47	50	15:52 (KLZ_WT10)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1600			468			393			1950			724			1414	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,58			0,64			0,59			0,54			0,64			0,71	
Total reduction		0,25			0,29			0,25			0,19			0,17			0,16	
Total, real		407			137			98			375			121			220	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	08:49	08:24		17:05 (NES_WT01)	07:32		13:53 (CBR_WT01)	07:23		08:19 (SAM_WT05)	06:20		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:48	17:35	1	17:06 (NES_WT01)	18:25	121	17:51 (KLZ_WT10)	20:17	195	16:35 (CBR_WT01)	21:06	110	20:38 (EVE_WT02)	21:50	47	20:50 (KLZ_WT21)
2	08:49	08:22			07:30		13:51 (CBR_WT01)	07:21		08:19 (SAM_WT05)	06:18		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:49	17:36			18:26	125	17:51 (KLZ_WT10)	20:19	194	16:35 (CBR_WT01)	21:08	106	20:40 (EVE_WT02)	21:51	47	20:51 (KLZ_WT21)
3	08:49	08:21			07:28		13:49 (CBR_WT01)	07:19		08:19 (SAM_WT05)	06:16		06:53 (SAM_WT04)	05:35		06:03 (SAM_WT08)
	16:50	17:38			18:28	127	17:50 (KLZ_WT10)	20:20	194	16:35 (CBR_WT01)	21:09	102	20:41 (EVE_WT02)	21:53	47	20:50 (KLZ_WT21)
4	08:49	08:19			07:26		13:47 (CBR_WT01)	07:16		08:19 (SAM_WT05)	06:15		06:53 (SAM_WT04)	05:34		06:02 (SAM_WT08)
	16:51	17:40			18:30	128	17:49 (KLZ_WT10)	20:22	194	16:35 (CBR_WT01)	21:11	96	16:17 (CBR_WT01)	21:54	49	20:50 (KLZ_WT21)
5	08:49	08:18			07:24		13:44 (CBR_WT01)	07:14		08:19 (SAM_WT05)	06:13		06:53 (SAM_WT04)	05:33		06:02 (SAM_WT08)
	16:52	17:42			18:32	124	17:46 (KLZ_WT10)	20:24	193	16:35 (CBR_WT01)	21:13	102	20:41 (KLZ_WT21)	21:55	49	20:50 (KLZ_WT21)
6	08:49	08:16			07:21		13:43 (CBR_WT01)	07:12		08:18 (SAM_WT05)	06:11		06:53 (SAM_WT04)	05:33		06:01 (SAM_WT08)
	16:54	17:44			18:33	116	17:32 (KLZ_WT11)	20:25	192	16:34 (CBR_WT01)	21:14	101	20:43 (KLZ_WT21)	21:55	49	20:49 (KLZ_WT21)
7	08:48	08:14			07:19		13:41 (CBR_WT01)	07:10		08:18 (SAM_WT05)	06:09		06:54 (SAM_WT04)	05:32		06:01 (SAM_WT08)
	16:55	17:45			18:35	115	17:30 (KLZ_WT11)	20:27	191	16:34 (CBR_WT01)	21:16	99	20:46 (KLZ_WT21)	21:56	48	20:49 (KLZ_WT21)
8	08:48	08:13			07:17		13:40 (CBR_WT01)	07:08		08:19 (SAM_WT05)	06:08		06:55 (SAM_WT04)	05:32		06:00 (SAM_WT08)
	16:56	17:47			18:37	110	17:26 (KLZ_WT11)	20:28	189	16:34 (CBR_WT01)	21:17	95	20:47 (KLZ_WT21)	21:57	48	20:48 (KLZ_WT21)
9	08:47	08:11			07:15		13:38 (CBR_WT01)	07:05		08:19 (SAM_WT05)	06:06		06:56 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:57	17:49			18:38	108	15:26 (CBR_WT01)	20:30	187	16:34 (CBR_WT01)	21:19	91	20:48 (KLZ_WT21)	21:58	48	20:48 (KLZ_WT21)
10	08:47	08:09			07:13		13:36 (CBR_WT01)	07:03		08:20 (SAM_WT05)	06:04		06:57 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59	17:51			18:40	111	15:27 (CBR_WT01)	20:32	185	16:34 (CBR_WT01)	21:20	85	20:49 (KLZ_WT21)	21:59	47	20:48 (KLZ_WT21)
11	08:46	08:08			07:10		13:35 (CBR_WT01)	07:01		08:19 (SAM_WT05)	06:03		06:58 (SAM_WT04)	05:31		05:59 (SAM_WT08)
	17:00	17:53			18:42	113	15:28 (CBR_WT01)	20:33	182	16:32 (CBR_WT01)	21:22	79	20:50 (KLZ_WT21)	21:59	47	20:47 (KLZ_WT21)
12	08:46	08:06			07:08		13:34 (CBR_WT01)	06:59		08:20 (SAM_WT05)	06:01		06:59 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02	17:54			18:44	116	15:30 (CBR_WT01)	20:35	179	16:32 (CBR_WT01)	21:24	71	20:54 (KLZ_WT13)	22:00	47	20:47 (KLZ_WT21)
13	08:45	08:04			07:06		13:32 (CBR_WT01)	06:57		08:21 (SAM_WT05)	05:59		07:02 (SAM_WT04)	05:30		05:59 (SAM_WT11)
	17:03	17:56			18:45	118	15:30 (CBR_WT01)	20:37	175	16:32 (CBR_WT01)	21:25	59	20:56 (KLZ_WT13)	22:01	47	20:47 (KLZ_WT21)
14	08:44	08:02			07:04		13:31 (CBR_WT01)	06:55		08:22 (SAM_WT05)	05:58		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:05	17:58			18:47	120	15:31 (CBR_WT01)	20:38	171	16:31 (CBR_WT01)	21:27	33	20:57 (KLZ_WT13)	22:01	47	20:47 (KLZ_WT21)
15	08:44	08:00			07:01		07:50 (SAM_WT05)	06:52		08:23 (SAM_WT05)	05:56		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:06	18:00			18:49	128	15:31 (CBR_WT01)	20:40	167	16:31 (CBR_WT01)	21:28	31	20:51 (KLZ_WT21)	22:02	46	20:47 (KLZ_WT21)
16	08:43	07:58			06:59		07:43 (SAM_WT05)	06:50		08:25 (SAM_WT05)	05:55		20:20 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:08	18:02			18:50	143	15:32 (CBR_WT01)	20:42	161	16:31 (CBR_WT01)	21:30	32	20:52 (KLZ_WT21)	22:02	47	20:47 (KLZ_WT21)
17	08:42	07:56			06:57		07:39 (SAM_WT05)	06:48		08:26 (SAM_WT05)	05:53		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:09	18:03			18:52	151	15:32 (CBR_WT01)	20:43	155	16:30 (CBR_WT01)	21:31	33	20:52 (KLZ_WT21)	22:03	46	20:47 (KLZ_WT21)
18	08:41	07:54			06:55		07:36 (SAM_WT05)	06:46		08:28 (SAM_WT05)	05:52		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:11	18:05			18:54	159	15:33 (CBR_WT01)	20:45	149	16:30 (CBR_WT01)	21:32	33	20:52 (KLZ_WT21)	22:03	46	20:47 (KLZ_WT21)
19	08:40	07:53			06:52		07:34 (SAM_WT05)	06:44		08:31 (SAM_WT05)	05:51		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:12	18:07			18:55	165	15:34 (CBR_WT01)	20:47	139	16:29 (CBR_WT01)	21:34	33	20:52 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
20	08:39	07:51		17:22 (KLZ_WT11)	06:50		07:32 (SAM_WT05)	06:42		07:08 (SAM_WT04)	05:49		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:14	18:09	6	17:28 (KLZ_WT11)	18:57	169	15:34 (CBR_WT01)	20:48	130	16:29 (CBR_WT01)	21:35	33	20:53 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
21	08:38	07:49		14:21 (CBR_WT01)	06:48		07:30 (SAM_WT05)	06:40		07:04 (SAM_WT04)	05:48		20:19 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:16	18:11	40	17:31 (KLZ_WT11)	18:59	173	15:34 (CBR_WT01)	20:50	129	16:28 (CBR_WT01)	21:37	33	20:52 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
22	08:37	07:47		14:15 (CBR_WT01)	06:46		07:28 (SAM_WT05)	06:38		07:01 (SAM_WT04)	05:47		20:19 (KLZ_WT21)	05:30		06:00 (SAM_WT11)
	17:17	18:12	54	17:33 (KLZ_WT11)	19:00	177	15:34 (CBR_WT01)	20:51	131	16:27 (CBR_WT01)	21:38	33	20:52 (KLZ_WT21)	22:04	45	20:48 (KLZ_WT21)
23	08:36	07:45		14:11 (CBR_WT01)	06:43		07:27 (SAM_WT05)	06:36		06:59 (SAM_WT04)	05:46		20:19 (KLZ_WT21)	05:30		06:00 (SAM_WT11)
	17:19	18:14	72	17:46 (KLZ_WT10)	19:02	180	15:35 (CBR_WT01)	20:53	131	16:27 (CBR_WT01)	21:39	33	20:52 (KLZ_WT21)	22:05	45	20:48 (KLZ_WT21)
24	08:35	07:42		14:07 (CBR_WT01)	06:41		07:25 (SAM_WT05)	06:34		06:58 (SAM_WT04)	05:44		06:11 (SWB_WT01_RP)	05:30		06:00 (SAM_WT11)
	17:21	18:16	88	17:50 (KLZ_WT08)	19:04	183	15:34 (CBR_WT01)	20:55	130	16:26 (CBR_WT01)	21:41	34	21:10 (EVE_WT01)	22:05	46	20:48 (KLZ_WT21)
25	08:33	07:40		14:04 (CBR_WT01)	06:39		07:24 (SAM_WT05)	06:32		06:56 (SAM_WT04)	05:43		06:10 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:22	18:18	99	17:52 (KLZ_WT08)	19:05	186	15:35 (CBR_WT01)	20:56	129	16:25 (CBR_WT01)	21:42	35	21:11 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
26	08:32	07:38		14:01 (CBR_WT01)	06:37		07:23 (SAM_WT05)	06:30		06:55 (SAM_WT04)	05:42		06:09 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:24	18:19	108	17:54 (KLZ_WT08)	19:07	188	15:35 (CBR_WT01)	20:58	126	16:24 (CBR_WT01)	21:43	39	21:12 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
27	08:31	07:36		13:57 (CBR_WT01)	06:34		07:23 (SAM_WT05)	06:28		06:54 (SAM_WT04)	05:41		06:08 (SAM_WT08)	05:32		06:01 (SAM_WT11)
	17:26	18:21	116	17:55 (KLZ_WT08)	19:09	190	15:36 (CBR_WT01)	21:00	123	16:23 (CBR_WT01)	21:45	40	21:13 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
28	08:30	07:34		13:55 (CBR_WT01)	06:32		07:21 (SAM_WT05)	06:26		06:54 (SAM_WT04)	05:40		06:07 (SAM_WT08)	05:32		06:02 (SAM_WT11)
	17:28	18:23	120	17:54 (KLZ_WT08)	19:10	191	15:35 (CBR_WT01)	21:01	119	16:22 (CBR_WT01)	21:46	42	20:51 (KLZ_WT21)	22:05	47	20:50 (KLZ_WT21)
29	08:28				07:30		08:21 (SAM_WT05)	06:24		06:54 (SAM_WT04)	05:39		06:06 (SAM_WT08)	05:33		06:02 (SAM_WT11)
	17:29				20:12	191	16:35 (CBR_WT01)	21:03	116	16:22 (CBR_WT01)	21:47	44	20:51 (KLZ_WT21)	22:05	46	20:50 (KLZ_WT21)
30	08:27				07:28		08:20 (SAM_WT05)	06:22		06:54 (SAM_WT04)	05:38		06:06 (SAM_WT08)	05:33		06:03 (SAM_WT08)
	17:31				20:14	194	16:35 (CBR_WT01)	21:05	112	16:21 (CBR_WT01)	21:48	44	20:51 (KLZ_WT21)	22:04	47	20:51 (KLZ_WT21)
31	08:25				07:25		08:20 (SAM_WT05)				05:37		06:05 (SAM_WT08)			
	17:33				20:15	195	16:36 (CBR_WT01)				21:49	46	20:51 (KLZ_WT21)			
Potential sun hours	262		279		367			415			482			495		
Total, worst case				704		4615			4768			1847			1401	
Sun reduction				0,30		0,38			0,46			0,46			0,44	
Oper. time red.				0,98		0,98			0,98			0,98			0,98	
Wind dir. red.				0,71		0,70			0,70			0,64			0,67	
Total reduction				0,21		0,26			0,32			0,29			0,29	
Total, real				147		1203			1506			530			403	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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NL-1082 MS Amsterdam
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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34		06:04 (SAM_WT08)	06:09	07:09 (SAM_WT04)	06:57	08:19 (SAM_WT05)	07:44	14:12 (CBR_WT01)	07:36	08:26
	22:04	47	20:52 (KLZ_WT21)	21:33	74	21:00 (KLZ_WT21)	20:33	182	16:32 (CBR_WT01)	19:25	117	16:09 (CBR_WT01)	17:21	16:42
2	05:34		06:04 (SAM_WT08)	06:10	07:07 (SAM_WT04)	06:59	08:18 (SAM_WT05)	07:46	14:13 (CBR_WT01)	07:38	08:27
	22:04	48	20:52 (KLZ_WT21)	21:32	82	20:59 (KLZ_WT21)	20:31	184	16:31 (CBR_WT01)	19:23	115	16:08 (CBR_WT01)	17:19	16:41
3	05:35		06:05 (SAM_WT08)	06:12	07:07 (SAM_WT04)	07:00	08:17 (SAM_WT05)	07:48	14:14 (CBR_WT01)	07:40	08:29
	22:03	48	20:53 (KLZ_WT21)	21:30	87	20:59 (KLZ_WT21)	20:29	187	16:32 (CBR_WT01)	19:21	112	16:06 (CBR_WT01)	17:17	16:41
4	05:36		06:06 (SAM_WT08)	06:13	07:05 (SAM_WT04)	07:02	08:16 (SAM_WT05)	07:49	14:15 (CBR_WT01)	07:42	08:30
	22:03	48	20:54 (KLZ_WT21)	21:29	93	20:57 (KLZ_WT21)	20:27	189	16:31 (CBR_WT01)	19:19	110	16:05 (CBR_WT01)	17:16	16:40
5	05:37		06:06 (SAM_WT08)	06:15	07:05 (SAM_WT04)	07:03	08:15 (SAM_WT05)	07:51	14:16 (CBR_WT01)	07:43	08:31
	22:03	48	20:54 (KLZ_WT21)	21:27	97	20:57 (KLZ_WT21)	20:24	191	16:31 (CBR_WT01)	19:16	107	16:03 (CBR_WT01)	17:14	16:40
6	05:37		06:07 (SAM_WT08)	06:16	07:04 (SAM_WT04)	07:05	08:14 (SAM_WT05)	07:52	14:17 (CBR_WT01)	07:45	08:33
	22:02	48	20:55 (KLZ_WT21)	21:25	100	20:55 (KLZ_WT21)	20:22	192	16:30 (CBR_WT01)	19:14	114	18:05 (KLZ_WT11)	17:12	16:39
7	05:38		06:08 (SAM_WT08)	06:18	07:04 (SAM_WT04)	07:06	08:14 (SAM_WT05)	07:54	14:18 (CBR_WT01)	07:47	08:34
	22:02	48	20:56 (KLZ_WT21)	21:23	102	20:53 (KLZ_WT21)	20:20	193	16:30 (CBR_WT01)	19:12	116	18:07 (KLZ_WT11)	17:11	16:39
8	05:39		06:09 (SAM_WT08)	06:20	07:03 (SAM_WT04)	07:08	08:13 (SAM_WT05)	07:56	14:20 (CBR_WT01)	07:49	08:35
	22:01	48	20:57 (KLZ_WT21)	21:22	102	20:50 (KLZ_WT21)	20:18	194	16:29 (CBR_WT01)	19:10	119	18:20 (KLZ_WT10)	17:09	16:39
9	05:40		06:10 (SAM_WT08)	06:21	07:02 (SAM_WT04)	07:10	08:13 (SAM_WT05)	07:57	14:20 (CBR_WT01)	07:50	08:36
	22:00	48	20:57 (KLZ_WT21)	21:20	98	20:51 (EVE_WT02)	20:15	194	16:29 (CBR_WT01)	19:08	127	18:22 (KLZ_WT10)	17:07	16:38
10	05:41		06:11 (SAM_WT08)	06:23	07:02 (SAM_WT04)	07:11	08:12 (SAM_WT05)	07:59	14:22 (CBR_WT01)	07:52	08:37
	22:00	48	20:58 (KLZ_WT21)	21:18	103	20:50 (EVE_WT02)	20:13	195	16:28 (CBR_WT01)	19:05	128	18:24 (KLZ_WT10)	17:06	16:38
11	05:42		06:12 (SAM_WT08)	06:24	07:01 (SAM_WT04)	07:13	08:12 (SAM_WT05)	08:01	14:24 (CBR_WT01)	07:54	08:38
	21:59	47	20:59 (KLZ_WT21)	21:16	108	20:48 (EVE_WT02)	20:11	195	16:28 (CBR_WT01)	19:03	126	18:25 (KLZ_WT10)	17:04	16:38
12	05:43		06:13 (SAM_WT08)	06:26	07:02 (SAM_WT04)	07:14	08:11 (SAM_WT05)	08:02	14:25 (CBR_WT01)	07:56	08:39
	21:58	46	20:59 (KLZ_WT21)	21:14	110	16:29 (CBR_WT01)	20:09	195	16:27 (CBR_WT01)	19:01	123	18:24 (KLZ_WT10)	17:03	16:38
13	05:44		06:14 (SAM_WT08)	06:27	07:01 (SAM_WT04)	07:16	08:12 (SAM_WT05)	08:04	14:27 (CBR_WT01)	07:57	08:40
	21:57	46	21:00 (KLZ_WT21)	21:12	115	16:29 (CBR_WT01)	20:06	193	16:27 (CBR_WT01)	18:59	120	18:25 (KLZ_WT10)	17:01	16:38
14	05:45		06:15 (SAM_WT08)	06:29	07:02 (SAM_WT04)	07:17	08:11 (SAM_WT05)	08:06	14:29 (CBR_WT01)	07:59	08:41
	21:56	44	21:00 (KLZ_WT21)	21:11	118	16:30 (CBR_WT01)	20:04	193	16:26 (CBR_WT01)	18:57	119	18:28 (KLZ_WT08)	17:00	16:38
15	05:46		06:16 (SAM_WT08)	06:30	07:01 (SAM_WT04)	07:19	08:11 (SAM_WT05)	08:07	14:32 (CBR_WT01)	08:01	08:42
	21:55	42	21:00 (KLZ_WT21)	21:09	122	16:30 (CBR_WT01)	20:02	192	16:25 (CBR_WT01)	18:55	112	18:27 (KLZ_WT08)	16:58	16:38
16	05:48		06:17 (SAM_WT08)	06:32	07:02 (SAM_WT04)	07:21	08:11 (SAM_WT05)	08:09	14:33 (CBR_WT01)	08:02	08:43
	21:54	42	21:01 (KLZ_WT21)	21:07	124	16:31 (CBR_WT01)	19:59	190	16:24 (CBR_WT01)	18:52	106	18:24 (KLZ_WT08)	16:57	16:38
17	05:49		06:18 (SAM_WT08)	06:33	07:02 (SAM_WT04)	07:22	08:12 (SAM_WT05)	08:11	14:36 (CBR_WT01)	08:04	08:44
	21:53	40	21:22 (EVE_WT01)	21:05	127	16:31 (CBR_WT01)	19:57	188	16:24 (CBR_WT01)	18:50	95	18:22 (KLZ_WT08)	16:56	16:38
18	05:50		06:19 (SAM_WT08)	06:35	07:03 (SAM_WT04)	07:24	08:11 (SAM_WT05)	08:12	14:40 (CBR_WT01)	08:06	08:44
	21:52	36	21:21 (EVE_WT01)	21:03	129	16:32 (CBR_WT01)	19:55	186	16:22 (CBR_WT01)	18:48	81	18:19 (KLZ_WT10)	16:55	16:39
19	05:51		06:20 (SWB_WT01_RP)	06:37	07:04 (SAM_WT04)	07:25	08:12 (SAM_WT05)	08:14	14:43 (CBR_WT01)	08:07	08:45
	21:51	35	21:20 (EVE_WT01)	21:01	130	16:32 (CBR_WT01)	19:53	184	16:22 (CBR_WT01)	18:46	64	18:06 (KLZ_WT11)	16:53	16:39
20	05:52		06:21 (SWB_WT01_RP)	06:38	07:05 (SAM_WT04)	07:27	08:13 (SAM_WT05)	08:16	14:47 (CBR_WT01)	08:09	08:46
	21:50	34	21:19 (EVE_WT01)	20:59	131	16:32 (CBR_WT01)	19:50	182	16:22 (CBR_WT01)	18:44	51	18:03 (KLZ_WT11)	16:52	16:39
21	05:54		20:30 (KLZ_WT21)	06:40	07:06 (SAM_WT04)	07:28	08:14 (SAM_WT05)	08:17	14:54 (CBR_WT01)	08:11	08:46
	21:49	32	21:02 (KLZ_WT21)	20:57	130	16:32 (CBR_WT01)	19:48	177	16:20 (CBR_WT01)	18:42	33	18:01 (KLZ_WT11)	16:51	16:40
22	05:55		20:30 (KLZ_WT21)	06:41	07:09 (SAM_WT04)	07:30	08:15 (SAM_WT05)	08:19	17:54 (KLZ_WT11)	08:12	08:47
	21:48	32	21:02 (KLZ_WT21)	20:55	129	16:33 (CBR_WT01)	19:46	175	16:20 (CBR_WT01)	18:40	3	17:57 (KLZ_WT11)	16:50	16:40
23	05:56		20:29 (KLZ_WT21)	06:43	08:39 (SAM_WT05)	07:32	08:16 (SAM_WT05)	08:21		08:14	08:47
	21:46	33	21:02 (KLZ_WT21)	20:52	128	16:32 (CBR_WT01)	19:43	170	16:18 (CBR_WT01)	18:38				16:49	16:41
24	05:58		20:29 (KLZ_WT21)	06:44	08:35 (SAM_WT05)	07:33	08:17 (SAM_WT05)	08:23		08:15	08:48
	21:45	33	21:02 (KLZ_WT21)	20:50	141	16:33 (CBR_WT01)	19:41	165	16:17 (CBR_WT01)	18:36				16:48	16:41
25	05:59		20:30 (KLZ_WT21)	06:46	08:31 (SAM_WT05)	07:35	08:18 (SAM_WT05)	07:24		08:17	08:48
	21:44	33	21:03 (KLZ_WT21)	20:48	149	16:32 (CBR_WT01)	19:39	160	16:16 (CBR_WT01)	17:34				16:47	16:42
26	06:00		20:30 (KLZ_WT21)	06:48	08:29 (SAM_WT05)	07:36	08:21 (SAM_WT05)	07:26		08:19	08:49
	21:42	32	21:02 (KLZ_WT21)	20:46	156	16:33 (CBR_WT01)	19:37	154	16:15 (CBR_WT01)	17:32				16:46	16:43
27	06:02		20:29 (KLZ_WT21)	06:49	08:26 (SAM_WT05)	07:38	08:24 (SAM_WT05)	07:28		08:20	08:49
	21:41	33	21:02 (KLZ_WT21)	20:44	162	16:32 (CBR_WT01)	19:34	146	16:14 (CBR_WT01)	17:30				16:45	16:43
28	06:03		20:30 (KLZ_WT21)	06:51	08:25 (SAM_WT05)	07:40	08:27 (SAM_WT05)	07:29		08:22	08:49
	21:40	32	21:02 (KLZ_WT21)	20:42	167	16:33 (CBR_WT01)	19:32	136	16:12 (CBR_WT01)	17:28				16:44	16:44
29	06:05		20:30 (KLZ_WT21)	06:52	08:23 (SAM_WT05)	07:41	14:11 (CBR_WT01)	07:31		08:23	08:49
	21:38	33	21:08 (KLZ_WT13)	20:40	171	16:32 (CBR_WT01)	19:30	121	16:12 (CBR_WT01)	17:26				16:43	16:45
30	06:06		07:14 (SAM_WT04)	06:54	08:22 (SAM_WT05)	07:43	14:11 (CBR_WT01)	07:33		08:24	08:49
	21:37	47	21:07 (KLZ_WT13)	20:38	175	16:33 (CBR_WT01)	19:28	119	16:10 (CBR_WT01)	17:25				16:43	16:46
31	06:08		07:11 (SAM_WT04)	06:55	08:20 (SAM_WT05)				07:35				08:49
	21:35	64	21:06 (KLZ_WT13)	20:35	179	16:32 (CBR_WT01)				17:23					16:47
Potential sun hours	498			451		380			333				269	248
Total, worst case		1295			3839			5322			2198				
Sun reduction		0,45			0,47			0,43			0,36				
Oper. time red.		0,98			0,98			0,98			0,98				
Wind dir. red.		0,62			0,70			0,69			0,72				
Total reduction		0,27			0,32			0,29			0,25				
Total, real		348			1223			1561			559				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:18 (MVN_WT01)	07:32			07:23			06:20		06:44 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:48			17:35	7	09:25 (MVN_WT01)	18:25			20:17			21:06	19	07:03 (SAM_WT05)	21:50	23	20:40 (KLZ_WT10)
2	08:49			08:22			07:30			07:21			06:18		06:42 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:49			17:36			18:26			20:19			21:08	22	07:04 (SAM_WT05)	21:51	25	20:42 (KLZ_WT10)
3	08:49			08:21		17:07 (NES_WT01)	07:28			07:19			06:16		06:41 (SAM_WT05)	05:35		20:16 (KLZ_WT10)
	16:50			17:38	2	17:09 (NES_WT01)	18:28			20:20			21:09	24	07:05 (SAM_WT05)	21:53	27	20:43 (KLZ_WT10)
4	08:49			08:19		17:08 (NES_WT01)	07:26			07:17			06:15		06:40 (SAM_WT05)	05:34		20:15 (KLZ_WT10)
	16:51			17:40	3	17:11 (NES_WT01)	18:30			20:22			21:11	25	07:05 (SAM_WT05)	21:54	28	20:43 (KLZ_WT10)
5	08:49			08:18		17:08 (NES_WT01)	07:24			07:14			06:13		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT08)
	16:53			17:42	5	17:13 (NES_WT01)	18:32			20:24			21:13	26	07:05 (SAM_WT05)	21:55	30	20:44 (KLZ_WT10)
6	08:49			08:16		17:09 (NES_WT01)	07:21			07:12			06:11		06:38 (SAM_WT05)	05:33		06:01 (SAM_WT08)
	16:54			17:44	6	17:15 (NES_WT01)	18:33			20:25			21:14	27	07:05 (SAM_WT05)	21:55	32	20:45 (KLZ_WT10)
7	08:48			08:14		17:10 (NES_WT01)	07:19			07:10			06:09		06:39 (SAM_WT05)	05:32		06:01 (SAM_WT08)
	16:55			17:45	5	17:15 (NES_WT01)	18:35			20:27			21:16	27	07:06 (SAM_WT05)	21:56	34	20:46 (KLZ_WT10)
8	08:48			08:13			07:17			07:08		20:01 (KLZ_WT15)	06:08		06:38 (SAM_WT05)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37			20:28	2	20:03 (KLZ_WT15)	21:17	27	07:05 (SAM_WT05)	21:57	35	20:46 (KLZ_WT10)
9	08:47			08:11			07:15			07:05		20:01 (KLZ_WT15)	06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:58			17:49			18:39			20:30	4	20:05 (KLZ_WT15)	21:19	30	07:06 (SAM_WT05)	21:58	36	20:47 (KLZ_WT10)
10	08:47			08:09			07:13			07:03		20:02 (KLZ_WT15)	06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40			20:32	4	20:06 (KLZ_WT15)	21:20	32	07:05 (SAM_WT05)	21:59	37	20:48 (KLZ_WT10)
11	08:46			08:08			07:10			07:01		20:03 (KLZ_WT15)	06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	17:00			17:53			18:42			20:33	5	20:08 (KLZ_WT15)	21:22	34	07:05 (SAM_WT05)	22:00	39	20:49 (KLZ_WT10)
12	08:46			08:06			07:08			06:59		20:04 (KLZ_WT15)	06:01		06:26 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44			20:35	3	20:07 (KLZ_WT15)	21:24	36	07:05 (SAM_WT05)	22:00	39	20:48 (KLZ_WT10)
13	08:45		09:14 (MVN_WT01)	08:04			07:06			06:57			05:59		06:25 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:03	6	09:20 (MVN_WT01)	17:56			18:45			20:37			21:25	37	07:05 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
14	08:44		09:13 (MVN_WT01)	08:02			07:04			06:55			05:58		06:23 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:05	9	09:22 (MVN_WT01)	17:58			18:47			20:38			21:27	37	07:03 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
15	08:44		09:12 (MVN_WT01)	08:00			07:02			06:52			05:56		06:22 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:06	11	09:23 (MVN_WT01)	18:00			18:49			20:40			21:28	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
16	08:43		09:11 (MVN_WT01)	07:58			06:59		18:25 (KLZ_WT16)	06:50			05:55		06:21 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:08	13	09:24 (MVN_WT01)	18:02			18:50	1	18:26 (KLZ_WT16)	20:42			21:30	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
17	08:42		09:10 (MVN_WT01)	07:56			06:57		18:24 (KLZ_WT16)	06:48			05:53		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:09	15	09:25 (MVN_WT01)	18:03			18:52	3	18:27 (KLZ_WT16)	20:43			21:31	37	07:01 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
18	08:41		09:10 (MVN_WT01)	07:54			06:55		18:25 (KLZ_WT16)	06:46			05:52		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:11	16	09:26 (MVN_WT01)	18:05			18:54	4	18:29 (KLZ_WT16)	20:45			21:32	34	07:00 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
19	08:40		09:10 (MVN_WT01)	07:53			06:53		18:26 (KLZ_WT16)	06:44			05:51		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:12	17	09:27 (MVN_WT01)	18:07			18:55	5	18:31 (KLZ_WT16)	20:47			21:34	33	07:00 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
20	08:39		09:09 (MVN_WT01)	07:51			06:50			06:42			05:49		06:20 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:14	18	09:27 (MVN_WT01)	18:09			18:57			20:48			21:35	28	06:58 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
21	08:38		09:09 (MVN_WT01)	07:49			06:48			06:40			05:48		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:16	19	09:28 (MVN_WT01)	18:11			18:59			20:50			21:37	25	06:56 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
22	08:37		09:09 (MVN_WT01)	07:47			06:46		18:29 (KLZ_WT08)	06:38			05:47		06:20 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:17	20	09:29 (MVN_WT01)	18:12			19:00	5	18:34 (KLZ_WT08)	20:52			21:38	15	06:35 (SAM_WT04)	22:04	43	20:52 (KLZ_WT10)
23	08:36		09:10 (MVN_WT01)	07:45			06:44		18:26 (KLZ_WT08)	06:36			05:46		06:21 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:19	20	09:30 (MVN_WT01)	18:14			19:02	10	18:36 (KLZ_WT08)	20:53			21:39	13	06:34 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
24	08:35		09:09 (MVN_WT01)	07:43			06:41		18:24 (KLZ_WT08)	06:34			05:44		06:22 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:21	20	09:29 (MVN_WT01)	18:16			19:04	13	18:37 (KLZ_WT08)	20:55			21:41	11	06:33 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
25	08:33		09:10 (MVN_WT01)	07:40			06:39		18:23 (KLZ_WT08)	06:32			05:43		06:23 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:22	20	09:30 (MVN_WT01)	18:18			19:05	15	18:38 (KLZ_WT08)	20:56			21:42	9	06:32 (SAM_WT04)	22:05	43	20:53 (KLZ_WT10)
26	08:32		09:11 (MVN_WT01)	07:38			06:37		18:22 (KLZ_WT08)	06:30			05:42		06:25 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:24	19	09:30 (MVN_WT01)	18:19			19:07	16	18:38 (KLZ_WT08)	20:58			21:43	5	06:30 (SAM_WT04)	22:05	42	20:53 (KLZ_WT10)
27	08:31		09:11 (MVN_WT01)	07:36			06:34		18:22 (KLZ_WT08)	06:28			05:41		20:25 (KLZ_WT10)	05:32		06:01 (SAM_WT08)
	17:26	18	09:29 (MVN_WT01)	18:21			19:09	16	18:38 (KLZ_WT08)	21:00			21:45	6	20:31 (KLZ_WT10)	22:05	41	20:52 (KLZ_WT10)
28	08:30		09:12 (MVN_WT01)	07:34			06:32		18:22 (KLZ_WT08)	06:26		06:49 (SAM_WT05)	05:40		20:22 (KLZ_WT10)	05:32		06:02 (SAM_WT08)
	17:28	18	09:30 (MVN_WT01)	18:23			19:10	15	18:37 (KLZ_WT08)	21:01	9	06:58 (SAM_WT05)	21:46	12	20:34 (KLZ_WT10)	22:05	41	20:53 (KLZ_WT10)
29	08:28		09:12 (MVN_WT01)				07:30		19:22 (KLZ_WT08)	06:24		06:48 (SAM_WT05)	05:39		20:21 (KLZ_WT10)	05:33		06:02 (SAM_WT08)
	17:29	17	09:29 (MVN_WT01)				20:12	14	19:36 (KLZ_WT08)	21:03	13	07:01 (SAM_WT05)	21:47	16	20:37 (KLZ_WT10)	22:05	40	20:52 (KLZ_WT10)
30	08:27		09:14 (MVN_WT01)				07:28		19:23 (KLZ_WT08)	06:22		06:46 (SAM_WT05)	05:38		20:19 (KLZ_WT10)	05:33		06:03 (SAM_WT08)
	17:31	14	09:28 (MVN_WT01)				20:14	12	19:35 (KLZ_WT08)	21:05	16	07:02 (SAM_WT05)	21:48	19	20:38 (KLZ_WT10)	22:04	40	20:53 (KLZ_WT10)
31	08:25		09:15 (MVN_WT01)				07:25		19:25 (KLZ_WT08)				05:37		20:18 (KLZ_WT10)			
	17:33	12	09:27 (MVN_WT01)				20:15	9	19:34 (KLZ_WT08)				21:49	21	20:39 (KLZ_WT10)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	302			28			138			56			763			1138		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,54			0,66			0,63			0,64			0,67			0,58		
Total reduction	0,13			0,19			0,23			0,29			0,30			0,25		
Total, real	39			5			32			16			227			286		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October	November			December
1	05:34		06:04 (SAM_WT08)	06:09		06:37 (SAM_WT04)	06:57		20:01 (KLZ_WT15)	07:44	07:36			08:26
	22:04	39	20:53 (KLZ_WT10)	21:33	35	07:15 (SAM_WT05)	20:33	6	20:07 (KLZ_WT15)	19:25	17:21			16:42
2	05:34		06:04 (SAM_WT08)	06:11		06:39 (SAM_WT04)	06:59		20:00 (KLZ_WT15)	07:46	07:38			08:27
	22:04	38	20:52 (KLZ_WT10)	21:32	34	07:16 (SAM_WT05)	20:31	4	20:04 (KLZ_WT15)	19:23	17:19			16:41
3	05:35		06:05 (SAM_WT08)	06:12		06:40 (SAM_WT04)	07:00		19:59 (KLZ_WT15)	07:48	07:40			08:29
	22:03	36	20:52 (KLZ_WT10)	21:30	31	07:16 (SAM_WT05)	20:29	4	20:03 (KLZ_WT15)	19:21	17:17			16:41
4	05:36		06:06 (SAM_WT08)	06:14		06:41 (SAM_WT04)	07:02		19:58 (KLZ_WT15)	07:49	07:42		16:39 (NES_WT01)	08:30
	22:03	35	20:52 (KLZ_WT10)	21:29	29	07:15 (SAM_WT05)	20:27	2	20:00 (KLZ_WT15)	19:19	17:16	6	16:45 (NES_WT01)	16:40
5	05:37		06:06 (SAM_WT08)	06:15		06:49 (SAM_WT05)	07:03			07:51	07:43		16:38 (NES_WT01)	08:31
	22:03	34	20:51 (KLZ_WT10)	21:27	27	07:16 (SAM_WT05)	20:24			19:16	17:14	6	16:44 (NES_WT01)	16:40
6	05:37		06:07 (SAM_WT08)	06:17		06:48 (SAM_WT05)	07:05			07:52	07:45		16:38 (NES_WT01)	08:33
	22:02	33	20:51 (KLZ_WT10)	21:25	27	07:15 (SAM_WT05)	20:22			19:14	17:12	5	16:43 (NES_WT01)	16:39
7	05:38		06:08 (SAM_WT08)	06:18		06:49 (SAM_WT05)	07:06			07:54	07:47		16:38 (NES_WT01)	08:34
	22:02	31	20:51 (KLZ_WT10)	21:23	27	07:16 (SAM_WT05)	20:20			19:12	17:11	3	16:41 (NES_WT01)	16:39
8	05:39		20:22 (KLZ_WT10)	06:20		06:49 (SAM_WT05)	07:08			07:56	07:49		16:38 (NES_WT01)	08:35
	22:01	29	20:51 (KLZ_WT10)	21:22	26	07:15 (SAM_WT05)	20:18			19:10	17:09	1	16:39 (NES_WT01)	16:39
9	05:40		20:23 (KLZ_WT10)	06:21		06:50 (SAM_WT05)	07:10			07:57	07:50			08:36
	22:00	27	20:50 (KLZ_WT10)	21:20	25	07:15 (SAM_WT05)	20:15			19:08	17:07			16:39
10	05:41		20:24 (KLZ_WT10)	06:23		06:50 (SAM_WT05)	07:11			07:59	07:52		08:48 (MVN_WT01)	08:37
	22:00	26	20:50 (KLZ_WT10)	21:18	23	07:13 (SAM_WT05)	20:13			19:05	17:06	8	08:56 (MVN_WT01)	16:38
11	05:42		20:25 (KLZ_WT10)	06:24		06:51 (SAM_WT05)	07:13			08:01	07:54		08:46 (MVN_WT01)	08:38
	21:59	24	20:49 (KLZ_WT10)	21:16	21	07:12 (SAM_WT05)	20:11			19:03	17:04	12	08:58 (MVN_WT01)	16:38
12	05:43		20:26 (KLZ_WT10)	06:26		06:53 (SAM_WT05)	07:14		19:17 (KLZ_WT08)	08:02	07:56		08:45 (MVN_WT01)	08:39
	21:58	22	20:48 (KLZ_WT10)	21:14	19	07:12 (SAM_WT05)	20:09	8	19:25 (KLZ_WT08)	19:01	17:03	14	08:59 (MVN_WT01)	16:38
13	05:44		20:27 (KLZ_WT10)	06:27		06:54 (SAM_WT05)	07:16		19:15 (KLZ_WT08)	08:04	07:57		08:44 (MVN_WT01)	08:40
	21:57	20	20:47 (KLZ_WT10)	21:12	16	07:10 (SAM_WT05)	20:06	11	19:26 (KLZ_WT08)	18:59	17:01	17	09:01 (MVN_WT01)	16:38
14	05:45		20:28 (KLZ_WT10)	06:29		06:56 (SAM_WT05)	07:17		19:13 (KLZ_WT08)	08:06	07:59		08:44 (MVN_WT01)	08:41
	21:56	18	20:46 (KLZ_WT10)	21:11	12	07:08 (SAM_WT05)	20:04	14	19:27 (KLZ_WT08)	18:57	17:00	18	09:02 (MVN_WT01)	16:38
15	05:46		20:30 (KLZ_WT10)	06:30		06:57 (SAM_WT05)	07:19		19:12 (KLZ_WT08)	08:07	08:01		08:44 (MVN_WT01)	08:42
	21:55	15	20:45 (KLZ_WT10)	21:09	8	07:05 (SAM_WT05)	20:02	15	19:27 (KLZ_WT08)	18:55	16:59	18	09:02 (MVN_WT01)	16:38
16	05:48		20:32 (KLZ_WT10)	06:32			07:21		19:11 (KLZ_WT08)	08:09	08:02		08:44 (MVN_WT01)	08:43
	21:54	10	20:42 (KLZ_WT10)	21:07			19:59	16	19:27 (KLZ_WT08)	18:52	16:57	19	09:03 (MVN_WT01)	16:38
17	05:49			06:34			07:22		19:11 (KLZ_WT08)	08:11	08:04		08:44 (MVN_WT01)	08:44
	21:53			21:05			19:57	16	19:27 (KLZ_WT08)	18:50	16:56	20	09:04 (MVN_WT01)	16:38
18	05:50		06:34 (SAM_WT04)	06:35			07:24		19:10 (KLZ_WT08)	08:12	08:06		08:43 (MVN_WT01)	08:45
	21:52	7	06:41 (SAM_WT04)	21:03			19:55	15	19:25 (KLZ_WT08)	18:48	16:55	20	09:03 (MVN_WT01)	16:39
19	05:51		06:32 (SAM_WT04)	06:37			07:25		19:11 (KLZ_WT08)	08:14	08:07		08:44 (MVN_WT01)	08:45
	21:51	10	06:42 (SAM_WT04)	21:01			19:53	14	19:25 (KLZ_WT08)	18:46	16:53	20	09:04 (MVN_WT01)	16:39
20	05:52		06:32 (SAM_WT04)	06:38			07:27		19:12 (KLZ_WT08)	08:16	08:09		08:44 (MVN_WT01)	08:46
	21:50	12	06:44 (SAM_WT04)	20:59			19:50	11	19:23 (KLZ_WT08)	18:44	16:52	20	09:04 (MVN_WT01)	16:39
21	05:54		06:31 (SAM_WT04)	06:40			07:28		19:13 (KLZ_WT08)	08:17	08:11		08:45 (MVN_WT01)	08:46
	21:49	14	06:45 (SAM_WT04)	20:57			19:48	7	19:20 (KLZ_WT08)	18:42	16:51	19	09:04 (MVN_WT01)	16:40
22	05:55		06:30 (SAM_WT04)	06:41			07:30			08:19	08:12		08:45 (MVN_WT01)	08:47
	21:48	21	07:05 (SAM_WT05)	20:55			19:46			18:40	16:50	18	09:03 (MVN_WT01)	16:40
23	05:56		06:30 (SAM_WT04)	06:43			07:32			08:21	08:14		08:46 (MVN_WT01)	08:47
	21:46	27	07:07 (SAM_WT05)	20:52			19:44			18:38	16:49	17	09:03 (MVN_WT01)	16:41
24	05:58		06:29 (SAM_WT04)	06:44			07:33		19:10 (KLZ_WT16)	08:23	08:15		08:47 (MVN_WT01)	08:48
	21:45	31	07:08 (SAM_WT05)	20:50			19:41	5	19:15 (KLZ_WT16)	18:36	16:48	17	09:04 (MVN_WT01)	16:41
25	05:59		06:29 (SAM_WT04)	06:46			07:35		19:08 (KLZ_WT16)	07:24	08:17		08:48 (MVN_WT01)	08:48
	21:44	34	07:10 (SAM_WT05)	20:48			19:39	4	19:12 (KLZ_WT16)	17:34	16:47	16	09:04 (MVN_WT01)	16:42
26	06:00		06:29 (SAM_WT04)	06:48			07:36		19:07 (KLZ_WT16)	07:26	08:19		08:49 (MVN_WT01)	08:49
	21:42	36	07:11 (SAM_WT05)	20:46			19:37	3	19:10 (KLZ_WT16)	17:32	16:46	13	09:02 (MVN_WT01)	16:43
27	06:02		06:30 (SAM_WT04)	06:49			07:38		19:07 (KLZ_WT16)	07:28	08:20		08:51 (MVN_WT01)	08:49
	21:41	37	07:12 (SAM_WT05)	20:44			19:34	1	19:08 (KLZ_WT16)	17:30	16:45	11	09:02 (MVN_WT01)	16:43
28	06:03		06:32 (SAM_WT04)	06:51			07:40			07:29	08:22		08:53 (MVN_WT01)	08:49
	21:40	39	07:14 (SAM_WT05)	20:42			19:32			17:28	16:44	9	09:02 (MVN_WT01)	16:44
29	06:05		06:33 (SAM_WT04)	06:52			07:41			07:31	08:23		08:54 (MVN_WT01)	08:49
	21:38	38	07:14 (SAM_WT05)	20:40			19:30			17:26	16:43	6	09:00 (MVN_WT01)	16:45
30	06:06		06:34 (SAM_WT04)	06:54			07:43			07:33	08:25			08:49
	21:37	37	07:14 (SAM_WT05)	20:38			19:28			17:25	16:43			16:46
31	06:08		06:36 (SAM_WT04)	06:55		20:04 (KLZ_WT15)				07:35				08:49
	21:35	36	07:15 (SAM_WT05)	20:35	3	20:07 (KLZ_WT15)				17:23				16:47
Potential sun hours	498			451			380			333	269			248
Total, worst case		816			363			156				333		
Sun reduction		0,45			0,47			0,43				0,27		
Oper. time red.		0,98			0,98			0,98				0,98		
Wind dir. red.		0,62			0,67			0,62				0,55		
Total reduction		0,27			0,31			0,26				0,14		
Total, real		221			111			41				48		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:31 (RHR_WT02)	08:24		08:50 (MVZ_WT02)	07:32		07:55 (MXS_WT01)	07:23		19:43 (KLZ_WT16)	06:20		06:44 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:48	19	09:50 (RHR_WT02)	17:35	40	17:06 (NES_WT01)	18:25	22	08:17 (MXS_WT01)	20:17	8	19:51 (KLZ_WT16)	21:06	6	06:50 (SAM_WT05)	21:50	34	06:40 (CBR_WT01)
2	08:49		09:32 (RHR_WT02)	08:22		08:48 (MVZ_WT02)	07:30		07:53 (MXS_WT01)	07:21		19:43 (KLZ_WT16)	06:18		06:42 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:49	19	09:51 (RHR_WT02)	17:36	41	17:07 (NES_WT01)	18:26	25	08:18 (MXS_WT01)	20:19	10	19:53 (KLZ_WT16)	21:08	8	06:50 (SAM_WT05)	21:52	34	06:41 (CBR_WT01)
3	08:49		09:31 (RHR_WT02)	08:21		08:46 (MVZ_WT02)	07:28		07:53 (MXS_WT01)	07:19		19:43 (KLZ_WT16)	06:16		06:41 (SAM_WT05)	05:35		06:03 (SAM_WT11)
	16:50	19	09:50 (RHR_WT02)	17:38	41	17:08 (NES_WT01)	18:28	26	08:19 (MXS_WT01)	20:20	12	19:55 (KLZ_WT16)	21:09	10	06:51 (SAM_WT05)	21:53	34	06:40 (CBR_WT01)
4	08:49		09:33 (RHR_WT02)	08:19		08:46 (MVZ_WT02)	07:26		07:52 (MXS_WT01)	07:17		19:43 (KLZ_WT16)	06:15		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:51	18	09:51 (RHR_WT02)	17:40	37	17:08 (NES_WT01)	18:30	27	08:19 (MXS_WT01)	20:22	14	19:57 (KLZ_WT16)	21:11	13	20:43 (KLZ_WT15)	21:54	36	06:40 (CBR_WT01)
5	08:49		09:34 (RHR_WT02)	08:18		08:47 (MVZ_WT02)	07:24		07:51 (MXS_WT01)	07:14		19:43 (KLZ_WT16)	06:13		06:37 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:53	17	09:51 (RHR_WT02)	17:42	27	17:07 (NES_WT01)	18:32	27	08:18 (MXS_WT01)	20:24	15	19:58 (KLZ_WT16)	21:13	16	20:44 (KLZ_WT15)	21:55	36	06:41 (CBR_WT01)
6	08:49		09:34 (RHR_WT02)	08:16		08:49 (MVZ_WT02)	07:21		07:51 (MXS_WT01)	07:12		19:43 (KLZ_WT16)	06:11		06:36 (SAM_WT05)	05:33		06:01 (SAM_WT11)
	16:54	16	09:50 (RHR_WT02)	17:44	12	17:06 (NES_WT01)	18:33	27	08:18 (MXS_WT01)	20:25	13	19:56 (KLZ_WT16)	21:14	21	20:46 (KLZ_WT15)	21:55	37	06:41 (CBR_WT01)
7	08:48		09:35 (RHR_WT02)	08:14			07:19		07:51 (MXS_WT01)	07:10		19:45 (KLZ_WT16)	06:09		06:34 (SAM_WT05)	05:32		06:01 (SAM_WT11)
	16:55	16	09:51 (RHR_WT02)	17:45			18:35	27	08:18 (MXS_WT01)	20:27	9	19:54 (KLZ_WT16)	21:16	24	20:47 (KLZ_WT15)	21:56	37	06:41 (CBR_WT01)
8	08:48		09:36 (RHR_WT02)	08:13			07:17		07:51 (MXS_WT01)	07:08		19:48 (KLZ_WT16)	06:08		06:32 (SAM_WT04)	05:32		06:01 (SAM_WT11)
	16:56	14	09:50 (RHR_WT02)	17:47			18:37	27	08:18 (MXS_WT01)	20:29	2	19:50 (KLZ_WT16)	21:17	25	20:48 (KLZ_WT15)	21:57	37	06:42 (CBR_WT01)
9	08:47		09:38 (RHR_WT02)	08:11			07:15		07:52 (MXS_WT01)	07:05			06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:58	12	09:50 (RHR_WT02)	17:49			18:39	25	08:17 (MXS_WT01)	20:30			21:19	28	20:50 (KLZ_WT15)	21:58	36	06:41 (CBR_WT01)
10	08:47		09:39 (RHR_WT02)	08:09			07:13		07:51 (MXS_WT01)	07:03			06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:59	10	09:49 (RHR_WT02)	17:51			18:40	24	08:15 (MXS_WT01)	20:32			21:21	27	20:51 (KLZ_WT15)	21:59	38	06:42 (CBR_WT01)
11	08:46		09:41 (RHR_WT02)	08:08			07:10		07:52 (MXS_WT01)	07:01			06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	17:00	7	09:48 (RHR_WT02)	17:53			18:42	22	08:14 (MXS_WT01)	20:33			21:22	28	20:53 (KLZ_WT15)	22:00	37	06:42 (CBR_WT01)
12	08:46		09:14 (RHR_WT01)	08:06			07:08		07:54 (MXS_WT01)	06:59			06:01		06:26 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:02	3	09:17 (RHR_WT01)	17:54			18:44	19	08:13 (MXS_WT01)	20:35			21:24	22	20:54 (KLZ_WT15)	22:00	36	06:41 (CBR_WT01)
13	08:45		09:14 (RHR_WT01)	08:04			07:06		07:56 (MXS_WT01)	06:57			05:59		06:25 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:03	5	09:19 (RHR_WT01)	17:56			18:45	14	08:10 (MXS_WT01)	20:37			21:25	22	20:54 (KLZ_WT15)	22:01	37	06:42 (CBR_WT01)
14	08:44		09:13 (RHR_WT01)	08:02			07:04		07:58 (MXS_WT01)	06:55			05:58		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:05	8	09:21 (RHR_WT01)	17:58			18:47	8	08:06 (MXS_WT01)	20:38			21:27	20	20:52 (KLZ_WT15)	22:01	35	06:42 (CBR_WT01)
15	08:44		09:12 (RHR_WT01)	08:00			07:02			06:52			05:56		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:06	10	09:22 (RHR_WT01)	18:00			18:49			20:40			21:28	18	20:52 (KLZ_WT15)	22:02	35	06:42 (CBR_WT01)
16	08:43		09:11 (RHR_WT01)	07:58			06:59			06:50			05:55		06:25 (SAM_WT04)	05:30		06:02 (SAM_WT11)
	17:08	12	09:23 (RHR_WT01)	18:02			18:50			20:42			21:30	12	20:51 (KLZ_WT15)	22:03	35	06:43 (CBR_WT01)
17	08:42		09:10 (MVZ_WT01)	07:56		08:20 (MVN_WT01)	06:57			06:48			05:54			05:30		06:02 (SAM_WT11)
	17:09	14	09:24 (RHR_WT01)	18:03	1	08:21 (MVN_WT01)	18:52			20:43			21:31			22:03	34	06:43 (CBR_WT01)
18	08:41		09:09 (MVZ_WT01)	07:55		08:18 (MVN_WT01)	06:55			06:46			05:52		06:24 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:11	16	09:25 (RHR_WT01)	18:05	5	08:23 (MVN_WT01)	18:54			20:45			21:32	3	06:27 (CBR_WT01)	22:03	33	06:43 (CBR_WT01)
19	08:40		09:08 (MVZ_WT01)	07:53		08:16 (MVN_WT01)	06:53			06:44			05:51		06:21 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:12	18	09:26 (RHR_WT01)	18:07	9	08:25 (MVN_WT01)	18:55			20:47			21:34	10	06:31 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
20	08:39		09:06 (MVZ_WT01)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:14	20	09:26 (RHR_WT01)	18:09	11	08:25 (MVN_WT01)	18:57			20:48			21:35	14	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
21	08:38		09:05 (MVZ_WT01)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:17 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:16	22	09:27 (RHR_WT01)	18:11	14	08:26 (MVN_WT01)	18:59			20:50			21:37	16	06:33 (CBR_WT01)	22:04	33	06:43 (CBR_WT01)
22	08:37		09:04 (MVZ_WT01)	07:47		08:11 (MVN_WT01)	06:46			06:38			05:47		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:17	24	09:28 (RHR_WT01)	18:12	15	08:26 (MVN_WT01)	19:00			20:52			21:38	19	06:35 (CBR_WT01)	22:04	33	06:44 (CBR_WT01)
23	08:36		09:03 (MVZ_WT01)	07:45		08:11 (MVN_WT01)	06:44			06:36			05:46		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:19	25	09:28 (RHR_WT01)	18:14	15	08:26 (MVN_WT01)	19:02			20:53			21:39	20	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
24	08:35		09:01 (MVZ_WT01)	07:43		08:11 (MVN_WT01)	06:41			06:34			05:44		06:15 (CBR_WT01)	05:31		06:04 (SAM_WT11)
	17:21	27	09:28 (RHR_WT01)	18:16	14	08:25 (MVN_WT01)	19:04			20:55			21:41	21	06:36 (CBR_WT01)	22:05	33	06:44 (CBR_WT01)
25	08:34		09:02 (MVZ_WT01)	07:41		08:05 (MXS_WT01)	06:39			06:32			05:43		06:15 (CBR_WT01)	05:31		06:05 (SAM_WT11)
	17:22	27	09:29 (RHR_WT01)	18:18	15	08:24 (MVN_WT01)	19:05			20:56			21:42	22	06:37 (CBR_WT01)	22:05	33	06:45 (CBR_WT01)
26	08:32		09:03 (RHR_WT01)	07:38		08:02 (MXS_WT01)	06:37			06:30			05:42		06:09 (SAM_WT11)	05:31		06:04 (SAM_WT11)
	17:24	26	09:29 (RHR_WT01)	18:19	19	08:22 (MVN_WT01)	19:07			20:58			21:43	24	06:37 (CBR_WT01)	22:05	34	06:45 (CBR_WT01)
27	08:31		09:03 (RHR_WT01)	07:36		08:00 (MXS_WT01)	06:35			06:28			05:41		06:08 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:26	26	09:29 (RHR_WT01)	18:21	15	08:15 (MXS_WT01)	19:09			21:00			21:45	26	06:38 (CBR_WT01)	22:05	34	06:44 (CBR_WT01)
28	08:30		09:03 (RHR_WT01)	07:34		07:57 (MXS_WT01)	06:32			06:26			05:40		06:07 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:28	29	16:58 (NES_WT01)	18:23	19	08:16 (MXS_WT01)	19:10			21:01			21:46	28	06:38 (CBR_WT01)	22:05	35	06:45 (CBR_WT01)
29	08:28		08:54 (MVZ_WT02)				07:30			06:24			05:39		06:07 (SAM_WT11)	05:33		06:05 (SAM_WT11)
	17:29	31	16:59 (NES_WT01)				20:12			21:03			21:47	29	06:39 (CBR_WT01)	22:05	35	06:46 (CBR_WT01)
30	08:27		08:53 (MVZ_WT02)				07:28		19:46 (KLZ_WT16)	06:22		06:46 (SAM_WT05)	05:38		06:06 (SAM_WT11)	05:33		06:04 (SAM_WT11)
	17:31	34	17:02 (NES_WT01)				20:14	3	19:49 (KLZ_WT16)	21:05	3	06:49 (SAM_WT05)	21:48	31	06:40 (CBR_WT01)	22:04	37	06:46 (CBR_WT01)
31	08:25		08:51 (MVZ_WT02)				07:26		19:45 (KLZ_WT16)				05:37		06:05 (SAM_WT11)			
	17:33	37	17:03 (NES_WT01)				20:15	5	19:50 (KLZ_WT16)				21:49	32	06:40 (CBR_WT01)			
Potential sun hours	262			279			367			414			482			495		
Total, worst case		581			350			328			86			595			1047	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,55			0,58			0,55			0,61			0,67			0,70	
Total reduction		0,13			0,17			0,20			0,28			0,30			0,30	
Total, real		77			60			67			24			176			317	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT11)	06:09		06:37 (SAM_WT04)	06:57			07:44		08:33 (MXS_WT01)	07:36			08:26		09:23 (RHR_WT02)
	22:04	37	06:46 (CBR_WT01)	21:34	26	21:04 (KLZ_WT15)	20:33			19:25	18	08:51 (MXS_WT01)	17:21			16:42	7	09:30 (RHR_WT02)
2	05:34		06:04 (SAM_WT11)	06:11		06:39 (SAM_WT04)	06:59			07:46		08:32 (MXS_WT01)	07:38			08:27		09:22 (RHR_WT02)
	22:04	38	06:46 (CBR_WT01)	21:32	27	21:03 (KLZ_WT15)	20:31			19:23	20	08:52 (MXS_WT01)	17:19			16:41	10	09:32 (RHR_WT02)
3	05:35		06:05 (SAM_WT11)	06:12		06:40 (SAM_WT04)	07:00			07:48		08:30 (MXS_WT01)	07:40			08:29		09:21 (RHR_WT02)
	22:03	37	06:46 (CBR_WT01)	21:30	28	21:01 (KLZ_WT15)	20:29			19:21	23	08:53 (MXS_WT01)	17:17			16:41	12	09:33 (RHR_WT02)
4	05:36		06:06 (SAM_WT11)	06:14		06:41 (SAM_WT04)	07:02		19:46 (KLZ_WT16)	07:49		08:29 (MXS_WT01)	07:42		16:30 (NES_WT01)	08:30		09:21 (RHR_WT02)
	22:03	37	06:47 (CBR_WT01)	21:29	25	20:59 (KLZ_WT15)	20:27	1	19:47 (KLZ_WT16)	19:19	25	08:54 (MXS_WT01)	17:16	3	16:33 (NES_WT01)	16:40	14	09:35 (RHR_WT02)
5	05:37		06:06 (SAM_WT11)	06:15		06:45 (SAM_WT05)	07:03		19:42 (KLZ_WT16)	07:51		08:28 (MXS_WT01)	07:43		08:18 (MVZ_WT02)	08:31		09:21 (RHR_WT02)
	22:03	36	06:46 (CBR_WT01)	21:27	24	20:58 (KLZ_WT15)	20:24	9	19:51 (KLZ_WT16)	19:16	26	08:54 (MXS_WT01)	17:14	14	16:36 (NES_WT01)	16:40	15	09:36 (RHR_WT02)
6	05:38		06:07 (SAM_WT11)	06:17		06:44 (SAM_WT05)	07:05		19:39 (KLZ_WT16)	07:53		08:27 (MXS_WT01)	07:45		08:17 (MVZ_WT02)	08:33		09:20 (RHR_WT02)
	22:02	37	06:47 (CBR_WT01)	21:25	23	20:56 (KLZ_WT15)	20:22	13	19:52 (KLZ_WT16)	19:14	27	08:54 (MXS_WT01)	17:12	29	16:37 (NES_WT01)	16:40	16	09:36 (RHR_WT02)
7	05:38		06:08 (SAM_WT11)	06:18		06:46 (SAM_WT05)	07:07		19:38 (KLZ_WT16)	07:54		08:27 (MXS_WT01)	07:47		08:16 (MVZ_WT02)	08:34		09:20 (RHR_WT02)
	22:02	36	06:47 (CBR_WT01)	21:23	19	20:55 (KLZ_WT15)	20:20	15	19:53 (KLZ_WT16)	19:12	27	08:54 (MXS_WT01)	17:11	37	16:38 (NES_WT01)	16:39	17	09:37 (RHR_WT02)
8	05:39		06:09 (SAM_WT11)	06:20		06:47 (SAM_WT05)	07:08		19:37 (KLZ_WT16)	07:56		08:27 (MXS_WT01)	07:49		08:17 (MVZ_WT02)	08:35		09:21 (RHR_WT02)
	22:01	35	06:47 (CBR_WT01)	21:22	16	20:53 (KLZ_WT15)	20:18	14	19:51 (KLZ_WT16)	19:10	27	08:54 (MXS_WT01)	17:09	42	16:39 (NES_WT01)	16:39	18	09:39 (RHR_WT02)
9	05:40		06:10 (SAM_WT11)	06:21		06:49 (SAM_WT05)	07:10		19:37 (KLZ_WT16)	07:57		08:26 (MXS_WT01)	07:50		08:19 (MVZ_WT02)	08:36		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:20	11	07:00 (SAM_WT05)	20:15	12	19:49 (KLZ_WT16)	19:08	27	08:53 (MXS_WT01)	17:07	42	16:38 (NES_WT01)	16:39	18	09:39 (RHR_WT02)
10	05:41		06:11 (SAM_WT11)	06:23		06:50 (SAM_WT05)	07:11		19:36 (KLZ_WT16)	07:59		08:26 (MXS_WT01)	07:52		08:21 (MVZ_WT02)	08:37		09:21 (RHR_WT02)
	22:00	35	06:48 (CBR_WT01)	21:18	9	06:59 (SAM_WT05)	20:13	10	19:46 (KLZ_WT16)	19:05	27	08:53 (MXS_WT01)	17:06	39	16:36 (NES_WT01)	16:38	19	09:40 (RHR_WT02)
11	05:42		06:12 (SAM_WT11)	06:24		06:51 (SAM_WT05)	07:13		19:36 (KLZ_WT16)	08:01		08:27 (MXS_WT01)	07:54		08:22 (MVZ_WT02)	08:38		09:21 (RHR_WT02)
	21:59	33	06:48 (CBR_WT01)	21:16	7	06:58 (SAM_WT05)	20:11	9	19:45 (KLZ_WT16)	19:03	25	08:52 (MXS_WT01)	17:04	37	16:34 (NES_WT01)	16:38	19	09:40 (RHR_WT02)
12	05:43		06:13 (SAM_WT11)	06:26		06:53 (SAM_WT05)	07:14		19:36 (KLZ_WT16)	08:02		08:27 (MXS_WT01)	07:56		08:24 (MVZ_WT02)	08:39		09:21 (RHR_WT02)
	21:58	32	06:48 (CBR_WT01)	21:14	5	06:58 (SAM_WT05)	20:09	6	19:42 (KLZ_WT16)	19:01	24	08:51 (MXS_WT01)	17:03	34	16:32 (NES_WT01)	16:38	20	09:41 (RHR_WT02)
13	05:44		06:14 (SAM_WT11)	06:27		06:54 (SAM_WT05)	07:16		19:37 (KLZ_WT16)	08:04		08:29 (MXS_WT01)	07:57		08:35 (RHR_WT01)	08:40		09:21 (RHR_WT02)
	21:57	32	06:48 (CBR_WT01)	21:12	2	06:56 (SAM_WT05)	20:06	3	19:40 (KLZ_WT16)	18:59	21	08:50 (MXS_WT01)	17:01	30	16:31 (NES_WT01)	16:38	20	09:41 (RHR_WT02)
14	05:45		06:15 (SAM_WT11)	06:29			07:17			08:06		08:31 (MXS_WT01)	07:59		08:35 (RHR_WT01)	08:41		09:22 (RHR_WT02)
	21:56	31	06:48 (CBR_WT01)	21:11			20:04			18:57	18	08:49 (MXS_WT01)	17:00	27	16:29 (NES_WT01)	16:38	20	09:42 (RHR_WT02)
15	05:46		06:16 (SAM_WT11)	06:30			07:19			08:07		08:33 (MXS_WT01)	08:01		08:36 (RHR_WT01)	08:42		09:22 (RHR_WT02)
	21:55	29	06:48 (CBR_WT01)	21:09			20:02			18:55	20	08:53 (MVN_WT01)	16:59	26	09:02 (RHR_WT01)	16:38	21	09:43 (RHR_WT02)
16	05:48		06:17 (SAM_WT11)	06:32			07:21			08:09		08:34 (MXS_WT01)	08:02		08:36 (RHR_WT01)	08:43		09:23 (RHR_WT02)
	21:54	27	06:48 (CBR_WT01)	21:07			20:00			18:53	19	08:54 (MVN_WT01)	16:57	26	09:02 (RHR_WT01)	16:38	21	09:44 (RHR_WT02)
17	05:49		06:18 (SAM_WT11)	06:34			07:22			08:11		08:43 (MVN_WT01)	08:04		08:36 (MVZ_WT01)	08:44		09:23 (RHR_WT02)
	21:53	25	06:47 (CBR_WT01)	21:05			19:57			18:50	13	08:56 (MVN_WT01)	16:56	27	09:03 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
18	05:50		06:24 (CBR_WT01)	06:35			07:24			08:12		08:42 (MVN_WT01)	08:06		08:35 (MVZ_WT01)	08:45		09:23 (RHR_WT02)
	21:52	23	06:47 (CBR_WT01)	21:03			19:55			18:48	15	08:57 (MVN_WT01)	16:55	27	09:02 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
19	05:51		06:24 (CBR_WT01)	06:37			07:25			08:14		08:42 (MVN_WT01)	08:07		08:37 (MVZ_WT01)	08:45		09:24 (RHR_WT02)
	21:51	22	06:46 (CBR_WT01)	21:01			19:53			18:46	15	08:57 (MVN_WT01)	16:53	25	09:02 (RHR_WT01)	16:39	21	09:45 (RHR_WT02)
20	05:53		06:26 (CBR_WT01)	06:38			07:27			08:16		08:42 (MVN_WT01)	08:09		08:39 (MVZ_WT01)	08:46		09:25 (RHR_WT02)
	21:50	20	06:46 (CBR_WT01)	20:59			19:50			18:44	15	08:57 (MVN_WT01)	16:52	24	09:03 (RHR_WT01)	16:39	21	09:46 (RHR_WT02)
21	05:54		06:27 (CBR_WT01)	06:40			07:28			08:17		08:43 (MVN_WT01)	08:11		08:41 (MVZ_WT01)	08:46		09:24 (RHR_WT02)
	21:49	19	06:46 (CBR_WT01)	20:57			19:48			18:42	13	08:56 (MVN_WT01)	16:51	22	09:03 (RHR_WT01)	16:40	22	09:46 (RHR_WT02)
22	05:55		06:27 (CBR_WT01)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (MVZ_WT01)	08:47		09:25 (RHR_WT02)
	21:48	18	06:45 (CBR_WT01)	20:55			19:46			18:40	11	08:56 (MVN_WT01)	16:50	20	09:03 (RHR_WT01)	16:40	22	09:47 (RHR_WT02)
23	05:56		06:28 (CBR_WT01)	06:43			07:32			08:21		08:47 (MVN_WT01)	08:14		08:44 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:46	15	06:43 (CBR_WT01)	20:52			19:44			18:38	8	08:55 (MVN_WT01)	16:49	18	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
24	05:58		06:30 (CBR_WT01)	06:45			07:33			08:23		08:49 (MVN_WT01)	08:15		08:46 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:45	13	06:43 (CBR_WT01)	20:50			19:41			18:36	4	08:53 (MVN_WT01)	16:48	16	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
25	05:59		06:32 (CBR_WT01)	06:46			07:35			07:24			08:17		08:48 (MVZ_WT01)	08:48		09:27 (RHR_WT02)
	21:44	8	06:40 (CBR_WT01)	20:48			19:39			17:34			16:47	14	09:02 (RHR_WT01)	16:42	21	09:48 (RHR_WT02)
26	06:01			06:48			07:36			07:26			08:19		08:49 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:42			20:46			19:37			17:32			16:46	12	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
27	06:02		20:55 (KLZ_WT15)	06:49			07:38			07:28			08:20		08:51 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:41	4	20:59 (KLZ_WT15)	20:44			19:34			17:30			16:45	10	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
28	06:03		06:34 (SAM_WT04)	06:51			07:40			07:30			08:22		08:53 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:40	15	21:02 (KLZ_WT15)	20:42			19:32			17:28			16:44	8	09:01 (RHR_WT01)	16:44	21	09:49 (RHR_WT02)
29	06:05		06:33 (SAM_WT04)	06:52			07:41		08:41 (MXS_WT01)	07:31			08:23		08:54 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:38	20	21:03 (KLZ_WT15)	20:40			19:30	4	08:45 (MXS_WT01)	17:26			16:44	6	09:00 (RHR_WT01)	16:45	21	09:49 (RHR_WT02)
30	06:06		06:34 (SAM_WT04)	06:54			07:43		08:35 (MXS_WT01)	07:33			08:25		08:56 (RHR_WT01)	08:49		09:29 (RHR_WT02)
	21:37	20	21:03 (KLZ_WT15)	20:38			19:28	13	08:48 (MXS_WT01)	17:25			16:43	3	08:59 (RHR_WT01)	16:46	20	09:49 (RHR_WT02)
31	06:08		06:36 (SAM_WT04)	06:56						07:35						08:49		09:30 (RHR_WT02)
	21:35	22	21:04 (KLZ_WT15)	20:35						17:23						16:47	20	09:50 (RHR_WT02)
Potential sun hours	498			451			380			333			269			248		
Total, worst case	791			222			109			468			618			582		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,69			0,64			0,60			0,55			0,57			0,54		
Total reduction	0,30			0,29			0,25			0,20			0,15			0,12		
Total, real	239			65			28			92			92			69		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:23 (RHR_WT03)	08:24		08:50 (MVZ_WT01)	07:32		08:04 (MVN_WT01)	07:23		19:36 (KLZ_WT16)	06:20		06:44 (CBR_WT01)	05:36		06:16 (KLZ_WT10)
	16:48	42	10:22 (ALB_WT01)	17:35	6	08:56 (MVZ_WT01)	18:25	4	08:08 (MVN_WT01)	20:17	16	19:52 (KLZ_WT16)	21:06	14	06:58 (CBR_WT01)	21:50	40	21:19 (KLZ_WT15)
2	08:49		09:23 (RHR_WT03)	08:23		08:48 (MVZ_WT01)	07:30			07:21		19:34 (KLZ_WT16)	06:18		06:42 (CBR_WT01)	05:36		06:17 (KLZ_WT10)
	16:49	41	10:22 (ALB_WT01)	17:36	7	08:55 (MVZ_WT01)	18:27			20:19	19	19:53 (KLZ_WT16)	21:08	16	06:58 (CBR_WT01)	21:52	40	21:20 (KLZ_WT15)
3	08:49		09:23 (RHR_WT03)	08:21		08:46 (MVZ_WT01)	07:28		07:51 (MXS_WT01)	07:19		19:33 (KLZ_WT16)	06:16		06:41 (CBR_WT01)	05:35		06:16 (KLZ_WT10)
	16:50	40	10:21 (ALB_WT01)	17:38	9	08:55 (MVZ_WT01)	18:28	1	07:52 (MXS_WT01)	20:20	22	19:55 (KLZ_WT16)	21:09	19	07:00 (CBR_WT01)	21:53	41	21:21 (KLZ_WT15)
4	08:49		09:24 (RHR_WT03)	08:19		08:45 (RHR_WT01)	07:26		07:49 (MXS_WT01)	07:17		19:33 (KLZ_WT16)	06:15		06:39 (SAM_WT04)	05:34		06:16 (KLZ_WT10)
	16:51	41	16:18 (NES_WT01)	17:40	10	08:55 (MVZ_WT01)	18:30	5	07:54 (MXS_WT01)	20:22	23	19:56 (KLZ_WT16)	21:11	21	07:00 (CBR_WT01)	21:54	42	21:21 (KLZ_WT15)
5	08:49		09:25 (RHR_WT03)	08:18		08:43 (RHR_WT01)	07:24		07:46 (MXS_WT01)	07:14		19:33 (KLZ_WT16)	06:13		06:40 (CBR_WT01)	05:34		06:17 (KLZ_WT10)
	16:53	38	16:19 (NES_WT01)	17:42	12	08:55 (RHR_WT01)	18:32	8	07:54 (MXS_WT01)	20:24	23	19:56 (KLZ_WT16)	21:13	19	06:59 (CBR_WT01)	21:55	41	21:22 (KLZ_WT15)
6	08:49		09:25 (RHR_WT03)	08:16		08:41 (RHR_WT01)	07:21		07:44 (MXS_WT01)	07:12		19:32 (KLZ_WT16)	06:11		06:36 (KLZ_WT11)	05:33		06:17 (KLZ_WT10)
	16:54	38	16:20 (NES_WT01)	17:44	15	08:56 (RHR_WT01)	18:33	11	07:55 (MXS_WT01)	20:25	23	19:55 (KLZ_WT16)	21:14	23	07:00 (CBR_WT01)	21:56	40	21:21 (KLZ_WT15)
7	08:48		09:26 (RHR_WT03)	08:15		08:39 (RHR_WT01)	07:19		07:42 (MXS_WT01)	07:10		19:32 (KLZ_WT16)	06:09		06:34 (KLZ_WT11)	05:32		06:01 (SAM_WT07)
	16:55	34	16:22 (NES_WT01)	17:45	17	08:56 (RHR_WT01)	18:35	13	07:55 (MXS_WT01)	20:27	23	19:55 (KLZ_WT16)	21:16	26	07:00 (CBR_WT01)	21:56	41	21:22 (KLZ_WT15)
8	08:48		09:26 (RHR_WT03)	08:13		08:38 (RHR_WT01)	07:17		07:40 (MXS_WT01)	07:08		19:32 (KLZ_WT16)	06:08		06:32 (KLZ_WT11)	05:32		06:01 (SAM_WT07)
	16:56	33	16:23 (NES_WT01)	17:47	18	08:56 (RHR_WT01)	18:37	16	07:56 (MXS_WT01)	20:29	22	19:54 (KLZ_WT16)	21:17	27	06:59 (CBR_WT01)	21:57	42	21:23 (KLZ_WT15)
9	08:47		09:27 (RHR_WT03)	08:11		08:36 (RHR_WT01)	07:15		07:38 (MXS_WT01)	07:06		19:33 (KLZ_WT16)	06:06		06:31 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	16:58	35	16:25 (NES_WT01)	17:49	20	08:56 (RHR_WT01)	18:39	17	07:55 (MXS_WT01)	20:30	20	19:53 (KLZ_WT16)	21:19	28	06:59 (CBR_WT01)	21:58	43	21:22 (KLZ_WT15)
10	08:47		09:27 (RHR_WT03)	08:09		08:34 (MVZ_WT02)	07:13		07:37 (MXS_WT01)	07:03		19:34 (KLZ_WT16)	06:04		06:29 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	16:59	35	16:26 (NES_WT01)	17:51	21	08:55 (RHR_WT01)	18:40	17	07:54 (MXS_WT01)	20:32	18	19:52 (KLZ_WT16)	21:21	29	06:58 (CBR_WT01)	21:59	43	21:23 (KLZ_WT15)
11	08:46		09:15 (RHR_WT02)	08:08		08:32 (MVZ_WT02)	07:10		07:38 (MXS_WT01)	07:01		19:35 (KLZ_WT16)	06:03		06:29 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	17:00	37	16:27 (NES_WT01)	17:53	23	08:55 (RHR_WT01)	18:42	15	07:53 (MXS_WT01)	20:33	16	19:51 (KLZ_WT16)	21:22	29	06:58 (CBR_WT01)	22:00	42	21:23 (KLZ_WT15)
12	08:46		09:14 (RHR_WT02)	08:06		08:38 (RHR_WT01)	07:08		07:39 (MXS_WT01)	06:59		19:36 (KLZ_WT16)	06:01		06:26 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:02	41	16:29 (NES_WT01)	17:55	16	08:54 (RHR_WT01)	18:44	13	07:52 (MXS_WT01)	20:35	12	19:48 (KLZ_WT16)	21:24	29	06:56 (CBR_WT01)	22:00	43	21:22 (KLZ_WT15)
13	08:45		09:14 (RHR_WT02)	08:04		08:39 (RHR_WT01)	07:06		07:40 (MXS_WT01)	06:57		19:40 (KLZ_WT16)	06:00		06:25 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:03	42	16:31 (NES_WT01)	17:56	13	08:52 (RHR_WT01)	18:45	10	07:50 (MXS_WT01)	20:37	4	19:44 (KLZ_WT16)	21:25	29	06:56 (CBR_WT01)	22:01	44	21:23 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02		08:42 (RHR_WT01)	07:04			06:55			05:58		06:23 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:05	44	16:32 (NES_WT01)	17:58	8	08:50 (RHR_WT01)	18:47			20:38			21:27	25	06:53 (CBR_WT01)	22:01	43	21:23 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00			07:02			06:52			05:56		06:22 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:06	45	16:32 (NES_WT01)	18:00			18:49			20:40			21:28	20	06:51 (CBR_WT01)	22:02	42	21:23 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58			06:59			06:50			05:55		06:21 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:08	44	16:32 (NES_WT01)	18:02			18:50			20:42			21:30	15	06:40 (KLZ_WT11)	22:03	44	21:24 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:56			06:57			06:48			05:54		06:19 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:09	44	16:33 (NES_WT01)	18:04			18:52			20:43			21:31	15	06:39 (KLZ_WT11)	22:03	42	21:24 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55			06:55			06:46			05:52		06:18 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:11	42	16:33 (NES_WT01)	18:05			18:54			20:45			21:33	11	06:37 (KLZ_WT11)	22:03	42	21:24 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53			06:53			06:44			05:51		06:17 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:12	41	16:33 (NES_WT01)	18:07			18:55			20:47			21:34	12	06:29 (KLZ_WT10)	22:04	42	21:24 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51			06:50			06:42			05:49		06:20 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:14	36	16:33 (NES_WT01)	18:09			18:57			20:48			21:35	10	06:30 (KLZ_WT10)	22:04	43	21:24 (KLZ_WT15)
21	08:38		09:05 (RHR_WT02)	07:49			06:48			06:40		07:03 (SAM_WT05)	05:48		06:19 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:16	30	16:32 (NES_WT01)	18:11			18:59			20:50	2	07:05 (SAM_WT05)	21:37	13	06:32 (KLZ_WT10)	22:04	43	21:24 (KLZ_WT15)
22	08:37		09:05 (RHR_WT02)	07:47		08:10 (MVN_WT01)	06:46			06:38		07:01 (SAM_WT05)	05:47		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:17	28	16:32 (NES_WT01)	18:12	2	08:12 (MVN_WT01)	19:00			20:52	4	07:05 (SAM_WT05)	21:38	18	21:07 (KLZ_WT15)	22:05	43	21:25 (KLZ_WT15)
23	08:36		09:06 (RHR_WT02)	07:45		08:08 (MVN_WT01)	06:44			06:36		06:59 (SAM_WT05)	05:46		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:19	27	16:32 (NES_WT01)	18:14	5	08:13 (MVN_WT01)	19:02			20:53	6	07:05 (SAM_WT05)	21:39	22	21:09 (KLZ_WT15)	22:05	42	21:25 (KLZ_WT15)
24	08:35		09:06 (RHR_WT02)	07:43		08:06 (MVN_WT01)	06:41			06:34		06:57 (SAM_WT05)	05:44		06:16 (KLZ_WT10)	05:31		06:00 (SAM_WT07)
	17:21	21	16:30 (NES_WT01)	18:16	7	08:13 (MVN_WT01)	19:04			20:55	8	07:05 (SAM_WT05)	21:41	26	21:10 (KLZ_WT15)	22:05	42	21:25 (KLZ_WT15)
25	08:34		09:08 (RHR_WT02)	07:41		08:04 (MVN_WT01)	06:39			06:32		06:55 (SAM_WT05)	05:43		06:16 (KLZ_WT10)	05:31		06:01 (SAM_WT07)
	17:22	12	09:20 (RHR_WT02)	18:18	10	08:14 (MVN_WT01)	19:05			20:56	9	07:04 (SAM_WT05)	21:42	28	21:11 (KLZ_WT15)	22:05	42	21:26 (KLZ_WT15)
26	08:32		09:09 (RHR_WT02)	07:38		08:02 (MVN_WT01)	06:37			06:30		06:53 (SAM_WT05)	05:42		06:16 (KLZ_WT10)	05:31		06:01 (SAM_WT07)
	17:24	10	09:19 (RHR_WT02)	18:20	11	08:13 (MVN_WT01)	19:07			20:58	10	07:03 (SAM_WT05)	21:43	30	21:12 (KLZ_WT15)	22:05	43	21:26 (KLZ_WT15)
27	08:31		09:11 (RHR_WT02)	07:36		08:02 (MVN_WT01)	06:35			06:28		06:52 (SAM_WT05)	05:41		06:15 (KLZ_WT10)	05:32		06:02 (SAM_WT07)
	17:26	6	09:17 (RHR_WT02)	18:21	11	08:13 (MVN_WT01)	19:09			21:00	10	07:02 (SAM_WT05)	21:45	33	21:13 (KLZ_WT15)	22:05	43	21:26 (KLZ_WT15)
28	08:30			07:34		08:02 (MVN_WT01)	06:32			06:26		06:53 (SAM_WT05)	05:40		06:15 (KLZ_WT10)	05:32		06:02 (SAM_WT07)
	17:28			18:23	9	08:11 (MVN_WT01)	19:10			21:01	7	07:00 (SAM_WT05)	21:46	34	21:14 (KLZ_WT15)	22:05	42	21:26 (KLZ_WT15)
29	08:28						07:30		19:42 (KLZ_WT16)	06:24		06:48 (CBR_WT01)	05:39		06:16 (KLZ_WT10)	05:33		06:03 (SAM_WT07)
	17:29						20:12	5	19:47 (KLZ_WT16)	21:03	8	06:56 (CBR_WT01)	21:47	36	21:16 (KLZ_WT15)	22:05	43	21:27 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		19:39 (KLZ_WT16)	06:22		06:46 (CBR_WT01)	05:38		06:16 (KLZ_WT10)	05:33		06:03 (SAM_WT07)
	17:31	2	08:55 (MVZ_WT01)				20:14	10	19:49 (KLZ_WT16)	21:05	11	06:57 (CBR_WT01)	21:48	37	21:17 (KLZ_WT15)	22:04	43	21:27 (KLZ_WT15)
31	08:25		08:51 (MVZ_WT01)				07:26		19:37 (KLZ_WT16)				05:37		06:16 (KLZ_WT10)			
	17:33	4	08:55 (MVZ_WT01)				20:15	13	19:50 (KLZ_WT16)				21:49	38	21:18 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		933			250			158			316			732			1266	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,58			0,55			0,57			0,62			0,66			0,62	
Total reduction		0,14			0,16			0,21			0,28			0,30			0,27	
Total, real		132			41			33			89			216			341	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT07)	06:09		06:38 (KLZ_WT11)	06:57		19:34 (KLZ_WT16)	07:44		08:18 (MXS_WT01)	07:37		08:04 (MVZ_WT02)	08:26		08:57 (RHR_WT02)
	22:04	43	21:27 (KLZ_WT15)	21:34	29	07:07 (CBR_WT01)	20:33	16	19:50 (KLZ_WT16)	19:25	12	08:30 (MXS_WT01)	17:21	21	08:25 (RHR_WT01)	16:42	36	16:09 (NES_WT01)
2	05:35		06:04 (SAM_WT07)	06:11		06:39 (KLZ_WT11)	06:59		19:32 (KLZ_WT16)	07:46		08:17 (MXS_WT01)	07:38		08:06 (RHR_WT01)	08:27		09:10 (RHR_WT03)
	22:04	43	21:27 (KLZ_WT15)	21:32	29	07:08 (CBR_WT01)	20:31	18	19:50 (KLZ_WT16)	19:23	15	08:32 (MXS_WT01)	17:19	20	08:26 (RHR_WT01)	16:42	35	16:09 (NES_WT01)
3	05:35		06:05 (SAM_WT07)	06:12		06:40 (KLZ_WT11)	07:00		19:31 (KLZ_WT16)	07:48		08:15 (MXS_WT01)	07:40		08:07 (RHR_WT01)	08:29		09:10 (RHR_WT03)
	22:03	41	21:27 (KLZ_WT15)	21:30	29	07:09 (CBR_WT01)	20:29	21	19:52 (KLZ_WT16)	19:21	17	08:32 (MXS_WT01)	17:17	18	08:25 (RHR_WT01)	16:41	35	16:08 (NES_WT01)
4	05:36		06:06 (SAM_WT07)	06:14		06:41 (KLZ_WT11)	07:02		19:29 (KLZ_WT16)	07:49		08:15 (MXS_WT01)	07:42		08:09 (RHR_WT01)	08:30		09:11 (RHR_WT03)
	22:03	42	21:28 (KLZ_WT15)	21:29	28	07:09 (CBR_WT01)	20:27	22	19:51 (KLZ_WT16)	19:19	17	08:32 (MXS_WT01)	17:16	16	08:25 (RHR_WT01)	16:40	33	16:08 (NES_WT01)
5	05:37		06:07 (SAM_WT07)	06:15		06:43 (KLZ_WT11)	07:03		19:29 (KLZ_WT16)	07:51		08:16 (MXS_WT01)	07:43		08:11 (RHR_WT01)	08:31		09:11 (RHR_WT03)
	22:03	41	21:28 (KLZ_WT15)	21:27	26	07:09 (CBR_WT01)	20:24	23	19:52 (KLZ_WT16)	19:16	17	08:33 (MXS_WT01)	17:14	14	08:25 (RHR_WT01)	16:40	32	16:07 (NES_WT01)
6	05:38		06:23 (KLZ_WT10)	06:17		06:44 (KLZ_WT11)	07:05		19:28 (KLZ_WT16)	07:53		08:17 (MXS_WT01)	07:45		08:13 (RHR_WT01)	08:33		09:11 (RHR_WT03)
	22:02	41	21:28 (KLZ_WT15)	21:25	25	07:09 (CBR_WT01)	20:22	23	19:51 (KLZ_WT16)	19:14	14	08:31 (MXS_WT01)	17:12	12	08:25 (RHR_WT01)	16:40	37	16:06 (NES_WT01)
7	05:38		06:24 (KLZ_WT10)	06:18		06:46 (KLZ_WT11)	07:07		19:28 (KLZ_WT16)	07:54		08:19 (MXS_WT01)	07:47		08:15 (MVZ_WT01)	08:34		09:12 (RHR_WT03)
	22:02	41	21:28 (KLZ_WT15)	21:24	21	07:10 (CBR_WT01)	20:20	23	19:51 (KLZ_WT16)	19:12	12	08:31 (MXS_WT01)	17:11	10	08:25 (MVZ_WT01)	16:39	38	16:06 (NES_WT01)
8	05:39		06:24 (KLZ_WT10)	06:20		06:49 (CBR_WT01)	07:08		19:27 (KLZ_WT16)	07:56		08:21 (MXS_WT01)	07:49		08:17 (MVZ_WT01)	08:35		09:12 (RHR_WT03)
	22:01	40	21:28 (KLZ_WT15)	21:22	20	07:09 (CBR_WT01)	20:18	23	19:50 (KLZ_WT16)	19:10	10	08:31 (MXS_WT01)	17:09	9	08:26 (MVZ_WT01)	16:39	40	16:06 (NES_WT01)
9	05:40		06:24 (KLZ_WT10)	06:21		06:49 (SAM_WT04)	07:10		19:28 (KLZ_WT16)	07:57		08:22 (MXS_WT01)	07:50		08:19 (MVZ_WT01)	08:36		09:12 (RHR_WT03)
	22:00	41	21:28 (KLZ_WT15)	21:20	20	07:09 (CBR_WT01)	20:15	21	19:49 (KLZ_WT16)	19:08	7	08:29 (MXS_WT01)	17:07	7	08:26 (MVZ_WT01)	16:39	40	10:10 (ALB_WT01)
10	05:41		06:24 (KLZ_WT10)	06:23		06:50 (CBR_WT01)	07:11		19:27 (KLZ_WT16)	07:59		08:24 (MXS_WT01)	07:52		08:21 (MVZ_WT01)	08:37		09:13 (RHR_WT03)
	22:00	41	21:28 (KLZ_WT15)	21:18	18	07:08 (CBR_WT01)	20:13	19	19:46 (KLZ_WT16)	19:05	3	08:27 (MXS_WT01)	17:06	6	08:27 (MVZ_WT01)	16:38	40	10:11 (ALB_WT01)
11	05:42		06:24 (KLZ_WT10)	06:24		06:51 (CBR_WT01)	07:13		19:28 (KLZ_WT16)	08:01			07:54		08:23 (MVZ_WT01)	08:38		09:13 (RHR_WT03)
	21:59	39	21:27 (KLZ_WT15)	21:16	16	07:07 (CBR_WT01)	20:11	17	19:45 (KLZ_WT16)	19:03			17:04	4	08:27 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
12	05:43		06:24 (KLZ_WT10)	06:26		06:53 (CBR_WT01)	07:14		19:28 (KLZ_WT16)	08:02			07:56		08:24 (MVZ_WT01)	08:39		09:13 (RHR_WT03)
	21:58	40	21:27 (KLZ_WT15)	21:14	13	07:06 (CBR_WT01)	20:09	14	19:42 (KLZ_WT16)	19:01			17:03	2	08:26 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
13	05:44		06:24 (KLZ_WT10)	06:27		06:54 (CBR_WT01)	07:16		19:30 (KLZ_WT16)	08:04		08:36 (MVN_WT01)	07:57			08:40		09:14 (RHR_WT03)
	21:57	39	21:26 (KLZ_WT15)	21:13	10	07:04 (CBR_WT01)	20:06	10	19:40 (KLZ_WT16)	18:59	7	08:43 (MVN_WT01)	17:01			16:38	42	10:13 (ALB_WT01)
14	05:45		06:24 (KLZ_WT10)	06:29		06:56 (CBR_WT01)	07:18		19:32 (KLZ_WT16)	08:06		08:34 (MVN_WT01)	07:59			08:41		09:14 (RHR_WT03)
	21:56	37	21:25 (KLZ_WT15)	21:11	7	07:03 (CBR_WT01)	20:04	5	19:37 (KLZ_WT16)	18:57	10	08:44 (MVN_WT01)	17:00			16:38	44	10:14 (ALB_WT01)
15	05:47		06:25 (KLZ_WT10)	06:30		07:01 (SAM_WT05)	07:19			08:07		08:34 (MVN_WT01)	08:01		08:44 (RHR_WT02)	08:42		09:15 (RHR_WT03)
	21:55	35	21:24 (KLZ_WT15)	21:09	7	07:08 (SAM_WT05)	20:02			18:55	11	08:45 (MVN_WT01)	16:59	6	08:50 (RHR_WT02)	16:38	44	10:15 (ALB_WT01)
16	05:48		06:25 (KLZ_WT10)	06:32		06:59 (SAM_WT05)	07:21			08:09		08:34 (MVN_WT01)	08:02		08:42 (RHR_WT02)	08:43		09:15 (RHR_WT03)
	21:54	33	21:23 (KLZ_WT15)	21:07	11	07:10 (SAM_WT05)	20:00			18:53	11	08:45 (MVN_WT01)	16:57	10	08:52 (RHR_WT02)	16:38	45	10:16 (ALB_WT01)
17	05:49		06:25 (KLZ_WT10)	06:34		07:00 (SAM_WT05)	07:22			08:11		08:36 (MVN_WT01)	08:04		08:42 (RHR_WT02)	08:44		09:16 (RHR_WT03)
	21:53	32	21:22 (KLZ_WT15)	21:05	10	07:10 (SAM_WT05)	19:57			18:50	9	08:45 (MVN_WT01)	16:56	12	08:54 (RHR_WT02)	16:39	46	10:17 (ALB_WT01)
18	05:50		06:25 (KLZ_WT10)	06:35		07:02 (SAM_WT05)	07:24			08:12		08:38 (MVN_WT01)	08:06		08:40 (RHR_WT02)	08:45		09:16 (RHR_WT03)
	21:52	29	21:21 (KLZ_WT15)	21:03	9	07:11 (SAM_WT05)	19:55			18:48	7	08:45 (MVN_WT01)	16:55	21	16:04 (NES_WT01)	16:39	44	10:16 (ALB_WT01)
19	05:51		06:25 (KLZ_WT10)	06:37		07:03 (SAM_WT05)	07:25			08:14		08:40 (MVN_WT01)	08:07		08:40 (RHR_WT02)	08:45		09:17 (RHR_WT03)
	21:51	28	21:20 (KLZ_WT15)	21:01	7	07:10 (SAM_WT05)	19:53			18:46	4	08:44 (MVN_WT01)	16:53	27	16:06 (NES_WT01)	16:39	44	10:17 (ALB_WT01)
20	05:53		06:27 (KLZ_WT10)	06:38		07:05 (SAM_WT05)	07:27			08:16		08:42 (MVN_WT01)	08:09		08:40 (RHR_WT02)	08:46		09:18 (RHR_WT03)
	21:50	24	21:20 (KLZ_WT15)	20:59	6	07:11 (SAM_WT05)	19:50			18:44	1	08:43 (MVN_WT01)	16:52	28	16:07 (NES_WT01)	16:39	45	10:18 (ALB_WT01)
21	05:54		06:27 (KLZ_WT10)	06:40		07:06 (SAM_WT05)	07:29			08:18			08:11		08:41 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	21	21:18 (KLZ_WT15)	20:57	4	07:10 (SAM_WT05)	19:48			18:42			16:51	30	16:08 (NES_WT01)	16:40	45	10:18 (ALB_WT01)
22	05:55		06:28 (KLZ_WT10)	06:41		07:08 (SAM_WT05)	07:30			08:19			08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	16	21:17 (KLZ_WT15)	20:55	1	07:09 (SAM_WT05)	19:46			18:40			16:50	36	16:09 (NES_WT01)	16:40	45	10:19 (ALB_WT01)
23	05:56		06:29 (KLZ_WT10)	06:43			07:32			08:21			08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	12	06:41 (KLZ_WT10)	20:53			19:44			18:38			16:49	41	16:09 (NES_WT01)	16:41	45	10:19 (ALB_WT01)
24	05:58		06:29 (SAM_WT11)	06:45			07:33			08:23			08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	11	06:40 (KLZ_WT10)	20:50			19:41			18:36			16:48	42	16:10 (NES_WT01)	16:41	45	10:19 (ALB_WT01)
25	05:59		06:28 (SAM_WT11)	06:46			07:35			07:24			08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	11	06:46 (KLZ_WT11)	20:48			19:39			17:34			16:47	44	16:11 (NES_WT01)	16:42	44	10:20 (ALB_WT01)
26	06:01		06:29 (SAM_WT11)	06:48			07:36			07:26			08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	13	06:49 (KLZ_WT11)	20:46			19:37			17:32			16:46	43	16:10 (NES_WT01)	16:43	46	10:21 (ALB_WT01)
27	06:02		06:30 (SAM_WT11)	06:49			07:38			07:28			08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	16	06:50 (KLZ_WT11)	20:44			19:34			17:30			16:45	43	16:11 (NES_WT01)	16:43	45	10:21 (ALB_WT01)
28	06:03		06:32 (SAM_WT11)	06:51			07:40			07:30		08:11 (RHR_WT01)	08:22		08:53 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:40	16	06:51 (KLZ_WT11)	20:42			19:32			17:28	9	08:20 (RHR_WT01)	16:44	44	16:12 (NES_WT01)	16:44	44	10:21 (ALB_WT01)
29	06:05		06:33 (SAM_WT11)	06:52			07:41			07:31		08:09 (RHR_WT01)	08:23		08:54 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:38	24	07:03 (CBR_WT01)	20:40			19:30			17:27	13	08:22 (RHR_WT01)	16:44	43	16:11 (NES_WT01)	16:45	44	10:21 (ALB_WT01)
30	06:06		06:34 (SAM_WT11)	06:54		19:41 (KLZ_WT16)	07:43		08:20 (MXS_WT01)	07:33		08:04 (MVZ_WT02)	08:25		08:56 (RHR_WT02)	08:49		09:22 (RHR_WT03)
	21:37	29	07:05 (CBR_WT01)	20:38	4	19:45 (KLZ_WT16)	19:28	8	08:28 (MXS_WT01)	17:25	17	08:23 (RHR_WT01)	16:43	41	16:11 (NES_WT01)	16:46	43	10:21 (ALB_WT01)
31	06:08		06:36 (SAM_WT11)	06:56		19:36 (KLZ_WT16)				07:35		08:02 (MVZ_WT02)				08:50		09:22 (RHR_WT03)
	21:35	29	07:06 (CBR_WT01)	20:35	12	19:48 (KLZ_WT16)				17:23	22	08:24 (RHR_WT01)				16:47	43	10:21 (ALB_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		948			362			263			245			650			1293	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,67			0,61			0,56			0,59			0,55	
Total reduction		0,28			0,30			0,26			0,20			0,15			0,12	
Total, real		265			110			68			49			100			156	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 15 - Hageland 14, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (ATS_WT01)	08:24			07:32		07:55 (ALB_WT01)	07:23			06:20		07:00 (KLZ_WT16)	05:37		06:07 (KLZ_WT21)
	16:48	11	09:31 (ATS_WT01)	17:35			18:25	7	08:02 (ALB_WT01)	20:17			21:06	25	07:25 (KLZ_WT16)	21:51	11	06:18 (KLZ_WT21)
2	08:50		09:20 (ATS_WT01)	08:23			07:30			07:21			06:18		07:00 (KLZ_WT16)	05:36		06:09 (KLZ_WT21)
	16:49	12	09:32 (ATS_WT01)	17:37			18:27			20:19			21:08	24	07:24 (KLZ_WT16)	21:52	9	06:18 (KLZ_WT21)
3	08:49		09:20 (ATS_WT01)	08:21			07:28			07:19			06:17		07:02 (KLZ_WT16)	05:35		06:09 (KLZ_WT21)
	16:50	12	09:32 (ATS_WT01)	17:38			18:28			20:20			21:10	22	07:24 (KLZ_WT16)	21:53	8	06:17 (KLZ_WT21)
4	08:49		09:19 (ATS_WT01)	08:20			07:26			07:17			06:15		07:02 (KLZ_WT16)	05:34		06:11 (KLZ_WT21)
	16:52	13	09:32 (ATS_WT01)	17:40			18:30			20:22			21:11	20	07:22 (KLZ_WT16)	21:54	6	06:17 (KLZ_WT21)
5	08:49		09:19 (ATS_WT01)	08:18			07:24			07:14			06:13		07:03 (KLZ_WT16)	05:34		06:12 (KLZ_WT21)
	16:53	14	09:33 (ATS_WT01)	17:42			18:32			20:24			21:13	17	07:20 (KLZ_WT16)	21:55	3	06:15 (KLZ_WT21)
6	08:49		09:19 (ATS_WT01)	08:16			07:22			07:12			06:11		07:06 (KLZ_WT16)	05:33		
	16:54	13	09:32 (ATS_WT01)	17:44			18:34			20:25			21:14	13	07:19 (KLZ_WT16)	21:56		
7	08:48		09:21 (ATS_WT01)	08:15			07:19		07:42 (RHR_WT01)	07:10			06:09		07:08 (KLZ_WT16)	05:33		
	16:55	12	09:33 (ATS_WT01)	17:46			18:35	1	07:43 (RHR_WT01)	20:27			21:16	8	07:16 (KLZ_WT16)	21:57		
8	08:48		09:21 (ATS_WT01)	08:13			07:17		07:40 (RHR_WT01)	07:08			06:08			05:32		
	16:56	11	09:32 (ATS_WT01)	17:47			18:37	1	07:41 (RHR_WT01)	20:29			21:18			21:57		
9	08:48		09:22 (ATS_WT01)	08:11			07:15			07:06			06:06			05:32		
	16:58	11	09:33 (ATS_WT01)	17:49			18:39			20:30			21:19			21:58		
10	08:47		09:23 (ATS_WT01)	08:09			07:13			07:03			06:04			05:31		
	16:59	9	09:32 (ATS_WT01)	17:51			18:40			20:32			21:21			21:59		
11	08:47		09:24 (ATS_WT01)	08:08			07:11			07:01			06:03			05:31		
	17:00	7	09:31 (ATS_WT01)	17:53			18:42			20:34			21:22			22:00		
12	08:46		09:27 (ATS_WT01)	08:06			07:08			06:59		07:22 (KLZ_WT08)	06:01			05:30		
	17:02	4	09:31 (ATS_WT01)	17:55			18:44			20:35	1	07:23 (KLZ_WT08)	21:24			22:00		
13	08:45			08:04			07:06			06:57		07:19 (KLZ_WT08)	06:00			05:30		
	17:03			17:56			18:45			20:37	3	07:22 (KLZ_WT08)	21:25			22:01		
14	08:45			08:02			07:04			06:55		07:17 (KLZ_WT08)	05:58			05:30		
	17:05			17:58			18:47			20:39	4	07:21 (KLZ_WT08)	21:27			22:02		
15	08:44			08:00			07:02			06:53		07:15 (KLZ_WT08)	05:57			05:30		
	17:06			18:00			18:49			20:40	4	07:19 (KLZ_WT08)	21:28			22:02		
16	08:43			07:59			06:59			06:50		07:13 (CBR_WT01)	05:55			05:30		
	17:08			18:02			18:51			20:42	3	07:16 (CBR_WT01)	21:30			22:03		
17	08:42			07:57			06:57			06:48		07:11 (KLZ_WT16)	05:54			05:30		
	17:09			18:04			18:52			20:43	11	07:22 (KLZ_WT16)	21:31			22:03		
18	08:41			07:55			06:55			06:46		07:09 (KLZ_WT16)	05:52			05:30		
	17:11			18:05			18:54			20:45	15	07:24 (KLZ_WT16)	21:33			22:03		
19	08:40			07:53			06:53			06:44		07:07 (KLZ_WT16)	05:51		06:17 (KLZ_WT21)	05:30		
	17:13			18:07			18:56			20:47	18	07:25 (KLZ_WT16)	21:34	1	06:18 (KLZ_WT21)	22:04		
20	08:39			07:51			06:50			06:42		07:05 (KLZ_WT16)	05:50		06:16 (KLZ_WT21)	05:30		
	17:14			18:09			18:57			20:48	21	07:26 (KLZ_WT16)	21:35	2	06:18 (KLZ_WT21)	22:04		
21	08:38			07:49			06:48			06:40		07:03 (KLZ_WT16)	05:48		06:15 (KLZ_WT21)	05:30		
	17:16			18:11			18:59			20:50	24	07:27 (KLZ_WT16)	21:37	4	06:19 (KLZ_WT21)	22:04		
22	08:37			07:47			06:46			06:38		07:02 (KLZ_WT16)	05:47		06:14 (KLZ_WT21)	05:30		
	17:17			18:13			19:01			20:52	25	07:27 (KLZ_WT16)	21:38	6	06:20 (KLZ_WT21)	22:05		
23	08:36			07:45			06:44			06:36		07:01 (KLZ_WT16)	05:46		06:12 (KLZ_WT21)	05:30		
	17:19			18:14			19:02			20:53	27	07:28 (KLZ_WT16)	21:40	7	06:19 (KLZ_WT21)	22:05		
24	08:35			07:43			06:41			06:34		07:00 (KLZ_WT16)	05:45		06:11 (KLZ_WT21)	05:31		
	17:21			18:16			19:04			20:55	28	07:28 (KLZ_WT16)	21:41	8	06:19 (KLZ_WT21)	22:05		
25	08:34			07:41			06:39			06:32		07:00 (KLZ_WT16)	05:43		06:10 (KLZ_WT21)	05:31		
	17:23			18:18			19:06			20:57	28	07:28 (KLZ_WT16)	21:42	9	06:19 (KLZ_WT21)	22:05		
26	08:32			07:39		08:02 (ALB_WT01)	06:37			06:30		06:59 (KLZ_WT16)	05:42		06:09 (KLZ_WT21)	05:31		
	17:24			18:20	3	08:05 (ALB_WT01)	19:07			20:58	28	07:27 (KLZ_WT16)	21:43	10	06:19 (KLZ_WT21)	22:05		
27	08:31			07:36		08:00 (ALB_WT01)	06:35			06:28		06:59 (KLZ_WT16)	05:41		06:08 (KLZ_WT21)	05:32		
	17:26			18:21	5	08:05 (ALB_WT01)	19:09			21:00	28	07:27 (KLZ_WT16)	21:45	11	06:19 (KLZ_WT21)	22:05		
28	08:30			07:34		07:57 (ALB_WT01)	06:32			06:26		07:00 (KLZ_WT16)	05:40		06:08 (KLZ_WT21)	05:32		
	17:28			18:23	6	08:03 (ALB_WT01)	19:11			21:01	28	07:28 (KLZ_WT16)	21:46	12	06:20 (KLZ_WT21)	22:05		
29	08:28						07:30			06:24		07:00 (KLZ_WT16)	05:39		06:07 (KLZ_WT21)	05:33		
	17:30						20:12			21:03	27	07:27 (KLZ_WT16)	21:47	13	06:20 (KLZ_WT21)	22:05		
30	08:27						07:28			06:22		07:00 (KLZ_WT16)	05:38		06:06 (KLZ_WT21)	05:33		
	17:31						20:14			21:05	26	07:26 (KLZ_WT16)	21:48	13	06:19 (KLZ_WT21)	22:04		
31	08:26						07:26						05:37		06:07 (KLZ_WT21)			
	17:33						20:15						21:49	12	06:19 (KLZ_WT21)			
Potential sun hours	262			279			367			414			482			494		
Total, worst case		129			14			9			349			237			37	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,53			0,55			0,55			0,64			0,67			0,70	
Total reduction		0,13			0,16			0,21			0,29			0,30			0,30	
Total, real		16			2			2			102			71			11	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 15 - Hageland 14, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September	October			November			December		
1	05:34			06:09			06:57	07:45			07:37			08:26		09:06 (ATS_WT01)
	22:04			21:34			20:33	19:26			17:21			16:42	7	09:13 (ATS_WT01)
2	05:35			06:11			06:59	07:46			07:38			08:27		09:06 (ATS_WT01)
	22:04			21:32			20:31	19:23			17:19			16:42	9	09:15 (ATS_WT01)
3	05:35			06:12			07:00	07:48			07:40			08:29		09:06 (ATS_WT01)
	22:04			21:30			20:29	19:21			17:18			16:41	10	09:16 (ATS_WT01)
4	05:36			06:14			07:02	07:49			07:42			08:30		09:06 (ATS_WT01)
	22:03			21:29			20:27	19:19			17:16			16:41	11	09:17 (ATS_WT01)
5	05:37			06:15			07:04	07:51			07:44			08:31		09:06 (ATS_WT01)
	22:03			21:27			20:25	19:17			17:14			16:40	12	09:18 (ATS_WT01)
6	05:38			06:17		07:16 (KLZ_WT16)	07:05	07:53		08:17 (RHR_WT01)	07:45			08:33		09:06 (ATS_WT01)
	22:02			21:25	10	07:26 (KLZ_WT16)	20:22	19:14	1	08:18 (RHR_WT01)	17:12			16:40	12	09:18 (ATS_WT01)
7	05:39		06:19 (KLZ_WT21)	06:18		07:14 (KLZ_WT16)	07:07	07:54			07:47			08:34		09:06 (ATS_WT01)
	22:02	1	06:20 (KLZ_WT21)	21:24	15	07:29 (KLZ_WT16)	20:20	19:12			17:11			16:39	14	09:20 (ATS_WT01)
8	05:39		06:18 (KLZ_WT21)	06:20		07:12 (KLZ_WT16)	07:08	07:56			07:49			08:35		09:07 (ATS_WT01)
	22:01	5	06:23 (KLZ_WT21)	21:22	18	07:30 (KLZ_WT16)	20:18	19:10			17:09			16:39	13	09:20 (ATS_WT01)
9	05:40		06:17 (KLZ_WT21)	06:21		07:12 (KLZ_WT16)	07:10	07:58			07:51			08:36		09:08 (ATS_WT01)
	22:00	7	06:24 (KLZ_WT21)	21:20	20	07:32 (KLZ_WT16)	20:16	19:08			17:08			16:39	12	09:20 (ATS_WT01)
10	05:41		06:16 (KLZ_WT21)	06:23		07:10 (KLZ_WT16)	07:11	07:59			07:52			08:37		09:09 (ATS_WT01)
	22:00	9	06:25 (KLZ_WT21)	21:18	22	07:32 (KLZ_WT16)	20:13	19:06			17:06			16:39	12	09:21 (ATS_WT01)
11	05:42		06:16 (KLZ_WT21)	06:24		07:10 (KLZ_WT16)	07:13	08:01			07:54			08:38		09:10 (ATS_WT01)
	21:59	10	06:26 (KLZ_WT21)	21:16	24	07:34 (KLZ_WT16)	20:11	19:03			17:04			16:38	11	09:21 (ATS_WT01)
12	05:43		06:15 (KLZ_WT21)	06:26		07:08 (KLZ_WT16)	07:14	08:03		08:31 (ALB_WT01)	07:56			08:39		09:11 (ATS_WT01)
	21:58	12	06:27 (KLZ_WT21)	21:15	26	07:34 (KLZ_WT16)	20:09	19:01	4	08:35 (ALB_WT01)	17:03			16:38	11	09:22 (ATS_WT01)
13	05:44		06:15 (KLZ_WT21)	06:27		07:08 (KLZ_WT16)	07:16	08:04		08:29 (ALB_WT01)	07:57			08:40		09:12 (ATS_WT01)
	21:57	12	06:27 (KLZ_WT21)	21:13	27	07:35 (KLZ_WT16)	20:06	18:59	7	08:36 (ALB_WT01)	17:02			16:38	10	09:22 (ATS_WT01)
14	05:46		06:15 (KLZ_WT21)	06:29		07:07 (KLZ_WT16)	07:18	08:06		08:31 (ALB_WT01)	07:59			08:41		09:13 (ATS_WT01)
	21:57	13	06:28 (KLZ_WT21)	21:11	28	07:35 (KLZ_WT16)	20:04	18:57	6	08:37 (ALB_WT01)	17:00			16:38	10	09:23 (ATS_WT01)
15	05:47		06:16 (KLZ_WT21)	06:31		07:06 (KLZ_WT16)	07:19	08:08		08:33 (ALB_WT01)	08:01			08:42		09:14 (ATS_WT01)
	21:56	12	06:28 (KLZ_WT21)	21:09	28	07:34 (KLZ_WT16)	20:02	18:55	4	08:37 (ALB_WT01)	16:59			16:38	9	09:23 (ATS_WT01)
16	05:48		06:17 (KLZ_WT21)	06:32		07:07 (KLZ_WT16)	07:21	08:09		08:35 (ALB_WT01)	08:03			08:43		09:15 (ATS_WT01)
	21:55	12	06:29 (KLZ_WT21)	21:07	28	07:35 (KLZ_WT16)	20:00	18:53	2	08:37 (ALB_WT01)	16:57			16:38	9	09:24 (ATS_WT01)
17	05:49		06:18 (KLZ_WT21)	06:34		07:06 (KLZ_WT16)	07:22	08:11			08:04			08:44		09:16 (ATS_WT01)
	21:54	11	06:29 (KLZ_WT21)	21:05	28	07:34 (KLZ_WT16)	19:57	18:51			16:56			16:39	8	09:24 (ATS_WT01)
18	05:50		06:19 (KLZ_WT21)	06:35		07:06 (KLZ_WT16)	07:24	08:13			08:06			08:45		09:16 (ATS_WT01)
	21:53	10	06:29 (KLZ_WT21)	21:03	28	07:34 (KLZ_WT16)	19:55	18:48			16:55			16:39	8	09:24 (ATS_WT01)
19	05:51		06:21 (KLZ_WT21)	06:37		07:06 (KLZ_WT16)	07:25	08:14			08:08			08:45		09:17 (ATS_WT01)
	21:51	9	06:30 (KLZ_WT21)	21:01	27	07:33 (KLZ_WT16)	19:53	18:46			16:54			16:39	8	09:25 (ATS_WT01)
20	05:53		06:22 (KLZ_WT21)	06:38		07:07 (KLZ_WT16)	07:27	08:16			08:09			08:46		09:18 (ATS_WT01)
	21:50	8	06:30 (KLZ_WT21)	20:59	26	07:33 (KLZ_WT16)	19:51	18:44			16:52			16:40	8	09:26 (ATS_WT01)
21	05:54		06:23 (KLZ_WT21)	06:40		07:07 (KLZ_WT16)	07:29	08:18			08:11			08:47		09:18 (ATS_WT01)
	21:49	6	06:29 (KLZ_WT21)	20:57	25	07:32 (KLZ_WT16)	19:48	18:42			16:51			16:40	8	09:26 (ATS_WT01)
22	05:55		06:24 (KLZ_WT21)	06:42		07:08 (KLZ_WT16)	07:30	08:19			08:12			08:47		09:19 (ATS_WT01)
	21:48	5	06:29 (KLZ_WT21)	20:55	24	07:32 (KLZ_WT16)	19:46	18:40			16:50			16:40	8	09:27 (ATS_WT01)
23	05:57		06:25 (KLZ_WT21)	06:43		07:09 (KLZ_WT16)	07:32	08:21			08:14			08:48		09:19 (ATS_WT01)
	21:47	3	06:28 (KLZ_WT21)	20:53	21	07:30 (KLZ_WT16)	19:44	18:38			16:49			16:41	8	09:27 (ATS_WT01)
24	05:58		06:27 (KLZ_WT21)	06:45		07:11 (KLZ_WT16)	07:33	08:23			08:16			08:48		09:19 (ATS_WT01)
	21:45	2	06:29 (KLZ_WT21)	20:51	18	07:29 (KLZ_WT16)	19:41	18:36			16:48			16:42	8	09:27 (ATS_WT01)
25	05:59			06:46		07:12 (KLZ_WT16)	07:35	07:24			08:17			08:48		09:20 (ATS_WT01)
	21:44			20:48	14	07:26 (KLZ_WT16)	19:39	17:34			16:47			16:42	8	09:28 (ATS_WT01)
26	06:01			06:48		07:14 (KLZ_WT16)	07:37	07:26			08:19			08:49		09:20 (ATS_WT01)
	21:43			20:46	10	07:24 (KLZ_WT16)	19:37	17:32			16:46			16:43	8	09:28 (ATS_WT01)
27	06:02			06:49		07:15 (CBR_WT01)	07:38	07:28			08:20			08:49		09:20 (ATS_WT01)
	21:41			20:44	3	07:18 (CBR_WT01)	19:35	17:30			16:45			16:44	9	09:29 (ATS_WT01)
28	06:03			06:51		07:17 (KLZ_WT08)	07:40	07:30			08:22			08:49		09:20 (ATS_WT01)
	21:40			20:42	4	07:21 (KLZ_WT08)	19:32	17:29			16:44			16:44	9	09:29 (ATS_WT01)
29	06:05			06:53		07:18 (KLZ_WT08)	07:41	07:31			08:23			08:49		09:20 (ATS_WT01)
	21:38			20:40	4	07:22 (KLZ_WT08)	19:30	17:27			16:44			16:45	9	09:29 (ATS_WT01)
30	06:06			06:54		07:20 (KLZ_WT08)	07:43	07:33			08:25		09:08 (ATS_WT01)	08:50		09:20 (ATS_WT01)
	21:37			20:38	3	07:23 (KLZ_WT08)	19:28	17:25			16:43	4	09:12 (ATS_WT01)	16:46	10	09:30 (ATS_WT01)
31	06:08			06:56		07:21 (KLZ_WT08)		07:35						08:50		09:20 (ATS_WT01)
	21:35			20:36	1	07:22 (KLZ_WT08)		17:23						16:47	10	09:30 (ATS_WT01)
Potential sun hours	498			451			380	333			269			248		
Total, worst case		147			482				24			4			299	
Sun reduction		0,45			0,47				0,36			0,27			0,23	
Oper. time red.		0,98			0,98				0,98			0,98			0,98	
Wind dir. red.		0,70			0,64				0,55			0,53			0,53	
Total reduction		0,31			0,29				0,20			0,14			0,12	
Total, real		45			142				5			1			35	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (ALB_WT01)	07:32			07:23		07:46 (CBR_WT01)	06:20		06:44 (KLZ_WT21)	05:37		
	16:48			17:35	35	09:29 (KLZ_WT16)	18:25			20:17	6	07:52 (CBR_WT01)	21:06	53	07:47 (KLZ_WT15)	21:51		
2	08:50			08:23		08:48 (ALB_WT01)	07:30			07:21		07:44 (CBR_WT01)	06:18		06:42 (KLZ_WT21)	05:36		
	16:49			17:37	38	09:29 (KLZ_WT16)	18:27			20:19	6	07:50 (CBR_WT01)	21:08	53	07:46 (KLZ_WT15)	21:52		
3	08:49			08:21		08:46 (ALB_WT01)	07:28			07:19			06:17		06:41 (KLZ_WT21)	05:35		
	16:50			17:38	40	09:29 (KLZ_WT16)	18:28			20:20			21:10	55	07:47 (KLZ_WT15)	21:53		
4	08:49			08:20		08:45 (RHR_WT03)	07:26			07:17			06:15		06:39 (KLZ_WT21)	05:34		
	16:51			17:40	42	09:31 (KLZ_WT16)	18:30			20:22			21:11	56	07:46 (KLZ_WT15)	21:54		
5	08:49			08:18		08:43 (RHR_WT03)	07:24			07:14			06:13		06:38 (KLZ_WT21)	05:34		
	16:53			17:42	39	09:31 (KLZ_WT16)	18:32			20:24			21:13	55	07:45 (KLZ_WT15)	21:55		
6	08:49			08:16		08:41 (RHR_WT03)	07:22			07:12			06:11		06:39 (KLZ_WT21)	05:33		
	16:54			17:44	40	09:31 (KLZ_WT16)	18:34			20:25			21:14	54	07:45 (KLZ_WT15)	21:56		
7	08:48			08:15		08:39 (RHR_WT02)	07:19			07:10			06:09		06:39 (KLZ_WT21)	05:32		
	16:55			17:46	41	09:31 (KLZ_WT16)	18:35			20:27			21:16	52	07:44 (KLZ_WT15)	21:57		
8	08:48			08:13		08:38 (RHR_WT02)	07:17			07:08			06:08		06:39 (KLZ_WT21)	05:32		
	16:56			17:47	37	09:32 (KLZ_WT16)	18:37			20:29			21:18	49	07:43 (KLZ_WT15)	21:57		
9	08:48			08:11		08:56 (KLZ_WT16)	07:15			07:06			06:06		06:41 (KLZ_WT21)	05:32		
	16:58			17:49	36	09:32 (KLZ_WT16)	18:39			20:30			21:19	45	07:43 (KLZ_WT15)	21:58		
10	08:47			08:09		08:56 (KLZ_WT16)	07:13			07:03			06:04		06:42 (KLZ_WT21)	05:31		
	16:59			17:51	35	09:31 (KLZ_WT16)	18:40			20:32			21:21	40	07:42 (KLZ_WT15)	21:59		
11	08:47			08:08		08:56 (KLZ_WT16)	07:11			07:01			06:03		07:10 (KLZ_WT15)	05:31		06:00 (KLZ_WT17)
	17:00			17:53	35	09:31 (KLZ_WT16)	18:42			20:34			21:22	31	07:41 (KLZ_WT15)	22:00	1	06:01 (KLZ_WT17)
12	08:46			08:06		08:57 (KLZ_WT16)	07:08			06:59			06:01		07:10 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:02			17:55	34	09:31 (KLZ_WT16)	18:44			20:35			21:24	29	07:39 (KLZ_WT15)	22:00	1	06:00 (KLZ_WT17)
13	08:45			08:04		08:57 (KLZ_WT16)	07:06		07:29 (KLZ_WT08)	06:57			06:00		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:03			17:56	33	09:30 (KLZ_WT16)	18:45	3	07:32 (KLZ_WT08)	20:37			21:25	27	07:39 (KLZ_WT15)	22:01	1	06:00 (KLZ_WT17)
14	08:45			08:02		08:58 (KLZ_WT16)	07:04		07:26 (KLZ_WT08)	06:55			05:58		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:05			17:58	31	09:29 (KLZ_WT16)	18:47	6	07:32 (KLZ_WT08)	20:39			21:27	25	07:37 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
15	08:44			08:00		08:58 (KLZ_WT16)	07:02		07:24 (KLZ_WT08)	06:53			05:57		07:14 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:06			18:00	30	09:28 (KLZ_WT16)	18:49	7	07:31 (KLZ_WT08)	20:40			21:28	22	07:36 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
16	08:43			07:58		08:22 (RHR_WT01)	06:59		07:23 (KLZ_WT08)	06:50		07:26 (KLZ_WT15)	05:55		07:16 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:08			18:02	29	09:27 (KLZ_WT16)	18:51	7	07:30 (KLZ_WT08)	20:42	9	07:35 (KLZ_WT15)	21:30	19	07:35 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
17	08:42			07:57		08:20 (RHR_WT01)	06:57		07:25 (KLZ_WT08)	06:48		07:22 (KLZ_WT15)	05:54		07:17 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:09			18:04	28	09:26 (KLZ_WT16)	18:52	3	07:28 (KLZ_WT08)	20:43	17	07:39 (KLZ_WT15)	21:31	15	07:32 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
18	08:41			07:55		08:18 (RHR_WT01)	06:55			06:46		07:19 (KLZ_WT15)	05:52		07:20 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:11			18:05	23	09:24 (KLZ_WT16)	18:54			20:45	22	07:41 (KLZ_WT15)	21:33	9	07:29 (KLZ_WT15)	22:04	1	06:00 (KLZ_WT17)
19	08:40			07:53		09:04 (KLZ_WT16)	06:53			06:44		07:07 (SAM_WT07)	05:51			05:30		05:59 (KLZ_WT17)
	17:13			18:07	17	09:21 (KLZ_WT16)	18:56			20:47	27	07:42 (KLZ_WT15)	21:34			22:04	1	06:00 (KLZ_WT17)
20	08:39			07:51		09:07 (KLZ_WT16)	06:50			06:42		07:05 (SAM_WT07)	05:50			05:30		05:59 (KLZ_WT17)
	17:14			18:09	11	09:18 (KLZ_WT16)	18:57			20:48	32	07:44 (KLZ_WT15)	21:35			22:04	1	06:00 (KLZ_WT17)
21	08:38			07:49			06:48			06:40		07:03 (SAM_WT07)	05:48			05:30		06:00 (KLZ_WT17)
	17:16			18:11			18:59			20:50	35	07:45 (KLZ_WT15)	21:37			22:04	1	06:01 (KLZ_WT17)
22	08:37			07:47			06:46			06:38		07:12 (KLZ_WT15)	05:47			05:30		06:00 (KLZ_WT17)
	17:17			18:13			19:01			20:52	33	07:45 (KLZ_WT15)	21:38			22:05	1	06:01 (KLZ_WT17)
23	08:36			07:45			06:44			06:36		07:11 (KLZ_WT15)	05:46			05:30		06:00 (KLZ_WT17)
	17:19			18:14			19:02			20:53	35	07:46 (KLZ_WT15)	21:40			22:05	1	06:01 (KLZ_WT17)
24	08:35			07:43			06:41			06:34		07:10 (KLZ_WT15)	05:45			05:31		06:00 (KLZ_WT17)
	17:21			18:16			19:04			20:55	36	07:46 (KLZ_WT15)	21:41			22:05	1	06:01 (KLZ_WT17)
25	08:34		09:06 (KLZ_WT16)	07:41			06:39			06:32		07:09 (KLZ_WT15)	05:43			05:31		06:01 (KLZ_WT17)
	17:23	11	09:17 (KLZ_WT16)	18:18			19:06			20:57	38	07:47 (KLZ_WT15)	21:42			22:05	1	06:02 (KLZ_WT17)
26	08:32		09:04 (KLZ_WT16)	07:39		08:02 (MVN_WT01)	06:37			06:30		07:08 (KLZ_WT15)	05:42			05:31		06:01 (KLZ_WT17)
	17:24	16	09:20 (KLZ_WT16)	18:20	1	08:03 (MVN_WT01)	19:07			20:58	39	07:47 (KLZ_WT15)	21:43			22:05	1	06:02 (KLZ_WT17)
27	08:31		09:02 (KLZ_WT16)	07:36			06:35			06:28		06:51 (KLZ_WT21)	05:41			05:32		06:02 (KLZ_WT17)
	17:26	20	09:22 (KLZ_WT16)	18:21			19:09			21:00	41	07:47 (KLZ_WT15)	21:45			22:05	1	06:03 (KLZ_WT17)
28	08:30		09:01 (KLZ_WT16)	07:34			06:32			06:26		06:50 (KLZ_WT21)	05:40			05:32		06:02 (KLZ_WT17)
	17:28	23	09:24 (KLZ_WT16)	18:23			19:11			21:01	44	07:48 (KLZ_WT15)	21:46			22:05	1	06:03 (KLZ_WT17)
29	08:28		09:00 (KLZ_WT16)				07:30		07:52 (CBR_WT01)	06:24		06:48 (KLZ_WT21)	05:39			05:33		06:03 (KLZ_WT17)
	17:29	25	09:25 (KLZ_WT16)				20:12	1	07:53 (CBR_WT01)	21:03	48	07:48 (KLZ_WT15)	21:47			22:05	1	06:04 (KLZ_WT17)
30	08:27		08:53 (ALB_WT01)				07:28		07:50 (CBR_WT01)	06:22		06:46 (KLZ_WT21)	05:38			05:33		06:03 (KLZ_WT17)
	17:31	29	09:27 (KLZ_WT16)				20:14	3	07:53 (CBR_WT01)	21:05	49	07:47 (KLZ_WT15)	21:48			22:05	1	06:04 (KLZ_WT17)
31	08:26		08:51 (ALB_WT01)				07:26		07:48 (CBR_WT01)				05:37					
	17:33	32	09:27 (KLZ_WT16)				20:15	5	07:53 (CBR_WT01)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		156			655			35			517			689			20	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,55			0,55			0,60			0,64			0,65			0,71	
Total reduction		0,13			0,16			0,22			0,29			0,29			0,31	
Total, real		21			105			8			151			199			6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December
1	05:34		06:04 (KLZ_WT17)	06:09		07:20 (KLZ_WT15)	06:57			07:45		08:09 (KLZ_WT08)	07:37		08:26 (KLZ_WT16)	08:26
	22:04	1	06:05 (KLZ_WT17)	21:34	30	07:50 (KLZ_WT15)	20:33			19:26	2	08:11 (KLZ_WT08)	17:21	35	09:01 (KLZ_WT16)	16:42
2	05:35		06:04 (KLZ_WT17)	06:11		06:55 (KLZ_WT21)	06:59			07:46			07:38		08:26 (KLZ_WT16)	08:27
	22:04	1	06:05 (KLZ_WT17)	21:32	35	07:52 (KLZ_WT15)	20:31			19:23			17:19	35	09:01 (KLZ_WT16)	16:42
3	05:35			06:12		06:52 (KLZ_WT21)	07:00			07:48			07:40		08:08 (RHR_WT02)	08:29
	22:04			21:30	42	07:52 (KLZ_WT15)	20:29			19:21			17:18	37	09:02 (KLZ_WT16)	16:41
4	05:36			06:14		06:51 (KLZ_WT21)	07:02			07:49			07:42		08:09 (RHR_WT02)	08:30
	22:03			21:29	47	07:54 (KLZ_WT15)	20:27			19:19			17:16	41	09:01 (KLZ_WT16)	16:40
5	05:37			06:15		06:49 (KLZ_WT21)	07:03			07:51			07:44		08:11 (RHR_WT03)	08:31
	22:03			21:27	50	07:54 (KLZ_WT15)	20:24			19:17			17:14	41	09:01 (KLZ_WT16)	16:40
6	05:38			06:17		06:48 (KLZ_WT21)	07:05			07:53			07:45		08:13 (RHR_WT03)	08:33
	22:02			21:25	53	07:54 (KLZ_WT15)	20:22			19:14			17:12	41	09:01 (KLZ_WT16)	16:40
7	05:38			06:18		06:48 (KLZ_WT21)	07:07			07:54			07:47		08:15 (RHR_WT03)	08:34
	22:02			21:24	55	07:55 (KLZ_WT15)	20:20			19:12			17:11	42	09:00 (KLZ_WT16)	16:39
8	05:39			06:20		06:47 (KLZ_WT21)	07:08			07:56			07:49		08:17 (ALB_WT01)	08:35
	22:01			21:22	57	07:55 (KLZ_WT15)	20:18			19:10			17:09	40	09:00 (KLZ_WT16)	16:39
9	05:40			06:21		06:49 (KLZ_WT21)	07:10			07:58			07:51		08:19 (ALB_WT01)	08:36
	22:00			21:20	56	07:56 (KLZ_WT15)	20:16			19:08			17:08	38	09:00 (KLZ_WT16)	16:39
10	05:41			06:23		06:50 (KLZ_WT21)	07:11		07:37 (CBR_WT01)	07:59			07:52		08:21 (ALB_WT01)	08:37
	22:00			21:18	55	07:55 (KLZ_WT15)	20:13	6	07:43 (CBR_WT01)	19:06			17:06	34	08:59 (KLZ_WT16)	16:38
11	05:42			06:24		06:52 (KLZ_WT21)	07:13		07:38 (CBR_WT01)	08:01			07:54		08:23 (ALB_WT01)	08:38
	21:59			21:16	53	07:56 (KLZ_WT15)	20:11	6	07:44 (CBR_WT01)	19:03			17:04	32	08:59 (KLZ_WT16)	16:38
12	05:43			06:26		06:53 (KLZ_WT21)	07:14		07:39 (CBR_WT01)	08:03			07:56		08:31 (KLZ_WT16)	08:39
	21:58			21:15	51	07:55 (KLZ_WT15)	20:09	5	07:44 (CBR_WT01)	19:01			17:03	27	08:58 (KLZ_WT16)	16:38
13	05:44			06:27		06:54 (KLZ_WT21)	07:16		07:41 (CBR_WT01)	08:04			07:57		08:32 (KLZ_WT16)	08:40
	21:57			21:13	50	07:55 (KLZ_WT15)	20:06	4	07:45 (CBR_WT01)	18:59			17:02	25	08:57 (KLZ_WT16)	16:38
14	05:45			06:29		06:56 (KLZ_WT21)	07:18		07:42 (CBR_WT01)	08:06			07:59		08:33 (KLZ_WT16)	08:41
	21:57			21:11	46	07:55 (KLZ_WT15)	20:04	2	07:44 (CBR_WT01)	18:57			17:00	23	08:56 (KLZ_WT16)	16:38
15	05:47			06:31		06:57 (KLZ_WT21)	07:19			08:07			08:01		08:35 (KLZ_WT16)	08:42
	21:56			21:09	43	07:54 (KLZ_WT15)	20:02			18:55			16:59	20	08:55 (KLZ_WT16)	16:38
16	05:48			06:32		07:15 (KLZ_WT15)	07:21			08:09		08:35 (MVN_WT01)	08:03		08:37 (KLZ_WT16)	08:43
	21:55			21:07	39	07:54 (KLZ_WT15)	20:00			18:53	1	08:36 (MVN_WT01)	16:57	16	08:53 (KLZ_WT16)	16:38
17	05:49			06:34		07:15 (KLZ_WT15)	07:22			08:11			08:04		08:40 (KLZ_WT16)	08:44
	21:54			21:05	38	07:53 (KLZ_WT15)	19:57			18:51			16:56	11	08:51 (KLZ_WT16)	16:39
18	05:50			06:35		07:16 (KLZ_WT15)	07:24			08:13			08:06			08:45
	21:53			21:03	37	07:53 (KLZ_WT15)	19:55			18:48			16:55			16:39
19	05:51			06:37		07:16 (KLZ_WT15)	07:25			08:14			08:08			08:45
	21:51			21:01	36	07:52 (KLZ_WT15)	19:53			18:46			16:54			16:39
20	05:53			06:38		07:17 (KLZ_WT15)	07:27			08:16			08:09			08:46
	21:50			20:59	35	07:52 (KLZ_WT15)	19:51			18:44			16:52			16:40
21	05:54			06:40		07:17 (KLZ_WT15)	07:29			08:18			08:11			08:47
	21:49			20:57	33	07:50 (KLZ_WT15)	19:48			18:42			16:51			16:40
22	05:55			06:41		07:08 (SAM_WT07)	07:30			08:19		09:36 (KLZ_WT16)	08:12			08:47
	21:48			20:55	34	07:49 (KLZ_WT15)	19:46			18:40	14	09:50 (KLZ_WT16)	16:50			16:40
23	05:57			06:43		07:09 (SAM_WT07)	07:32			08:21		09:34 (KLZ_WT16)	08:14			08:48
	21:47			20:53	31	07:47 (KLZ_WT15)	19:44			18:38	18	09:52 (KLZ_WT16)	16:49			16:41
24	05:58			06:45		07:11 (SAM_WT07)	07:33			08:23		08:49 (RHR_WT01)	08:16			08:48
	21:45			20:51	27	07:46 (KLZ_WT15)	19:41			18:36	25	09:55 (KLZ_WT16)	16:48			16:42
25	05:59		07:34 (KLZ_WT15)	06:46		07:22 (KLZ_WT15)	07:35			07:24		07:51 (RHR_WT01)	08:17			08:48
	21:44	3	07:37 (KLZ_WT15)	20:48	21	07:43 (KLZ_WT15)	19:39			17:34	27	08:56 (KLZ_WT16)	16:47			16:42
26	06:01		07:29 (KLZ_WT15)	06:48		07:25 (KLZ_WT15)	07:37			07:26		07:53 (RHR_WT01)	08:19			08:49
	21:43	12	07:41 (KLZ_WT15)	20:46	16	07:41 (KLZ_WT15)	19:37			17:32	30	08:58 (KLZ_WT16)	16:46			16:43
27	06:02		07:28 (KLZ_WT15)	06:49		07:28 (KLZ_WT15)	07:38		08:05 (KLZ_WT08)	07:28		08:28 (KLZ_WT16)	08:20			08:49
	21:41	16	07:44 (KLZ_WT15)	20:44	8	07:36 (KLZ_WT15)	19:35	7	08:12 (KLZ_WT08)	17:30	30	08:58 (KLZ_WT16)	16:45			16:44
28	06:03		07:26 (KLZ_WT15)	06:51			07:40		08:04 (KLZ_WT08)	07:30		08:27 (KLZ_WT16)	08:22			08:49
	21:40	20	07:46 (KLZ_WT15)	20:42			19:32	8	08:12 (KLZ_WT08)	17:28	32	08:59 (KLZ_WT16)	16:44			16:44
29	06:05		07:24 (KLZ_WT15)	06:52			07:41		08:06 (KLZ_WT08)	07:31		08:26 (KLZ_WT16)	08:23			08:49
	21:38	23	07:47 (KLZ_WT15)	20:40			19:30	6	08:12 (KLZ_WT08)	17:27	34	09:00 (KLZ_WT16)	16:44			16:45
30	06:06		07:23 (KLZ_WT15)	06:54			07:43		08:08 (KLZ_WT08)	07:33		08:26 (KLZ_WT16)	08:25			08:50
	21:37	26	07:49 (KLZ_WT15)	20:38			19:28	4	08:12 (KLZ_WT08)	17:25	34	09:00 (KLZ_WT16)	16:43			16:46
31	06:08		07:22 (KLZ_WT15)	06:56						07:35		08:26 (KLZ_WT16)				08:50
	21:35	28	07:50 (KLZ_WT15)	20:36						17:23	35	09:01 (KLZ_WT16)				16:47
Potential sun hours	498			451			380			333			269			248
Total, worst case		130			1078			48			282			538		
Sun reduction		0,45			0,47			0,43			0,36			0,27		
Oper. time red.		0,98			0,98			0,98			0,98			0,98		
Wind dir. red.		0,64			0,65			0,61			0,55			0,55		
Total reduction		0,28			0,30			0,26			0,19			0,14		
Total, real		37			318			12			55			77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		12:37 (KLZ_WT16)	08:24			07:32			07:23		07:46 (CBR_WT01)	06:20			05:37		06:24 (KLZ_WT21)
	16:48	47	13:24 (KLZ_WT16)	17:35			18:25			20:17	10	07:56 (CBR_WT01)	21:06			21:51	15	06:39 (KLZ_WT21)
2	08:50		12:38 (KLZ_WT16)	08:23			07:30			07:21		07:43 (CBR_WT01)	06:18			05:36		06:25 (KLZ_WT21)
	16:49	46	13:24 (KLZ_WT16)	17:37			18:27			20:19	11	07:54 (CBR_WT01)	21:08			21:52	14	06:39 (KLZ_WT21)
3	08:49		12:39 (KLZ_WT16)	08:21			07:28			07:19		07:44 (CBR_WT01)	06:17			05:35		06:26 (KLZ_WT21)
	16:50	46	13:25 (KLZ_WT16)	17:38			18:28			20:20	9	07:53 (CBR_WT01)	21:10			21:53	12	06:38 (KLZ_WT21)
4	08:49		12:39 (KLZ_WT16)	08:19			07:26		07:49 (KLZ_WT08)	07:17		07:46 (CBR_WT01)	06:15			05:34		06:27 (KLZ_WT21)
	16:51	45	13:24 (KLZ_WT16)	17:40			18:30	5	07:54 (KLZ_WT08)	20:22	4	07:50 (CBR_WT01)	21:11			21:54	10	06:37 (KLZ_WT21)
5	08:49		12:40 (KLZ_WT16)	08:18			07:24		07:47 (KLZ_WT08)	07:14			06:13			05:34		06:28 (KLZ_WT21)
	16:53	44	13:24 (KLZ_WT16)	17:42			18:32	9	07:56 (KLZ_WT08)	20:24			21:13			21:55	8	06:36 (KLZ_WT21)
6	08:49		12:41 (KLZ_WT16)	08:16		08:41 (RHR_WT01)	07:22		07:44 (KLZ_WT08)	07:12			06:11		06:36 (SAM_WT06)	05:33		06:30 (KLZ_WT21)
	16:54	43	13:24 (KLZ_WT16)	17:44	2	08:43 (RHR_WT01)	18:33	12	07:56 (KLZ_WT08)	20:25			21:14	2	06:38 (SAM_WT06)	21:56	4	06:34 (KLZ_WT21)
7	08:48		09:18 (ALB_WT01)	08:15		08:39 (RHR_WT01)	07:19		07:43 (KLZ_WT08)	07:10			06:09		06:34 (SAM_WT06)	05:32		
	16:55	44	13:24 (KLZ_WT16)	17:46	3	08:42 (RHR_WT01)	18:35	14	07:57 (KLZ_WT08)	20:27			21:16	3	06:37 (SAM_WT06)	21:56		
8	08:48		09:17 (ALB_WT01)	08:13		08:38 (RHR_WT01)	07:17		07:42 (KLZ_WT08)	07:08			06:08		06:32 (SAM_WT06)	05:32		
	16:56	43	13:23 (KLZ_WT16)	17:47	5	08:43 (RHR_WT01)	18:37	15	07:57 (KLZ_WT08)	20:29			21:17	4	06:36 (SAM_WT06)	21:57		
9	08:48		09:17 (ALB_WT01)	08:11		08:36 (RHR_WT01)	07:15		07:42 (KLZ_WT08)	07:06			06:06		06:31 (KLZ_WT21)	05:31		
	16:58	43	13:24 (KLZ_WT16)	17:49	5	08:41 (RHR_WT01)	18:39	15	07:57 (KLZ_WT08)	20:30			21:19	5	06:36 (SAM_WT06)	21:58		
10	08:47		09:16 (ALB_WT01)	08:09		08:34 (RHR_WT01)	07:13		07:42 (KLZ_WT08)	07:03			06:04		06:29 (KLZ_WT21)	05:31		
	16:59	43	13:23 (KLZ_WT16)	17:51	6	08:40 (RHR_WT01)	18:40	13	07:55 (KLZ_WT08)	20:32			21:21	8	06:37 (KLZ_WT21)	21:59		
11	08:46		09:15 (ALB_WT01)	08:08			07:11		07:43 (KLZ_WT08)	07:01			06:03		06:28 (KLZ_WT21)	05:31		
	17:00	42	13:22 (KLZ_WT16)	17:53			18:42	11	07:54 (KLZ_WT08)	20:34			21:22	11	06:39 (KLZ_WT21)	22:00		
12	08:46		09:15 (ALB_WT01)	08:06			07:08		07:44 (KLZ_WT08)	06:59			06:01		06:26 (KLZ_WT21)	05:30		
	17:02	41	13:22 (KLZ_WT16)	17:55			18:44	8	07:52 (KLZ_WT08)	20:35			21:24	13	06:39 (KLZ_WT21)	22:00		
13	08:45		09:14 (ALB_WT01)	08:04			07:06			06:57			06:00		06:25 (KLZ_WT21)	05:30		
	17:03	39	13:21 (KLZ_WT16)	17:56			18:45			20:37			21:25	15	06:40 (KLZ_WT21)	22:01		
14	08:45		09:13 (ALB_WT01)	08:02			07:04			06:55			05:58		06:23 (KLZ_WT21)	05:30		
	17:05	38	13:20 (KLZ_WT16)	17:58			18:47			20:39			21:27	17	06:40 (KLZ_WT21)	22:02		
15	08:44		09:12 (ALB_WT01)	08:00			07:02			06:53			05:57		06:22 (KLZ_WT21)	05:30		
	17:06	35	13:18 (KLZ_WT16)	18:00			18:49			20:40			21:28	19	06:41 (KLZ_WT21)	22:02		
16	08:43		09:12 (ALB_WT01)	07:58			06:59			06:50			05:55		06:21 (KLZ_WT21)	05:30		
	17:08	29	13:15 (KLZ_WT16)	18:02			18:51			20:42			21:30	21	06:42 (KLZ_WT21)	22:03		
17	08:42		09:10 (RHR_WT03)	07:57			06:57			06:48			05:54		06:19 (KLZ_WT21)	05:30		
	17:09	17	13:10 (KLZ_WT16)	18:04			18:52			20:43			21:31	23	06:42 (KLZ_WT21)	22:03		
18	08:41		09:09 (RHR_WT03)	07:55			06:55			06:46			05:52		06:18 (KLZ_WT21)	05:30		
	17:11	13	09:23 (ALB_WT01)	18:05			18:54			20:45			21:33	24	06:42 (KLZ_WT21)	22:03		
19	08:40		09:08 (RHR_WT03)	07:53			06:53			06:44			05:51		06:19 (KLZ_WT21)	05:30		
	17:13	13	09:23 (ALB_WT01)	18:07			18:56			20:47			21:34	23	06:42 (KLZ_WT21)	22:04		
20	08:39		09:07 (RHR_WT03)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (KLZ_WT21)	05:30		
	17:14	11	09:22 (ALB_WT01)	18:09	2	08:16 (MVN_WT01)	18:57			20:48			21:35	24	06:43 (KLZ_WT21)	22:04		
21	08:38		09:05 (RHR_WT03)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:19 (KLZ_WT21)	05:30		
	17:16	7	09:12 (RHR_WT03)	18:11	3	08:15 (MVN_WT01)	18:59			20:50			21:37	24	06:43 (KLZ_WT21)	22:04		
22	08:37		09:04 (RHR_WT03)	07:47		08:10 (MVN_WT01)	06:46		07:08 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:18 (KLZ_WT21)	05:30		
	17:17	8	09:12 (RHR_WT03)	18:12	3	08:13 (MVN_WT01)	19:01	1	07:09 (KLZ_WT10)	20:52	2	07:03 (SAM_WT07)	21:38	24	06:42 (KLZ_WT21)	22:05		
23	08:36		09:03 (RHR_WT03)	07:45			06:44		07:06 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		06:19 (KLZ_WT21)	05:30		
	17:19	9	09:12 (RHR_WT03)	18:14			19:02	3	07:09 (KLZ_WT10)	20:53	4	07:03 (SAM_WT07)	21:40	23	06:42 (KLZ_WT21)	22:05		
24	08:35		09:02 (RHR_WT03)	07:43		08:06 (MXS_WT01)	06:41		07:04 (KLZ_WT10)	06:34		06:57 (SAM_WT07)	05:44		06:19 (KLZ_WT21)	05:31		
	17:21	10	09:12 (RHR_WT03)	18:16	2	08:08 (MXS_WT01)	19:04	5	07:09 (KLZ_WT10)	20:55	5	07:02 (SAM_WT07)	21:41	23	06:42 (KLZ_WT21)	22:05		
25	08:34		09:02 (RHR_WT03)	07:41		08:04 (MXS_WT01)	06:39		07:01 (KLZ_WT10)	06:32		06:55 (SAM_WT07)	05:43		06:19 (KLZ_WT21)	05:31		
	17:22	8	09:10 (RHR_WT03)	18:18	2	08:06 (MXS_WT01)	19:06	6	07:07 (KLZ_WT10)	20:57	6	07:01 (SAM_WT07)	21:42	22	06:41 (KLZ_WT21)	22:05		
26	08:32		08:59 (RHR_WT02)	07:39			06:37		07:02 (KLZ_WT10)	06:30		06:53 (SAM_WT07)	05:42		06:20 (KLZ_WT21)	05:31		
	17:24	4	09:08 (RHR_WT03)	18:20			19:07	2	07:04 (KLZ_WT10)	20:58	7	07:00 (SAM_WT07)	21:43	21	06:41 (KLZ_WT21)	22:05		
27	08:31		08:57 (RHR_WT02)	07:36			06:35		06:57 (KLZ_WT11)	06:28			05:41		06:20 (KLZ_WT21)	05:32		
	17:26	3	09:00 (RHR_WT02)	18:21			19:09	1	06:58 (KLZ_WT11)	21:00			21:45	21	06:41 (KLZ_WT21)	22:05		
28	08:30		08:56 (RHR_WT02)	07:34			06:32		06:55 (KLZ_WT11)	06:26			05:40		06:22 (KLZ_WT21)	05:32		
	17:28	4	09:00 (RHR_WT02)	18:23			19:10	2	06:57 (KLZ_WT11)	21:01			21:46	19	06:41 (KLZ_WT21)	22:05		
29	08:28		08:54 (RHR_WT02)				07:30		07:52 (CBR_WT01)	06:24			05:39		06:22 (KLZ_WT21)	05:33		
	17:29	4	08:58 (RHR_WT02)				20:12	3	07:55 (CBR_WT01)	21:03			21:47	19	06:41 (KLZ_WT21)	22:05		
30	08:27						07:28		07:50 (CBR_WT01)	06:22			05:38		06:23 (KLZ_WT21)	05:33		
	17:31						20:14	6	07:56 (CBR_WT01)	21:05			21:48	17	06:40 (KLZ_WT21)	22:04		
31	08:26						07:26		07:48 (CBR_WT01)				05:37		06:23 (KLZ_WT21)			
	17:33						20:15	8	07:56 (CBR_WT01)				21:49	16	06:39 (KLZ_WT21)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		779			33			139			58			441			63	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,65			0,56			0,58			0,64			0,69			0,69	
Total reduction		0,16			0,16			0,21			0,29			0,31			0,30	
Total, real		122			5			30			17			136			19	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (KLZ_WT21)	06:57			07:45		08:24 (KLZ_WT08)	07:37		08:04 (RHR_WT01)	08:26		08:57 (ALB_WT01)
	22:04			21:34	12	06:49 (KLZ_WT21)	20:33			19:25	6	08:30 (KLZ_WT08)	17:21	6	08:10 (RHR_WT01)	16:42	42	13:04 (KLZ_WT16)
2	05:35			06:11		06:39 (KLZ_WT21)	06:59			07:46		08:22 (KLZ_WT08)	07:38		08:06 (RHR_WT01)	08:27		08:59 (ALB_WT01)
	22:04			21:32	10	06:49 (KLZ_WT21)	20:31			19:23	10	08:32 (KLZ_WT08)	17:19	5	08:11 (RHR_WT01)	16:42	43	13:06 (KLZ_WT16)
3	05:35			06:12		06:40 (KLZ_WT21)	07:00			07:48		08:20 (KLZ_WT08)	07:40		08:08 (RHR_WT01)	08:29		09:00 (ALB_WT01)
	22:04			21:30	7	06:47 (KLZ_WT21)	20:29			19:21	13	08:33 (KLZ_WT08)	17:18	4	08:12 (RHR_WT01)	16:41	43	13:07 (KLZ_WT16)
4	05:36			06:14		06:41 (KLZ_WT21)	07:02			07:49		08:19 (KLZ_WT08)	07:42		08:09 (RHR_WT01)	08:30		09:02 (ALB_WT01)
	22:03			21:29	4	06:45 (SAM_WT06)	20:27			19:19	14	08:33 (KLZ_WT08)	17:16	3	08:12 (RHR_WT01)	16:40	43	13:08 (KLZ_WT16)
5	05:37			06:15		06:43 (SAM_WT06)	07:03			07:51		08:19 (KLZ_WT08)	07:44		08:11 (RHR_WT01)	08:31		09:03 (ALB_WT01)
	22:03			21:27	4	06:47 (SAM_WT06)	20:24			19:17	15	08:34 (KLZ_WT08)	17:14	1	08:12 (RHR_WT01)	16:40	44	13:09 (KLZ_WT16)
6	05:38			06:17		06:44 (SAM_WT06)	07:05			07:53		08:18 (KLZ_WT08)	07:45			08:33		09:04 (ALB_WT01)
	22:02			21:25	3	06:47 (SAM_WT06)	20:22			19:14	15	08:33 (KLZ_WT08)	17:12			16:40	44	13:10 (KLZ_WT16)
7	05:38		06:35 (KLZ_WT21)	06:18		06:46 (SAM_WT06)	07:07			07:54		08:19 (KLZ_WT08)	07:47			08:34		12:27 (KLZ_WT16)
	22:02	6	06:41 (KLZ_WT21)	21:24	1	06:47 (SAM_WT06)	20:20			19:12	13	08:32 (KLZ_WT08)	17:11			16:39	44	13:11 (KLZ_WT16)
8	05:39		06:34 (KLZ_WT21)	06:20			07:08		07:40 (CBR_WT01)	07:56		08:21 (KLZ_WT08)	07:49			08:35		12:27 (KLZ_WT16)
	22:01	9	06:43 (KLZ_WT21)	21:22			20:18	4	07:44 (CBR_WT01)	19:10	11	08:32 (KLZ_WT08)	17:09			16:39	45	13:12 (KLZ_WT16)
9	05:40		06:33 (KLZ_WT21)	06:21			07:10		07:38 (CBR_WT01)	07:58		08:22 (KLZ_WT08)	07:51			08:36		12:27 (KLZ_WT16)
	22:00	11	06:44 (KLZ_WT21)	21:20			20:15	9	07:47 (CBR_WT01)	19:08	7	08:29 (KLZ_WT08)	17:08			16:39	46	13:13 (KLZ_WT16)
10	05:41		06:33 (KLZ_WT21)	06:23			07:11		07:36 (CBR_WT01)	07:59		08:24 (KLZ_WT08)	07:52			08:37		12:27 (KLZ_WT16)
	22:00	13	06:46 (KLZ_WT21)	21:18			20:13	11	07:47 (CBR_WT01)	19:05	2	08:26 (KLZ_WT08)	17:06			16:38	46	13:13 (KLZ_WT16)
11	05:42		06:32 (KLZ_WT21)	06:24			07:13		07:38 (CBR_WT01)	08:01			07:54			08:38		12:27 (KLZ_WT16)
	21:59	15	06:47 (KLZ_WT21)	21:16			20:11	10	07:48 (CBR_WT01)	19:03			17:04			16:38	47	13:14 (KLZ_WT16)
12	05:43		06:32 (KLZ_WT21)	06:26			07:14		07:39 (CBR_WT01)	08:02			07:56			08:39		12:27 (KLZ_WT16)
	21:58	15	06:47 (KLZ_WT21)	21:14			20:09	8	07:47 (CBR_WT01)	19:01			17:03			16:38	48	13:15 (KLZ_WT16)
13	05:44		06:31 (KLZ_WT21)	06:27			07:16		07:41 (CBR_WT01)	08:04			07:57		08:26 (RHR_WT02)	08:40		12:27 (KLZ_WT16)
	21:57	17	06:48 (KLZ_WT21)	21:13			20:06	6	07:47 (CBR_WT01)	18:59			17:01	4	08:30 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
14	05:45		06:31 (KLZ_WT21)	06:29			07:18		07:42 (CBR_WT01)	08:06			07:59		08:28 (RHR_WT02)	08:41		12:27 (KLZ_WT16)
	21:56	18	06:49 (KLZ_WT21)	21:11			20:04	4	07:46 (CBR_WT01)	18:57			17:00	4	08:32 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
15	05:47		06:30 (KLZ_WT21)	06:31			07:19		07:44 (KLZ_WT11)	08:07			08:01		08:30 (RHR_WT02)	08:42		12:28 (KLZ_WT16)
	21:56	20	06:50 (KLZ_WT21)	21:09			20:02	1	07:45 (KLZ_WT11)	18:55			16:59	3	08:33 (RHR_WT02)	16:38	49	13:17 (KLZ_WT16)
16	05:48		06:30 (KLZ_WT21)	06:32		07:02 (SAM_WT07)	07:21		07:45 (KLZ_WT11)	08:09		08:35 (MXS_WT01)	08:03		08:32 (RHR_WT02)	08:43		12:28 (KLZ_WT16)
	21:55	20	06:50 (KLZ_WT21)	21:07	3	07:05 (SAM_WT07)	20:00	2	07:47 (KLZ_WT11)	18:53	2	08:37 (MXS_WT01)	16:57	6	08:42 (RHR_WT03)	16:38	50	13:18 (KLZ_WT16)
17	05:49		06:30 (KLZ_WT21)	06:34		07:00 (SAM_WT07)	07:22			08:11		08:36 (MXS_WT01)	08:04		08:36 (RHR_WT03)	08:44		12:29 (KLZ_WT16)
	21:54	21	06:51 (KLZ_WT21)	21:05	7	07:07 (SAM_WT07)	19:57			18:50	2	08:38 (MXS_WT01)	16:56	8	08:44 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
18	05:50		06:29 (KLZ_WT21)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT10)	08:13		08:38 (MXS_WT01)	08:06		08:36 (RHR_WT03)	08:45		12:28 (KLZ_WT16)
	21:53	22	06:51 (KLZ_WT21)	21:03	6	07:08 (SAM_WT07)	19:55	6	07:55 (KLZ_WT10)	18:48	1	08:39 (MXS_WT01)	16:55	10	08:46 (RHR_WT03)	16:39	50	13:18 (KLZ_WT16)
19	05:51		06:29 (KLZ_WT21)	06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT10)	08:14			08:08		08:37 (RHR_WT03)	08:45		12:29 (KLZ_WT16)
	21:51	22	06:51 (KLZ_WT21)	21:01	5	07:08 (SAM_WT07)	19:53	5	07:55 (KLZ_WT10)	18:46			16:54	9	08:46 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
20	05:53		06:29 (KLZ_WT21)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT10)	08:16		08:42 (MVN_WT01)	08:09		08:39 (RHR_WT03)	08:46		12:30 (KLZ_WT16)
	21:50	23	06:52 (KLZ_WT21)	20:59	4	07:09 (SAM_WT07)	19:50	3	07:55 (KLZ_WT10)	18:44	4	08:46 (MVN_WT01)	16:52	8	08:47 (RHR_WT03)	16:39	50	13:20 (KLZ_WT16)
21	05:54		06:29 (KLZ_WT21)	06:40		07:06 (SAM_WT07)	07:29		07:53 (KLZ_WT10)	08:18		08:43 (MVN_WT01)	08:11		08:41 (RHR_WT03)	08:47		12:30 (KLZ_WT16)
	21:49	23	06:52 (KLZ_WT21)	20:57	2	07:08 (SAM_WT07)	19:48	1	07:54 (KLZ_WT10)	18:42	3	08:46 (MVN_WT01)	16:51	7	08:48 (RHR_WT03)	16:40	50	13:20 (KLZ_WT16)
22	05:55		06:29 (KLZ_WT21)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (RHR_WT03)	08:47		12:31 (KLZ_WT16)
	21:48	23	06:52 (KLZ_WT21)	20:55			19:46			18:40	1	08:46 (MVN_WT01)	16:50	11	08:58 (ALB_WT01)	16:40	50	13:21 (KLZ_WT16)
23	05:56		06:29 (KLZ_WT21)	06:43			07:32			08:21			08:14		08:44 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:47	23	06:52 (KLZ_WT21)	20:53			19:44			18:38			16:49	13	08:59 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
24	05:58		06:29 (KLZ_WT21)	06:45			07:33			08:23			08:16		08:46 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:45	24	06:53 (KLZ_WT21)	20:50			19:41			18:36			16:48	13	09:00 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
25	05:59		06:29 (KLZ_WT21)	06:46			07:35			07:24			08:17		08:48 (RHR_WT03)	08:48		12:32 (KLZ_WT16)
	21:44	24	06:53 (KLZ_WT21)	20:48			19:39			17:34			16:47	15	12:47 (KLZ_WT16)	16:42	50	13:22 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT21)	06:48			07:37			07:26			08:19		08:50 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:43	23	06:52 (KLZ_WT21)	20:46			19:37			17:32			16:46	29	12:53 (KLZ_WT16)	16:43	50	13:23 (KLZ_WT16)
27	06:02		06:30 (KLZ_WT21)	06:49			07:38			07:28			08:20		08:51 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:41	22	06:52 (KLZ_WT21)	20:44			19:35			17:30			16:45	35	12:57 (KLZ_WT16)	16:44	50	13:23 (KLZ_WT16)
28	06:03		06:32 (KLZ_WT21)	06:51			07:40			07:30			08:22		08:53 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:40	20	06:52 (KLZ_WT21)	20:42			19:32			17:28			16:44	37	12:59 (KLZ_WT16)	16:44	49	13:23 (KLZ_WT16)
29	06:05		06:33 (KLZ_WT21)	06:52			07:41			07:31			08:23		08:54 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:38	19	06:52 (KLZ_WT21)	20:40			19:30			17:27			16:44	39	13:01 (KLZ_WT16)	16:45	49	13:23 (KLZ_WT16)
30	06:06		06:35 (KLZ_WT21)	06:54			07:43			07:33			08:25		08:56 (ALB_WT01)	08:50		12:35 (KLZ_WT16)
	21:37	17	06:52 (KLZ_WT21)	20:38			19:28			17:25			16:43	41	13:03 (KLZ_WT16)	16:46	48	13:23 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT21)	06:56						07:35						08:50		12:36 (KLZ_WT16)
	21:35	15	06:51 (KLZ_WT21)	20:35						17:23						16:47	48	13:24 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		465			68			70			119			311			1476	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,69			0,68			0,62			0,56			0,60			0,68	
Total reduction		0,30			0,31			0,26			0,20			0,16			0,15	
Total, real		141			21			18			24			49			220	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (RHR_WT03)	08:24		08:50 (RHR_WT01)	07:32		08:12 (KLZ_WT08)	07:23		07:46 (SAM_WT05)	06:20		18:40 (KLZ_WT15)	05:37		06:09 (KLZ_WT21)
	16:48	55	15:34 (KLZ_WT16)	17:35	7	08:57 (RHR_WT01)	18:25	17	08:29 (KLZ_WT08)	20:17	15	08:01 (CBR_WT01)	21:06	75	19:55 (KLZ_WT15)	21:51	104	19:58 (KLZ_WT15)
2	08:50		09:20 (RHR_WT03)	08:23		08:48 (RHR_WT01)	07:30		08:13 (KLZ_WT08)	07:21		07:47 (CBR_WT01)	06:18		18:40 (KLZ_WT15)	05:36		06:10 (KLZ_WT21)
	16:49	52	15:35 (KLZ_WT16)	17:37	8	08:56 (RHR_WT01)	18:27	15	08:28 (KLZ_WT08)	20:19	12	07:59 (CBR_WT01)	21:08	76	19:56 (KLZ_WT15)	21:52	102	19:58 (KLZ_WT15)
3	08:49		09:20 (RHR_WT03)	08:21		08:47 (RHR_WT01)	07:28		08:14 (KLZ_WT08)	07:19		07:48 (CBR_WT01)	06:17		18:40 (KLZ_WT15)	05:35		06:10 (KLZ_WT21)
	16:50	52	15:35 (KLZ_WT16)	17:38	8	08:55 (RHR_WT01)	18:28	12	08:26 (KLZ_WT08)	20:20	9	07:57 (CBR_WT01)	21:10	77	19:57 (KLZ_WT15)	21:53	101	19:58 (KLZ_WT15)
4	08:49		09:19 (RHR_WT03)	08:19			07:26		08:17 (KLZ_WT08)	07:17			06:15		18:39 (KLZ_WT15)	05:34		06:09 (KLZ_WT21)
	16:51	52	15:35 (KLZ_WT16)	17:40			18:30	6	08:23 (KLZ_WT08)	20:22			21:11	78	19:57 (KLZ_WT15)	21:54	101	19:57 (KLZ_WT15)
5	08:49		09:19 (RHR_WT03)	08:18			07:24			07:14			06:13		18:38 (KLZ_WT15)	05:34		06:10 (KLZ_WT21)
	16:53	53	15:36 (KLZ_WT16)	17:42			18:32			20:24			21:13	79	19:57 (KLZ_WT15)	21:55	101	19:58 (KLZ_WT15)
6	08:49		09:18 (RHR_WT03)	08:16			07:21			07:12			06:11		18:39 (KLZ_WT15)	05:33		06:10 (KLZ_WT21)
	16:54	53	15:35 (KLZ_WT16)	17:44			18:33			20:25			21:14	79	19:58 (KLZ_WT15)	21:56	100	19:57 (KLZ_WT15)
7	08:48		09:18 (RHR_WT03)	08:15			07:19			07:10			06:09		18:38 (KLZ_WT15)	05:32		06:10 (KLZ_WT21)
	16:55	54	15:36 (KLZ_WT16)	17:46			18:35			20:27			21:16	80	19:58 (KLZ_WT15)	21:56	100	19:58 (KLZ_WT15)
8	08:48		09:17 (RHR_WT03)	08:13			07:17			07:08			06:08		06:32 (SAM_WT06)	05:32		06:11 (KLZ_WT21)
	16:56	54	15:36 (KLZ_WT16)	17:47			18:37			20:29			21:17	81	19:57 (KLZ_WT15)	21:57	99	19:58 (KLZ_WT15)
9	08:48		09:17 (RHR_WT03)	08:11			07:15			07:06		07:28 (SAM_WT04)	06:06		06:31 (SAM_WT06)	05:31		06:11 (KLZ_WT21)
	16:58	55	15:37 (KLZ_WT16)	17:49			18:39			20:30	1	07:29 (SAM_WT04)	21:19	83	19:58 (KLZ_WT15)	21:58	99	19:58 (KLZ_WT15)
10	08:47		09:17 (RHR_WT03)	08:09			07:13			07:03			06:04		06:29 (SAM_WT06)	05:31		06:11 (KLZ_WT21)
	16:59	55	15:37 (KLZ_WT16)	17:51			18:40			20:32			21:21	86	19:58 (KLZ_WT15)	21:59	99	19:58 (KLZ_WT15)
11	08:46		09:18 (RHR_WT03)	08:08			07:11			07:01			06:03		06:28 (SAM_WT06)	05:31		06:12 (KLZ_WT21)
	17:00	52	15:37 (KLZ_WT16)	17:53			18:42			20:34			21:22	86	19:58 (KLZ_WT15)	22:00	97	19:58 (KLZ_WT15)
12	08:46		09:20 (RHR_WT03)	08:06			07:08			06:59			06:01		06:26 (SAM_WT06)	05:30		06:11 (KLZ_WT21)
	17:02	49	15:37 (KLZ_WT16)	17:55			18:44			20:35			21:24	88	19:58 (KLZ_WT15)	22:00	99	19:58 (KLZ_WT15)
13	08:45		09:21 (RHR_WT03)	08:04			07:06			06:57		19:17 (KLZ_WT15)	06:00		06:25 (SAM_WT06)	05:30		06:12 (KLZ_WT21)
	17:03	46	15:37 (KLZ_WT16)	17:56			18:45			20:37	7	19:24 (KLZ_WT15)	21:25	87	19:58 (KLZ_WT15)	22:01	97	19:58 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02			07:04			06:55		19:09 (KLZ_WT15)	05:58		06:25 (SAM_WT06)	05:30		06:12 (KLZ_WT21)
	17:05	44	15:37 (KLZ_WT16)	17:58			18:47			20:38	23	19:32 (KLZ_WT15)	21:27	86	19:58 (KLZ_WT15)	22:02	96	19:58 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00		08:24 (MVN_WT01)	07:02			06:53		19:05 (KLZ_WT15)	05:56		18:38 (KLZ_WT15)	05:30		06:12 (KLZ_WT21)
	17:06	40	15:37 (KLZ_WT16)	18:00	2	08:26 (MVN_WT01)	18:49			20:40	31	19:36 (KLZ_WT15)	21:28	80	19:58 (KLZ_WT15)	22:02	96	19:58 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58		08:22 (MVN_WT01)	06:59			06:50		07:13 (SAM_WT11)	05:55		18:38 (KLZ_WT15)	05:30		06:13 (KLZ_WT21)
	17:08	40	15:37 (KLZ_WT16)	18:02	3	08:25 (MVN_WT01)	18:50			20:42	37	19:38 (KLZ_WT15)	21:30	81	19:59 (KLZ_WT15)	22:03	96	19:58 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:57		08:20 (MVN_WT01)	06:57			06:48		07:11 (SAM_WT11)	05:54		06:19 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:09	40	15:37 (KLZ_WT16)	18:04	5	08:25 (MVN_WT01)	18:52			20:43	44	19:41 (KLZ_WT15)	21:31	87	19:58 (KLZ_WT15)	22:03	96	19:59 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55		08:18 (MVN_WT01)	06:55		07:17 (KLZ_WT10)	06:46		07:09 (SAM_WT11)	05:52		06:18 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:11	40	15:37 (KLZ_WT16)	18:05	5	08:23 (MVN_WT01)	18:54	2	07:19 (KLZ_WT10)	20:45	48	19:43 (KLZ_WT15)	21:33	91	19:58 (KLZ_WT15)	22:03	96	19:59 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53		08:16 (MXS_WT01)	06:53		07:15 (KLZ_WT10)	06:44		18:55 (KLZ_WT15)	05:51		06:17 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:12	39	15:36 (KLZ_WT16)	18:07	5	08:21 (MXS_WT01)	18:56	5	07:20 (KLZ_WT10)	20:47	49	19:44 (KLZ_WT15)	21:34	94	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51		08:16 (MXS_WT01)	06:50		07:13 (KLZ_WT10)	06:42		18:53 (KLZ_WT15)	05:49		06:16 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:14	37	15:36 (KLZ_WT16)	18:09	9	08:25 (KLZ_WT08)	18:57	7	07:20 (KLZ_WT10)	20:48	53	19:46 (KLZ_WT15)	21:35	96	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
21	08:38		09:07 (RHR_WT02)	07:49		08:16 (KLZ_WT08)	06:48		07:10 (KLZ_WT10)	06:40		18:51 (KLZ_WT15)	05:48		06:15 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:16	34	15:35 (KLZ_WT16)	18:11	11	08:27 (KLZ_WT08)	18:59	9	07:19 (KLZ_WT10)	20:50	56	19:47 (KLZ_WT15)	21:37	97	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
22	08:37		15:07 (KLZ_WT16)	07:47		08:15 (KLZ_WT08)	06:46		07:09 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:13 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)
	17:17	27	15:34 (KLZ_WT16)	18:12	14	08:29 (KLZ_WT08)	19:01	9	07:18 (KLZ_WT10)	20:52	61	19:49 (KLZ_WT15)	21:38	99	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
23	08:36		15:09 (KLZ_WT16)	07:45		08:13 (KLZ_WT08)	06:44		07:06 (KLZ_WT11)	06:36		06:59 (SAM_WT07)	05:46		06:12 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)
	17:19	24	15:33 (KLZ_WT16)	18:14	17	08:30 (KLZ_WT08)	19:02	8	07:17 (KLZ_WT10)	20:53	65	19:50 (KLZ_WT15)	21:40	100	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
24	08:35		15:12 (KLZ_WT16)	07:43		08:13 (KLZ_WT08)	06:41		07:04 (KLZ_WT11)	06:34		06:57 (SAM_WT07)	05:44		06:11 (KLZ_WT21)	05:31		06:14 (KLZ_WT21)
	17:21	20	15:32 (KLZ_WT16)	18:16	18	08:31 (KLZ_WT08)	19:04	3	07:07 (KLZ_WT11)	20:55	69	19:51 (KLZ_WT15)	21:41	102	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
25	08:34		15:14 (KLZ_WT16)	07:41		08:12 (KLZ_WT08)	06:39		07:01 (KLZ_WT11)	06:32		06:55 (SAM_WT07)	05:43		06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)
	17:22	16	15:30 (KLZ_WT16)	18:18	19	08:31 (KLZ_WT08)	19:05	5	07:06 (KLZ_WT11)	20:57	73	19:51 (KLZ_WT15)	21:42	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
26	08:32		15:19 (KLZ_WT16)	07:39		08:12 (KLZ_WT08)	06:37		06:59 (KLZ_WT11)	06:30		06:53 (SAM_WT07)	05:42		06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)
	17:24	8	15:27 (KLZ_WT16)	18:20	19	08:31 (KLZ_WT08)	19:07	5	07:04 (KLZ_WT11)	20:58	76	19:52 (KLZ_WT15)	21:43	103	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
27	08:31			07:36		08:12 (KLZ_WT08)	06:35		06:57 (CBR_WT01)	06:28		06:51 (SAM_WT07)	05:41		06:10 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)
	17:26			18:21	19	08:31 (KLZ_WT08)	19:09	4	07:01 (CBR_WT01)	21:00	79	19:53 (KLZ_WT15)	21:45	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
28	08:30		08:56 (RHR_WT01)	07:34		08:11 (KLZ_WT08)	06:32		06:55 (CBR_WT01)	06:26		06:51 (SAM_WT07)	05:40		06:09 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)
	17:28	1	08:57 (RHR_WT01)	18:23	19	08:30 (KLZ_WT08)	19:10	7	07:02 (CBR_WT01)	21:01	80	19:54 (KLZ_WT15)	21:46	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
29	08:28		08:54 (MVZ_WT01)				07:30		07:52 (CBR_WT01)	06:24		06:53 (SAM_WT07)	05:39		06:10 (KLZ_WT21)	05:33		06:16 (KLZ_WT21)
	17:29	3	08:57 (RHR_WT01)				20:12	9	08:01 (CBR_WT01)	21:03	78	19:55 (KLZ_WT15)	21:47	103	19:58 (KLZ_WT15)	22:05	97	20:02 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		07:50 (CBR_WT01)	06:22		18:41 (KLZ_WT15)	05:38		06:10 (KLZ_WT21)	05:33		06:15 (KLZ_WT21)
	17:31	5	08:58 (RHR_WT01)				20:14	11	08:01 (CBR_WT01)	21:05	74	19:55 (KLZ_WT15)	21:48	103	19:58 (KLZ_WT15)	22:04	98	20:02 (KLZ_WT15)
31	08:26		08:51 (RHR_WT01)				07:26		07:48 (CBR_WT01)				05:37		06:09 (KLZ_WT21)			
	17:33	6	08:57 (RHR_WT01)				20:15	13	08:01 (CBR_WT01)				21:49	104	19:58 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1106			188			147			1040			2790			2934	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,56			0,59			0,59			0,60			0,62	
Total reduction		0,17			0,16			0,22			0,27			0,27			0,27	
Total, real		186			31			32			279			751			789	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:16 (KLZ_WT21)	06:09		06:37 (SAM_WT06)	06:57			07:44			07:37			08:26		09:00 (RHR_WT03)
	22:04	97	20:02 (KLZ_WT15)	21:34	86	20:08 (KLZ_WT15)	20:33			19:25			17:21			16:42	52	15:19 (KLZ_WT16)
2	05:35		06:15 (KLZ_WT21)	06:11		06:39 (SAM_WT06)	06:59			07:46			07:38			08:27		09:00 (RHR_WT03)
	22:04	99	20:02 (KLZ_WT15)	21:32	86	20:09 (KLZ_WT15)	20:31			19:23			17:19			16:42	55	15:20 (KLZ_WT16)
3	05:35		06:16 (KLZ_WT21)	06:12		06:40 (SAM_WT06)	07:00		07:26 (SAM_WT04)	07:48			07:40			08:29		09:00 (RHR_WT03)
	22:04	98	20:03 (KLZ_WT15)	21:30	84	20:08 (KLZ_WT15)	20:29	1	07:27 (SAM_WT04)	19:21			17:17			16:41	55	15:20 (KLZ_WT16)
4	05:36		06:16 (KLZ_WT21)	06:14		06:41 (SAM_WT06)	07:02			07:49			07:42			08:30		09:02 (RHR_WT03)
	22:03	99	20:03 (KLZ_WT15)	21:29	83	20:07 (KLZ_WT15)	20:27			19:19			17:16			16:40	54	15:21 (KLZ_WT16)
5	05:37		06:17 (KLZ_WT21)	06:15		06:43 (SAM_WT06)	07:03			07:51			07:44			08:31		09:03 (RHR_WT03)
	22:03	99	20:04 (KLZ_WT15)	21:27	81	20:08 (KLZ_WT15)	20:24			19:16			17:14			16:40	54	15:21 (KLZ_WT16)
6	05:38		06:16 (KLZ_WT21)	06:17		18:48 (KLZ_WT15)	07:05			07:53			07:45			08:33		09:04 (RHR_WT03)
	22:02	101	20:04 (KLZ_WT15)	21:25	79	20:07 (KLZ_WT15)	20:22			19:14			17:12			16:40	53	15:21 (KLZ_WT16)
7	05:38		06:16 (KLZ_WT21)	06:18		18:48 (KLZ_WT15)	07:07			07:54			07:47			08:34		09:06 (RHR_WT03)
	22:02	101	20:04 (KLZ_WT15)	21:24	79	20:07 (KLZ_WT15)	20:20			19:12			17:11			16:39	53	15:23 (KLZ_WT16)
8	05:39		06:17 (KLZ_WT21)	06:20		18:48 (KLZ_WT15)	07:08			07:56			07:49		08:18 (RHR_WT01)	08:35		09:07 (RHR_WT03)
	22:01	102	20:05 (KLZ_WT15)	21:22	78	20:06 (KLZ_WT15)	20:18			19:10			17:09	8	08:26 (RHR_WT01)	16:39	53	15:23 (KLZ_WT16)
9	05:40		06:17 (KLZ_WT21)	06:21		18:49 (KLZ_WT15)	07:10		07:43 (CBR_WT01)	07:58			07:50		08:19 (RHR_WT01)	08:36		09:08 (RHR_WT03)
	22:00	102	20:05 (KLZ_WT15)	21:20	77	20:06 (KLZ_WT15)	20:15	8	07:51 (CBR_WT01)	19:08			17:07	8	08:27 (RHR_WT01)	16:39	52	15:23 (KLZ_WT16)
10	05:41		06:17 (KLZ_WT21)	06:23		18:48 (KLZ_WT15)	07:11		07:40 (CBR_WT01)	07:59		08:50 (KLZ_WT08)	07:52		08:21 (RHR_WT01)	08:37		09:09 (RHR_WT03)
	22:00	102	20:05 (KLZ_WT15)	21:18	77	20:05 (KLZ_WT15)	20:13	12	07:52 (CBR_WT01)	19:05	9	08:59 (KLZ_WT08)	17:06	7	08:28 (RHR_WT01)	16:38	52	15:24 (KLZ_WT16)
11	05:42		06:18 (KLZ_WT21)	06:24		18:49 (KLZ_WT15)	07:13		07:38 (SAM_WT05)	08:01		08:48 (KLZ_WT08)	07:54		08:23 (RHR_WT01)	08:38		09:10 (RHR_WT03)
	21:59	102	20:06 (KLZ_WT15)	21:16	76	20:05 (KLZ_WT15)	20:11	15	07:53 (CBR_WT01)	19:03	13	09:01 (KLZ_WT08)	17:04	6	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
12	05:43		06:18 (KLZ_WT21)	06:26		18:49 (KLZ_WT15)	07:14		07:39 (CBR_WT01)	08:02		08:47 (KLZ_WT08)	07:56		08:24 (MVZ_WT01)	08:39		09:11 (RHR_WT03)
	21:58	102	20:06 (KLZ_WT15)	21:14	75	20:04 (KLZ_WT15)	20:09	13	07:52 (CBR_WT01)	19:01	15	09:02 (KLZ_WT08)	17:03	5	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
13	05:44		06:18 (KLZ_WT21)	06:27		18:49 (KLZ_WT15)	07:16		07:41 (CBR_WT01)	08:04		08:45 (KLZ_WT08)	07:57		08:26 (MVZ_WT01)	08:40		09:12 (RHR_WT03)
	21:57	102	20:06 (KLZ_WT15)	21:13	74	20:03 (KLZ_WT15)	20:06	12	07:53 (CBR_WT01)	18:59	17	09:02 (KLZ_WT08)	17:01	3	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
14	05:45		06:18 (KLZ_WT21)	06:29		07:00 (SAM_WT07)	07:18		07:42 (CBR_WT01)	08:06		08:44 (KLZ_WT08)	07:59		08:28 (RHR_WT01)	08:41		09:13 (RHR_WT03)
	21:56	104	20:07 (KLZ_WT15)	21:11	78	20:02 (KLZ_WT15)	20:04	10	07:52 (CBR_WT01)	18:57	19	09:03 (KLZ_WT08)	17:00	1	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
15	05:47		06:19 (KLZ_WT21)	06:30		06:57 (SAM_WT07)	07:19		07:44 (CBR_WT01)	08:07		08:44 (KLZ_WT08)	08:01			08:42		09:14 (RHR_WT03)
	21:56	103	20:07 (KLZ_WT15)	21:09	81	20:01 (KLZ_WT15)	20:02	7	07:51 (CBR_WT01)	18:55	19	09:03 (KLZ_WT08)	16:59			16:38	57	15:26 (KLZ_WT16)
16	05:48		06:19 (KLZ_WT21)	06:32		06:59 (SAM_WT07)	07:21		07:45 (CBR_WT01)	08:09		08:44 (KLZ_WT08)	08:02		14:52 (KLZ_WT16)	08:43		09:15 (RHR_WT03)
	21:55	103	20:07 (KLZ_WT15)	21:07	78	20:00 (KLZ_WT15)	20:00	4	07:49 (CBR_WT01)	18:53	19	09:03 (KLZ_WT08)	16:57	8	15:00 (KLZ_WT16)	16:38	58	15:27 (KLZ_WT16)
17	05:49		06:19 (KLZ_WT21)	06:34		07:00 (SAM_WT07)	07:22		07:47 (KLZ_WT11)	08:11		08:44 (KLZ_WT08)	08:04		14:48 (KLZ_WT16)	08:44		09:16 (RHR_WT03)
	21:54	103	20:07 (KLZ_WT15)	21:05	76	19:59 (KLZ_WT15)	19:57	5	07:52 (KLZ_WT11)	18:50	18	09:02 (KLZ_WT08)	16:56	16	15:04 (KLZ_WT16)	16:39	58	15:27 (KLZ_WT16)
18	05:50		06:20 (KLZ_WT21)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT11)	08:12		08:44 (KLZ_WT08)	08:06		14:46 (KLZ_WT16)	08:45		09:16 (RHR_WT03)
	21:52	102	20:07 (KLZ_WT15)	21:03	72	19:58 (KLZ_WT15)	19:55	5	07:54 (KLZ_WT11)	18:48	18	09:02 (KLZ_WT08)	16:55	20	15:06 (KLZ_WT16)	16:39	57	15:27 (KLZ_WT16)
19	05:51		06:20 (KLZ_WT21)	06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT11)	08:14		08:45 (KLZ_WT08)	08:07		14:43 (KLZ_WT16)	08:45		09:17 (RHR_WT03)
	21:51	102	20:07 (KLZ_WT15)	21:01	68	19:56 (KLZ_WT15)	19:53	4	07:54 (KLZ_WT11)	18:46	16	09:01 (KLZ_WT08)	16:53	24	15:07 (KLZ_WT16)	16:39	58	15:28 (KLZ_WT16)
20	05:53		06:22 (KLZ_WT21)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT11)	08:16		08:46 (KLZ_WT08)	08:09		14:42 (KLZ_WT16)	08:46		09:18 (RHR_WT03)
	21:50	102	20:09 (KLZ_WT15)	20:59	64	19:55 (KLZ_WT15)	19:50	8	08:03 (KLZ_WT10)	18:44	14	09:00 (KLZ_WT08)	16:52	27	15:09 (KLZ_WT16)	16:39	58	15:29 (KLZ_WT16)
21	05:54		06:23 (KLZ_WT21)	06:40		18:54 (KLZ_WT15)	07:29		07:55 (KLZ_WT10)	08:18		08:48 (KLZ_WT08)	08:11		08:43 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	99	20:08 (KLZ_WT15)	20:57	59	19:53 (KLZ_WT15)	19:48	9	08:04 (KLZ_WT10)	18:42	9	08:57 (KLZ_WT08)	16:51	34	15:11 (KLZ_WT16)	16:40	58	15:29 (KLZ_WT16)
22	05:55		06:24 (KLZ_WT21)	06:41		18:56 (KLZ_WT15)	07:30		07:55 (KLZ_WT10)	08:19		08:45 (MXS_WT01)	08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	97	20:08 (KLZ_WT15)	20:55	56	19:52 (KLZ_WT15)	19:46	10	08:05 (KLZ_WT10)	18:40	5	08:50 (MXS_WT01)	16:50	37	15:12 (KLZ_WT16)	16:40	58	15:30 (KLZ_WT16)
23	05:56		06:25 (KLZ_WT21)	06:43		18:57 (KLZ_WT15)	07:32		07:56 (KLZ_WT10)	08:21		08:47 (MXS_WT01)	08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	96	20:08 (KLZ_WT15)	20:53	52	19:49 (KLZ_WT15)	19:44	8	08:04 (KLZ_WT10)	18:38	5	08:52 (MXS_WT01)	16:49	39	15:12 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
24	05:58		06:27 (KLZ_WT21)	06:45		18:59 (KLZ_WT15)	07:33		07:58 (KLZ_WT10)	08:23		08:49 (MVN_WT01)	08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	94	20:09 (KLZ_WT15)	20:50	49	19:48 (KLZ_WT15)	19:41	6	08:04 (KLZ_WT10)	18:36	5	08:54 (MVN_WT01)	16:48	40	15:14 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
25	05:59		06:28 (KLZ_WT21)	06:46		07:12 (SAM_WT11)	07:35		08:00 (KLZ_WT10)	07:24		07:51 (MVN_WT01)	08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	92	20:09 (KLZ_WT15)	20:48	47	19:45 (KLZ_WT15)	19:39	3	08:03 (KLZ_WT10)	17:34	5	07:56 (MVN_WT01)	16:47	40	15:15 (KLZ_WT16)	16:42	58	15:31 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT21)	06:48		07:14 (SAM_WT11)	07:36			07:26		07:53 (MVN_WT01)	08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	89	20:09 (KLZ_WT15)	20:46	43	19:43 (KLZ_WT15)	19:37			17:32	3	07:56 (MVN_WT01)	16:46	40	15:15 (KLZ_WT16)	16:43	58	15:31 (KLZ_WT16)
27	06:02		06:32 (KLZ_WT21)	06:49		07:15 (SAM_WT11)	07:38			07:28		07:54 (MVN_WT01)	08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	82	20:08 (KLZ_WT15)	20:44	37	19:40 (KLZ_WT15)	19:35			17:30	1	07:55 (MVN_WT01)	16:45	40	15:16 (KLZ_WT16)	16:43	58	15:32 (KLZ_WT16)
28	06:03		18:49 (KLZ_WT15)	06:51		19:07 (KLZ_WT15)	07:40			07:30			08:22		08:53 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:40	80	20:09 (KLZ_WT15)	20:42	30	19:37 (KLZ_WT15)	19:32			17:28			16:44	42	15:17 (KLZ_WT16)	16:44	57	15:32 (KLZ_WT16)
29	06:05		18:48 (KLZ_WT15)	06:52		19:10 (KLZ_WT15)	07:41			07:31			08:23		09:01 (RHR_WT03)	08:49		09:20 (RHR_WT03)
	21:38	81	20:09 (KLZ_WT15)	20:40	22	19:32 (KLZ_WT15)	19:30			17:27			16:44	46	15:17 (KLZ_WT16)	16:45	57	15:32 (KLZ_WT16)
30	06:06		06:35 (SAM_WT06)	06:54		19:19 (KLZ_WT15)	07:43			07:33			08:25		09:01 (RHR_WT03)	08:50		09:20 (RHR_WT03)
	21:37	86	20:08 (KLZ_WT15)	20:38	5	19:24 (KLZ_WT15)	19:28			17:25			16:43	50	15:19 (KLZ_WT16)	16:46	56	15:33 (KLZ_WT16)
31	06:08		06:36 (SAM_WT06)	06:56						07:35						08:50		09:20 (RHR_WT03)
	21:35	88	20:09 (KLZ_WT15)	20:35						17:23						16:47	56	15:33 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		3009			1952			140			210			541			1733	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,61			0,59			0,62			0,56			0,70			0,68	
Total reduction		0,27			0,27			0,26			0,20			0,18			0,15	
Total, real		808			527			37			41			99			261	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

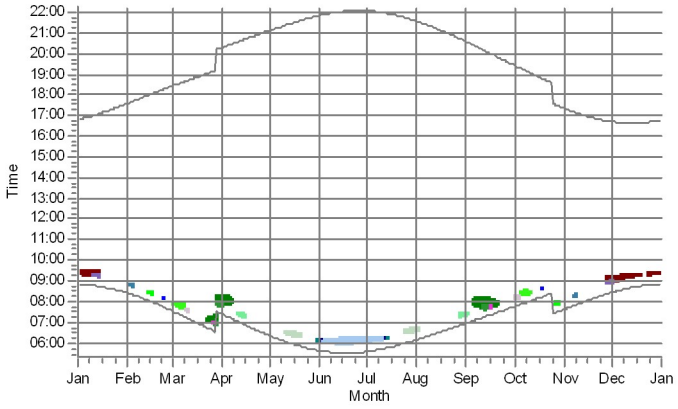
Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

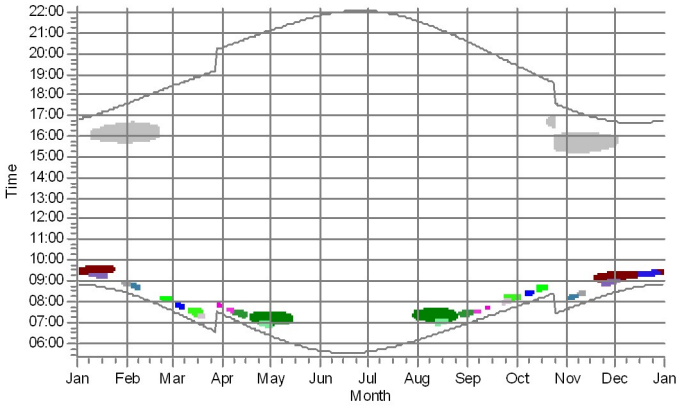
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

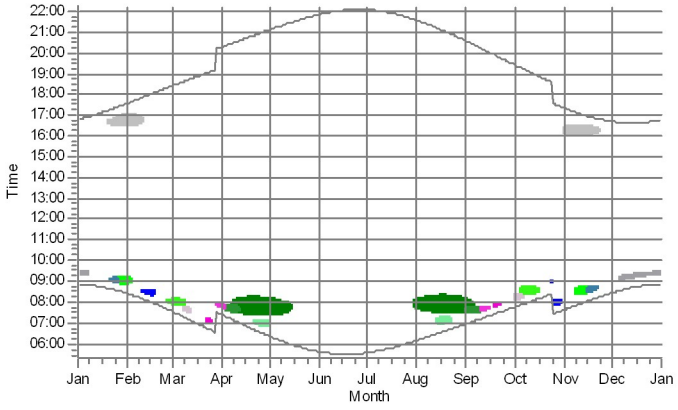
1: Hoogstraat 54, 9940 Evergem



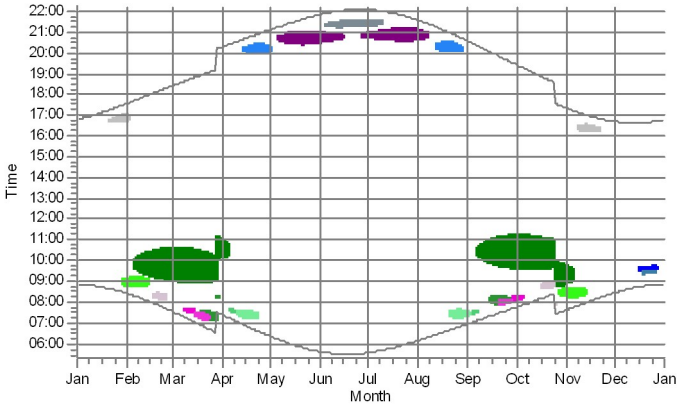
2: Pachtgoederen 2, 9940 Evergem



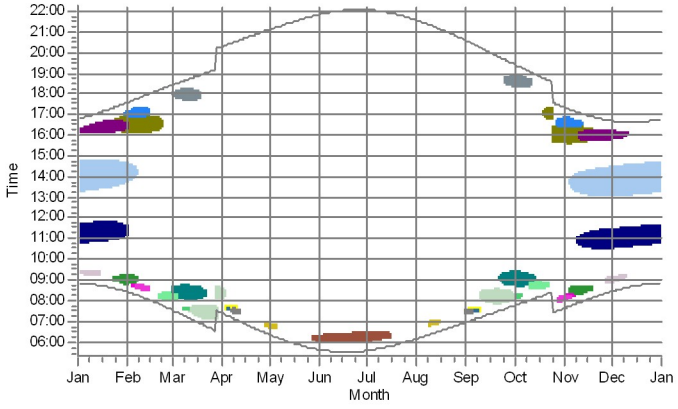
3: Pachtgoederen 2, 9940 Evergem



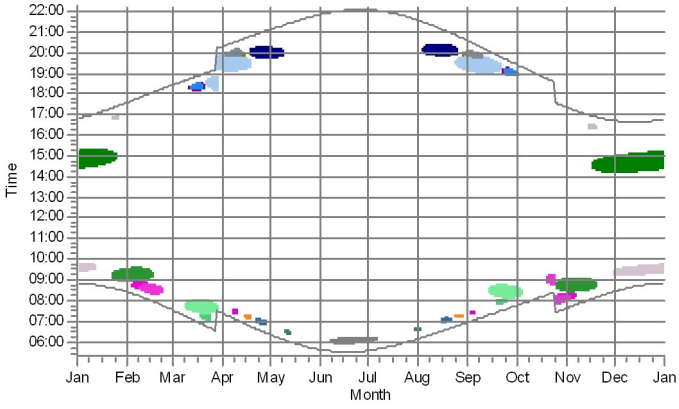
4: James Cookstraat 10, 9042 Gent



5: Pelikaanstraat 60, 9940 Evergem



6: Christoffel Columbuslaan 23, 9042 Gent



WTGs

- KLZ_WT21: KLZ_WT21 Armasteel
- KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
- KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
- KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
- KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
- KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
- KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
- KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
- SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
- SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
- SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
- EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
- TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)
- SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!

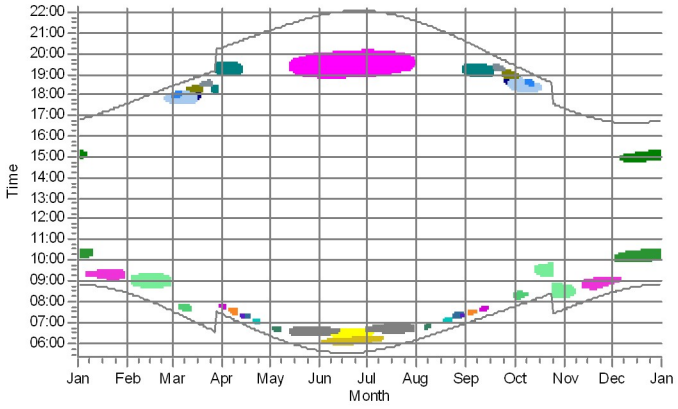
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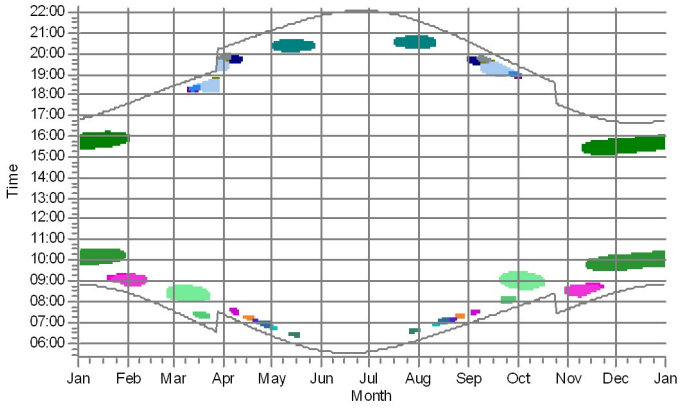
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

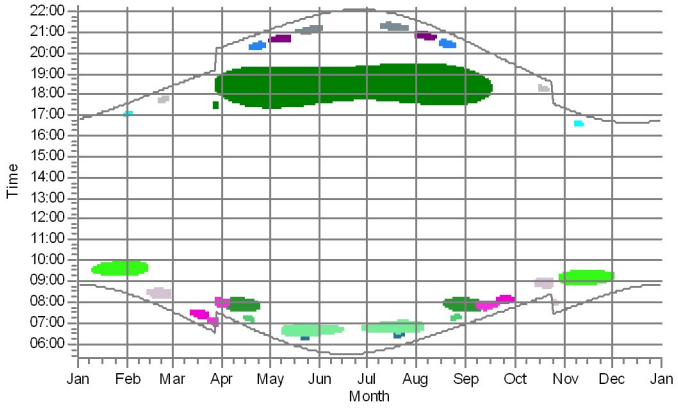
7: Christoffel Columbuslaan 23, 9042 Gent



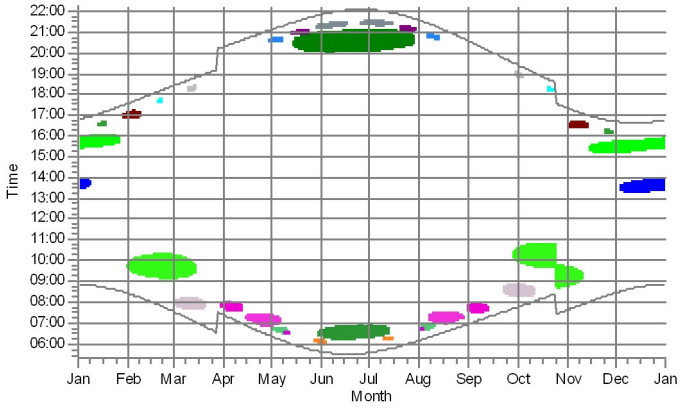
8: Christoffel Columbuslaan 17, 9042 Gent



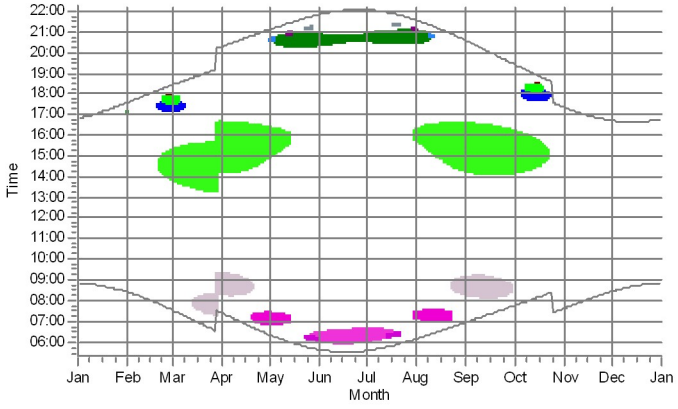
9: Willem van Rubroeckstraat 2, 9042 Gent



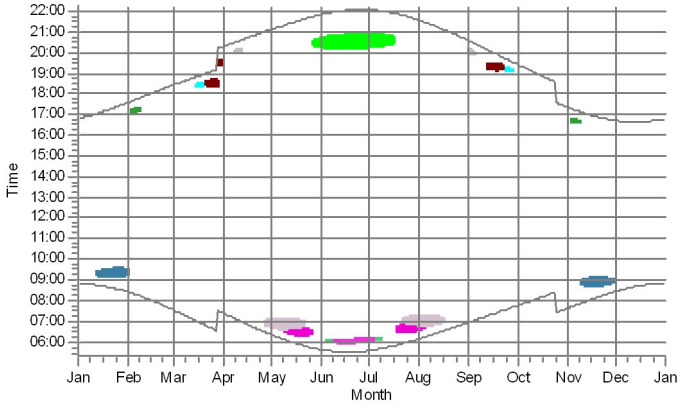
10: Willem van Rubroeckstraat 26, 9042 Gent



11: Arbedkaai 3, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

- KLZ_WT21: KLZ_WT21 Armasteel
- KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
- KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
- KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
- KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
- KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
- KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
- KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)
- SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
- SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
- SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
- SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
- SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
- EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
- SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
- SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

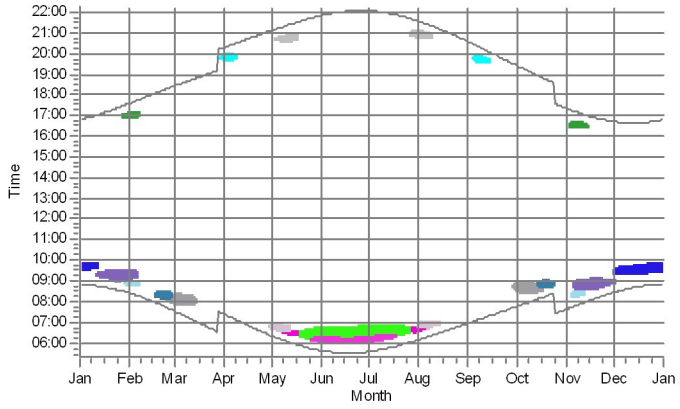
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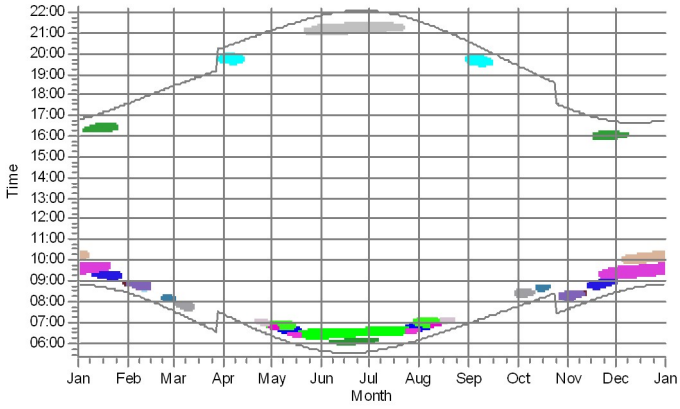
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

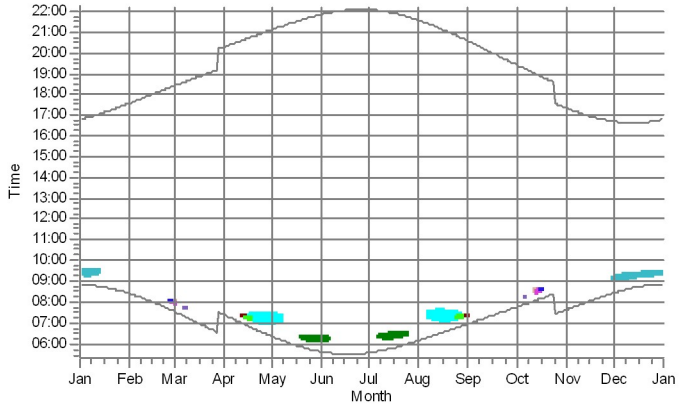
13: Doornzele Dries 107, 9940 Evergem



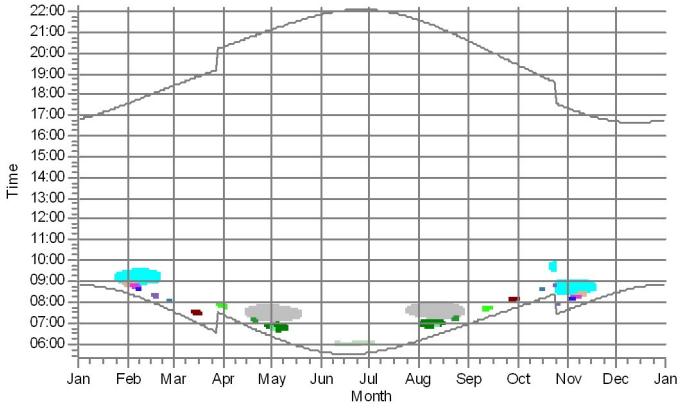
14: Abdijdreef 2, 9940 Evergem



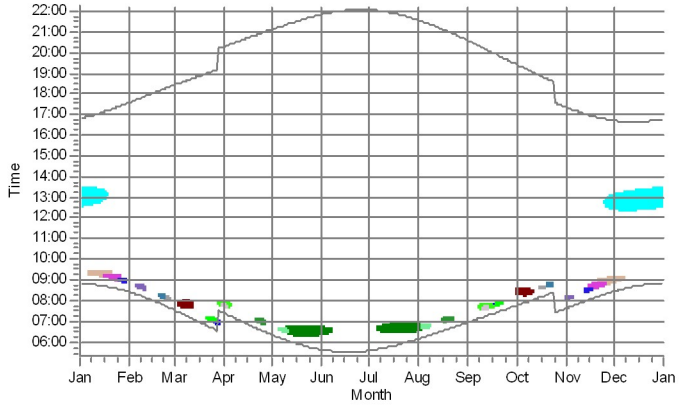
15: Hageland 14, 9940 Evergem



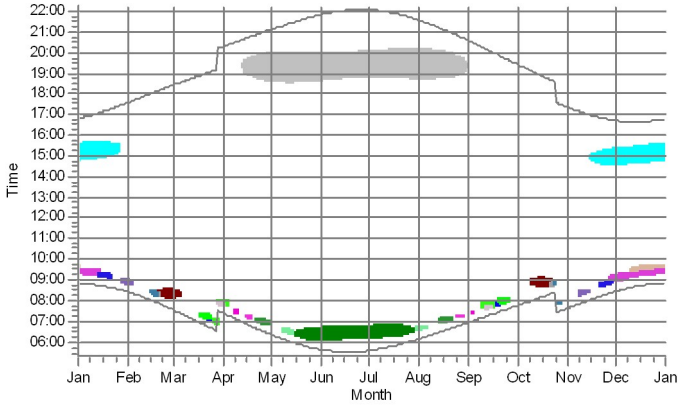
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

KLZ_WT21: KLZ_WT21 Armasteel
KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)
NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)
MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

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SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:27-16:01/34 16:48 14:26-15:14/48	08:24 17:35	07:32 09:04-10:34/90 18:25	07:23 17:59-18:52/53 07:53-08:17/24 20:17 10:09-10:57/48	06:20 06:44-08:09/85 21:06 17:25-19:16/111	05:36 06:07-06:39/32 17:38-19:14/96 21:51 20:06-20:56/50
2	08:50 15:27-16:01/34 16:49 14:27-15:14/47	08:23 17:36	07:30 09:03-10:34/91 18:26	07:21 17:56-18:54/58 07:52-08:16/24 20:19 10:12-10:54/42	06:18 06:42-08:08/86 21:08 17:25-19:16/111	05:36 06:09-06:39/30 17:40-19:14/94 21:52 20:06-20:57/51
3	08:49 15:28-16:02/34 16:50 14:28-15:13/45	08:21 17:38	07:28 09:03-10:34/91 18:28	07:19 17:54-18:57/63 07:52-08:15/23 20:20 10:14-10:50/36	06:16 06:41-08:08/87 21:09 17:25-19:16/111	05:35 06:09-06:38/29 17:40-19:14/94 21:53 20:06-20:57/51
4	08:49 15:28-16:02/34 16:51 14:28-15:13/45	08:19 17:40	07:26 09:03-10:35/92 18:30	07:17 17:51-18:59/68 07:53-08:14/21 20:22 10:17-10:46/29	06:15 06:39-08:06/87 21:11 17:26-19:16/110	05:34 06:09-06:39/29 17:40-19:13/93 21:54 20:05-20:57/52
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6	08:49 15:28-16:03/35 16:54 14:29-15:13/44	08:16 09:40-10:00/20 17:44	07:21 09:01-10:34/93 18:33	07:12 17:46-19:01/75 20:25 07:55-08:10/15	06:11 06:39-06:55/16 17:25-19:16/111 06:57-07:26/29 21:14 20:27-20:43/16 07:27-08:05/38	05:33 06:10-06:39/29 17:41-19:13/92 21:56 20:05-20:58/53
7	08:48 15:29-16:04/35 16:55 14:30-15:14/44	08:15 09:36-10:05/29 17:45	07:19 09:01-10:34/93 18:35	07:10 17:45-19:03/78 07:57-08:07/10 20:27 07:51-07:54/3	06:09 06:39-06:54/15 17:26-19:16/110 06:57-07:25/28 21:16 20:26-20:46/20 07:28-08:03/35	05:32 06:10-06:39/29 17:42-19:14/92 21:56 20:06-20:59/53
8	08:48 15:29-16:04/35 16:56 14:30-15:13/43	08:13 09:33-10:09/36 17:47	07:17 09:01-10:34/93 18:37	07:08 17:43-19:05/82 20:29 07:44-08:01/17	06:08 06:39-06:53/14 17:26-19:16/110 06:57-07:24/27 21:17 20:24-20:47/23 07:28-08:01/33	05:32 06:11-06:40/29 17:42-19:13/91 21:57 20:05-20:59/54
9	08:47 15:30-16:05/35 16:58 14:31-15:14/43	08:11 09:30-10:12/42 17:49	07:15 09:01-10:34/93 18:39	07:05 17:41-19:06/85 20:30 07:41-08:04/23	06:06 06:31-06:35/4 20:23-20:48/25 07:30-08:00/30 21:19 06:41-06:52/11 17:27-19:16/109 06:58-07:23/25	05:31 06:11-06:39/28 17:43-19:14/91 21:58 20:06-21:00/54
10	08:47 15:29-16:06/37 16:59 14:32-15:14/42	08:09 09:28-10:14/46 17:51	07:13 09:00-10:32/92 18:40	07:03 17:40-19:07/87 20:32 07:38-08:06/28	06:04 06:29-06:37/8 20:22-20:49/27 07:31-07:58/27 21:21 06:42-06:49/7 17:27-19:16/109 06:59-07:22/23	05:31 06:11-06:40/29 17:44-19:14/90 21:59 20:06-21:00/54
11	08:46 15:30-16:06/36 17:00 14:32-15:14/42	08:08 09:25-10:16/51 17:53	07:10 09:00-10:32/92 18:42	07:01 17:39-19:08/89 20:33 07:36-08:08/32	06:03 06:28-06:39/11 17:28-19:16/108 07:00-07:21/21 21:22 20:22-20:50/28 07:33-07:57/24	05:31 06:12-06:40/28 17:45-19:14/89 22:00 20:06-21:01/55
12	08:46 15:30-16:06/36 17:02 14:34-15:14/40	08:06 09:23-10:18/55 17:54	07:08 09:00-10:32/92 18:44	06:59 17:37-19:08/91 20:35 07:33-08:08/35	06:01 06:26-06:39/13 17:27-19:16/109 07:01-07:19/18 21:24 20:21-20:50/29 07:34-07:55/21	05:30 06:11-06:40/29 17:44-19:14/90 22:00 20:06-21:00/54
13	08:45 15:31-16:07/36 17:03 14:35-15:14/39	08:04 09:21-10:20/59 17:56	07:06 09:00-10:31/91 18:45	06:57 17:35-19:09/94 20:37 07:32-08:09/37	05:59 06:25-06:40/15 17:28-19:16/108 07:03-07:17/14 21:25 20:21-20:51/30 07:37-07:53/16	05:30 06:12-06:40/28 17:45-19:14/89 22:01 20:06-21:01/55
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Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1855	1510	2851	4357	5669	5181

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:16-06:44/28 17:49-19:18/89	06:09 06:37-06:49/12 17:38-19:26/108 07:11-07:30/19	06:57 17:38-19:07/89	07:44 09:39-11:10/91	07:37 08:58-09:44/46	08:26 15:12-15:48/36
	22:04 20:10-21:05/55	21:34 20:31-21:00/29 07:44-08:06/22	20:33 07:35-08:07/32	19:25	17:21	16:42 14:14-14:56/42
2	05:34 06:15-06:44/29 17:48-19:18/90	06:11 06:39-06:49/10 20:31-20:59/28 07:43-08:08/25	06:59 17:38-19:05/87	07:46 09:39-11:11/92	07:38 09:00-09:41/41	08:27 15:13-15:49/36
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28	06:03 06:32-06:52/20 17:40-19:26/106	06:51 17:35-19:13/98	07:40 09:40-11:10/90	07:30 08:49-09:51/62	08:22 15:11-15:47/36	08:49 15:25-15:58/33
	21:40 20:30-21:02/32	20:42 07:31-08:13/42	19:32	17:28	16:44 14:16-14:54/38	16:44 14:24-15:13/49
29	06:05 06:33-06:52/19 17:39-19:26/107	06:52 17:35-19:11/96	07:41 09:40-11:10/90	07:31 08:51-09:49/58	08:23 15:11-15:47/36	08:49 15:25-15:58/33
	21:38 20:30-21:02/32 07:19-07:22/3	20:40 07:31-08:11/40	19:30	17:26	16:43 14:15-14:54/39	16:45 14:24-15:13/49
30	06:06 06:35-06:52/17 17:38-19:26/108 07:15-07:26/11	06:54 17:36-19:10/94	07:43 09:39-11:10/91	07:33 08:53-09:48/55	08:25 15:12-15:48/36	08:49 15:26-15:59/33
	21:37 20:30-21:01/31 07:49-08:00/11	20:38 07:33-08:10/37	19:28	17:25	16:43 14:15-14:55/40	16:46 14:25-15:14/49
31	06:08 06:36-06:51/15 17:38-19:27/109 07:13-07:29/16	06:56 17:36-19:08/92		07:35 08:56-09:46/50		08:50 15:26-16:00/34
	21:35 20:31-21:01/30 07:47-08:04/17	20:35 07:33-08:08/35		17:23		16:47 14:25-15:14/49
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	5355	5551	2970	2520	1152	2520

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:37-09:40/3	08:24 08:50-08:54/4	07:32 07:55-08:02/7	07:23	06:20	05:37
	16:48 10:05-10:22/17	17:35	18:25	20:17	21:06	21:50
2	08:49 10:07-10:22/15	08:22 08:48-08:54/6	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 10:07-10:21/14	08:21 08:46-08:53/7	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:08-10:21/13	08:19 08:46-08:53/7	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:10-10:20/10	08:18	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 10:11-10:19/8	08:16	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:20/2	08:14	07:19	07:10	06:09	05:32
	16:55 10:15-10:17/2	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:17-09:21/4	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:16-09:22/6	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:22/7	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:14-09:23/9	08:04	07:06	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:24/11	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:12-09:24/12	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:12-09:24/12	07:56	06:57	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:13-09:23/10	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:15-09:23/8	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:17-09:22/5	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:05/3	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:05/5	06:35	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:03/6	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:54/1		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	195	38	7	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-09:04/7
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	08:59-09:05/6
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40		08:29	09:00-09:04/4
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42		08:30	09:02-09:05/3
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43		08:31	09:03-09:05/2
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:53		07:45	08:18-08:20/2	08:33	09:04-09:05/1
	22:02	21:25	20:22	19:14		17:12		16:40	09:58-10:05/7
7	05:38	06:18	07:07	07:54		07:47	08:16-08:23/7	08:34	09:57-10:07/10
	22:02	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:24/7	08:35	09:57-10:09/12
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:25/6	08:36	09:56-10:10/14
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:25/4	08:37	09:56-10:11/15
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:26/3	08:38	09:27-09:30/3
	21:59	21:16	20:11	19:03		17:04		16:38	09:56-10:12/16
12	05:43	06:26	07:14	08:02	08:31-08:35/4	07:56		08:39	09:26-09:31/5
	21:58	21:14	20:09	19:01		17:03		16:38	09:56-10:12/16
13	05:44	06:27	07:16	08:04	08:29-08:36/7	07:57		08:40	09:26-09:32/6
	21:57	21:12	20:06	18:59		17:01		16:38	09:56-10:13/17
14	05:45	06:29	07:17	08:06	08:31-08:37/6	07:59		08:41	09:26-09:33/7
	21:56	21:11	20:04	18:57		17:00		16:38	09:56-10:14/18
15	05:47	06:30	07:19	08:07	08:33-08:37/4	08:01		08:42	09:26-09:34/8
	21:55	21:09	20:02	18:55		16:59		16:38	09:56-10:15/19
16	05:48	06:32	07:21	08:09	08:35-08:37/2	08:02		08:43	09:26-09:35/9
	21:54	21:07	20:00	18:53		16:57		16:38	09:57-10:16/19
17	05:49	06:34	07:22	08:11		08:04		08:44	09:27-09:36/9
	21:53	21:05	19:57	18:50		16:56		16:39	09:57-10:17/20
18	05:50	06:35	07:24	08:12		08:06		08:44	09:27-09:36/9
	21:52	21:03	19:55	18:48		16:55		16:39	09:57-10:16/19
19	05:51	06:37	07:25	08:14		08:07		08:45	09:27-09:37/10
	21:51	21:01	19:53	18:46		16:53		16:39	09:58-10:17/19
20	05:53	06:38	07:27	08:16		08:09		08:46	09:28-09:38/10
	21:50	20:59	19:50	18:44		16:52		16:39	09:58-10:18/20
21	05:54	06:40	07:28	08:17		08:11		08:46	09:28-09:38/10
	21:49	20:57	19:48	18:42		16:51		16:40	09:58-10:18/20
22	05:55	06:41	07:30	08:19		08:12	08:53-08:58/5	08:47	09:29-09:39/10
	21:48	20:55	19:46	18:40		16:50		16:40	09:59-10:19/20
23	05:56	06:43	07:32	08:21		08:14	08:51-08:59/8	08:47	09:29-09:39/10
	21:46	20:52	19:44	18:38		16:49		16:41	09:59-10:19/20
24	05:58	06:45	07:33	08:23		08:15	08:50-09:00/10	08:48	09:29-09:39/10
	21:45	20:50	19:41	18:36		16:48		16:41	09:59-10:19/20
25	05:59	06:46	07:35	07:24		08:17	08:50-09:02/12	08:48	09:30-09:40/10
	21:44	20:48	19:39	17:34		16:47		16:42	10:01-10:20/19
26	06:01	06:48	07:36	07:26		08:19	08:50-09:02/12	08:49	09:31-09:40/9
	21:42	20:46	19:37	17:32		16:46		16:43	10:01-10:21/20
27	06:02	06:49	07:38	07:28		08:20	08:51-09:03/12	08:49	09:31-09:40/9
	21:41	20:44	19:34	17:30		16:45		16:43	10:02-10:21/19
28	06:03	06:51	07:40	07:29		08:22	08:53-09:04/11	08:49	09:32-09:40/8
	21:40	20:42	19:32	17:28		16:44		16:44	10:02-10:21/19
29	06:05	06:52	07:41	07:31		08:23	08:54-09:03/9	08:49	09:33-09:40/7
	21:38	20:40	19:30	17:27		16:44		16:45	10:03-10:21/18
30	06:06	06:54	07:43	07:33		08:24	08:56-09:04/8	08:49	09:34-09:40/6
	21:37	20:38	19:28	17:25		16:43		16:46	10:03-10:21/18
31	06:08	06:56		07:35				08:49	09:35-09:40/5
	21:35	20:35		17:23				16:47	10:04-10:21/17
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	23		116		644	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: ATS_WT01 - NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:20-09:31/11	08:24	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:44	07:36	08:26 09:06-09:13/7
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49 09:20-09:32/12	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 09:06-09:15/9
	16:49	17:37	18:27	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49 09:20-09:32/12	08:21	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29 09:06-09:16/10
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:18	16:41
4	08:49 09:19-09:32/13	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30 09:06-09:17/11
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:41
5	08:49 09:19-09:33/14	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31 09:06-09:18/12
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49 09:19-09:32/13	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33 09:06-09:18/12
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48 09:21-09:33/12	08:14	07:19	07:10	06:09	05:33	05:39	06:18	07:07	07:54	07:47	08:34 09:06-09:20/14
	16:55	17:46	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:21-09:32/11	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35 09:07-09:20/13
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:22-09:33/11	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:57	07:50	08:36 09:08-09:20/12
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:08	16:39
10	08:47 09:23-09:32/9	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:09-09:21/12
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46 09:24-09:31/7	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:10-09:21/11
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:27-09:31/4	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39 09:11-09:22/11
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40 09:12-09:22/10
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41 09:13-09:23/10
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42 09:14-09:23/9
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43 09:15-09:24/9
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	20:00	18:53	16:57	16:38
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44 09:16-09:24/8
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:44 09:16-09:24/8
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:25/8
	17:13	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39
20	08:39	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09	08:46 09:18-09:26/8
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:17	08:11	08:46 09:18-09:26/8
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47 09:19-09:27/8
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14	08:47 09:19-09:27/8
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:15	08:48 09:19-09:27/8
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42
25	08:33	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48 09:20-09:28/8
	17:23	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49 09:20-09:28/8
	17:24	18:20	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:29/9
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:44
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49 09:20-09:29/9
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49 09:20-09:29/9
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 09:08-09:12/4	08:49 09:20-09:30/10
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49 09:20-09:30/10
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	129	0	0	0	0	0	0	0	0	0	4	299

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 09:22-09:57/35 17:35 08:50-09:07/17	07:32 13:53-15:15/82 07:55-08:08/13 18:25 09:13-10:12/59	07:23 07:46-08:01/15 20:17 14:16-16:35/139	06:20 06:44-06:58/14 21:06 15:01-16:20/79	05:36 06:13-06:40/27 21:50
2	08:49 16:49	08:22 09:22-09:56/34 17:36 08:48-09:07/19	07:30 13:51-15:17/86 07:53-08:09/16 18:26 09:13-10:12/59	07:21 07:43-07:59/16 20:19 14:16-16:35/139	06:18 06:42-06:58/16 21:08 15:04-16:19/75	05:36 06:14-06:41/27 21:51
3	08:49 16:50	08:21 09:22-09:56/34 17:38 08:48-09:08/20	07:28 13:49-15:19/90 07:51-08:09/18 18:28 09:14-10:11/57	07:19 07:44-07:57/13 20:20 14:16-16:35/139	06:16 06:41-07:00/19 21:09 15:06-16:17/71	05:35 06:14-06:40/26 21:53
4	08:49 16:51	08:19 09:23-10:00/37 17:40 08:48-09:09/21	07:26 13:47-15:21/94 07:49-08:09/20 18:30 09:15-10:10/55	07:16 07:46-07:50/4 20:22 14:16-16:35/139	06:15 06:40-07:00/20 21:11 15:10-16:17/67	05:34 06:13-06:40/27 21:54
5	08:49 16:52	08:18 09:23-10:02/39 17:42 08:48-09:09/21	07:24 13:44-15:21/97 07:47-08:07/20 18:32 09:14-10:08/54	07:14 14:16-16:35/139 20:24	06:13 06:40-06:59/19 21:13 15:13-16:16/63	05:33 06:14-06:41/27 21:55
6	08:49 16:54	08:16 09:24-10:04/40 17:44 08:47-09:09/22	07:21 13:43-15:23/100 07:44-08:07/23 18:33 09:15-10:07/52	07:12 14:16-16:34/138 20:25	06:11 06:40-07:00/20 21:14 15:16-16:14/58	05:33 06:14-06:41/27 21:55
7	08:48 16:55	08:14 09:25-10:05/40 17:45 08:47-09:09/22	07:19 13:41-15:24/103 07:43-08:05/22 18:35 09:16-10:06/50	07:10 14:16-16:34/138 20:27	06:09 06:40-07:00/20 21:16 15:20-16:13/53	05:32 06:14-06:41/27 21:56
8	08:48 16:56	08:13 09:24-10:07/43 17:47 08:49-09:09/20	07:17 13:40-15:26/106 07:54-08:04/10 18:37 09:17-10:04/47 07:45-07:51/6	07:08 14:16-16:34/138 20:28	06:08 06:39-06:59/20 21:17 15:23-16:11/48	05:32 06:15-06:42/27 21:57
9	08:47 16:58	08:11 09:22-10:08/46 17:49 08:49-09:09/20	07:15 13:38-15:26/108 18:38 09:18-10:01/43	07:05 14:17-16:34/137 20:30	06:06 06:40-06:59/19 21:19 15:26-16:10/44	05:31 06:15-06:41/26 21:58
10	08:47 16:59	08:09 09:21-10:09/48 17:51 08:49-09:08/19	07:13 13:36-15:27/111 18:40 09:19-09:59/40	07:03 14:17-16:34/137 20:32	06:04 06:40-06:58/18 21:20 15:30-16:08/38	05:31 06:15-06:42/27 21:59
11	08:46 09:31-09:35/4 17:00	08:08 09:20-10:10/50 17:53 08:50-09:07/17	07:10 13:35-15:28/113 18:42 09:21-09:57/36	07:01 14:17-16:32/135 20:33	06:03 06:41-06:58/17 21:22 15:34-16:07/33	05:31 06:16-06:42/26 21:59
12	08:46 09:28-09:38/10 17:02	08:06 09:19-10:11/52 17:54 08:51-09:06/15	07:08 13:34-15:30/116 07:31-07:35/4 18:44 09:23-09:54/31	06:59 14:18-16:32/134 20:35	06:01 06:41-06:56/15 21:24 15:38-16:04/26	05:30 06:15-06:41/26 22:00
13	08:45 09:27-09:41/14 17:03	08:04 09:18-10:12/54 17:56 08:53-09:03/10	07:06 13:32-15:30/118 07:29-07:36/7 18:45 09:25-09:50/25	06:57 14:19-16:32/133 20:37	05:59 06:43-06:56/13 21:25 15:43-16:00/17	05:30 06:15-06:42/27 22:01
14	08:44 09:26-09:43/17 17:05	08:02 09:17-10:13/56 17:58	07:04 13:31-15:31/120 07:26-07:36/10 18:47 09:29-09:45/16	06:55 14:20-16:31/131 20:38	05:58 06:44-06:53/9 21:27	05:30 06:16-06:42/26 22:01
15	08:44 09:25-09:44/19 17:06	08:00 09:16-10:13/57 18:00	07:01 13:30-15:31/121 18:49 07:24-07:36/12	06:52 07:15-07:17/2 20:40 14:21-16:31/130	05:56 06:47-06:51/4 21:28	05:30 06:16-06:42/26 22:02
16	08:43 09:24-09:46/22 17:08	07:58 09:16-10:14/58 18:02	06:59 13:29-15:32/123 18:50 07:22-07:36/14	06:50 07:13-07:16/3 20:42 14:23-16:31/128	05:55 21:30	05:29 06:16-06:43/27 22:02
17	08:42 09:23-09:47/24 17:09	07:56 09:15-10:14/59 18:03	06:57 13:27-15:32/125 18:52 07:22-07:35/13	06:48 07:11-07:15/4 20:43 14:24-16:30/126	05:53 21:31	05:29 06:17-06:43/26 22:03
18	08:41 09:23-09:48/25 17:11	07:54 09:15-10:15/60 18:05	06:55 13:26-15:33/127 18:54 07:22-07:33/11	06:46 14:26-16:30/124 20:45	05:52 06:24-06:27/3 21:32	05:29 06:17-06:43/26 22:03
19	08:40 09:22-09:50/28 17:12	07:53 09:14-10:15/61 18:07	06:53 13:25-15:34/129 18:55 07:23-07:32/9	06:44 14:28-16:29/121 20:47	05:51 06:21-06:31/10 21:34	05:29 06:17-06:43/26 22:04
20	08:39 09:22-09:51/29 17:14	07:51 09:14-10:15/61 18:09	06:50 13:25-15:34/129 18:57	06:42 14:30-16:29/119 20:48	05:49 06:19-06:33/14 21:35	05:30 06:17-06:43/26 22:04
21	08:38 09:21-09:51/30 17:16	07:49 14:21-14:48/27 18:11 09:13-10:15/62	06:48 13:23-15:34/131 18:59	06:40 14:32-16:28/116 20:50	05:48 06:17-06:33/16 21:37	05:30 06:17-06:43/26 22:04
22	08:37 09:21-09:52/31 17:17	07:47 14:15-14:53/38 18:12 09:13-10:15/62	06:46 13:22-15:34/132 19:00	06:38 14:34-16:27/113 20:51	05:47 06:16-06:35/19 21:38	05:30 06:18-06:44/26 22:04
23	08:36 09:21-09:53/32 17:19	07:45 14:11-14:58/47 18:14 09:13-10:15/62	06:43 13:22-15:35/133 19:02	06:36 14:37-16:27/110 20:53	05:46 06:16-06:36/20 21:39	05:30 06:18-06:44/26 22:05
24	08:35 09:20-09:53/33 17:21	07:42 14:07-15:02/55 18:16 09:13-10:15/62	06:41 13:20-15:34/134 19:04	06:34 14:39-16:26/107 20:55	05:44 06:15-06:36/21 21:41	05:30 06:18-06:44/26 22:05
25	08:33 09:20-09:54/34 17:22	07:40 14:04-15:05/61 18:18 09:13-10:15/62	06:39 13:20-15:35/135 19:05	06:32 14:42-16:25/103 20:56	05:43 06:15-06:37/22 21:42	05:31 06:19-06:45/26 22:05
26	08:32 09:21-09:55/34 17:24	07:38 14:01-15:08/67 08:02-08:04/2 18:19 09:13-10:15/62	06:37 13:19-15:35/136 19:07	06:30 14:45-16:24/99 20:58	05:42 06:14-06:37/23 21:43	05:31 06:19-06:45/26 22:05
27	08:31 09:20-09:55/35 17:26	07:36 13:57-15:10/73 08:00-08:07/7 18:21 09:12-10:13/61	06:34 06:57-07:01/4 19:09 13:19-15:36/137	06:28 14:48-16:23/95 21:00	05:41 06:14-06:38/24 21:45	05:32 06:18-06:44/26 22:05
28	08:30 09:21-09:56/35 17:28	07:34 13:55-15:13/78 07:57-08:07/10 18:23 09:13-10:13/60	06:32 06:55-07:02/7 19:10 13:18-15:35/137	06:26 14:51-16:22/91 21:01	05:40 06:13-06:38/25 21:46	05:32 06:19-06:45/26 22:05
29	08:28 09:20-09:55/35 17:29 08:54-09:02/8		07:30 07:52-08:01/9 20:12 14:18-16:35/137	06:24 06:48-06:56/8 21:03 14:55-16:22/87	05:39 06:14-06:39/25 21:47	05:33 06:20-06:46/26 22:05
30	08:27 09:21-09:56/35 17:31 08:53-09:04/11		07:28 07:50-08:01/11 20:14 14:17-16:35/138	06:22 06:46-06:57/11 21:05 14:58-16:21/83	05:38 06:14-06:40/26 21:48	05:33 06:19-06:46/27 22:04
31	08:25 09:21-09:56/35 17:33 08:51-09:05/14		07:25 07:48-08:01/13 20:15 14:17-16:36/139		05:37 06:14-06:40/26 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	594	2165	4583	3744	1189	791

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:20-06:46/26 22:04	06:09 06:52-07:07/15 21:33 15:46-16:15/29	06:57 14:17-16:32/135 20:33	07:44 14:12-16:09/117 08:09-08:15/6 19:25 10:03-10:32/29	07:36 08:51-09:39/48 17:21 08:19-08:38/19	08:26 09:13-09:17/4 16:42
2	05:34 06:19-06:46/27 22:04	06:10 06:51-07:08/17 21:32 15:42-16:17/35	06:59 14:15-16:31/136 20:31	07:46 14:13-16:08/115 08:11-08:13/2 19:23 10:01-10:35/34	07:38 08:52-09:38/46 17:19 08:18-08:39/21	08:27 16:41
3	05:35 06:20-06:46/26 22:03	06:12 06:50-07:09/19 21:30 15:39-16:19/40	07:00 14:15-16:32/137 20:29	07:48 14:14-16:06/112 19:21 09:58-10:36/38	07:40 08:53-09:36/43 17:17 08:17-08:38/21	08:29 16:41
4	05:36 06:20-06:47/27 22:03	06:13 06:49-07:09/20 21:29 15:35-16:21/46	07:02 14:13-16:31/138 20:27	07:49 14:15-16:05/110 19:19 09:56-10:38/42	07:42 08:54-09:34/40 17:16 08:17-08:39/22	08:30 16:40
5	05:37 06:20-06:46/26 22:03	06:15 06:50-07:09/19 21:27 15:32-16:22/50	07:03 14:13-16:31/138 20:24	07:51 14:16-16:03/107 08:32-08:39/7 19:16 09:55-10:40/45 08:23-08:27/4	07:43 08:54-09:33/39 17:14 08:17-08:39/22	08:31 16:40
6	05:37 06:20-06:47/27 22:02	06:16 06:49-07:09/20 21:25 15:28-16:23/55	07:05 14:12-16:30/138 20:22	07:52 14:17-16:01/104 08:29-08:41/12 19:14 09:53-10:41/48 08:20-08:28/8	07:45 08:53-09:31/38 17:12 08:18-08:39/21	08:33 16:39
7	05:38 06:20-06:47/27 22:02	06:18 06:50-07:10/20 21:23 15:25-16:25/60	07:06 14:11-16:30/139 20:20	07:54 14:18-16:00/102 08:19-08:42/23 19:12 09:52-10:42/50	07:47 08:53-09:29/36 17:11 08:18-08:39/21	08:34 16:39
8	05:39 06:21-06:47/26 22:01	06:20 06:49-07:09/20 21:22 15:21-16:25/64	07:08 07:40-07:44/4 20:18 14:10-16:29/139	07:56 14:20-15:58/98 08:21-08:43/22 19:10 09:51-10:44/53	07:49 08:53-09:27/34 17:09 08:19-08:39/20	08:35 16:39
9	05:40 06:21-06:48/27 22:00	06:21 06:50-07:09/19 21:20 15:18-16:26/68	07:10 07:38-07:51/13 20:15 14:10-16:29/139	07:57 14:20-15:56/96 08:22-08:43/21 19:08 09:49-10:44/55	07:50 08:52-09:27/35 17:07 08:19-08:38/19	08:36 16:38
10	05:41 06:21-06:48/27 22:00	06:23 06:50-07:08/18 21:18 15:15-16:27/72	07:11 07:36-07:52/16 20:13 14:09-16:28/139	07:59 14:22-15:54/92 08:24-08:43/19 19:05 09:48-10:45/57	07:52 08:52-09:27/35 17:06 08:21-08:38/17	08:37 16:38
11	05:42 06:22-06:48/26 21:59	06:24 06:51-07:07/16 21:16 15:11-16:27/76	07:13 07:38-07:53/15 20:11 14:09-16:28/139	08:01 14:24-15:52/88 08:26-08:43/17 19:03 09:48-10:46/58	07:54 08:53-09:28/35 17:04 08:23-08:37/14	08:38 16:38
12	05:43 06:22-06:48/26 21:58	06:26 06:53-07:06/13 21:14 15:08-16:29/81	07:14 07:39-07:52/13 20:09 14:08-16:27/139	08:02 14:25-15:49/84 08:28-08:42/14 19:01 09:46-10:45/59	07:56 08:52-09:27/35 17:03 08:24-08:35/11	08:39 16:38
13	05:44 06:22-06:48/26 21:57	06:27 06:54-07:04/10 21:12 15:04-16:29/85	07:16 07:41-07:53/12 20:06 14:09-16:27/138	08:04 14:27-15:47/80 08:29-08:41/12 18:59 09:46-10:46/60	07:57 08:52-09:27/35 17:01 08:26-08:33/7	08:40 16:38
14	05:45 06:22-06:48/26 21:56	06:29 06:56-07:03/7 21:11 15:01-16:30/89	07:17 07:42-07:52/10 20:04 14:08-16:26/138	08:06 14:29-15:45/76 08:31-08:40/9 18:57 09:46-10:46/60	07:59 08:53-09:28/35 17:00	08:41 16:38
15	05:46 06:23-06:48/25 21:55	06:30 14:57-16:30/93 21:09	07:19 07:44-07:51/7 20:02 14:08-16:25/137	08:07 14:32-15:42/70 08:33-08:38/5 18:55 09:46-10:47/61	08:01 08:53-09:28/35 16:59	08:42 16:38
16	05:48 06:23-06:48/25 21:54	06:32 14:55-16:31/96 21:07	07:21 07:45-07:49/4 19:59 14:07-16:24/137	08:09 14:33-15:39/66 18:52 09:44-10:46/62	08:02 08:54-09:28/34 16:57	08:43 16:38
17	05:49 06:23-06:47/24 21:53	06:33 14:51-16:31/100 21:05	07:22 14:08-16:24/136 19:57	08:11 14:36-15:35/59 18:50 09:44-10:46/62	08:04 08:54-09:28/34 16:56	08:44 16:38
18	05:50 06:24-06:47/23 21:52	06:35 14:48-16:32/104 21:03	07:24 14:07-16:22/135 19:55	08:12 14:40-15:32/52 18:48 09:44-10:47/63	08:06 08:54-09:27/33 16:55	08:44 16:39
19	05:51 06:24-06:46/22 21:51	06:37 14:44-16:32/108 21:01	07:25 14:08-16:22/134 19:53	08:14 14:43-15:28/45 18:46 09:45-10:47/62	08:07 08:55-09:27/32 16:53	08:45 16:39
20	05:52 06:26-06:46/20 21:50	06:38 14:42-16:32/110 20:59	07:27 14:08-16:22/134 19:50	08:16 14:47-15:22/35 18:44 09:45-10:47/62	08:09 08:56-09:27/31 16:52	08:46 16:39
21	05:54 06:27-06:46/19 21:49	06:40 14:39-16:32/113 20:57	07:28 14:08-16:20/132 19:48	08:17 14:54-15:16/22 18:42 09:44-10:46/62	08:11 08:57-09:27/30 16:51	08:46 16:40
22	05:55 06:27-06:45/18 21:48	06:41 14:36-16:33/117 20:55	07:30 14:08-16:20/132 19:46	08:19 09:44-10:45/61 18:40	08:12 08:58-09:27/29 16:50	08:47 16:40
23	05:56 06:28-06:43/15 21:46	06:43 14:33-16:32/119 20:52	07:32 14:08-16:18/130 19:43	08:21 09:45-10:45/60 18:38	08:14 08:58-09:26/28 16:49	08:47 16:41
24	05:58 06:30-06:43/13 21:45	06:44 14:31-16:33/122 20:50	07:33 14:09-16:17/128 19:41 08:08-08:14/6	08:23 09:45-10:45/60 18:36	08:15 09:00-09:26/26 16:48	08:48 16:41
25	05:59 06:32-06:40/8 21:44	06:46 07:14-07:15/1 20:48 14:28-16:32/124	07:35 14:09-16:16/127 19:39 08:05-08:16/11	07:24 08:46-09:45/59 17:34	08:17 09:01-09:25/24 16:47	08:48 16:42
26	06:00 21:42	06:48 07:14-07:18/4 20:46 14:27-16:33/126	07:36 14:09-16:15/126 19:37 08:04-08:17/13	07:26 08:45-09:43/58 17:32	08:19 09:02-09:24/22 16:46	08:49 16:43
27	06:02 21:41	06:49 07:15-07:18/3 20:44 14:24-16:32/128	07:38 14:10-16:14/124 19:34 08:03-08:18/15	07:28 08:46-09:43/57 17:30	08:20 09:04-09:24/20 16:45	08:49 16:43
28	06:03 21:40	06:51 07:17-07:19/2 20:42 14:23-16:33/130	07:40 14:10-16:12/122 19:32 08:04-08:17/13	07:29 08:47-09:42/55 17:28 08:25-08:30/5	08:22 09:06-09:23/17 16:44	08:49 16:44
29	06:05 06:56-07:03/7 21:38	06:52 14:21-16:32/131 20:40	07:41 14:11-16:12/121 08:06-08:17/11 19:30 10:12-10:24/12	07:31 08:48-09:41/53 17:26 08:22-08:34/12	08:23 09:07-09:21/14 16:43	08:49 16:45
30	06:06 06:53-07:05/12 21:37 15:58-16:06/8	06:54 14:20-16:33/133 20:38	07:43 14:11-16:10/119 08:08-08:16/8 19:28 10:06-10:28/22	07:33 08:49-09:41/52 17:25 08:21-08:35/14	08:24 09:10-09:20/10 16:43	08:49 16:46
31	06:08 06:53-07:06/13 21:35 15:51-16:12/21	06:55 14:18-16:32/134 20:35	 	07:35 08:50-09:40/50 17:23 08:20-08:37/17	 	08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	643	3081	4211	3646	1188	4

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 18:25	07:23 19:46-19:51/5 20:17	06:20 21:06	05:36 21:15-21:19/4 21:51 21:06-21:13/7
2	08:50 16:49	08:23 17:36	07:30 17:59-18:01/2 18:27	07:21 19:46-19:53/7 20:19	06:18 21:08	05:36 21:16-21:20/4 21:52 21:08-21:13/5
3	08:50 16:50	08:21 17:38	07:28 17:54-18:03/9 18:28	07:19 19:46-19:55/9 20:20	06:16 21:10	05:35 21:16-21:21/5 21:53
4	08:49 16:51	08:20 17:40	07:26 17:52-18:05/13 18:30	07:17 19:48-19:57/9 20:22	06:15 21:11	05:34 21:16-21:21/5 21:54
5	08:49 16:53	08:18 17:42	07:24 17:49-18:06/17 18:32	07:14 19:50-19:58/8 20:24	06:13 21:13	05:34 21:17-21:23/6 21:55
6	08:49 16:54	08:16 17:44	07:22 17:48-18:08/20 18:33	07:12 19:52-19:59/7 20:25	06:11 21:14	05:33 21:17-21:23/6 21:56
7	08:48 16:55	08:15 17:45	07:19 17:48-18:10/22 18:35	07:10 19:51-20:01/10 20:27	06:09 21:16	05:32 21:18-21:24/6 21:57
8	08:48 16:56	08:13 17:47	07:17 17:47-18:12/25 18:37	07:08 19:52-20:03/11 20:29	06:08 21:18	05:32 21:18-21:25/7 21:57
9	08:48 16:58	08:11 17:49	07:15 17:47-18:12/25 18:39	07:06 19:52-20:05/13 20:30	06:06 21:19	05:31 21:18-21:26/8 21:58
10	08:47 16:59	08:09 17:51	07:13 17:46-18:12/26 18:40	07:03 19:53-20:06/13 20:32	06:04 21:21	05:31 21:18-21:27/9 21:59
11	08:47 17:00	08:08 17:53	07:11 17:46-18:12/26 18:42	07:01 19:53-20:03/10 20:34	06:03 21:22	05:31 21:18-21:28/10 22:00
12	08:46 17:02	08:06 17:55	07:08 17:46-18:11/25 18:44	06:59 19:55-20:01/6 20:35	06:01 21:24	05:30 21:17-21:27/10 22:00
13	08:45 17:03	08:04 17:56	07:06 17:46-18:11/25 18:45	06:57 20:37	05:59 21:25	05:30 21:17-21:28/11 22:01
14	08:45 17:05	08:02 17:58	07:04 17:46-18:09/23 18:47	06:55 20:39	05:58 21:27	05:30 21:18-21:29/11 22:02
15	08:44 17:06	08:00 18:00	07:02 17:47-18:08/21 18:49	06:53 20:40	05:56 21:28	05:30 21:18-21:29/11 22:02
16	08:43 17:08	07:58 18:02	06:59 17:49-18:07/18 18:50	06:50 20:42	05:55 21:30	05:30 21:18-21:30/12 22:03
17	08:42 17:09	07:57 18:04	06:57 17:50-18:04/14 18:52	06:48 20:43	05:54 21:31	05:29 21:18-21:30/12 22:03
18	08:41 17:11	07:55 18:05	06:55 17:53-18:01/8 18:54	06:46 20:45	05:52 21:02-21:03/1 21:33	05:29 21:18-21:31/13 22:04
19	08:40 17:12	07:53 18:07	06:53 18:29-18:31/2 18:56	06:44 20:47	05:51 21:02-21:04/2 21:34	05:30 21:18-21:31/13 22:04
20	08:39 17:14	07:51 18:09	06:50 18:29-18:32/3 18:57	06:42 20:48	05:49 21:02-21:06/4 21:36	05:30 21:18-21:31/13 22:04
21	08:38 17:16	07:49 18:11	06:48 18:27-18:33/6 18:59	06:40 20:50	05:48 21:01-21:06/5 21:37	05:30 21:18-21:31/13 22:04
22	08:37 17:17	07:47 18:12	06:46 18:27-18:35/8 19:01	06:38 20:52	05:47 21:01-21:07/6 21:38	05:30 21:19-21:32/13 22:05
23	08:36 17:19	07:45 18:14	06:44 18:28-18:37/9 19:02	06:36 20:53	05:46 21:01-21:09/8 21:40	05:30 21:19-21:32/13 22:05
24	08:35 17:21	07:43 18:16	06:41 18:28-18:38/10 19:04	06:34 20:55	05:44 21:01-21:10/9 21:41	05:30 21:19-21:32/13 22:05
25	08:34 17:22	07:41 18:18	06:39 18:30-18:36/6 19:06	06:32 20:57	05:43 21:01-21:11/10 21:42	05:31 21:20-21:33/13 22:05
26	08:32 17:24	07:39 18:20	06:37 19:07	06:30 20:58	05:42 21:02-21:12/10 21:44	05:31 21:20-21:32/12 22:05
27	08:31 17:26	07:36 18:21	06:35 19:09	06:28 21:00	05:41 21:02-21:13/11 21:45	05:32 21:20-21:32/12 22:05
28	08:30 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:02-21:14/12 21:46	05:32 21:21-21:32/11 22:05
29	08:28 17:29		07:30 20:12	06:24 21:03	05:39 21:04-21:16/12 21:47	05:33 21:21-21:32/11 22:05
30	08:27 17:31		07:28 19:47-19:49/2 20:14	06:22 21:05	05:38 21:16-21:17/1 21:48 21:04-21:15/11	05:33 21:21-21:32/11 22:05
31	08:26 17:33		07:26 19:47-19:50/3 20:15		05:37 21:15-21:18/3 21:50 21:05-21:14/9	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	0	0	368	108	114	310

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 21:22-21:32/10	06:09	06:57 19:53-20:03/10	07:45 18:25-18:50/25	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 21:22-21:31/9	06:11	06:59 19:51-20:03/12	07:46 18:25-18:50/25	07:38	08:28
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 21:23-21:31/8	06:12	07:00 19:50-20:03/13	07:48 18:23-18:49/26	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 21:24-21:31/7	06:14	07:02 19:49-20:00/11	07:49 18:24-18:49/25	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 21:23-21:30/7	06:15	07:03 19:49-19:58/9	07:51 18:24-18:49/25	07:44	08:32
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 21:23-21:30/7	06:17	07:05 19:48-19:55/7	07:53 18:23-18:47/24	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 21:23-21:29/6	06:18	07:07 19:46-19:54/8	07:54 18:24-18:45/21	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 21:23-21:29/6	06:20	07:08 19:42-19:51/9	07:56 18:25-18:43/18	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 21:24-21:29/5	06:21	07:10 19:41-19:49/8	07:58 18:25-18:40/15	07:51	08:36
	22:01	21:20	20:16	19:08	17:07	16:39
10	05:41 21:24-21:28/4	06:23	07:11 19:39-19:46/7	07:59 18:27-18:38/11	07:52	08:37
	22:00 21:16-21:20/4	21:18	20:13	19:05	17:06	16:38
11	05:42 21:24-21:27/3	06:24	07:13 19:39-19:45/6	08:01 18:30-18:36/6	07:54	08:39
	21:59 21:15-21:21/6	21:16	20:11	19:03	17:04	16:38
12	05:43 21:24-21:27/3	06:26	07:14 19:38-19:42/4	08:02	07:56	08:40
	21:58 21:14-21:22/8	21:15	20:09	19:01	17:03	16:38
13	05:44 21:24-21:26/2	06:27	07:16 19:39-19:40/1	08:04	07:57	08:41
	21:57 21:13-21:23/10	21:13	20:06	18:59	17:01	16:38
14	05:45 21:13-21:25/12	06:29	07:18	08:06	07:59	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 21:12-21:24/12	06:30	07:19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 21:12-21:23/11	06:32	07:21	08:09	08:03	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 21:11-21:22/11	06:34	07:22	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 21:11-21:21/10	06:35	07:24 19:18-19:23/5	08:13	08:06	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 21:11-21:20/9	06:37	07:25 19:16-19:26/10	08:14	08:08	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 21:10-21:19/9	06:38	07:27 19:15-19:24/9	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:11-21:19/8	06:40	07:29 19:13-19:21/8	08:18	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 21:11-21:17/6	06:41	07:30 19:13-19:20/7	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 21:11-21:16/5	06:43	07:32 19:12-19:17/5	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 21:11-21:14/3	06:45	07:33 19:13-19:15/2	08:23	08:16	08:48
	21:45	20:51	19:41	18:36	16:48	16:41
25	05:59 21:12-21:14/2	06:46	07:35 18:38-18:41/3	07:24	08:17	08:49
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:33-18:46/13	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:31-18:48/17	07:28	08:20	08:49
	21:41	20:44	19:35	17:30	16:45	16:43
28	06:03	06:51	07:40 18:29-18:48/19	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 18:27-18:50/23	07:31	08:23	08:50
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 18:26-18:49/23	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:55-20:01/6		07:35		08:50
	21:35	20:36		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	203	6	249	221	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 16:59-17:05/6 17:35	07:32 17:57-17:59/2 18:25	07:23 20:17	06:20 20:36-20:38/2 21:06	05:36 21:51
2	08:50 16:49	08:23 16:58-17:07/9 17:36	07:30 17:57-18:01/4 18:27	07:21 20:19	06:18 20:35-20:40/5 21:08	05:36 21:52
3	08:50 16:50	08:21 16:57-17:09/12 17:38	07:28 17:57-18:03/6 18:28	07:19 20:20	06:16 20:35-20:41/6 21:10	05:35 21:53
4	08:49 16:51	08:20 16:57-17:11/14 17:40	07:26 17:58-18:05/7 18:30	07:17 20:22	06:15 20:36-20:43/7 21:11	05:34 21:54
5	08:49 16:53	08:18 16:56-17:13/17 17:42	07:24 17:58-18:06/8 18:32	07:14 20:24	06:13 20:37-20:44/7 21:13	05:34 21:55
6	08:49 16:54	08:16 16:56-17:15/19 17:44	07:22 18:00-18:05/5 18:33	07:12 20:25	06:11 20:38-20:44/6 21:14	05:33 21:56
7	08:48 16:55	08:15 16:56-17:16/20 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:57
8	08:48 16:56	08:13 16:57-17:18/21 17:47	07:17 18:37	07:08 20:29	06:08 21:18	05:32 21:57
9	08:48 16:58	08:11 16:57-17:17/20 17:49	07:15 18:39	07:06 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 16:57-17:17/20 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 21:59
11	08:47 17:00	08:08 16:58-17:16/18 17:53	07:11 18:42	07:01 20:34	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 16:59-17:15/16 17:55	07:08 18:16-18:19/3 18:44	06:59 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 17:01-17:13/12 17:56	07:06 18:15-18:20/5 18:45	06:57 20:37	06:00 21:25	05:30 22:01
14	08:45 17:05	08:02 17:03-17:11/8 17:58	07:04 18:16-18:22/6 18:47	06:55 20:39	05:58 21:27	05:30 22:02
15	08:44 17:06	08:00 18:00	07:02 18:16-18:24/8 18:49	06:53 20:09-20:14/5 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 18:02	06:59 18:16-18:26/10 18:50	06:50 20:07-20:15/8 20:42	05:55 21:30	05:30 22:03
17	08:42 17:09	07:57 18:04	06:57 18:16-18:27/11 18:52	06:48 20:06-20:17/11 20:43	05:54 21:31	05:30 22:03
18	08:41 17:11	07:55 18:05	06:55 18:17-18:28/11 18:54	06:46 20:04-20:19/15 20:45	05:52 21:33	05:30 22:04
19	08:40 17:12	07:53 18:07	06:53 18:19-18:26/7 18:56	06:44 20:04-20:20/16 20:47	05:51 21:34	05:30 22:04
20	08:39 17:14	07:51 18:09	06:50 18:57	06:42 20:03-20:22/19 20:48	05:49 21:35	05:30 22:04
21	08:38 17:16	07:49 18:11	06:48 18:59	06:40 20:02-20:23/21 20:50	05:48 21:37	05:30 22:04
22	08:37 17:17	07:47 18:12	06:46 19:01	06:38 20:02-20:25/23 20:52	05:47 21:38	05:30 22:05
23	08:36 17:19	07:45 18:14	06:44 19:02	06:36 20:02-20:26/24 20:53	05:46 21:40	05:30 22:05
24	08:35 17:21	07:43 18:16	06:41 19:04	06:34 20:02-20:28/26 20:55	05:44 21:41	05:30 22:05
25	08:34 17:22	07:41 18:18	06:39 19:06	06:32 20:02-20:29/27 20:57	05:43 21:42	05:31 22:05
26	08:32 17:24	07:39 18:20	06:37 19:07	06:30 20:02-20:27/25 20:58	05:42 21:44	05:31 22:05
27	08:31 17:26	07:36 18:21	06:35 19:09	06:28 20:03-20:24/21 21:00	05:41 21:45	05:32 22:05
28	08:30 17:28	07:34 18:23	06:32 19:10	06:26 20:04-20:20/16 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 20:12	06:24 20:06-20:20/14 21:03	05:39 21:47	05:33 22:05
30	08:27 17:31		07:28 20:14	06:22 20:36-20:37/1 21:05 20:08-20:17/9	05:38 21:48	05:33 22:05
31	08:26 16:59-17:03/4 17:33		07:26 20:15		05:37 21:50	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	4	212	93	281	33	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December
1	05:34	06:09		06:57		07:45	18:55-18:58/3	07:37	16:27-16:47/20	08:26
	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59		07:46	18:55-18:56/1	07:38	16:27-16:47/20	08:28
	22:04	21:32		20:31		19:23		17:19		16:42
3	05:35	06:12		07:00		07:48		07:40	16:26-16:47/21	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02		07:49		07:42	16:25-16:46/21	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03		07:51		07:44	16:26-16:44/18	08:32
	22:03	21:27		20:24		19:17		17:14		16:40
6	05:38	06:17	20:50-20:53/3	07:05		07:53		07:45	16:26-16:42/16	08:33
	22:02	21:25		20:22		19:14		17:12		16:40
7	05:38	06:18	20:48-20:55/7	07:07		07:54		07:47	16:27-16:41/14	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20	20:46-20:53/7	07:08		07:56	18:35-18:42/7	07:49	16:27-16:39/12	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21	20:45-20:51/6	07:10		07:58	18:32-18:40/8	07:51	16:28-16:38/10	08:36
	22:00	21:20		20:16		19:08		17:07		16:39
10	05:41	06:23	20:45-20:50/5	07:11		07:59	18:32-18:38/6	07:52	16:30-16:36/6	08:37
	22:00	21:18		20:13		19:05		17:06		16:38
11	05:42	06:24	20:44-20:48/4	07:13		08:01	18:31-18:36/5	07:54	16:31-16:35/4	08:38
	21:59	21:16		20:11		19:03		17:04		16:38
12	05:43	06:26	20:44-20:46/2	07:14		08:02	18:30-18:33/3	07:56		08:40
	21:58	21:15	20:19-20:22/3	20:09		19:01		17:03		16:38
13	05:44	06:27	20:15-20:25/10	07:16		08:04		07:57		08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29	20:13-20:28/15	07:18		08:06		07:59		08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30	20:11-20:28/17	07:19		08:07		08:01		08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32	20:10-20:32/22	07:21		08:09		08:03		08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34	20:09-20:34/25	07:22		08:11		08:04		08:44
	21:54	21:05		19:57		18:50		16:56		16:39
18	05:50	06:35	20:09-20:35/26	07:24		08:13		08:06		08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37	20:07-20:33/26	07:25		08:14		08:08		08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:53	06:38	20:08-20:32/24	07:27		08:16		08:09		08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40	20:07-20:29/22	07:29		08:18		08:11		08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41	20:07-20:28/21	07:30		08:19		08:12		08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43	20:07-20:25/18	07:32		08:21		08:14		08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45	20:07-20:24/17	07:33	19:04-19:08/4	08:23		08:16		08:48
	21:45	20:51		19:41		18:36		16:48		16:41
25	05:59	06:46	20:07-20:21/14	07:35	19:00-19:10/10	07:24		08:17		08:49
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:01	06:48	20:09-20:20/11	07:37	18:59-19:10/11	07:26		08:19		08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49	20:09-20:17/8	07:38	18:58-19:08/10	07:28		08:20		08:49
	21:41	20:44		19:35		17:30		16:45		16:43
28	06:03	06:51	20:11-20:15/4	07:40	18:57-19:05/8	07:30	16:32-16:41/9	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52		07:41	18:57-19:03/6	07:31	16:30-16:43/13	08:23		08:50
	21:38	20:40		19:30		17:27		16:44		16:45
30	06:06	06:54		07:43	18:55-19:00/5	07:33	16:28-16:45/17	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56				07:35	16:28-16:46/18			08:50
	21:35	20:36				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	317		54		90		162		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:24-06:41/17	05:34 06:37-06:41/4	06:09	06:57 07:26-07:29/3	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04 06:04-06:10/6	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35 06:25-06:41/16	05:34 06:35-06:41/6	06:10	06:59 07:24-07:30/6	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04 06:04-06:09/5	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:25-06:40/15	05:35 06:35-06:43/8	06:12	07:00 07:26-07:31/5	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04 06:05-06:09/4	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:25-06:40/15	05:36 06:35-06:44/9	06:13	07:02 07:27-07:31/4	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03 06:06-06:09/3	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:27-06:40/13	05:36 06:33-06:44/11	06:15	07:03 07:29-07:30/1	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03 06:06-06:07/1	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:27-06:39/12	05:37 06:33-06:45/12	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:33/1	06:09	05:32 06:28-06:39/11	05:38 06:33-06:46/13	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08 07:30-07:34/4	06:07	05:32 06:28-06:38/10	05:39 06:33-06:47/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57 06:00-06:02/2	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05 07:28-07:33/5	06:06	05:31 06:29-06:38/9	05:40 06:33-06:48/15	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58 06:00-06:03/3	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03 07:26-07:32/6	06:04	05:31 06:31-06:37/6	05:41 06:33-06:48/15	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59 06:00-06:04/4	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01 07:27-07:30/3	06:02	05:30 06:31-06:36/5	05:42 06:32-06:49/17	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00 05:59-06:04/5	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:33-06:35/2	05:43 06:32-06:49/17	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00 05:59-06:05/6	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:06/7	05:44 06:32-06:50/18	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:29-06:34/5	05:30 05:59-06:06/7	05:45 06:32-06:50/18	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:27-06:37/10	05:29 05:59-06:07/8	05:46 06:32-06:51/19	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:26-06:38/12	05:29 05:59-06:07/8	05:47 06:32-06:51/19	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:24-06:39/15	05:29 05:59-06:07/8	05:49 06:31-06:51/20	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52 06:24-06:40/16	05:29 05:59-06:07/8	05:50 06:31-06:51/20	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51 06:23-06:40/17	05:29 05:59-06:08/9	05:51 06:31-06:51/20	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:23-06:41/18	05:29 05:59-06:08/9	05:52 06:31-06:51/20	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:22-06:41/19	05:30 05:59-06:08/9	05:54 06:32-06:52/20	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47 06:22-06:41/19	05:30 06:00-06:09/9	05:55 06:32-06:51/19	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:22-06:41/19	05:30 06:00-06:09/9	05:56 06:32-06:51/19	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44 06:22-06:42/20	05:30 06:00-06:09/9	05:58 06:33-06:50/17	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43 06:22-06:42/20	05:31 06:01-06:09/8	05:59 06:34-06:51/17	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:22-06:42/20	05:31 06:01-06:09/8	06:00 06:34-06:50/16	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:22-06:42/20	05:31 06:01-06:09/8	06:02 06:35-06:49/14	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:22-06:41/19	05:32 06:02-06:09/7	06:03 06:37-06:48/11	06:51	07:40	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:22-06:41/19	05:32 06:02-06:09/7	06:05 06:38-06:46/8	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:23-06:42/19	05:33 06:03-06:09/6	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:24-06:41/17		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	19	304	295	455	0	19	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34 06:25-06:37/12	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35	05:34 06:26-06:36/10	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35 06:27-06:36/9	06:12	07:00 07:31-07:38/7	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16 07:39-07:42/3	06:14	05:34	05:36 06:29-06:35/6	06:13	07:02 07:29-07:38/9	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14 07:37-07:43/6	06:13	05:33	05:36	06:15	07:03 07:29-07:39/10	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12 07:34-07:42/8	06:11	05:33	05:37	06:16	07:05 07:30-07:38/8	07:52	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:42/10	06:09	05:32	05:38	06:18	07:06 07:32-07:38/6	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08 07:32-07:41/9	06:07	05:32 06:24-06:27/3	05:39	06:19	07:08 07:33-07:37/4	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05 07:33-07:40/7	06:06	05:31 06:22-06:30/8	05:40	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:22-06:31/9	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:20-06:32/12	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:20-06:33/13	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:20-06:34/14	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 06:20-06:34/14	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 06:20-06:35/15	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 06:20-06:36/16	05:47	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 06:20-06:36/16	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29 06:20-06:36/16	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29 06:20-06:37/17	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 06:20-06:37/17	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30 06:20-06:37/17	05:54	06:40	07:28	08:17	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:21-06:38/17	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:21-06:38/17	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30 06:21-06:38/17	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31 06:21-06:37/16	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:22-06:38/16	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31 06:22-06:37/15	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32 06:23-06:38/15	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32 06:23-06:37/14	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33 06:24-06:37/13	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	43	0	327	37	0	44	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50 16:48	08:24 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:36 18:54-19:56/62 21:51	05:34 18:58-20:06/68 22:04	06:09 21:34	06:57 20:33	07:44 19:25	07:37 17:21	08:26 16:42
2	08:50 16:49	08:23 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 18:55-19:57/62 21:52	05:34 18:58-20:05/67 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 17:19	08:27 16:41
3	08:49 16:50	08:21 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 18:54-19:57/63 21:53	05:35 18:59-20:06/67 22:04	06:12 21:30	07:00 20:29	07:48 19:21	07:40 17:17	08:29 16:41
4	08:49 16:51	08:19 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 18:54-19:58/64 21:54	05:36 18:59-20:06/67 22:03	06:13 21:29	07:02 20:27	07:49 19:19	07:42 17:16	08:30 16:40
5	08:49 16:52	08:18 17:42	07:24 18:32	07:14 20:24	06:13 21:13	05:33 18:54-19:59/65 21:55	05:37 18:59-20:05/66 22:03	06:15 21:27	07:03 20:24	07:51 19:16	07:43 17:14	08:31 16:40
6	08:49 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 18:54-19:59/65 21:56	05:37 19:00-20:05/65 22:02	06:16 21:25	07:05 20:22	07:53 19:14	07:45 17:12	08:33 16:39
7	08:48 16:55	08:15 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 18:54-20:00/66 21:56	05:38 19:00-20:05/65 22:02	06:18 21:24	07:06 20:20	07:54 19:12	07:47 17:11	08:34 16:39
8	08:48 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 21:17	05:32 18:53-20:00/67 21:57	05:39 19:01-20:05/64 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 16:39
9	08:48 16:57	08:11 17:49	07:15 18:39	07:05 20:30	06:06 21:19	05:31 18:54-20:00/66 21:58	05:40 19:02-20:05/63 22:00	06:21 21:20	07:10 20:15	07:57 19:08	07:50 17:07	08:36 16:38
10	08:47 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 18:54-20:01/67 21:59	05:41 19:02-20:05/63 22:00	06:23 21:18	07:11 20:13	07:59 19:05	07:52 17:06	08:37 16:38
11	08:46 17:00	08:08 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:30 18:53-20:01/68 22:00	05:42 19:03-20:04/61 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:24	05:30 18:54-20:01/67 22:00	05:43 19:03-20:04/61 21:58	06:26 21:14	07:14 20:09	08:02 19:01	07:56 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 18:54-20:02/68 22:01	05:44 19:04-20:04/60 21:57	06:27 21:13	07:16 08:13-08:17/4 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 19:16-19:30/14 21:27	05:30 18:54-20:02/68 22:02	05:45 19:04-20:03/59 21:56	06:29 21:11	07:17 08:09-08:20/11 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:44 17:06	08:00 18:00	07:02 18:49	06:52 20:40	05:56 19:12-19:35/23 21:28	05:30 18:54-20:03/69 22:02	05:46 19:05-20:02/57 21:56	06:30 21:09	07:19 08:07-08:22/15 20:02	08:07 18:55	08:01 16:58	08:42 16:38
16	08:43 17:08	07:58 18:02	06:59 18:50	06:50 20:42	05:55 19:10-19:38/28 21:30	05:29 18:54-20:03/69 22:03	05:47 19:06-20:02/56 21:55	06:32 21:07	07:21 08:05-08:22/17 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 19:07-19:39/32 21:31	05:29 18:55-20:03/68 22:03	05:49 19:06-20:01/55 21:54	06:33 21:05	07:22 08:04-08:23/19 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:55 18:05	06:55 07:24-07:32/8 18:54	06:46 20:45	05:52 19:05-19:41/36 21:33	05:29 18:55-20:04/69 22:03	05:50 19:07-20:00/53 21:52	06:35 21:03	07:24 08:03-08:23/20 19:55	08:12 18:48	08:06 16:55	08:45 16:39
19	08:40 17:12	07:53 18:07	06:53 07:21-07:35/14 18:55	06:44 20:47	05:51 19:04-19:43/39 21:34	05:29 18:55-20:04/69 22:04	05:51 19:08-19:59/51 21:51	06:37 21:01	07:25 08:03-08:23/20 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:51 18:09	06:50 07:20-07:36/16 18:57	06:42 20:48	05:49 19:03-19:45/42 21:35	05:29 18:55-20:04/69 22:04	05:52 19:08-19:58/50 21:50	06:38 20:59	07:27 08:03-08:23/20 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:16	07:49 18:11	06:48 07:18-07:36/18 18:59	06:40 20:50	05:48 19:01-19:45/44 21:37	05:30 18:55-20:04/69 22:04	05:54 19:10-19:58/48 21:49	06:40 20:57	07:28 08:02-08:22/20 19:48	08:17 18:42	08:11 16:51	08:47 16:40
22	08:37 17:17	07:47 18:12	06:46 07:17-07:36/19 19:00	06:38 20:52	05:47 19:00-19:47/47 21:38	05:30 18:56-20:05/69 22:05	05:55 19:11-19:57/46 21:48	06:41 20:55	07:30 08:03-08:22/19 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:45 18:14	06:44 07:16-07:37/21 19:02	06:36 20:53	05:45 18:59-19:48/49 21:40	05:30 18:56-20:05/69 22:05	05:56 19:12-19:55/43 21:47	06:43 20:53	07:32 08:03-08:20/17 19:44	08:21 18:38	08:14 16:49	08:48 16:41
24	08:35 17:21	07:43 18:16	06:41 07:16-07:37/21 19:04	06:34 20:55	05:44 18:58-19:49/51 21:41	05:30 18:56-20:05/69 22:05	05:58 19:13-19:54/41 21:45	06:44 20:50	07:33 08:04-08:19/15 19:41	08:23 18:36	08:16 16:48	08:48 16:41
25	08:34 17:22	07:41 18:18	06:39 07:15-07:35/20 19:05	06:32 20:56	05:43 18:58-19:50/52 21:42	05:31 18:56-20:05/69 22:05	05:59 19:15-19:53/38 21:44	06:46 20:48	07:35 08:06-08:16/10 19:39	07:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 07:16-07:35/19 19:07	06:30 20:58	05:42 18:57-19:51/54 21:43	05:31 18:57-20:05/68 22:05	06:00 19:16-19:51/35 21:43	06:48 20:46	07:36 19:37	07:26 17:32	08:19 16:46	08:49 16:43
27	08:31 17:26	07:36 18:21	06:34 07:16-07:34/18 19:09	06:28 21:00	05:41 18:57-19:52/55 21:45	05:31 18:56-20:05/69 22:05	06:02 19:18-19:49/31 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:30 17:27	07:34 18:23	06:32 07:16-07:32/16 19:10	06:26 21:01	05:40 18:56-19:52/56 21:46	05:32 18:57-20:06/69 22:05	06:03 19:21-19:47/26 21:40	06:51 20:42	07:40 19:32	07:30 17:28	08:22 16:44	08:49 16:44
29	08:28 17:29		07:30 08:18-08:30/12 20:12	06:24 21:03	05:39 18:55-19:53/58 21:47	05:32 18:57-20:05/68 22:05	06:05 19:24-19:44/20 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 17:31		07:28 08:21-08:27/6 20:14	06:22 21:05	05:38 18:56-19:55/59 21:48	05:33 18:58-20:06/68 22:04	06:06 19:28-19:38/10 21:37	06:54 20:38	07:43 19:28	07:33 17:25	08:25 16:43	08:50 16:46
31	08:25 17:33		07:25 20:15		05:37 18:55-19:55/60 21:49		06:08 21:35	06:55 20:35		07:35 17:23		08:50 16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	208	0	799	2018	1556	0	207	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32	08:20-08:33/13	07:23	19:02-19:30/28	06:20		05:36	06:04-06:06/2
	16:48	17:35	18:25		20:17		21:06		21:51	
2	08:50	08:23	07:30	08:18-08:35/17	07:21	19:02-19:31/29	06:18	20:20-20:26/6	05:36	06:04-06:07/3
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28	08:16-08:37/21	07:19	19:01-19:31/30	06:16	20:17-20:29/12	05:35	06:03-06:06/3
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26	08:14-08:39/25	07:17	19:01-19:31/30	06:15	20:16-20:31/15	05:34	06:02-06:06/4
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24	08:11-08:39/28	07:14	19:01-19:31/30	06:13	20:14-20:32/18	05:33	06:02-06:06/4
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21	08:10-08:40/30	07:12	19:01-19:30/29	06:11	20:13-20:33/20	05:33	06:01-06:05/4
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19	08:09-08:41/32	07:10	19:01-19:29/28	06:09	20:12-20:34/22	05:32	06:01-06:05/4
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	08:09-08:41/32	07:08	19:02-19:28/26	06:08	20:11-20:34/23	05:32	06:02-06:05/3
	16:56	17:47	18:37		20:29		21:17		21:57	
9	08:48	08:11	07:15	08:08-08:41/33	07:05	19:02-19:28/26	06:06	20:11-20:35/24	05:31	
	16:57	17:49	18:39		20:30		21:19		21:58	
10	08:47	08:09	07:13	08:07-08:41/34	07:03	19:03-19:26/23	06:04	20:10-20:35/25	05:31	
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:46	08:08	07:10	08:07-08:41/34	07:01	19:04-19:24/20	06:03	20:11-20:36/25	05:31	
	17:00	17:53	18:42		20:33		21:22		22:00	
12	08:46	08:06	07:08	08:07-08:40/33	06:59	19:06-19:22/16	06:01	20:10-20:36/26	05:30	
	17:02	17:54	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	08:07-08:40/33	06:57	19:08-19:20/12	05:59	20:11-20:36/25	05:30	
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	08:07-08:39/32	06:55		05:58	20:10-20:36/26	05:30	
	17:05	17:58	18:47		20:38		21:27		22:02	
15	08:44	08:00	07:02	08:07-08:38/31	06:52		05:56	20:11-20:36/25	05:30	
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	08:08-08:37/29	06:50		05:55	20:11-20:36/25	05:29	
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	08:08-08:35/27	06:48		05:53	20:11-20:35/24	05:29	
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	08:09-08:33/24	06:46		05:52	20:12-20:35/23	05:29	
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:53	08:11-08:31/20	06:44		05:51	20:12-20:35/23	05:29	
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50	08:13-08:29/16	06:42		05:49	20:13-20:34/21	05:30	
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48	08:15-08:24/9	06:40		05:48	20:13-20:33/20	05:30	
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46		06:38		05:47	20:14-20:32/18	05:30	
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:44		06:36		05:46	20:16-20:32/16	05:30	
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41		06:34		05:44	20:17-20:31/14	05:30	
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:41	06:39		06:32		05:43	20:18-20:30/12	05:31	
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37	18:15-18:22/7	06:30		05:42	20:20-20:28/8	05:31	
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34	18:11-18:25/14	06:28		05:41	20:22-20:26/4	05:32	
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32	18:08-18:26/18	06:26		05:40		05:32	
	17:28	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	19:06-19:28/22	06:24		05:39		05:33	
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	19:05-19:30/25	06:22		05:38		05:33	
	17:31		20:14		21:05		21:48		22:04	
31	08:26		07:25	19:04-19:31/27			05:37	06:05-06:06/1		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	666		327		501		27	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34		06:09	20:21-20:46/25	06:57	19:04-19:24/20	07:44	08:46-09:19/33	07:37	08:26
	22:04		21:34		20:33		19:25		17:21	16:42
2	05:34		06:10	20:20-20:45/25	06:59	19:01-19:24/23	07:46	08:46-09:19/33	07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35		06:12	20:21-20:46/25	07:00	19:00-19:26/26	07:48	08:45-09:19/34	07:40	08:29
	22:04		21:30		20:29		19:21		17:17	16:41
4	05:36		06:13	20:21-20:45/24	07:02	18:59-19:25/26	07:49	08:45-09:18/33	07:42	08:30
	22:03		21:29		20:27		19:19		17:16	16:40
5	05:37	06:07-06:11/4	06:15	20:22-20:45/23	07:03	18:58-19:26/28	07:51	08:46-09:18/32	07:44	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37	06:07-06:11/4	06:16	20:22-20:43/21	07:05	18:57-19:26/29	07:53	08:45-09:17/32	07:45	08:33
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38	06:08-06:12/4	06:18	20:23-20:43/20	07:06	18:57-19:26/29	07:54	08:46-09:16/30	07:47	08:34
	22:02		21:24		20:20		19:12		17:11	16:39
8	05:39	06:09-06:13/4	06:20	20:24-20:41/17	07:08	18:55-19:25/30	07:56	08:47-09:15/28	07:49	08:35
	22:01		21:22		20:18		19:10		17:09	16:39
9	05:40	06:10-06:13/3	06:21	20:25-20:39/14	07:10	18:56-19:25/29	07:57	08:47-09:13/26	07:50	08:36
	22:00		21:20		20:15		19:08		17:07	16:38
10	05:41	06:11-06:14/3	06:23	20:27-20:37/10	07:11	18:55-19:24/29	07:59	08:49-09:12/23	07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42	06:12-06:14/2	06:24		07:13	18:55-19:23/28	08:01	08:51-09:11/20	07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43	06:13-06:15/2	06:26		07:14	18:55-19:22/27	08:02	08:53-09:09/16	07:56	08:39
	21:58		21:14		20:09		19:01		17:03	16:38
13	05:44	06:14-06:15/1	06:27		07:16	18:56-19:21/25	08:04	08:56-09:04/8	07:57	08:40
	21:57		21:13		20:06		18:59		17:01	16:38
14	05:45		06:29		07:17	18:56-19:19/23	08:06		07:59	08:41
	21:56		21:11		20:04		18:57		17:00	16:38
15	05:46		06:30		07:19	18:58-19:17/19	08:07		08:01	08:42
	21:56		21:09		20:02		18:55		16:59	16:38
16	05:48		06:32		07:21	18:59-19:14/15	08:09		08:02	08:43
	21:55		21:07		20:00		18:52		16:57	16:38
17	05:49	20:30-20:37/7	06:33		07:22	19:02-19:11/9	08:11		08:04	08:44
	21:54		21:05		19:57		18:50		16:56	16:38
18	05:50	20:28-20:39/11	06:35		07:24		08:12		08:06	08:45
	21:52		21:03		19:55		18:48		16:55	16:39
19	05:51	20:27-20:40/13	06:37		07:25		08:14		08:07	08:45
	21:51		21:01		19:53		18:46		16:53	16:39
20	05:52	20:26-20:41/15	06:38		07:27		08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54	20:26-20:43/17	06:40		07:28		08:18		08:11	08:47
	21:49		20:57		19:48		18:42		16:51	16:40
22	05:55	20:24-20:43/19	06:41		07:30	09:03-09:07/4	08:19		08:12	08:47
	21:48		20:55		19:46		18:40		16:50	16:40
23	05:56	20:23-20:44/21	06:43		07:32	08:57-09:11/14	08:21		08:14	08:48
	21:47		20:53		19:44		18:38		16:49	16:41
24	05:58	20:22-20:44/22	06:44		07:33	08:55-09:14/19	08:23		08:16	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59	20:23-20:45/22	06:46		07:35	08:52-09:15/23	07:24		08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00	20:22-20:45/23	06:48		07:36	08:51-09:17/26	07:26		08:19	08:49
	21:43		20:46		19:37		17:32		16:46	16:43
27	06:02	20:21-20:46/25	06:49		07:38	08:50-09:18/28	07:28		08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03	20:22-20:46/24	06:51		07:40	08:48-09:18/30	07:30		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:05	20:21-20:46/25	06:52		07:41	08:48-09:19/31	07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06	20:20-20:46/26	06:54	19:09-19:21/12	07:43	08:46-09:19/33	07:33		08:25	08:50
	21:37		20:38		19:28		17:25		16:43	16:46
31	06:08	20:21-20:47/26	06:55	19:05-19:22/17			07:35			08:50
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	323		233		623		348		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:51-11:38/47	08:24 11:17-11:28/11	07:32	07:23 19:39-19:49/10	06:20 19:47-20:12/25	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 10:51-11:38/47	08:23	07:30	07:21 19:38-19:51/13	06:18 19:47-20:11/24	05:36 06:04-06:06/2
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 10:52-11:39/47	08:21	07:28	07:19 19:37-19:52/15	06:16 19:47-20:10/23	05:35 06:03-06:06/3
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49 10:52-11:39/47	08:19	07:26	07:17 19:36-19:53/17	06:15 19:49-20:10/21	05:34 06:02-06:06/4
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:52-11:40/48	08:18	07:24	07:14 19:36-19:53/17	06:13 19:50-20:09/19	05:33 06:02-06:06/4
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 10:52-11:40/48	08:16	07:21 17:59-18:02/3	07:12 19:34-19:52/18	06:11 19:50-20:07/17	05:33 06:01-06:06/5
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 10:53-11:41/48	08:15	07:19 17:56-18:06/10	07:10 19:35-19:51/16	06:09 19:53-20:06/13	05:32 06:01-06:07/6
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 10:53-11:41/48	08:13	07:17 17:54-18:08/14	07:08 19:35-19:51/16	06:08 19:54-20:04/10	05:32 06:01-06:07/6
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:48 10:54-11:42/48	08:11	07:15 17:52-18:08/16	07:05 19:36-19:50/14	06:06	05:31 06:00-06:07/7
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 10:54-11:42/48	08:09	07:13 17:51-18:09/18	07:03 19:38-19:48/10	06:04	05:31 06:00-06:07/7
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 10:54-11:42/48	08:08	07:10 17:51-18:09/18	07:01 19:39-19:44/5	06:03	05:31 06:00-06:08/8
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46 10:56-11:43/47	08:06	07:08 17:51-18:09/18	06:59	06:01	05:30 05:59-06:07/8
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 10:56-11:43/47	08:04	07:06 17:50-18:08/18	06:57	05:59	05:30 05:59-06:07/8
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 10:56-11:43/47	08:02	07:04 17:51-18:08/17	06:55	05:58	05:30 05:59-06:08/9
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 10:57-11:43/46	08:00	07:02 17:52-18:07/15	06:52	05:56	05:30 05:59-06:08/9
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 10:57-11:43/46	07:58	06:59 17:53-18:06/13	06:50	05:55	05:29 05:59-06:08/9
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 10:58-11:44/46	07:57	06:57 17:55-18:02/7	06:48	05:53	05:29 05:59-06:08/9
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 10:58-11:44/46	07:55	06:55	06:46	05:52	05:29 05:59-06:08/9
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 10:59-11:44/45	07:53	06:53	06:44 19:56-20:06/10	05:51	05:29 05:59-06:08/9
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:00-11:44/44	07:51	06:50	06:42 19:53-20:09/16	05:49	05:30 05:59-06:08/9
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:00-11:43/43	07:49	06:48	06:40 19:52-20:10/18	05:48	05:30 05:59-06:08/9
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 11:01-11:43/42	07:47	06:46	06:38 19:50-20:11/21	05:47	05:30 06:00-06:09/9
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 11:02-11:43/41	07:45	06:44	06:36 19:49-20:12/23	05:46	05:30 06:00-06:09/9
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 11:03-11:43/40	07:43	06:41	06:34 19:48-20:13/25	05:44	05:30 06:00-06:09/9
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 11:03-11:41/38	07:41	06:39	06:32 19:47-20:13/26	05:43	05:31 06:01-06:10/9
	17:22	18:18	19:05	20:57	21:42	22:05
26	08:32 11:05-11:41/36	07:38	06:37	06:30 19:47-20:13/26	05:42	05:31 06:01-06:10/9
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 11:06-11:39/33	07:36	06:35	06:28 19:46-20:13/27	05:41	05:32 06:02-06:11/9
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 11:07-11:39/32	07:34	06:32	06:26 19:46-20:13/27	05:40	05:32 06:02-06:11/9
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 11:08-11:37/29		07:30	06:24 19:47-20:13/26	05:39	05:33 06:03-06:11/8
	17:29		20:12	21:03	21:47	22:05
30	08:27 11:11-11:35/24		07:28	06:22 19:47-20:13/26	05:38	05:33 06:03-06:11/8
	17:31		20:14	21:05	21:48	22:04
31	08:26 11:13-11:32/19		07:25 19:44-19:47/3		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1315	11	170	422	152	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:12/8 22:04	06:09 21:34	06:57 19:39-19:44/5 20:33	07:44 18:30-18:48/18 19:25	07:37 17:21	08:26 10:36-11:24/48 16:42
2	05:34 06:04-06:12/8 22:04	06:10 21:32	06:59 19:36-19:46/10 20:31	07:46 18:30-18:48/18 19:23	07:38 17:19	08:27 10:37-11:25/48 16:41
3	05:35 06:05-06:12/7 22:04	06:12 21:30	07:00 19:34-19:48/14 20:29	07:48 18:29-18:47/18 19:21	07:40 17:17	08:29 10:37-11:25/48 16:41
4	05:36 06:06-06:13/7 22:03	06:13 20:07-20:11/4 21:29	07:02 19:32-19:48/16 20:27	07:49 18:30-18:46/16 19:19	07:42 17:16	08:30 10:38-11:26/48 16:40
5	05:37 06:07-06:13/6 22:03	06:15 20:04-20:15/11 21:27	07:03 19:32-19:48/16 20:24	07:51 18:30-18:45/15 19:16	07:44 17:14	08:31 10:38-11:26/48 16:40
6	05:37 06:07-06:12/5 22:02	06:17 20:01-20:16/15 21:25	07:05 19:31-19:48/17 20:22	07:53 18:31-18:43/12 19:14	07:45 17:12	08:33 10:38-11:26/48 16:39
7	05:38 06:08-06:13/5 22:02	06:18 20:00-20:18/18 21:24	07:06 19:31-19:48/17 20:20	07:54 18:33-18:41/8 19:12	07:47 17:11	08:34 10:39-11:27/48 16:39
8	05:39 06:09-06:13/4 22:01	06:20 19:59-20:19/20 21:22	07:08 19:30-19:47/17 20:18	07:56 19:10	07:49 17:09	08:35 10:40-11:27/47 16:39
9	05:40 06:10-06:13/3 22:00	06:21 19:57-20:19/22 21:20	07:10 19:31-19:46/15 20:15	07:57 19:08	07:50 17:07	08:36 10:40-11:27/47 16:38
10	05:41 06:11-06:13/2 22:00	06:23 19:57-20:20/23 21:18	07:11 19:31-19:44/13 20:13	07:59 19:05	07:52 10:48-10:59/11 17:06	08:37 10:40-11:28/48 16:38
11	05:42 06:12-06:13/1 21:59	06:24 19:55-20:20/25 21:16	07:13 19:32-19:43/11 20:11	08:01 19:03	07:54 10:45-11:04/19 17:04	08:38 10:41-11:28/47 16:38
12	05:43 21:58	06:26 19:55-20:21/26 21:14	07:14 19:34-19:39/5 20:09	08:02 19:01	07:56 10:42-11:06/24 17:03	08:39 10:41-11:28/47 16:38
13	05:44 21:57	06:27 19:54-20:20/26 21:13	07:16 20:06	08:04 18:59	07:57 10:40-11:09/29 17:01	08:40 10:42-11:29/47 16:38
14	05:45 21:56	06:29 19:54-20:21/27 21:11	07:17 20:04	08:06 18:57	07:59 10:39-11:11/32 17:00	08:41 10:42-11:29/47 16:38
15	05:46 21:56	06:30 19:54-20:20/26 21:09	07:19 20:02	08:07 18:55	08:01 10:38-11:12/34 16:59	08:42 10:43-11:30/47 16:38
16	05:48 21:55	06:32 19:54-20:20/26 21:07	07:21 20:00	08:09 18:52	08:02 10:38-11:14/36 16:57	08:43 10:44-11:30/46 16:38
17	05:49 21:54	06:34 19:53-20:19/26 21:05	07:22 19:57	08:11 18:50	08:04 10:37-11:15/38 16:56	08:44 10:44-11:31/47 16:38
18	05:50 21:52	06:35 19:54-20:19/25 21:03	07:24 19:55	08:12 18:48	08:06 10:37-11:17/40 16:55	08:45 10:44-11:30/46 16:39
19	05:51 21:51	06:37 19:54-20:18/24 21:01	07:25 19:53	08:14 18:46	08:07 10:36-11:17/41 16:53	08:45 10:45-11:31/46 16:39
20	05:52 21:50	06:38 19:55-20:18/23 20:59	07:27 19:50	08:16 18:44	08:09 10:36-11:18/42 16:52	08:46 10:46-11:32/46 16:39
21	05:54 21:49	06:40 19:55-20:16/21 20:57	07:28 19:48	08:18 18:42	08:11 10:36-11:19/43 16:51	08:47 10:46-11:32/46 16:40
22	05:55 21:48	06:41 19:56-20:14/18 20:55	07:30 19:46	08:19 18:40	08:12 10:36-11:20/44 16:50	08:47 10:47-11:33/46 16:40
23	05:56 21:47	06:43 19:57-20:12/15 20:53	07:32 19:44	08:21 18:38	08:14 10:35-11:20/45 16:49	08:48 10:47-11:33/46 16:41
24	05:58 21:45	06:44 20:00-20:10/10 20:50	07:33 19:41	08:23 18:36	08:16 10:35-11:21/46 16:48	08:48 10:47-11:33/46 16:41
25	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 10:36-11:22/46 16:47	08:48 10:48-11:34/46 16:42
26	06:00 21:43	06:48 20:46	07:36 18:39-18:44/5 19:37	07:26 17:32	08:19 10:35-11:22/47 16:46	08:49 10:48-11:35/47 16:43
27	06:02 21:41	06:49 20:44	07:38 18:36-18:47/11 19:34	07:28 17:30	08:20 10:36-11:22/46 16:45	08:49 10:48-11:35/47 16:43
28	06:03 21:40	06:51 20:42	07:40 18:33-18:47/14 19:32	07:30 17:28	08:22 10:36-11:23/47 16:44	08:49 10:49-11:35/46 16:44
29	06:05 21:38	06:52 20:40	07:41 18:32-18:48/16 19:30	07:31 17:26	08:23 10:36-11:23/47 16:43	08:49 10:49-11:36/47 16:45
30	06:06 21:37	06:54 20:38	07:43 18:30-18:48/18 19:28	07:33 17:25	08:25 10:37-11:24/47 16:43	08:50 10:50-11:36/46 16:46
31	06:08 21:35	06:55 20:35		07:35 17:23		08:50 10:50-11:37/47 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	56	431	220	105	804	1454

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:20-09:31/11	08:24 16:56-17:06/10	07:32 08:12-08:29/17	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:32/12	08:23 16:55-17:07/12	07:30 08:13-08:28/15	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 09:20-09:33/13	08:21 16:55-17:08/13	07:28 08:14-08:26/12	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:19-09:33/14	08:19 16:56-17:09/13	07:26 08:17-08:23/6	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:54/5	20:22	21:11	21:54
5	08:49 09:19-09:34/15	08:18 16:56-17:08/12	07:24 07:47-07:56/9	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 09:18-09:35/17	08:16 16:57-17:07/10	07:21 07:44-07:56/12	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 09:18-09:36/18	08:15 16:58-17:06/8	07:19 07:43-07:57/14	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:36/19	08:13 17:03-17:04/1	07:17 07:42-07:57/15	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:18-09:37/19	08:11	07:15 07:42-07:57/15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:18-09:38/20	08:09	07:13 07:42-07:55/13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 09:18-09:38/20	08:08	07:10 07:43-07:54/11	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 09:20-09:39/19	08:06	07:08 07:44-07:52/8	06:59 07:22-07:23/1	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:21-09:39/18	08:04	07:06 07:29-07:32/3	06:57 07:19-07:22/3	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:22-09:40/18	08:02	07:04 07:26-07:32/6	06:55 07:17-07:21/4	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:22-09:40/18	08:00	07:02 07:24-07:31/7	06:52 07:15-07:19/4	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:23-09:40/17	07:58	06:59 07:23-07:30/7	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 09:24-09:40/16	07:56	06:57 07:25-07:28/3	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:24-09:40/16	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 09:25-09:40/15	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:26-09:40/14	07:51 08:19-08:25/6	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:27-09:38/11	07:49 08:16-08:27/11	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:29-09:37/8	07:47 08:15-08:29/14	06:46 18:29-18:34/5	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 09:32-09:35/3	07:45 08:13-08:30/17	06:44 18:26-18:36/10	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:13-08:31/18	06:41 18:24-18:37/13	06:34	05:44	05:31
	17:21	18:16 17:48-17:50/2	19:04	20:55	21:41	22:05
25	08:34	07:41 08:12-08:31/19	06:39 18:23-18:38/15	06:32	05:43	05:31
	17:22	18:18 17:48-17:52/4	19:05	20:56	21:42	22:05
26	08:32	07:38 08:12-08:31/19	06:37 18:22-18:38/16	06:30	05:42	05:31
	17:24	18:19 17:48-17:54/6	19:07	20:58	21:43	22:05
27	08:31	07:36 08:12-08:31/19	06:35 18:22-18:38/16	06:28	05:41	05:32
	17:26	18:21 17:47-17:55/8	19:09	21:00	21:45	22:05
28	08:30	07:34 08:11-08:30/19	06:32 18:22-18:37/15	06:26	05:40	05:32
	17:28	18:23 17:49-17:54/5	19:10	21:01	21:46	22:05
29	08:28 16:58-16:59/1		07:30 19:22-19:36/14	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:57-17:01/4		07:28 19:23-19:35/12	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 16:56-17:03/7		07:26 19:25-19:34/9		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	363	246	303	12	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57		07:44	08:24-08:30/6	07:37		08:26	09:00-09:20/20
	22:04	21:34		20:33		19:25	08:09-08:11/2	17:21		16:42	
2	05:34	06:11		06:59		07:46	08:22-08:32/10	07:38		08:27	09:01-09:21/20
	22:04	21:32		20:31		19:23		17:19		16:42	
3	05:35	06:12		07:00		07:48	08:20-08:33/13	07:40	16:30-16:34/4	08:29	09:01-09:20/19
	22:03	21:30		20:29		19:21		17:17		16:41	
4	05:36	06:14		07:02		07:49	08:19-08:33/14	07:42	16:28-16:36/8	08:30	09:02-09:21/19
	22:03	21:29		20:27		19:19		17:16		16:40	
5	05:37	06:15		07:03		07:51	08:19-08:34/15	07:43	16:27-16:37/10	08:31	09:03-09:21/18
	22:03	21:27		20:24		19:16		17:14		16:40	
6	05:38	06:17		07:05		07:53	08:18-08:33/15	07:45	16:26-16:38/12	08:33	09:04-09:21/17
	22:02	21:25		20:22		19:14		17:12		16:40	
7	05:38	06:18		07:07		07:54	08:19-08:32/13	07:47	16:26-16:39/13	08:34	09:06-09:21/15
	22:02	21:24		20:20		19:12		17:11		16:39	
8	05:39	06:20		07:08		07:56	08:21-08:32/11	07:49	16:26-16:39/13	08:35	09:07-09:21/14
	22:01	21:22		20:18		19:10		17:09		16:39	
9	05:40	06:21		07:10		07:57	08:22-08:29/7	07:50	16:26-16:38/12	08:36	09:08-09:21/13
	22:00	21:20		20:15		19:08		17:07		16:39	
10	05:41	06:23		07:11		07:59	08:50-08:59/9	07:52	16:27-16:36/9	08:37	09:09-09:21/12
	22:00	21:18		20:13		19:05	08:24-08:26/2	17:06		16:38	
11	05:42	06:24		07:13		08:01	08:48-09:01/13	07:54	16:27-16:34/7	08:38	09:10-09:21/11
	21:59	21:16		20:11		19:03		17:04		16:38	
12	05:43	06:26		07:14	19:17-19:25/8	08:02	08:47-09:02/15	07:56	16:28-16:32/4	08:39	09:11-09:21/10
	21:58	21:14		20:09		19:01		17:03		16:38	
13	05:44	06:27		07:16	19:15-19:26/11	08:04	08:45-09:02/17	07:57	16:30-16:31/1	08:40	09:12-09:21/9
	21:57	21:13		20:06		18:59	18:24-18:25/1	17:01		16:38	
14	05:45	06:29		07:18	19:13-19:27/14	08:06	08:44-09:03/19	07:59		08:41	09:13-09:21/8
	21:56	21:11		20:04		18:57	18:21-18:28/7	17:00		16:38	
15	05:47	06:30		07:19	19:12-19:27/15	08:07	08:44-09:03/19	08:01		08:42	09:14-09:21/7
	21:55	21:09		20:02		18:55	18:20-18:27/7	16:59		16:38	
16	05:48	06:32		07:21	19:11-19:27/16	08:09	08:44-09:03/19	08:02		08:43	09:15-09:21/6
	21:54	21:07		20:00		18:53	18:19-18:24/5	16:57		16:38	
17	05:49	06:34		07:22	19:11-19:27/16	08:11	08:44-09:02/18	08:04		08:44	09:16-09:21/5
	21:53	21:05		19:57		18:50	18:19-18:22/3	16:56		16:39	
18	05:50	06:35		07:24	19:10-19:25/15	08:12	08:44-09:02/18	08:06		08:45	09:16-09:20/4
	21:52	21:03		19:55		18:48		16:55		16:39	
19	05:51	06:37		07:25	19:11-19:25/14	08:14	08:45-09:01/16	08:07	09:05-09:09/4	08:45	09:17-09:18/1
	21:51	21:01		19:53		18:46		16:53		16:39	
20	05:53	06:38		07:27	19:12-19:23/11	08:16	08:46-09:00/14	08:09	09:04-09:12/8	08:46	
	21:50	20:59		19:50		18:44		16:52		16:39	
21	05:54	06:40		07:29	19:13-19:20/7	08:18	08:48-08:57/9	08:11	09:03-09:14/11	08:47	
	21:49	20:57		19:48		18:42		16:51		16:40	
22	05:55	06:41		07:30		08:19		08:12	09:02-09:16/14	08:47	
	21:48	20:55		19:46		18:40		16:50		16:40	
23	05:56	06:43		07:32		08:21		08:14	09:01-09:16/15	08:48	
	21:47	20:53		19:44		18:38		16:49		16:41	
24	05:58	06:45		07:33		08:23		08:16	09:01-09:17/16	08:48	09:19-09:20/1
	21:45	20:50		19:41		18:36		16:48		16:41	
25	05:59	06:46		07:35		07:24		08:17	09:02-09:18/16	08:48	09:22-09:24/2
	21:44	20:48		19:39		17:34		16:47		16:42	09:20-09:21/1
26	06:01	06:48		07:36		07:26		08:19	09:01-09:18/17	08:49	09:20-09:25/5
	21:43	20:46		19:37		17:32		16:46		16:43	
27	06:02	06:49		07:38	08:05-08:12/7	07:28		08:20	09:02-09:19/17	08:49	09:20-09:26/6
	21:41	20:44		19:34		17:30		16:45		16:43	
28	06:03	06:51	07:17-07:21/4	07:40	08:04-08:12/8	07:30		08:22	09:02-09:20/18	08:49	09:20-09:26/6
	21:40	20:42		19:32		17:28		16:44		16:44	
29	06:05	06:52	07:18-07:22/4	07:41	08:06-08:12/6	07:31		08:23	09:01-09:19/18	08:49	09:20-09:27/7
	21:38	20:40		19:30		17:27		16:44		16:45	
30	06:06	06:54	07:20-07:23/3	07:43	08:08-08:12/4	07:33		08:25	09:01-09:20/19	08:49	09:20-09:28/8
	21:37	20:38		19:28		17:25		16:43		16:46	
31	06:08	06:56	07:21-07:22/1			07:35				08:50	09:20-09:29/9
	21:35	20:35				17:23				16:47	
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	12		152		317		266		273	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:29-15:53/24 16:48	08:24 08:57-09:09/12 17:35	07:32 17:35-17:51/16 18:25	07:23 20:17	06:20 21:06	05:36 06:16-06:35/19 21:50 20:17-20:40/23
2	08:49 15:30-15:54/24 16:49	08:22 08:58-09:08/10 17:36	07:30 17:35-17:51/16 18:26	07:21 20:19	06:18 21:08	05:36 06:17-06:36/19 21:52 20:17-20:42/25
3	08:49 15:29-15:54/25 16:50	08:21 08:59-09:06/7 17:38	07:28 17:36-17:50/14 18:28	07:19 20:20	06:16 21:09	05:35 06:16-06:35/19 21:53 20:16-20:43/27
4	08:49 15:30-15:55/25 16:51	08:19 17:40	07:26 17:37-17:49/12 18:30	07:17 20:22	06:15 21:11	05:34 06:16-06:35/19 21:54 20:15-20:43/28
5	08:49 15:30-15:56/26 16:53	08:18 17:42	07:24 17:39-17:46/7 18:32	07:14 20:24	06:13 21:13	05:34 06:17-06:35/18 21:55 20:15-20:44/29
6	08:49 15:30-15:56/26 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 06:17-06:35/18 21:55 20:14-20:45/31
7	08:48 15:31-15:57/26 16:55	08:14 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 06:18-06:35/17 21:56 20:14-20:46/32
8	08:48 15:31-15:57/26 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 21:17	05:32 06:19-06:36/17 21:57 20:13-20:46/33
9	08:47 15:32-15:58/26 16:58	08:11 17:49	07:15 18:39	07:05 20:30	06:06 21:19	05:31 06:18-06:35/17 21:58 20:14-20:47/33
10	08:47 15:32-15:58/26 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 06:19-06:35/16 21:59 20:14-20:48/34
11	08:46 15:32-15:58/26 17:00	08:08 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 06:20-06:35/15 22:00 20:14-20:49/35
12	08:46 15:32-15:59/27 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:24	05:30 06:19-06:35/16 22:00 20:13-20:48/35
13	08:45 15:33-16:00/27 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 06:20-06:35/15 22:01 20:13-20:49/36
14	08:44 15:34-16:00/26 17:05	08:02 08:26-08:28/2 17:58	07:04 18:47	06:55 20:38	05:58 21:27	05:30 06:20-06:35/15 22:01 20:14-20:49/35
15	08:44 15:34-16:00/26 17:06	08:00 08:24-08:27/3 18:00	07:02 18:49	06:52 20:40	05:56 21:28	05:30 06:21-06:35/14 22:02 20:14-20:50/36
16	08:43 15:35-16:00/25 17:08	07:58 08:22-08:26/4 18:02	06:59 18:50	06:50 20:42	05:55 21:30	05:30 06:21-06:35/14 22:03 20:14-20:50/36
17	08:42 15:35-16:00/25 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 06:22-06:35/13 22:03 20:14-20:51/37
18	08:41 15:36-16:00/24 17:11	07:55 18:05	06:55 07:17-07:19/2 18:54	06:46 20:45	05:52 21:32	05:29 06:22-06:35/13 22:03 20:14-20:51/37
19	08:40 15:37-16:00/23 17:12	07:53 18:07	06:53 07:15-07:20/5 18:55	06:44 20:47	05:51 06:21-06:29/8 21:34	05:30 06:22-06:35/13 22:04 20:14-20:51/37
20	08:39 15:37-15:59/22 17:14	07:51 18:09	06:50 07:13-07:20/7 18:57	06:42 20:48	05:49 06:20-06:30/10 21:35	05:30 06:22-06:35/13 22:04 20:14-20:51/37
21	08:38 15:38-15:59/21 17:16	07:49 18:11	06:48 07:10-07:19/9 18:59	06:40 20:50	05:48 06:19-06:32/13 21:37	05:30 06:22-06:35/13 22:04 20:14-20:51/37
22	08:37 15:40-15:59/19 17:17	07:47 08:10-08:11/1 18:12	06:46 07:08-07:18/10 19:00	06:38 20:52	05:47 06:17-06:32/15 21:38	05:30 06:23-06:36/13 22:04 20:15-20:52/37
23	08:36 15:41-15:59/18 17:19 09:03-09:04/1	07:45 17:41-17:46/5 18:14 08:08-08:12/4	06:44 07:10-07:17/7 19:02 07:06-07:09/3	06:36 20:53	05:46 06:17-06:32/15 21:39	05:30 06:23-06:36/13 22:05 20:15-20:52/37
24	08:35 15:43-15:57/14 17:21 09:02-09:06/4	07:43 17:39-17:49/10 18:16 08:06-08:12/6	06:41 07:04-07:09/5 19:04	06:34 20:55	05:44 06:16-06:33/17 21:41	05:30 06:23-06:36/13 22:05 20:15-20:52/37
25	08:34 15:46-15:56/10 17:22 09:00-09:06/6	07:40 17:37-17:51/14 18:18 08:04-08:12/8	06:39 07:01-07:07/6 19:05	06:32 20:56	05:43 06:16-06:34/18 21:42	05:31 06:24-06:37/13 22:05 20:16-20:53/37
26	08:32 15:51-15:52/1 17:24 08:59-09:08/9	07:38 17:36-17:52/16 18:19 08:02-08:12/10	06:37 07:02-07:04/2 19:07	06:30 20:58	05:42 06:16-06:34/18 21:43	05:31 06:23-06:37/14 22:05 20:16-20:53/37
27	08:31 08:57-09:08/11 17:26	07:36 17:35-17:51/16 18:21 08:03-08:11/8	06:34 19:09	06:28 21:00	05:41 06:15-06:34/19 21:45 20:25-20:31/6	05:32 06:24-06:38/14 22:05 20:16-20:52/36
28	08:30 08:56-09:09/13 17:28	07:34 17:35-17:51/16 18:23 08:04-08:08/4	06:32 19:10	06:26 21:01	05:40 06:15-06:34/19 21:46 20:22-20:34/12	05:32 06:24-06:38/14 22:05 20:17-20:53/36
29	08:28 08:55-09:09/14 17:29		07:30 20:12	06:24 21:03	05:39 06:16-06:35/19 21:47 20:21-20:37/16	05:33 06:24-06:39/15 22:05 20:16-20:52/36
30	08:27 08:55-09:09/14 17:31		07:28 20:14	06:22 21:05	05:38 06:16-06:35/19 21:48 20:19-20:38/19	05:33 06:24-06:39/15 22:04 20:17-20:53/36
31	08:25 08:56-09:09/13 17:33		07:25 20:15		05:37 06:16-06:35/19 21:49 20:18-20:39/21	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	673	156	121	0	283	1479

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:24-06:40/16	06:09	06:57	07:44	07:36	08:26 15:14-15:40/26
	22:04 20:18-20:53/35	21:34	20:33	19:25	17:21	16:42
2	05:34 06:23-06:39/16	06:11	06:59	07:46	07:38	08:27 15:15-15:41/26
	22:04 20:18-20:52/34	21:32	20:31	19:23	17:19	16:41
3	05:35 06:24-06:40/16	06:12	07:00	07:48	07:40	08:29 15:15-15:41/26
	22:03 20:19-20:52/33	21:30	20:29	19:21	17:17	16:41
4	05:36 06:24-06:41/17	06:14	07:02	07:49	07:42	08:30 15:16-15:42/26
	22:03 20:20-20:52/32	21:29	20:27	19:19	17:16	16:40
5	05:37 06:24-06:41/17	06:15	07:03	07:51	07:43	08:31 15:16-15:42/26
	22:03 20:19-20:51/32	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:41/18	06:17	07:05	07:53	07:45	08:33 15:16-15:42/26
	22:02 20:20-20:51/31	21:25	20:22	19:14	17:12	16:39
7	05:38 06:24-06:42/18	06:18	07:06	07:54	07:47	08:34 15:16-15:42/26
	22:02 20:21-20:51/30	21:23	20:20	19:12	17:11	16:39
8	05:39 06:24-06:42/18	06:20	07:08	07:56 18:17-18:20/3	07:49 08:29-08:37/8	08:35 15:18-15:43/25
	22:01 20:22-20:51/29	21:22	20:18	19:10	17:09	16:39
9	05:40 06:24-06:43/19	06:21	07:10	07:57 18:12-18:22/10	07:50 08:28-08:39/11	08:36 15:18-15:43/25
	22:00 20:23-20:50/27	21:20	20:15	19:08	17:07	16:39
10	05:41 06:24-06:43/19	06:23	07:11	07:59 18:11-18:24/13	07:52 08:28-08:40/12	08:37 15:19-15:43/24
	22:00 20:24-20:50/26	21:18	20:13	19:05	17:06	16:38
11	05:42 06:24-06:43/19	06:24	07:13	08:01 18:10-18:25/15	07:54 08:27-08:41/14	08:38 15:19-15:43/24
	21:59 20:25-20:49/24	21:16	20:11	19:03	17:04	16:38
12	05:43 06:24-06:44/20	06:26	07:14	08:02 18:08-18:24/16	07:56 08:26-08:40/14	08:39 15:20-15:43/23
	21:58 20:26-20:48/22	21:14	20:09	19:01	17:03	16:38
13	05:44 06:24-06:44/20	06:27	07:16	08:04 18:08-18:25/17	07:57 08:27-08:41/14	08:40 15:20-15:44/24
	21:57 20:27-20:47/20	21:12	20:06	18:59	17:01	16:38
14	05:45 06:24-06:44/20	06:29	07:17	08:06 18:08-18:25/17	07:59 08:28-08:41/13	08:41 15:21-15:44/23
	21:56 20:28-20:46/18	21:11	20:04	18:57 08:36-08:42/6	17:00	16:38
15	05:46 06:25-06:44/19	06:30	07:19	08:07 18:08-18:24/16	08:01 08:30-08:41/11	08:42 15:22-15:44/22
	21:55 20:30-20:45/15	21:09	20:02	18:55 08:34-08:44/10	16:59	16:38
16	05:48 06:25-06:44/19	06:32	07:21	08:09 18:08-18:22/14	08:02 15:23-15:25/2	08:43 15:22-15:45/23
	21:54 20:32-20:42/10	21:07	20:00	18:52 08:35-08:44/9	16:57 08:32-08:41/9	16:38
17	05:49 06:25-06:44/19	06:34	07:22	08:11 18:09-18:21/12	08:04 15:19-15:30/11	08:44 15:23-15:46/23
	21:53	21:05	19:57	18:50 08:36-08:44/8	16:56 08:34-08:40/6	16:38
18	05:50 06:25-06:43/18	06:35	07:24 07:49-07:55/6	08:12 18:11-18:19/8	08:06 15:17-15:31/14	08:45 15:23-15:45/22
	21:52	21:03	19:55	18:48 08:38-08:44/6	16:55 08:36-08:40/4	16:39
19	05:51 06:25-06:43/18	06:37	07:25 07:50-07:55/5	08:14 08:40-08:43/3	08:07 15:15-15:33/18	08:45 15:24-15:46/22
	21:51	21:01	19:53	18:46	16:53 08:37-08:38/1	16:39
20	05:52 06:27-06:43/16	06:38	07:27 07:57-08:03/6	08:16	08:09 15:15-15:34/19	08:46 15:25-15:47/22
	21:50	20:59	19:50 07:52-07:55/3	18:44	16:52	16:39
21	05:54 06:27-06:43/16	06:40	07:28 07:55-08:04/9	08:17	08:11 15:14-15:35/21	08:46 15:25-15:47/22
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:28-06:42/14	06:41	07:30 07:55-08:05/10	08:19	08:12 15:14-15:36/22	08:47 15:26-15:48/22
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:41/12	06:43	07:32 07:56-08:04/8	08:21	08:14 15:13-15:36/23	08:48 15:26-15:48/22
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:40/9	06:44	07:33 07:58-08:04/6	08:23	08:15 15:13-15:37/24	08:48 15:26-15:48/22
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:38/5	06:46	07:35 08:00-08:03/3	07:24	08:17 15:13-15:38/25	08:48 15:27-15:49/22
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:57/4	08:19 15:13-15:38/25	08:49 15:27-15:49/22
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 07:54-07:57/3	08:20 15:13-15:39/26	08:49 15:27-15:50/23
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 07:56-07:58/2	08:22 15:14-15:40/26	08:49 15:27-15:50/23
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23 15:13-15:40/27	08:49 15:28-15:51/23
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25 15:14-15:41/27	08:49 15:28-15:51/23
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:49 15:28-15:52/24
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	836	0	57	192	427	732

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT11 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 13:30-13:54/24	08:24	07:32 17:12-17:37/25	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 13:31-13:54/23	08:22	07:30 17:12-17:37/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 13:32-13:53/21	08:21	07:28 17:13-17:36/23	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 13:33-13:53/20	08:19	07:26 17:14-17:36/22	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:51/2	20:22	21:11	21:54
5	08:49 13:35-13:53/18	08:18	07:24 17:14-17:34/20	07:14	06:13	05:33
	16:52	17:42	18:32 07:46-07:50/4	20:24	21:13	21:55
6	08:49 13:37-13:51/14	08:16	07:21 17:16-17:32/16	07:12	06:11 06:36-06:39/3	05:33
	16:54	17:44	18:33 07:44-07:49/5	20:25	21:14	21:55
7	08:48 13:40-13:51/11	08:14	07:19 17:18-17:30/12	07:10	06:09 06:34-06:40/6	05:32
	16:55	17:45	18:35 07:43-07:48/5	20:27	21:16	21:56
8	08:48 13:44-13:47/3	08:13	07:17 17:22-17:26/4	07:08	06:08 06:32-06:41/9	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15	07:05	06:06 06:31-06:42/11	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13	07:03	06:04 06:29-06:42/13	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08 08:32-08:33/1	07:10	07:01	06:03 06:29-06:42/13	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46	08:06 08:30-08:34/4	07:08	06:59	06:01 06:28-06:42/14	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45	08:04 08:28-08:34/6	07:06	06:57	05:59 06:28-06:42/14	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44	08:02 08:26-08:34/8	07:04	06:55	05:58 06:28-06:41/13	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00 08:24-08:34/10	07:02	06:52	05:56 06:29-06:41/12	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:23-08:33/10	06:59	06:50	05:55 06:30-06:40/10	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:25-08:31/6	06:57	06:48	05:53 06:30-06:39/9	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54	06:55	06:46	05:52 06:32-06:37/5	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40	07:53	06:53	06:44	05:51	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 17:22-17:28/6	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49 17:18-17:31/13	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47 17:17-17:33/16	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45 17:15-17:35/20	06:44 07:06-07:07/1	06:36	05:46	05:30
	17:19	18:14 08:08-08:09/1	19:02	20:53	21:39	22:05
24	08:35	07:43 17:14-17:36/22	06:41 07:04-07:07/3	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 17:14-17:37/23	06:39 07:01-07:06/5	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 17:13-17:38/25	06:37 06:59-07:04/5	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 17:12-17:37/25	06:34 06:57-06:58/1	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 17:12-17:37/25	06:32 06:55-06:57/2	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	134	221	180	0	132	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT11 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 06:38-06:52/14	06:57	07:44	07:36	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:11 06:39-06:53/14	06:59	07:46	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12 06:40-06:52/12	07:00	07:48	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13 06:41-06:51/10	07:02	07:49	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15 06:43-06:51/8	07:03	07:51	07:43	08:31 13:25-13:35/10
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17 06:44-06:49/5	07:05	07:52 17:55-18:05/10	07:45	08:33 13:23-13:37/14
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18 06:46-06:47/1	07:06	07:54 17:53-18:07/14	07:47	08:34 13:21-13:39/18
	22:02	21:23	20:20	19:12 08:19-08:25/6	17:11	16:39
8	05:39	06:20	07:08	07:56 17:51-18:09/18	07:49	08:35 13:21-13:41/20
	22:01	21:22	20:18	19:10 08:21-08:26/5	17:09	16:39
9	05:40	06:21	07:10	07:57 17:48-18:09/21	07:50	08:36 13:21-13:42/21
	22:00	21:20	20:15	19:08 08:22-08:25/3	17:07	16:38
10	05:41	06:23	07:11	07:59 17:47-18:10/23	07:52	08:37 13:20-13:43/23
	22:00	21:18	20:13	19:05 08:24-08:25/1	17:06	16:38
11	05:42	06:24	07:13	08:01 17:47-18:11/24	07:54	08:38 13:20-13:44/24
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 17:45-18:10/25	07:56	08:39 13:20-13:45/25
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 17:45-18:10/25	07:57	08:40 13:20-13:46/26
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 17:45-18:10/25	07:59	08:41 13:20-13:46/26
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 07:44-07:45/1	08:07 17:45-18:10/25	08:01	08:42 13:20-13:47/27
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 07:45-07:47/2	08:09 17:44-18:09/25	08:02	08:43 13:20-13:48/28
	21:54	21:07	19:59	18:52	16:57	16:38 09:34-09:36/2
17	05:49	06:34	07:22 07:47-07:52/5	08:11 17:45-18:08/23	08:04	08:44 13:21-13:49/28
	21:53	21:05	19:57	18:50	16:56	16:38 09:34-09:37/3
18	05:50	06:35	07:24 07:49-07:54/5	08:12 17:46-18:07/21	08:06	08:45 13:21-13:49/28
	21:52	21:03	19:55	18:48 08:38-08:39/1	16:55	16:39 09:33-09:38/5
19	05:51	06:37	07:25 07:50-07:54/4	08:14 17:47-18:06/19	08:07	08:45 13:21-13:50/29
	21:51	21:01	19:53	18:46	16:53	16:39 09:34-09:39/5
20	05:52	06:38	07:27 07:52-07:54/2	08:16 17:47-18:03/16	08:09	08:46 13:22-13:51/29
	21:50	20:59	19:50	18:44	16:52	16:39 09:34-09:40/6
21	05:54	06:40	07:28	08:17 17:50-18:01/11	08:11	08:46 13:22-13:51/29
	21:49	20:57	19:48	18:42	16:51	16:40 09:34-09:40/6
22	05:55	06:41	07:30	08:19 17:54-17:57/3	08:12	08:47 13:23-13:52/29
	21:48	20:55	19:46	18:40	16:50	16:40 09:35-09:41/6
23	05:56	06:43	07:32	08:21	08:14	08:47 13:23-13:52/29
	21:46	20:52	19:44	18:38	16:49	16:41 09:35-09:41/6
24	05:58	06:44	07:33	08:23 08:57-09:00/3	08:15	08:48 13:23-13:52/29
	21:45	20:50	19:41	18:36	16:48	16:41 09:36-09:41/5
25	05:59 06:45-06:46/1	06:46	07:35	07:24 07:55-08:02/7	08:17	08:48 13:24-13:53/29
	21:44	20:48	19:39	17:34	16:47	16:42 09:37-09:42/5
26	06:00 06:42-06:49/7	06:48	07:36	07:26 07:54-08:04/10	08:19	08:49 13:25-13:53/28
	21:42	20:46	19:37	17:32	16:46	16:43 09:38-09:41/3
27	06:02 06:40-06:50/10	06:49	07:38	07:28 07:54-08:03/9	08:20	08:49 13:25-13:53/28
	21:41	20:44	19:34	17:30	16:45	16:43 09:39-09:41/2
28	06:03 06:40-06:51/11	06:51	07:40	07:29 07:56-08:04/8	08:22	08:49 13:26-13:53/27
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:39-06:52/13	06:52	07:41	07:31 07:58-08:04/6	08:23	08:49 13:27-13:53/26
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:38-06:52/14	06:54	07:43	07:33 08:00-08:03/3	08:25	08:49 13:27-13:53/26
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 06:39-06:53/14	06:55		07:35		08:49 13:28-13:54/26
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	70	64	19	390	0	736

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May	June
1	08:50		08:24	16:12-16:51/39	07:32		07:23	19:38-19:51/13	06:20	05:36
	16:48		17:35		18:25		20:17		21:06	21:51
2	08:50		08:23	16:11-16:51/40	07:30		07:21	19:39-19:53/14	06:18	05:36
	16:49		17:36		18:26		20:19		21:08	21:52
3	08:49		08:21	16:11-16:52/41	07:28		07:19	19:41-19:55/14	06:16	05:35
	16:50		17:38		18:28		20:20		21:10	21:53
4	08:49		08:19	16:11-16:53/42	07:26		07:17	19:47-19:57/10	06:15	05:34
	16:51		17:40		18:30		20:22		21:11	21:54
5	08:49		08:18	16:11-16:53/42	07:24		07:14	19:46-19:58/12	06:13	05:33
	16:53		17:42		18:32		20:24		21:13	21:55
6	08:49		08:16	16:10-16:53/43	07:21		07:12	19:44-19:59/15	06:11	05:33
	16:54		17:44		18:33		20:25		21:14	21:56
7	08:48		08:15	16:10-16:53/43	07:19		07:10	19:44-20:01/17	06:09	05:32
	16:55		17:45		18:35		20:27		21:16	21:57
8	08:48		08:13	16:11-16:54/43	07:17		07:08	19:44-20:03/19	06:08	05:32
	16:56		17:47		18:37		20:29		21:17	21:57
9	08:48		08:11	16:11-16:54/43	07:15		07:05	19:44-20:03/19	06:06	05:31
	16:58		17:49		18:39		20:30		21:19	21:58
10	08:47		08:09	16:11-16:54/43	07:13		07:03	19:44-20:03/19	06:04	05:31
	16:59		17:51		18:40		20:32		21:21	21:59
11	08:47		08:08	16:11-16:53/42	07:11	18:14-18:17/3	07:01	19:44-20:01/17	06:03	05:31
	17:00		17:53		18:42		20:34		21:22	22:00
12	08:46		08:06	16:12-16:53/41	07:08	18:13-18:19/6	06:59	19:45-19:59/14	06:01	05:30
	17:02		17:54		18:44		20:35		21:24	22:00
13	08:45		08:04	16:12-16:52/40	07:06	18:11-18:20/9	06:57	19:47-19:58/11	05:59	05:30
	17:03		17:56		18:45		20:37		21:25	22:01
14	08:45		08:02	16:13-16:52/39	07:04	18:11-18:22/11	06:55	19:50-19:54/4	05:58	05:30
	17:05		17:58		18:47		20:38		21:27	22:02
15	08:44		08:00	16:13-16:51/38	07:02	18:11-18:24/13	06:52		05:56	05:30
	17:06		18:00		18:49		20:40		21:28	22:02
16	08:43		07:58	16:14-16:50/36	06:59	18:11-18:26/15	06:50		05:55	05:30
	17:08		18:02		18:50		20:42		21:30	22:03
17	08:42		07:57	16:15-16:49/34	06:57	18:11-18:25/14	06:48		05:53	05:29
	17:09		18:03		18:52		20:43		21:31	22:03
18	08:41		07:55	16:17-16:48/31	06:55	18:13-18:24/11	06:46		05:52	05:29
	17:11		18:05		18:54		20:45		21:33	22:04
19	08:40		07:53	16:18-16:47/29	06:53	18:15-18:22/7	06:44		05:51	05:29
	17:12		18:07		18:55		20:47		21:34	22:04
20	08:39		07:51	16:21-16:45/24	06:50		06:42		05:49	05:30
	17:14		18:09		18:57		20:48		21:35	22:04
21	08:38	16:22-16:33/11	07:49	16:23-16:43/20	06:48		06:40		05:48	05:30
	17:16		18:11		18:59		20:50		21:37	22:04
22	08:37	16:20-16:36/16	07:47	16:26-16:40/14	06:46		06:38		05:47	05:30
	17:17		18:12		19:00		20:52		21:38	22:05
23	08:36	16:19-16:39/20	07:45		06:44		06:36		05:46	05:30
	17:19		18:14		19:02		20:53		21:40	22:05
24	08:35	16:18-16:41/23	07:43		06:41		06:34		05:44	05:30
	17:21		18:16		19:04		20:55		21:41	22:05
25	08:34	16:16-16:42/26	07:41		06:39		06:32		05:43	05:31
	17:22		18:18		19:05		20:57		21:42	22:05
26	08:32	16:15-16:44/29	07:39		06:37		06:30		05:42	05:31
	17:24		18:19		19:07		20:58		21:43	22:05
27	08:31	16:14-16:45/31	07:36		06:35	18:40-18:44/4	06:28		05:41	05:32
	17:26		18:21		19:09		21:00		21:45	22:05
28	08:30	16:14-16:47/33	07:34		06:32	18:38-18:45/7	06:26		05:40	05:32
	17:28		18:23		19:10		21:01		21:46	22:05
29	08:28	16:13-16:48/35			07:30	19:38-19:47/9	06:24		05:39	05:33
	17:29				20:12		21:03		21:47	22:05
30	08:27	16:13-16:49/36			07:28	19:38-19:49/11	06:22		05:38	05:33
	17:31				20:14		21:05		21:48	22:05
31	08:26	16:12-16:50/38			07:26	19:38-19:50/12			05:37	
	17:33				20:15				21:49	
Potential sun hours	262		279		367		415		482	495
Sum of minutes with flicker	298		807		132		198		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:44-20:01/17	07:44 18:52-18:58/6	07:37 15:41-16:23/42	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:11	06:59 19:42-20:01/19	07:46 18:52-18:56/4	07:38 15:41-16:23/42	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:42-20:01/19	07:48 18:53-18:54/1	07:40 15:41-16:24/43	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02 19:41-20:00/19	07:49	07:42 15:40-16:23/43	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03 19:41-19:58/17	07:51	07:44 15:40-16:23/43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05 19:40-19:55/15	07:53	07:45 15:41-16:23/42	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:07 19:41-19:54/13	07:54	07:47 15:41-16:22/41	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08 19:41-19:51/10	07:56	07:49 15:42-16:22/40	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10 19:35-19:49/14	07:57	07:51 15:42-16:22/40	08:36
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11 19:32-19:46/14	07:59	07:52 15:43-16:22/39	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 19:31-19:44/13	08:01	07:54 15:44-16:21/37	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:29-19:42/13	08:02	07:56 15:44-16:20/36	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:29-19:40/11	08:04	07:57 15:45-16:19/34	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:18 19:28-19:37/9	08:06	07:59 15:46-16:19/33	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 19:29-19:35/6	08:07	08:01 15:47-16:18/31	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 19:28-19:33/5	08:09	08:03 15:48-16:17/29	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49	06:34	07:22 19:30-19:31/1	08:11	08:04 15:50-16:16/26	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12	08:06 15:52-16:15/23	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14 17:02-17:07/5	08:08 15:53-16:13/20	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 16:56-17:12/16	08:09 15:55-16:11/16	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29	08:18 16:53-17:14/21	08:11 15:58-16:09/11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 16:50-17:16/26	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 16:48-17:18/30	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 18:59-19:04/5	08:23 16:47-17:19/32	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:56-19:06/10	07:24 15:46-16:20/34	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:54-19:07/13	07:26 15:45-16:21/36	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:53-19:08/15	07:28 15:43-16:21/38	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:52-19:05/13	07:30 15:42-16:21/39	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:50-19:56/6	07:41 18:52-19:03/11	07:31 15:42-16:22/40	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:48-19:59/11	07:43 18:51-19:00/9	07:33 15:41-16:23/42	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:45-19:59/14		07:35 15:41-16:23/42		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	0	31	291	412	711	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 17:51-17:59/8 18:25	07:23 20:17	06:20 20:36-20:38/2 21:06	05:36 20:33-20:56/23 21:51
2	08:50 16:14-16:15/1 16:49	08:23 17:36	07:30 17:52-18:01/9 18:27	07:21 20:19	06:18 20:35-20:40/5 21:08	05:36 20:35-20:56/21 21:52
3	08:49 16:13-16:17/4 16:50	08:21 17:38	07:28 17:53-18:01/8 18:28	07:19 20:20	06:16 20:34-20:41/7 21:10	05:35 20:35-20:56/21 21:53
4	08:49 16:12-16:17/5 16:51	08:19 17:40	07:26 18:30	07:17 20:22	06:15 20:34-20:43/9 21:11	05:34 20:35-20:55/20 21:54
5	08:49 16:12-16:19/7 16:53	08:18 17:42	07:24 18:32	07:14 20:24	06:13 20:34-20:44/10 21:13	05:34 20:37-20:55/18 21:55
6	08:49 16:11-16:20/9 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 20:34-20:45/11 21:14	05:33 20:37-20:54/17 21:56
7	08:48 16:11-16:22/11 16:55	08:15 17:45	07:19 18:35	07:10 20:27	06:09 20:34-20:47/13 21:16	05:32 20:38-20:54/16 21:57
8	08:48 16:10-16:23/13 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 20:34-20:48/14 21:18	05:32 20:38-20:53/15 21:57
9	08:48 16:11-16:25/14 16:58	08:11 17:49	07:15 18:39	07:06 20:30	06:06 20:34-20:50/16 21:19	05:31 20:40-20:53/13 21:58
10	08:47 16:10-16:26/16 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 20:32-20:51/19 21:21	05:31 20:41-20:53/12 21:59
11	08:47 16:10-16:27/17 17:00	08:08 17:53	07:11 18:15-18:17/2 18:42	07:01 20:34	06:03 20:32-20:53/21 21:22	05:31 20:42-20:53/11 22:00
12	08:46 16:11-16:29/18 17:02	08:06 17:55	07:08 18:15-18:19/4 18:44	06:59 20:35	06:01 20:31-20:54/23 21:24	05:30 20:42-20:52/10 22:00
13	08:45 16:11-16:31/20 17:03	08:04 17:56	07:06 18:14-18:20/6 18:45	06:57 20:37	05:59 20:30-20:56/26 21:25	05:30 20:43-20:51/8 22:01
14	08:45 16:10-16:32/22 17:05	08:02 17:58	07:04 18:14-18:22/8 18:47	06:55 20:38	05:58 20:29-20:57/28 21:27	05:30 20:45-20:51/6 22:02
15	08:44 16:10-16:34/24 17:06	08:00 18:00	07:02 18:14-18:24/10 18:49	06:52 20:40	05:56 20:29-20:59/30 21:28	05:30 20:46-20:50/4 22:02
16	08:43 16:11-16:35/24 17:08	07:58 18:02	06:59 18:14-18:26/12 18:50	06:50 20:42	05:55 20:29-21:00/31 21:30	05:30 22:03
17	08:42 16:11-16:35/24 17:09	07:57 18:04	06:57 18:14-18:27/13 18:52	06:48 20:43	05:54 20:29-21:01/32 21:31	05:29 22:03
18	08:41 16:11-16:36/25 17:11	07:55 18:05	06:55 18:14-18:28/14 18:54	06:46 20:45	05:52 20:29-21:02/33 21:33	05:29 22:04
19	08:40 16:11-16:36/25 17:12	07:53 18:07	06:53 18:16-18:27/11 18:55	06:44 20:47	05:51 20:29-21:04/35 21:34	05:30 22:04
20	08:39 16:12-16:37/25 17:14	07:51 18:09	06:50 18:18-18:25/7 18:57	06:42 20:48	05:49 20:29-21:06/37 21:35	05:30 22:04
21	08:38 16:11-16:36/25 17:16	07:49 18:11	06:48 18:59	06:40 20:50	05:48 20:28-21:06/38 21:37	05:30 22:04
22	08:37 16:12-16:37/25 17:17	07:47 18:12	06:46 19:00	06:38 20:52	05:47 20:59-21:06/7 21:38 20:29-20:58/29	05:30 22:05
23	08:36 16:13-16:37/24 17:19	07:45 18:14	06:44 19:02	06:36 20:53	05:46 21:01-21:04/3 21:40 20:29-20:58/29	05:30 22:05
24	08:35 16:14-16:37/23 17:21	07:43 18:16	06:41 19:04	06:34 20:55	05:44 20:29-20:58/29 21:41	05:30 22:05
25	08:34 16:14-16:37/23 17:22	07:41 18:18	06:39 19:05	06:32 20:57	05:43 20:30-20:58/28 21:42	05:31 22:05
26	08:32 16:15-16:37/22 17:24	07:39 17:52-17:54/2 18:20	06:37 19:07	06:30 20:58	05:42 20:30-20:58/28 21:43	05:31 22:05
27	08:31 16:15-16:36/21 17:26	07:36 17:52-17:56/4 18:21	06:35 19:09	06:28 21:00	05:41 20:31-20:57/26 21:45	05:32 20:49-20:51/2 22:05
28	08:30 16:17-16:36/19 17:28	07:34 17:51-17:57/6 18:23	06:32 19:10	06:26 21:01	05:40 20:31-20:57/26 21:46	05:32 20:48-20:53/5 22:05
29	08:28 16:18-16:34/16 17:29		07:30 20:12	06:24 21:03	05:39 20:32-20:58/26 21:47	05:33 20:47-20:54/7 22:05
30	08:27 16:20-16:34/14 17:31		07:28 20:14	06:22 21:05	05:38 20:33-20:57/24 21:48	05:33 20:47-20:55/8 22:05
31	08:26 16:22-16:31/9 17:33		07:26 20:15		05:37 20:33-20:57/24 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	525	12	112	0	719	237

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 20:47-20:57/10	06:09 20:41-21:04/23	06:57	07:44 18:54-18:58/4	07:37	08:26 15:52-16:09/17
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 20:45-20:57/12	06:11 20:43-21:03/20	06:59	07:46 18:54-18:56/2	07:38	08:27 15:54-16:09/15
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 20:45-20:58/13	06:12 20:43-21:01/18	07:00	07:48	07:40	08:29 15:54-16:08/14
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 20:45-20:59/14	06:14 20:44-20:59/15	07:02	07:49	07:42	08:30 15:56-16:08/12
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 20:44-20:59/15	06:15 20:45-20:58/13	07:03	07:51	07:44	08:31 15:56-16:07/11
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 20:44-21:00/16	06:17 20:44-20:56/12	07:05	07:53	07:45	08:33 15:57-16:06/9
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 20:43-21:01/18	06:18 20:44-20:55/11	07:07	07:54	07:47	08:34 15:59-16:06/7
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 20:43-21:02/19	06:20 20:43-20:53/10	07:08	07:56	07:49	08:35 16:00-16:05/5
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 20:43-21:03/20	06:21 20:43-20:51/8	07:10	07:58	07:51	08:36 16:01-16:05/4
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41 20:42-21:04/22	06:23 20:44-20:50/6	07:11	07:59 18:29-18:34/5	07:52	08:37 16:03-16:05/2
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 20:42-21:04/22	06:24 20:44-20:48/4	07:13	08:01 18:26-18:36/10	07:54 15:54-16:03/9	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 20:42-21:05/23	06:26 20:45-20:46/1	07:14	08:02 18:24-18:33/9	07:56 15:51-16:05/14	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 20:41-21:05/24	06:27	07:16	08:04 18:24-18:31/7	07:57 15:50-16:06/16	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45 20:41-21:06/25	06:29	07:18	08:06 18:24-18:29/5	07:59 15:49-16:08/19	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 20:41-21:06/25	06:30	07:19	08:07 18:24-18:27/3	08:01 15:48-16:09/21	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 20:40-21:07/27	06:32	07:21	08:09	08:03 15:48-16:10/22	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 20:40-21:07/27	06:34	07:22	08:11	08:04 15:48-16:11/23	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 20:39-21:07/28	06:35	07:24	08:12	08:06 15:48-16:11/23	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 20:39-21:07/28	06:37	07:25	08:14	08:08 15:47-16:11/24	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 20:40-21:08/28	06:38	07:27	08:16	08:09 15:47-16:12/25	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:10-21:16/6	06:40	07:29	08:18	08:11 15:47-16:12/25	08:47
	21:49 20:39-21:08/29	20:57	19:48	18:42	16:51	16:40
22	05:55 21:09-21:17/8	06:41	07:30	08:19	08:12 15:48-16:13/25	08:47
	21:48 20:39-21:08/29	20:55	19:46	18:40	16:50	16:40
23	05:56 20:39-21:16/37	06:43	07:32 19:02-19:08/6	08:21	08:14 15:47-16:12/25	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 20:39-21:14/35	06:45	07:33 19:00-19:10/10	08:23	08:16 15:48-16:13/25	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 20:39-21:14/35	06:46	07:35 18:57-19:11/14	07:24	08:17 15:49-16:13/24	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 20:39-21:12/33	06:48	07:36 18:57-19:10/13	07:26	08:19 15:49-16:13/24	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 20:39-21:11/32	06:49	07:38 18:56-19:08/12	07:28	08:20 15:49-16:13/24	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 20:40-21:10/30	06:51	07:40 18:55-19:05/10	07:30	08:22 15:51-16:12/21	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 20:40-21:08/28	06:52	07:41 18:55-19:03/8	07:31	08:23 15:51-16:11/20	08:49
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06 20:40-21:07/27	06:54	07:43 18:54-19:00/6	07:33	08:25 15:52-16:10/18	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 20:41-21:06/25	06:56		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	770	141	79	45	427	96

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 15:46-16:59/73 17:35	07:32 18:25	07:23 20:17	06:20 18:40-19:55/75 21:06 07:06-07:47/41	05:37 18:43-19:58/75 21:51 20:58-21:19/21
2	08:50 16:49	08:23 15:46-16:58/72 17:37	07:30 18:27	07:21 20:19	06:18 18:40-19:56/76 21:08 07:06-07:46/40	05:36 18:45-19:58/73 21:52 20:59-21:20/21
3	08:49 16:50	08:21 15:46-16:58/72 17:38	07:28 18:28	07:19 20:20	06:17 18:40-19:57/77 21:10 07:07-07:47/40	05:35 18:45-19:58/73 21:53 20:59-21:21/22
4	08:49 16:51	08:19 15:47-16:58/71 17:40	07:26 18:30	07:17 20:22	06:15 18:39-19:57/78 20:42-20:43/1 21:11 07:07-07:46/39	05:34 18:45-19:57/72 21:54 20:58-21:21/23
5	08:49 16:53	08:18 15:47-16:58/71 17:42	07:24 18:32	07:14 20:24	06:13 18:38-19:57/79 20:41-20:44/3 21:13 07:07-07:45/38	05:34 18:46-19:58/72 21:55 20:59-21:22/23
6	08:49 16:54	08:16 15:47-16:57/70 17:44	07:22 18:33	07:12 20:25	06:11 18:39-19:58/79 20:40-20:46/6 21:14 07:07-07:45/38	05:33 18:46-19:57/71 21:56 20:59-21:21/22
7	08:48 16:55	08:15 16:36-16:56/20 17:46 15:47-16:35/48	07:19 18:35	07:10 20:27	06:09 18:38-19:58/80 20:39-20:47/8 21:16 07:07-07:44/37	05:32 18:47-19:58/71 21:56 20:59-21:22/23
8	08:48 16:56	08:13 16:38-16:56/18 17:47 15:48-16:35/47	07:17 18:37	07:08 20:01-20:03/2 20:29	06:08 18:38-19:57/79 20:39-20:48/9 21:17 07:08-07:43/35	05:32 18:48-19:58/70 21:57 21:00-21:23/23
9	08:48 16:58	08:11 16:40-16:54/14 17:49 15:49-16:35/46	07:15 18:39	07:06 20:01-20:05/4 20:30	06:06 18:38-19:58/80 20:39-20:50/11 21:19 07:09-07:43/34	05:31 18:47-19:58/71 21:58 20:59-21:22/23
10	08:47 15:58-16:08/10 16:59	08:09 16:42-16:51/9 17:51 15:49-16:34/45	07:13 18:40	07:03 20:02-20:06/4 20:32	06:04 18:37-19:58/81 20:39-20:51/12 21:21 07:09-07:42/33	05:31 18:48-19:58/70 21:59 21:00-21:23/23
11	08:46 15:56-16:11/15 17:00	08:08 15:50-16:34/44 17:53	07:11 18:15-18:17/2 18:42	07:01 20:03-20:08/5 20:34	06:03 18:38-19:58/80 20:39-20:53/14 21:22 07:10-07:41/31	05:31 18:49-19:58/69 22:00 21:00-21:23/23
12	08:46 15:55-16:14/19 17:02	08:06 15:50-16:33/43 17:55	07:08 18:15-18:19/4 18:44	06:59 20:04-20:07/3 20:35	06:01 18:37-19:58/81 20:39-20:54/15 21:24 07:10-07:39/29	05:30 18:48-19:58/70 22:00 21:00-21:22/22
13	08:45 15:54-16:15/21 17:03	08:04 15:51-16:32/41 17:56	07:06 18:15-18:20/5 18:45	06:57 19:17-19:24/7 20:37	06:00 18:38-19:58/80 20:40-20:54/14 21:25 07:12-07:39/27	05:30 18:49-19:58/69 22:01 21:00-21:23/23
14	08:45 15:53-16:17/24 17:05	08:02 15:52-16:31/39 17:58	07:04 18:18-18:21/3 18:47	06:55 19:09-19:32/23 20:39	05:58 18:37-19:58/81 20:41-20:52/11 21:27 07:12-07:37/25	05:30 18:50-19:58/68 22:02 21:01-21:23/22
15	08:44 15:52-16:19/27 17:06	08:00 15:53-16:30/37 18:00	07:02 18:49	06:53 19:05-19:36/31 20:40	05:57 18:38-19:58/80 20:42-20:52/10 21:28 07:14-07:36/22	05:30 18:50-19:58/68 22:02 21:01-21:23/22
16	08:43 15:51-16:20/29 17:08	07:58 15:55-16:29/34 18:02	06:59 18:51	06:50 19:02-19:38/36 20:42 07:26-07:35/9	05:55 18:38-19:59/81 20:44-20:51/7 21:30 07:16-07:35/19	05:30 18:50-19:58/68 22:03 21:01-21:24/23
17	08:42 15:50-16:22/32 17:09	07:57 15:57-16:27/30 18:04	06:57 18:52	06:48 18:59-19:41/42 20:43 07:22-07:39/17	05:54 18:38-19:58/80 21:31 07:17-07:32/15	05:30 18:51-19:59/68 22:03 21:02-21:24/22
18	08:41 15:50-16:23/33 17:11	07:55 15:59-16:26/27 18:05	06:55 18:54	06:46 18:57-19:43/46 20:45 07:19-07:41/22	05:52 18:38-19:58/80 21:33 07:20-07:29/9	05:30 18:51-19:59/68 22:03 21:02-21:24/22
19	08:40 15:49-16:25/36 17:12	07:53 16:02-16:23/21 18:07	06:53 18:56	06:44 18:55-19:44/49 20:47 07:17-07:42/25	05:51 18:39-19:59/80 21:34	05:30 18:51-19:59/68 22:04 21:02-21:24/22
20	08:39 16:39-16:43/4 17:14 15:49-16:26/37	07:51 16:05-16:20/15 18:09	06:50 18:57	06:42 18:53-19:46/53 20:48 07:15-07:44/29	05:49 18:39-19:59/80 21:35	05:30 18:51-19:59/68 22:04 21:02-21:24/22
21	08:38 16:36-16:44/8 17:16 15:48-16:26/38	07:49 17:42-17:44/2 18:11	06:48 18:59	06:40 18:51-19:47/56 20:50 07:13-07:45/32	05:48 18:40-19:59/79 21:37	05:30 18:51-19:59/68 22:04 21:02-21:24/22
22	08:37 16:35-16:46/11 17:17 15:48-16:28/40	07:47 17:42-17:46/4 18:12	06:46 19:01	06:38 18:49-19:49/60 20:52 07:12-07:45/33	05:47 18:39-19:58/79 21:38 21:04-21:07/3	05:30 18:52-20:00/68 22:05 21:03-21:25/22
23	08:36 16:35-16:48/13 17:19 15:48-16:29/41	07:45 17:42-17:48/6 18:14	06:44 19:02	06:36 18:48-19:50/62 20:53 07:11-07:46/35	05:46 18:40-19:58/78 21:40 21:02-21:09/7	05:30 18:52-20:00/68 22:05 21:03-21:25/22
24	08:35 16:34-16:50/16 17:21 15:48-16:30/42	07:43 17:43-17:50/7 18:16	06:41 19:04	06:34 18:47-19:51/64 20:55 07:10-07:46/36	05:44 18:40-19:58/78 21:41 21:01-21:10/9	05:31 18:52-20:00/68 22:05 21:03-21:25/22
25	08:34 16:33-16:51/18 17:22 15:47-16:30/43	07:41 17:45-17:50/5 18:18	06:39 19:06	06:32 18:45-19:51/66 20:57 07:09-07:47/38	05:43 18:40-19:58/78 21:42 21:01-21:11/10	05:31 18:53-20:01/68 22:05 21:04-21:26/22
26	08:32 16:33-16:54/21 17:24 15:47-16:32/45	07:39 18:20	06:37 19:07	06:30 18:44-19:52/68 20:58 07:08-07:47/39	05:42 18:41-19:58/77 21:43 21:00-21:12/12	05:31 18:52-20:00/68 22:05 21:04-21:26/22
27	08:31 15:46-16:55/69 17:26	07:36 18:21	06:35 19:09	06:28 18:43-19:53/70 21:00 07:07-07:47/40	05:41 18:41-19:58/77 21:45 20:59-21:13/14	05:32 18:53-20:01/68 22:05 21:04-21:26/22
28	08:30 15:46-16:57/71 17:28	07:34 18:23	06:32 19:10	06:26 18:43-19:54/71 21:01 07:08-07:48/40	05:40 18:42-19:58/76 21:46 20:59-21:14/15	05:32 18:53-20:01/68 22:05 21:04-21:26/22
29	08:28 15:46-16:59/73 17:29		07:30 20:12	06:24 18:42-19:55/73 21:03 07:07-07:48/41	05:39 18:43-19:58/75 21:47 20:59-21:16/17	05:33 18:53-20:02/69 22:05 21:05-21:27/22
30	08:27 15:46-16:59/73 17:31		07:28 20:14	06:22 18:41-19:55/74 21:05 07:07-07:47/40	05:38 18:43-19:58/75 21:48 20:59-21:17/18	05:33 18:53-20:02/69 22:04 21:04-21:27/23
31	08:26 15:46-16:58/72 17:33		07:26 20:15		05:37 18:43-19:58/75 21:49 20:59-21:18/19	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	981	1031	14	1445	3231	2752

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:53-20:02/69	06:09 18:48-20:08/80 20:50-21:04/14	06:57 20:01-20:07/6	07:45 18:54-18:58/4	07:37 16:11-16:22/11	08:26 15:38-15:53/15
	22:04 21:05-21:27/22	21:34 07:20-07:50/30	20:33	19:25	17:21 15:19-16:04/45	16:42
2	05:35 18:52-20:02/70	06:11 18:48-20:09/81 20:50-21:03/13	06:59 20:00-20:04/4	07:46 18:54-18:56/2	07:38 16:09-16:24/15	08:27 15:41-15:52/11
	22:04 21:04-21:27/23	21:32 07:20-07:52/32	20:31	19:23	17:19 15:18-16:05/47	16:42
3	05:35 18:53-20:03/70	06:12 18:48-20:08/80 20:49-21:01/12	07:00 19:59-20:03/4	07:48 18:53-18:54/1	07:40 16:08-16:26/18	08:29
	22:04 21:05-21:27/22	21:30 07:19-07:52/33	20:29	19:21	17:18 15:18-16:05/47	16:41
4	05:36 18:53-20:03/70	06:14 18:47-20:07/80 20:49-20:59/10	07:02 19:58-20:00/2	07:49	07:42 15:17-16:26/69	08:30
	22:03 21:05-21:28/23	21:29 07:19-07:54/35	20:27	19:19	17:16	16:40
5	05:37 18:53-20:04/71	06:15 18:48-20:08/80 20:49-20:58/9	07:03	07:51	07:44 15:17-16:27/70	08:31
	22:03 21:06-21:28/22	21:27 07:18-07:54/36	20:24	19:17	17:14	16:40
6	05:38 18:52-20:04/72	06:17 18:48-20:07/79 20:49-20:56/7	07:05	07:53	07:45 15:17-16:28/71	08:33
	22:02 21:05-21:28/23	21:25 07:17-07:54/37	20:22	19:14	17:12	16:40
7	05:38 18:52-20:04/72	06:18 18:48-20:07/79 20:50-20:55/5	07:07	07:54	07:47 15:17-16:28/71	08:34
	22:02 21:05-21:28/23	21:24 07:17-07:55/38	20:20	19:12	17:11	16:39
8	05:39 18:52-20:05/73	06:20 18:48-20:06/78 20:50-20:53/3	07:08	07:56	07:49 15:17-16:29/72	08:35
	22:01 21:06-21:28/22	21:22 07:16-07:55/39	20:18	19:10	17:09	16:39
9	05:40 18:52-20:05/73	06:21 18:49-20:06/77	07:10	07:58	07:51 15:17-16:29/72	08:36
	22:00 21:06-21:28/22	21:20 07:16-07:56/40	20:15	19:08	17:08	16:39
10	05:41 18:52-20:05/73	06:23 18:48-20:05/77	07:11	07:59	07:52 15:17-16:30/73	08:37
	22:00 21:06-21:28/22	21:18 07:15-07:55/40	20:13	19:05	17:06	16:38
11	05:42 18:52-20:06/74	06:24 18:49-20:05/76	07:13	08:01	07:54 15:18-16:30/72	08:38
	21:59 21:07-21:27/20	21:16 07:16-07:56/40	20:11	19:03	17:04	16:38
12	05:43 18:52-20:06/74	06:26 18:49-20:04/75	07:14	08:02	07:56 15:17-16:30/73	08:39
	21:58 21:07-21:27/20	21:14 07:15-07:55/40	20:09	19:01	17:03	16:38
13	05:44 18:52-20:06/74	06:27 18:49-20:03/74	07:16	08:04	07:57 15:18-16:31/73	08:40
	21:57 21:07-21:26/19	21:13 07:14-07:55/41	20:06	18:59	17:01	16:38
14	05:45 18:51-20:07/76	06:29 18:50-20:02/72	07:18	08:06	07:59 15:18-16:29/71	08:41
	21:56 21:08-21:25/17	21:11 07:15-07:55/40	20:04	18:57	17:00	16:38
15	05:47 18:51-20:07/76	06:31 18:50-20:01/71	07:19	08:07	08:01 15:19-16:28/69	08:42
	21:56 21:08-21:24/16	21:09 07:14-07:54/40	20:02	18:55	16:59	16:38
16	05:48 18:51-20:07/76	06:32 18:51-20:00/69	07:21	08:09	08:03 16:06-16:27/21	08:43
	21:55 21:09-21:23/14	21:07 07:15-07:54/39	20:00	18:53	16:57 15:20-16:05/45	16:38
17	05:49 18:51-20:07/76	06:34 18:51-19:59/68	07:22	08:11 18:15-18:22/7	08:04 16:07-16:25/18	08:44
	21:54 21:09-21:22/13	21:05 07:15-07:53/38	19:57	18:50	16:56 15:21-16:04/43	16:39
18	05:50 18:50-20:07/77	06:35 18:52-19:58/66	07:24	08:13 18:14-18:20/6	08:06 16:08-16:24/16	08:45
	21:53 21:10-21:21/11	21:03 07:16-07:53/37	19:55	18:48	16:55 15:22-16:04/42	16:39
19	05:51 18:50-20:07/77	06:37 18:53-19:56/63	07:25	08:14 18:13-18:18/5	08:08 16:09-16:22/13	08:45
	21:51 21:10-21:20/10	21:01 07:16-07:52/36	19:53	18:46	16:54 15:22-16:03/41	16:39
20	05:53 18:50-20:09/79	06:38 18:54-19:55/61	07:27	08:16 18:13-18:17/4	08:09 16:10-16:21/11	08:46
	21:50 21:12-21:20/8	20:59 07:17-07:52/35	19:50	18:44	16:52 15:23-16:03/40	16:39
21	05:54 18:50-20:08/78	06:40 18:54-19:53/59	07:29	08:18 18:12-18:14/2	08:11 16:12-16:20/8	08:47
	21:49 21:13-21:18/5	20:57 07:17-07:50/33	19:48	18:42 16:40-16:46/6	16:51 15:24-16:02/38	16:40
22	05:55 18:50-20:08/78	06:41 18:56-19:52/56	07:30	08:19 16:34-16:51/17	08:12 16:15-16:19/4	08:47
	21:48 21:15-21:17/2	20:55 07:18-07:49/31	19:46	18:40	16:50 15:25-16:02/37	16:40
23	05:56 18:49-20:08/79	06:43 18:57-19:49/52	07:32	08:21 16:31-16:54/23	08:14 15:26-16:01/35	08:48
	21:47	20:53 07:19-07:47/28	19:44	18:38	16:49	16:41
24	05:58 18:50-20:09/79	06:45 18:59-19:48/49	07:33	08:23 16:29-16:57/28	08:16 15:27-16:00/33	08:48
	21:45	20:50 07:21-07:46/25	19:41	18:36	16:48	16:41
25	05:59 18:49-20:09/80	06:46 19:00-19:45/45	07:35	07:24 15:27-15:58/31	08:17 15:28-16:00/32	08:48
	21:44 07:34-07:37/3	20:48 07:22-07:43/21	19:39	17:34	16:47	16:42
26	06:01 18:49-20:09/80	06:48 19:02-19:43/41	07:37	07:26 15:25-16:00/35	08:19 15:29-15:58/29	08:49
	21:43 07:29-07:41/12	20:46 07:25-07:41/16	19:37	17:32	16:46	16:43
27	06:02 18:48-20:08/80 20:55-20:59/4	06:49 19:04-19:40/36	07:38	07:28 15:23-16:00/37	08:20 15:31-15:58/27	08:49
	21:41 07:28-07:44/16	20:44 07:28-07:36/8	19:35	17:30	16:45	16:44
28	06:03 18:49-20:09/80 20:54-21:02/8	06:51 19:07-19:37/30	07:40	07:30 15:22-16:01/39	08:22 15:33-15:57/24	08:49
	21:40 07:26-07:46/20	20:42	19:32	17:28	16:44	16:44
29	06:05 18:48-20:09/81 20:52-21:03/11	06:52 19:10-19:32/22	07:41	07:31 15:21-16:02/41	08:23 15:34-15:56/22	08:49
	21:38 07:24-07:47/23	20:40	19:30	17:27	16:44	16:45
30	06:06 18:48-20:08/80 20:51-21:03/12	06:54 19:19-19:24/5	07:43 18:56-19:00/4	07:33 15:20-16:03/43	08:25 15:36-15:55/19	08:50
	21:37 07:23-07:49/26	20:38	19:28	17:25	16:43	16:46
31	06:08 18:48-20:09/81 20:50-21:04/14	06:56 20:04-20:07/3		07:35 15:19-16:04/45		08:50
	21:35 07:22-07:50/28	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	2904	2865	20	376	1637	26

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 14:50-15:34/44	08:24 08:58-09:29/31	07:32	07:23 19:36-19:52/16	06:20 07:00-07:25/25	05:37
	16:48 12:37-13:24/47	17:35 17:03-17:05/2	18:25	20:17	21:06	21:51
2	08:50 14:51-15:35/44	08:23 08:57-09:29/32	07:30	07:21 19:34-19:53/19	06:18 07:00-07:24/24	05:36
	16:49 12:38-13:24/46	17:37 17:04-17:07/3	18:27	20:19	21:08	21:52
3	08:49 14:52-15:35/43	08:21 08:56-09:29/33	07:28	07:19 19:33-19:55/22	06:17 07:02-07:24/22	05:35
	16:50 12:39-13:25/46	17:38 17:06-17:07/1	18:28	20:20	21:10	21:53
4	08:49 14:52-15:35/43	08:19 08:57-09:31/34	07:26	07:17 19:33-19:57/24	06:15 07:02-07:22/20	05:34
	16:51 12:39-13:24/45	17:40	18:30	20:22	21:11	21:54
5	08:49 14:53-15:36/43	08:18 08:56-09:31/35	07:24	07:14 19:33-19:58/25	06:13 07:03-07:20/17	05:34
	16:53 12:40-13:24/44	17:42	18:32	20:24	21:13	21:55
6	08:49 14:53-15:35/42	08:16 08:56-09:31/35	07:22	07:12 19:32-19:56/24	06:11 07:06-07:19/13	05:33
	16:54 12:41-13:24/43	17:44	18:33	20:25	21:14	21:56
7	08:48 14:54-15:36/42	08:15 08:55-09:31/36	07:19	07:10 19:32-19:55/23	06:09 07:08-07:16/8	05:32
	16:55 12:42-13:24/42	17:46	18:35	20:27	21:16	21:56
8	08:48 14:54-15:36/42	08:13 08:56-09:32/36	07:17	07:08 19:32-19:54/22	06:08	05:32
	16:56 12:43-13:23/40	17:47	18:37	20:29	21:17	21:57
9	08:48 14:55-15:37/42	08:11 08:56-09:32/36	07:15	07:06 19:33-19:53/20	06:06	05:32
	16:58 12:45-13:24/39	17:49	18:39	20:30	21:19	21:58
10	08:47 14:55-15:37/42	08:09 08:56-09:31/35	07:13	07:03 19:34-19:52/18	06:04	05:31
	16:59 12:46-13:23/37	17:51	18:40	20:32	21:21	21:59
11	08:46 14:56-15:37/41	08:08 08:56-09:31/35	07:11	07:01 19:35-19:51/16	06:03	05:31
	17:00 12:47-13:22/35	17:53	18:42	20:34	21:22	22:00
12	08:46 14:57-15:37/40	08:06 08:57-09:31/34	07:08	06:59 19:36-19:48/12	06:01	05:30
	17:02 12:49-13:22/33	17:55	18:44	20:35	21:24	22:00
13	08:45 14:58-15:37/39	08:04 08:57-09:30/33	07:06	06:57 19:40-19:44/4	06:00	05:30
	17:03 12:51-13:21/30	17:56	18:45	20:37	21:25	22:01
14	08:44 14:58-15:37/39	08:02 08:58-09:29/31	07:04	06:55	05:58	05:30
	17:05 12:53-13:20/27	17:58	18:47	20:38	21:27	22:02
15	08:44 14:59-15:37/38	08:00 08:58-09:28/30	07:02	06:53	05:57	05:30
	17:06 12:55-13:18/23	18:00	18:49	20:40	21:28	22:02
16	08:43 15:00-15:37/37	07:58 08:59-09:27/28	06:59 18:25-18:26/1	06:50	05:55	05:30
	17:08 12:58-13:15/17	18:02	18:51	20:42	21:30	22:03
17	08:42 15:01-15:37/36	07:57 09:00-09:26/26	06:57 18:24-18:27/3	06:48 07:11-07:22/11	05:54	05:30
	17:09 13:07-13:10/3	18:04	18:52	20:43	21:31	22:03
18	08:41 15:02-15:37/35	07:55 09:02-09:24/22	06:55 18:25-18:29/4	06:46 07:09-07:24/15	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 15:03-15:36/33	07:53 09:04-09:21/17	06:53 18:26-18:31/5	06:44 07:07-07:25/18	05:51	05:30
	17:13	18:07	18:56	20:47	21:34	22:04
20	08:39 15:05-15:36/31	07:51 09:07-09:18/11	06:50	06:42 07:05-07:26/21	05:49	05:30
	17:14	18:09 17:40-17:42/2	18:57	20:48	21:35	22:04
21	08:38 15:05-15:35/30	07:49 17:42-17:44/2	06:48	06:40 07:03-07:27/24	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 15:07-15:34/27	07:47	06:46	06:38 07:02-07:27/25	05:47	05:30
	17:17	18:13	19:01	20:52	21:38	22:05
23	08:36 15:09-15:33/24	07:45	06:44	06:36 07:01-07:28/27	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 15:12-15:32/20	07:43	06:41	06:34 07:00-07:28/28	05:45	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 15:14-15:30/16	07:41	06:39	06:32 07:00-07:28/28	05:43	05:31
	17:23 09:06-09:17/11	18:18	19:06	20:57	21:42	22:05
26	08:32 15:19-15:27/8	07:39	06:37	06:30 06:59-07:27/28	05:42	05:31
	17:24 09:04-09:20/16	18:20	19:07	20:58	21:43	22:05
27	08:31 09:02-09:22/20	07:36	06:35	06:28 06:59-07:27/28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 09:01-09:24/23	07:34	06:32	06:26 07:00-07:28/28	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:00-09:25/25		07:30 19:42-19:47/5	06:24 07:00-07:27/27	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 08:59-09:27/28		07:28 19:39-19:49/10	06:22 07:00-07:26/26	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:26 08:58-09:27/29		07:26 19:37-19:50/13		05:37	
	17:33 17:01-17:03/2		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1672	620	41	579	129	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57	19:34-19:50/16	07:45		07:37	08:26-09:01/35	08:26	14:38-15:19/41
	22:04	21:34		20:33		19:25		17:21		16:42	12:29-13:04/35
2	05:35	06:11		06:59	19:32-19:50/18	07:46		07:38	08:26-09:01/35	08:27	14:38-15:20/42
	22:04	21:32		20:31		19:23		17:19		16:42	12:29-13:06/37
3	05:35	06:12		07:00	19:31-19:52/21	07:48		07:40	08:26-09:02/36	08:29	14:38-15:20/42
	22:04	21:30		20:29		19:21		17:18		16:41	12:28-13:07/39
4	05:36	06:14		07:02	19:29-19:51/22	07:49		07:42	08:25-09:01/36	08:30	14:39-15:21/42
	22:03	21:29		20:27		19:19		17:16		16:40	12:28-13:08/40
5	05:37	06:15		07:03	19:29-19:52/23	07:51		07:44	08:25-09:01/36	08:31	14:39-15:21/42
	22:03	21:27		20:24		19:17		17:14		16:40	12:27-13:09/42
6	05:38	06:17	07:16-07:26/10	07:05	19:28-19:52/24	07:53		07:45	08:26-09:01/35	08:33	14:39-15:21/42
	22:02	21:25		20:22		19:14		17:12		16:40	12:27-13:10/43
7	05:38	06:18	07:14-07:29/15	07:07	19:28-19:53/25	07:54		07:47	08:26-09:00/34	08:34	14:40-15:23/43
	22:02	21:24		20:20		19:12		17:11		16:39	12:27-13:11/44
8	05:39	06:20	07:12-07:30/18	07:08	19:27-19:51/24	07:56		07:49	08:27-09:00/33	08:35	14:40-15:23/43
	22:01	21:22		20:18		19:10		17:09	16:36-16:39/3	16:39	12:27-13:12/45
9	05:40	06:21	07:12-07:32/20	07:10	19:28-19:49/21	07:58		07:50	08:28-09:00/32	08:36	14:40-15:23/43
	22:00	21:20		20:15		19:08		17:08	16:34-16:38/4	16:39	12:27-13:13/46
10	05:41	06:23	07:10-07:32/22	07:11	19:27-19:46/19	07:59		07:52	08:29-08:59/30	08:37	14:40-15:24/44
	22:00	21:18		20:13		19:05		17:06	16:33-16:36/3	16:38	12:27-13:13/46
11	05:42	06:24	07:10-07:34/24	07:13	19:28-19:45/17	08:01		07:54	08:30-08:59/29	08:38	14:40-15:24/44
	21:59	21:16		20:11		19:03		17:04	16:33-16:35/2	16:38	12:27-13:14/47
12	05:43	06:26	07:08-07:34/26	07:14	19:28-19:42/14	08:02		07:56	08:31-08:58/27	08:39	14:41-15:24/43
	21:58	21:14		20:09		19:01		17:03		16:38	12:27-13:15/48
13	05:44	06:27	07:08-07:35/27	07:16	19:30-19:40/10	08:04		07:57	08:32-08:57/25	08:40	14:41-15:25/44
	21:57	21:13		20:06		18:59		17:01		16:38	12:27-13:16/49
14	05:45	06:29	07:07-07:35/28	07:18	19:32-19:37/5	08:06		07:59	08:33-08:56/23	08:41	14:42-15:25/43
	21:56	21:11		20:04		18:57		17:00		16:38	12:27-13:16/49
15	05:47	06:31	07:06-07:34/28	07:19		08:07		08:01	08:35-08:55/20	08:42	14:42-15:26/44
	21:56	21:09		20:02		18:55		16:59		16:38	12:28-13:17/49
16	05:48	06:32	07:07-07:35/28	07:21		08:09		08:02	14:52-15:00/8	08:43	14:43-15:27/44
	21:55	21:07		20:00		18:53		16:57	08:37-08:53/16	16:38	12:28-13:18/50
17	05:49	06:34	07:06-07:34/28	07:22		08:11		08:04	14:48-15:04/16	08:44	14:43-15:27/44
	21:54	21:05		19:57		18:50		16:56	08:40-08:51/11	16:39	12:29-13:19/50
18	05:50	06:35	07:06-07:34/28	07:24		08:12		08:06	14:46-15:06/20	08:45	14:43-15:27/44
	21:52	21:03		19:55		18:48		16:55		16:39	12:28-13:18/50
19	05:51	06:37	07:06-07:33/27	07:25		08:14		08:07	14:43-15:07/24	08:45	14:44-15:28/44
	21:51	21:01		19:53		18:46		16:54		16:39	12:29-13:19/50
20	05:53	06:38	07:07-07:33/26	07:27		08:16	18:15-18:17/2	08:09	14:42-15:09/27	08:46	14:45-15:29/44
	21:50	20:59		19:50		18:44		16:52		16:40	12:30-13:20/50
21	05:54	06:40	07:07-07:32/25	07:29		08:18	18:11-18:14/3	08:11	14:41-15:11/30	08:47	14:45-15:29/44
	21:49	20:57		19:48		18:42		16:51		16:40	12:30-13:20/50
22	05:55	06:41	07:08-07:32/24	07:30		08:19	09:36-09:50/14	08:12	14:41-15:12/31	08:47	14:46-15:30/44
	21:48	20:55		19:46		18:40	18:10-18:12/2	16:50		16:40	12:31-13:21/50
23	05:57	06:43	07:09-07:30/21	07:32		08:21	09:34-09:52/18	08:14	14:39-15:12/33	08:48	14:46-15:30/44
	21:47	20:53		19:44		18:38		16:49		16:41	12:31-13:21/50
24	05:58	06:45	07:11-07:29/18	07:33	19:10-19:15/5	08:23	09:32-09:55/23	08:16	14:39-15:14/35	08:48	14:46-15:30/44
	21:45	20:50		19:41		18:36		16:48		16:41	12:31-13:21/50
25	05:59	06:46	07:12-07:26/14	07:35	19:08-19:12/4	07:24	08:31-08:56/25	08:17	14:39-15:15/36	08:48	14:47-15:31/44
	21:44	20:48		19:39		17:34		16:47	12:46-12:47/1	16:42	12:32-13:22/50
26	06:01	06:48	07:14-07:24/10	07:37	19:07-19:10/3	07:26	08:29-08:58/29	08:19	14:38-15:15/37	08:49	14:47-15:31/44
	21:43	20:46		19:37		17:32		16:46	12:36-12:53/17	16:43	12:33-13:23/50
27	06:02	06:49		07:38	19:07-19:08/1	07:28	08:28-08:58/30	08:20	14:38-15:16/38	08:49	14:48-15:32/44
	21:41	20:44		19:35		17:30		16:45	12:34-12:57/23	16:44	12:33-13:23/50
28	06:03	06:51		07:40		07:30	08:27-08:59/32	08:22	14:38-15:17/39	08:49	14:48-15:32/44
	21:40	20:42		19:32		17:28		16:44	12:33-12:59/26	16:44	12:34-13:23/49
29	06:05	06:52		07:41		07:31	08:26-09:00/34	08:23	14:38-15:17/39	08:49	14:48-15:32/44
	21:38	20:40		19:30		17:27		16:44	12:31-13:01/30	16:45	12:34-13:23/49
30	06:06	06:54	19:41-19:45/4	07:43		07:33	08:26-09:00/34	08:25	14:38-15:19/41	08:50	14:49-15:33/44
	21:37	20:38		19:28		17:25		16:43	12:30-13:03/33	16:46	12:35-13:23/48
31	06:08	06:56	19:36-19:48/12			07:35	08:26-09:01/35			08:50	14:49-15:33/44
	21:35	20:35				17:23				16:47	12:36-13:24/48
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	483		272		281		1089		2799	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	08:12-08:31/19	06:20		05:36	
	16:48	17:35	18:25		20:17		21:06		21:51	
2	08:50	08:22	07:30		07:21	08:15-08:28/13	06:18		05:36	
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28		07:19		06:16		05:35	
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26		07:16		06:15		05:34	
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24		07:14		06:13		05:33	
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21		07:12		06:11		05:33	
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19		07:10		06:09		05:32	
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17		07:08		06:08		05:32	
	16:56	17:47	18:37		20:29		21:17		21:57	
9	08:47	08:11	07:15		07:05		06:06		05:31	
	16:57	17:49	18:38		20:30		21:19		21:58	
10	08:47	08:09	07:13		07:03		06:04		05:31	
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:46	08:08	07:10		07:01		06:03	06:28-06:29/1	05:30	06:00-06:01/1
	17:00	17:53	18:42		20:33		21:22		22:00	
12	08:46	08:06	07:08	07:31-07:32/1	06:59		06:01	06:26-06:29/3	05:30	05:59-06:00/1
	17:02	17:54	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	07:29-07:37/8	06:57		05:59	06:25-06:29/4	05:30	05:59-06:00/1
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	07:26-07:38/12	06:55		05:58	06:23-06:28/5	05:30	05:59-06:00/1
	17:05	17:58	18:47		20:38		21:27		22:02	
15	08:44	08:00	07:02	07:24-07:40/16	06:52		05:56	06:22-06:28/6	05:30	05:59-06:00/1
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:22-07:42/20	06:50		05:55	06:21-06:28/7	05:29	05:59-06:00/1
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	07:19-07:42/23	06:48		05:53	06:19-06:27/8	05:29	05:59-06:00/1
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	07:17-07:43/26	06:46		05:52	06:18-06:26/8	05:29	05:59-06:00/1
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:53	07:15-07:43/28	06:44		05:51	06:17-06:25/8	05:29	05:59-06:00/1
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50	07:13-07:44/31	06:42		05:49	06:19-06:24/5	05:29	05:59-06:00/1
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48	07:10-07:43/33	06:40		05:48		05:30	06:00-06:01/1
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46	07:08-07:43/35	06:38		05:47		05:30	06:00-06:01/1
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:43	07:08-07:43/35	06:36		05:45		05:30	06:00-06:01/1
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41	07:08-07:43/35	06:34		05:44		05:30	06:00-06:01/1
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:40	06:39	07:08-07:42/34	06:32		05:43		05:31	06:01-06:02/1
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37	07:08-07:41/33	06:30		05:42		05:31	06:01-06:02/1
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34	07:08-07:40/32	06:28		05:41		05:31	06:02-06:03/1
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32	07:08-07:39/31	06:26		05:40		05:32	06:02-06:03/1
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	08:09-08:37/28	06:24		05:39		05:32	06:03-06:04/1
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	08:10-08:36/26	06:22		05:38		05:33	06:03-06:04/1
	17:31		20:14		21:05		21:48		22:04	
31	08:25		07:25	08:12-08:34/22			05:37			
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	509		32		55		20	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:05/1	06:09 06:37-06:39/2	06:57	07:44 08:09-08:14/5	07:36	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:05/1	06:10	06:59	07:46	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13	07:02	07:49	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16	07:05	07:52	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:19	07:08	07:56	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57	07:50	08:36
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41	06:23	07:11 08:09-08:21/12	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 08:06-08:24/18	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 08:03-08:25/22	08:02	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 08:02-08:27/25	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 08:00-08:28/28	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 07:59-08:29/30	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:58	16:38
16	05:47	06:32	07:21 07:57-08:29/32	08:09	08:02	08:43
	21:55	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33	07:22 07:56-08:29/33	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 07:55-08:29/34	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 07:55-08:29/34	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 07:55-08:30/35	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 07:54-08:29/35	08:17	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 07:55-08:29/34	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 07:56-08:27/31	08:21	08:14	08:48
	21:47	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:35/6	06:44	07:33 07:58-08:27/29	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:36/8	06:46	07:35 07:59-08:25/26	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:37/8	06:48	07:36 08:01-08:25/24	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:38/8	06:49	07:38 08:03-08:24/21	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:39/7	06:51	07:40 08:04-08:22/18	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:39/6	06:52	07:41 08:06-08:20/14	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:39/5	06:54	07:43 08:07-08:17/10	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:07 06:36-06:39/3	06:55		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	53	2	545	5	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 13:21-14:39/78 16:48	08:24 13:49-14:35/46 17:35	07:32 17:40-17:59/19 18:25	07:23 19:11-19:50/39 20:17	06:20 21:06	05:36 21:51
2	08:50 13:21-14:40/79 16:49	08:23 13:51-14:32/41 17:36	07:30 17:39-18:01/22 18:26	07:21 19:11-19:50/39 20:19	06:18 21:08	05:36 21:52
3	08:49 13:22-14:40/78 16:50	08:21 13:54-14:30/36 17:38	07:28 17:39-18:03/24 18:28	07:19 19:10-19:51/41 20:20	06:16 21:10	05:35 06:03-06:05/2 21:53
4	08:49 13:22-14:40/78 16:51	08:19 13:58-14:28/30 17:40	07:26 17:38-18:05/27 18:30	07:17 19:10-19:51/41 20:22	06:15 21:11	05:34 06:02-06:06/4 21:54
5	08:49 13:23-14:41/78 16:52	08:18 14:03-14:24/21 17:42	07:24 17:37-18:06/29 18:32	07:14 19:10-19:50/40 20:24	06:13 21:13	05:33 06:02-06:07/5 21:55
6	08:49 13:23-14:41/78 16:54	08:16 14:12-14:15/3 17:44	07:21 17:37-18:07/30 18:33	07:12 19:09-19:49/40 20:25	06:11 21:14	05:33 06:01-06:07/6 21:56
7	08:48 13:24-14:41/77 16:55	08:15 17:45	07:19 17:37-18:07/30 18:35	07:10 19:09-19:49/40 20:27	06:09 21:16	05:32 06:01-06:08/7 21:56
8	08:48 13:24-14:41/77 16:56	08:13 17:47	07:17 17:37-18:07/30 18:37	07:08 19:10-19:48/38 20:29	06:08 21:17	05:32 06:01-06:10/9 21:57
9	08:48 13:25-14:42/77 16:58	08:11 17:49	07:15 17:37-18:06/29 18:39	07:05 19:10-19:48/38 20:30	06:06 21:19	05:31 06:00-06:09/9 21:58
10	08:47 13:25-14:42/77 16:59	08:09 17:51	07:13 17:37-18:05/28 18:40	07:03 19:11-19:47/36 20:32	06:04 21:21	05:31 06:00-06:10/10 21:59
11	08:46 13:26-14:42/76 17:00	08:08 17:53	07:10 17:38-18:04/26 18:42	07:01 19:11-19:45/34 20:34	06:03 21:22	05:31 06:00-06:11/11 22:00
12	08:46 13:27-14:43/76 17:02	08:06 17:54	07:08 17:39-18:03/24 18:44	06:59 19:11-19:44/33 20:35	06:01 21:24	05:30 05:59-06:11/12 22:00
13	08:45 13:28-14:43/75 17:03	08:04 17:56	07:06 17:40-18:01/21 18:45	06:57 19:13-19:43/30 20:37	05:59 21:25	05:30 05:59-06:11/12 22:01
14	08:45 13:28-14:43/75 17:05	08:02 17:58	07:04 17:42-17:59/17 18:47	06:55 19:14-19:41/27 20:38	05:58 21:27	05:30 05:59-06:12/13 22:02
15	08:44 13:29-14:43/74 17:06	08:00 18:00	07:02 17:45-17:56/11 18:49	06:52 19:16-19:40/24 20:40	05:56 21:28	05:30 05:59-06:12/13 22:02
16	08:43 13:29-14:43/74 17:08	07:58 18:02	06:59 18:50	06:50 19:18-19:37/19 20:42	05:55 21:30	05:30 05:59-06:13/14 22:03
17	08:42 13:30-14:43/73 17:09	07:57 18:03	06:57 18:21-18:27/6 18:52	06:48 19:20-19:34/14 20:43	05:53 21:31	05:29 05:59-06:13/14 22:03
18	08:41 13:31-14:43/72 17:11	07:55 18:05	06:55 18:19-18:29/10 18:54	06:46 20:45	05:52 21:33	05:29 05:59-06:13/14 22:03
19	08:40 13:32-14:43/71 17:12	07:53 18:07	06:53 18:17-18:31/14 18:55	06:44 20:47	05:51 21:34	05:29 05:59-06:13/14 22:04
20	08:39 13:33-14:43/70 17:14	07:51 18:09	06:50 18:16-18:32/16 18:57	06:42 20:48	05:49 21:35	05:30 05:59-06:13/14 22:04
21	08:38 13:33-14:42/69 17:16	07:49 18:11	06:48 18:14-18:33/19 18:59	06:40 20:50	05:48 21:37	05:30 05:59-06:14/15 22:04
22	08:37 13:34-14:42/68 17:17	07:47 18:12	06:46 18:13-18:35/22 19:00	06:38 20:52	05:47 21:38	05:30 06:00-06:14/14 22:05
23	08:36 13:36-14:42/66 17:19	07:45 18:14	06:44 18:13-18:37/24 19:02	06:36 20:53	05:46 21:40	05:30 06:00-06:14/14 22:05
24	08:35 13:37-14:42/65 17:21	07:43 18:16	06:41 18:12-18:38/26 19:04	06:34 20:55	05:44 21:41	05:30 06:00-06:14/14 22:05
25	08:34 13:37-14:41/64 17:22	07:41 17:48-17:52/4 18:18	06:39 18:11-18:40/29 19:05	06:32 20:57	05:43 21:42	05:31 06:01-06:15/14 22:05
26	08:32 13:39-14:41/62 17:24	07:38 17:46-17:54/8 18:19	06:37 18:12-18:42/30 19:07	06:30 20:58	05:42 21:43	05:31 06:01-06:15/14 22:05
27	08:31 13:40-14:39/59 17:26	07:36 17:44-17:56/12 18:21	06:35 18:12-18:44/32 19:09	06:28 21:00	05:41 21:45	05:32 06:02-06:15/13 22:05
28	08:30 13:42-14:39/57 17:28	07:34 17:41-17:57/16 18:23	06:32 18:11-18:45/34 19:10	06:26 21:01	05:40 21:46	05:32 06:02-06:15/13 22:05
29	08:28 13:43-14:38/55 17:29		07:30 19:12-19:47/35 20:12	06:24 21:03	05:39 21:47	05:33 06:03-06:16/13 22:05
30	08:27 13:45-14:37/52 17:31		07:28 19:12-19:49/37 20:14	06:22 21:05	05:38 21:48	05:33 06:03-06:15/12 22:04
31	08:26 13:46-14:35/49 17:33		07:26 19:13-19:50/37 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	2179	217	738	573	0	319

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:15/11	06:09	06:57 19:10-19:45/35	07:44 18:19-18:42/23	07:37	08:26 13:08-14:24/76
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:15/11	06:11	06:59 19:09-19:45/36	07:46 18:17-18:43/26	07:38	08:27 13:09-14:25/76
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:15/10	06:12	07:00 19:08-19:46/38	07:48 18:16-18:43/27	07:40	08:29 13:08-14:25/77
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:15/9	06:14	07:02 19:07-19:45/38	07:49 18:15-18:43/28	07:42	08:30 13:09-14:26/77
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:15/8	06:15	07:03 19:07-19:46/39	07:51 18:14-18:44/30	07:44 13:39-13:47/8	08:31 13:09-14:26/77
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:14/7	06:17	07:05 19:05-19:45/40	07:53 18:13-18:43/30	07:45 13:32-13:54/22	08:33 13:09-14:27/78
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:14/6	06:18	07:07 19:05-19:46/41	07:54 18:13-18:43/30	07:47 13:27-13:58/31	08:34 13:10-14:28/78
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20	07:08 19:04-19:45/41	07:56 18:13-18:43/30	07:49 13:24-14:01/37	08:35 13:10-14:28/78
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21	07:10 19:05-19:45/40	07:57 18:12-18:40/28	07:50 13:22-14:03/41	08:36 13:10-14:28/78
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:12/1	06:23	07:11 19:04-19:44/40	07:59 18:13-18:38/25	07:52 13:20-14:06/46	08:37 13:10-14:29/79
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 19:04-19:43/39	08:01 18:13-18:36/23	07:54 13:18-14:07/49	08:38 13:11-14:29/78
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:04-19:42/38	08:02 18:13-18:33/20	07:56 13:16-14:08/52	08:39 13:11-14:30/79
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:04-19:40/36	08:04 18:14-18:31/17	07:57 13:15-14:10/55	08:40 13:11-14:30/79
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 19:02-19:37/35	08:06 18:15-18:29/14	07:59 13:14-14:11/57	08:41 13:12-14:31/79
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 19:02-19:35/33	08:07 18:17-18:27/10	08:01 13:13-14:12/59	08:42 13:12-14:31/79
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 19:00-19:33/33	08:09 18:18-18:24/6	08:02 13:12-14:14/62	08:43 13:13-14:32/79
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49	06:34	07:22 19:00-19:31/31	08:11 18:21-18:22/1	08:04 13:11-14:15/64	08:44 13:14-14:33/79
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 18:59-19:28/29	08:12	08:06 13:11-14:16/65	08:45 13:13-14:32/79
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 18:59-19:26/27	08:14	08:08 13:10-14:16/66	08:45 13:14-14:33/79
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 18:59-19:24/25	08:16	08:09 13:09-14:17/68	08:46 13:15-14:34/79
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29 18:59-19:21/22	08:18	08:11 13:09-14:18/69	08:47 13:15-14:34/79
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 19:00-19:20/20	08:19	08:12 13:09-14:19/70	08:47 13:16-14:35/79
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 18:59-19:17/18	08:21	08:14 13:08-14:19/71	08:48 13:16-14:35/79
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 19:01-19:15/14	08:23	08:16 13:08-14:20/72	08:48 13:16-14:35/79
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 19:29-19:31/2	07:35 19:01-19:12/11	07:24	08:17 13:08-14:21/73	08:48 13:17-14:36/79
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 19:23-19:37/14	07:36 19:03-19:10/7	07:26	08:19 13:08-14:21/73	08:49 13:18-14:37/79
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 19:19-19:39/20	07:38 19:07-19:08/1	07:28	08:20 13:08-14:22/74	08:49 13:18-14:37/79
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51 19:17-19:42/25	07:40 18:27-18:36/9	07:30	08:22 13:08-14:23/75	08:49 13:18-14:37/79
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:15-19:42/27	07:41 18:23-18:39/16	07:31	08:23 13:08-14:23/75	08:49 13:19-14:38/79
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:13-19:44/31	07:43 18:20-18:40/20	07:33	08:25 13:08-14:24/76	08:50 13:19-14:38/79
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:11-19:44/33		07:35		08:50 13:20-14:38/78
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	70	152	852	368	1510	2431

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 09:18-09:25/7	07:32 08:04-08:08/4	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49	08:22 08:48-08:49/1	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49	08:21 08:46-08:48/2	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49	08:19 08:45-08:46/1	07:26	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49	08:18 08:43-08:46/3	07:23	07:14	06:13	05:33
	16:52	17:42	18:32	20:23	21:12	21:54
6	08:48	08:16 08:41-08:45/4	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13 08:41-08:42/1	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:07	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:20/6	08:04	07:06	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:22/9	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:26	22:01
15	08:43 09:12-09:23/11	08:00 08:24-08:26/2	07:01	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:24/13	07:58 08:22-08:25/3	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56 08:20-08:25/5	06:57	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:10-09:26/16	07:54 08:18-08:23/5	06:55	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:27/17	07:52 08:16-08:25/9	06:52	06:44	05:51	05:29
	17:12	18:07	18:55	20:46	21:34	22:04
20	08:39 09:09-09:27/18	07:50 08:14-08:25/11	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:09-09:28/19	07:48 08:12-08:26/14	06:48	06:40	05:48	05:30
	17:16 09:05-09:06/1	18:11	18:59	20:50	21:37	22:04
22	08:37 09:09-09:29/20	07:46 08:10-08:26/16	06:46	06:38	05:47	05:30
	17:17 09:04-09:07/3	18:12	19:00	20:51	21:38	22:04
23	08:36 09:10-09:30/20	07:44 08:08-08:26/18	06:43	06:36	05:46	05:30
	17:19 09:03-09:07/4	18:14	19:02	20:53	21:39	22:04
24	08:35 09:09-09:29/20	07:42 08:06-08:25/19	06:41	06:34	05:44	05:30
	17:21 09:02-09:08/6	18:16	19:04	20:55	21:41	22:05
25	08:33 09:10-09:30/20	07:40 08:04-08:24/20	06:39	06:32	05:43	05:31
	17:22 09:00-09:07/7	18:18	19:05	20:56	21:42	22:05
26	08:32 09:11-09:30/19	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24 09:00-09:06/6	18:19 08:14-08:22/8	19:07	20:58	21:43	22:05
27	08:31 09:11-09:29/18	07:36 08:02-08:13/11	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:44	22:05
28	08:29 09:12-09:30/18	07:34 08:02-08:11/9	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:12-09:29/17		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 09:14-09:28/14		07:28	06:22	05:38	05:33
	17:31		20:14	21:04	21:48	22:04
31	08:25 09:15-09:27/12		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	329	185	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:10	06:59	07:46		07:38		08:27	
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:10-08:12/2	08:29	
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:13	07:02	07:49		07:42	08:09-08:14/5	08:30	
	22:03	21:28	20:26	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:15/4	08:31	
	22:02	21:27	20:24	19:16		17:14		16:40	
6	05:37	06:16	07:05	07:52		07:45	08:13-08:15/2	08:32	
	22:02	21:25	20:22	19:14		17:12		16:39	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:17/2	08:34	
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:19/2	08:35	
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	
	22:00	21:20	20:15	19:07		17:07		16:38	
10	05:41	06:23	07:11	07:59		07:52	08:48-08:56/8	08:37	
	21:59	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:46-08:58/12	08:38	
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:55	08:45-08:59/14	08:39	
	21:58	21:14	20:08	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04	08:36-08:43/7	07:57	08:44-09:01/17	08:40	
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06	08:34-08:44/10	07:59	08:44-09:02/18	08:41	
	21:56	21:10	20:04	18:57		17:00		16:38	
15	05:46	06:30	07:19	08:07	08:34-08:45/11	08:01	08:44-09:02/18	08:42	
	21:55	21:08	20:02	18:55	08:47-08:53/6	16:59		16:38	
16	05:48	06:32	07:21	08:09	08:34-08:54/20	08:02	08:44-09:03/19	08:43	
	21:54	21:07	19:59	18:52		16:57	08:33-08:39/6	16:38	
17	05:49	06:33	07:22	08:11	08:36-08:56/20	08:04	08:44-09:04/20	08:44	
	21:53	21:05	19:57	18:50		16:56	08:34-08:41/7	16:38	
18	05:50	06:35	07:24	08:12	08:38-08:57/19	08:06	08:43-09:03/20	08:44	
	21:52	21:03	19:55	18:48		16:55	08:36-08:42/6	16:39	
19	05:51	06:37	07:25	08:14	08:40-08:57/17	08:07	08:44-09:04/20	08:45	09:24-09:26/2
	21:51	21:01	19:53	18:46		16:53	08:37-08:41/4	16:39	
20	05:52	06:38	07:27	08:16	08:42-08:57/15	08:09	08:44-09:04/20	08:46	09:25-09:27/2
	21:50	20:59	19:50	18:44		16:52	08:39-08:42/3	16:39	
21	05:54	06:40	07:28	08:17	08:43-08:56/13	08:11	08:45-09:04/19	08:46	09:25-09:27/2
	21:49	20:56	19:48	18:42		16:51	08:41-08:42/1	16:40	
22	05:55	06:41	07:30	08:19	08:45-08:56/11	08:12	08:45-09:03/18	08:47	09:26-09:28/2
	21:48	20:54	19:46	18:40		16:50		16:40	
23	05:56	06:43	07:32	08:21	08:47-08:55/8	08:14	08:46-09:03/17	08:47	09:26-09:28/2
	21:46	20:52	19:43	18:38		16:49		16:41	
24	05:58	06:44	07:33	08:22	08:49-08:54/5	08:15	08:47-09:04/17	08:48	09:26-09:28/2
	21:45	20:50	19:41	18:36		16:48		16:41	
25	05:59	06:46	07:35	07:24	07:51-07:56/5	08:17	08:48-09:04/16	08:48	09:28-09:29/1
	21:44	20:48	19:39	17:34		16:47		16:42	
26	06:00	06:48	07:36	07:26	07:53-07:56/3	08:18	08:49-09:02/13	08:49	
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28	07:54-07:55/1	08:20	08:51-09:02/11	08:49	
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:39	07:29		08:21	08:53-09:02/9	08:49	
	21:39	20:42	19:32	17:28		16:44		16:44	
29	06:05	06:52	07:41	07:31		08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:43		16:45	
30	06:06	06:54	07:43	07:33		08:24		08:49	
	21:36	20:37	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35				08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	171		356		13	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: MVZ_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 08:50-08:56/6	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:55/7	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:55/9	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:46-08:55/9	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:47-08:53/6	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31
	16:53	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45 08:16-08:23/7	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:15-08:25/10	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:26/9	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50 08:19-08:26/7	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:39
10	08:47	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:21-08:27/6	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:23-08:27/4	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:24-08:26/2	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:27/1	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:38-08:45/7	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:37-08:47/10	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02 08:37-08:48/11	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04 08:36-08:49/13	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41 09:09-09:13/4	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06 08:35-08:49/14	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 09:08-09:14/6	07:52	06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:37-08:50/13	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39 09:06-09:14/8	07:50	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09 08:39-08:50/11	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38 09:05-09:14/9	07:48	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:50/9	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:40
22	08:37 09:04-09:15/11	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:51/8	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36 09:03-09:16/13	07:44	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:50/6	08:47
	17:19	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35 09:01-09:15/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15 08:46-08:50/4	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33 09:02-09:15/13	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:50/2	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32 09:04-09:15/11	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31 09:04-09:14/10	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29 09:06-09:13/7	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:21	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 08:54-08:55/1		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 08:51-08:55/4		07:25		05:37		06:08	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	115	37	0	0	0	0	0	0	0	0	154	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: MVZ_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24 08:50-08:57/7	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36 08:04-08:10/6	08:26
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22 08:48-08:57/9	07:30	07:21	06:18	05:36	05:34	06:10	06:59	07:46	07:38 08:06-08:11/5	08:27
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21 08:46-08:56/10	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40 08:07-08:10/3	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19 08:46-08:56/10	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42 08:09-08:10/1	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16	16:40
5	08:49	08:18 08:47-08:55/8	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43 08:18-08:23/5	08:31
	16:53	17:42	18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16 08:49-08:53/4	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45 08:17-08:25/8	08:32
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14 08:39-08:40/1	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47 08:16-08:26/10	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48	08:13 08:38-08:41/3	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 08:17-08:27/10	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11 08:36-08:41/5	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50 08:19-08:28/9	08:36
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:39
10	08:47	08:09 08:34-08:40/6	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 08:21-08:28/7	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07 08:32-08:39/7	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 08:22-08:27/5	08:38
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55 08:24-08:27/3	08:39
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:43	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:52	06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11	08:46
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:40
22	08:37	07:46	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18	08:48
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:21	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28 08:54-08:55/1		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27 08:53-08:56/3		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33 08:04-08:06/2	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43	16:46
31	08:25 08:51-08:56/5		07:25		05:37		06:08	06:55		07:35 08:02-08:09/7		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	9	70	0	0	0	0	0	0	0	9	72	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:26/6	08:24 08:50-08:54/4	07:32 07:55-08:17/22	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:27/7	08:22 08:48-08:52/4	07:30 07:53-08:18/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:27/7	08:21	07:28 07:51-07:52/1	07:19	06:16	05:35
	16:50	17:38	18:28 07:53-08:19/26	20:20	21:09	21:53
4	08:49 09:19-09:26/7	08:19	07:26 07:49-08:19/30	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:20-09:26/6	08:18	07:24 07:46-08:18/32	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:20-09:25/5	08:16	07:21 07:44-08:18/34	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:23-09:24/1	08:14	07:19 07:42-08:18/36	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13	07:17 07:40-08:18/38	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15 07:38-08:17/39	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13 07:37-08:15/38	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08	07:10 07:38-08:14/36	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08 07:39-07:52/13	06:59	06:01	05:30
	17:02	17:54	18:44 07:54-08:13/19	20:35	21:24	22:00
13	08:45	08:04	07:06 07:40-07:50/10	06:57	05:59	05:30
	17:03	17:56	18:45 07:56-08:10/14	20:37	21:25	22:01
14	08:44	08:02	07:04 07:58-08:06/8	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:23/3	06:57	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:22/4	06:55	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40	07:53 08:16-08:21/5	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 08:16-08:19/3	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:15/15	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:16/19	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	44	75	421	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:18-08:30/12	07:36	08:26
	22:04	21:33	20:33	19:25 08:33-08:51/18	17:21	16:42
2	05:34	06:11	06:59	07:46 08:17-08:52/35	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:15-08:53/38	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:15-08:54/39	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:54/38	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05	07:52 08:17-08:54/37	07:45	08:33 09:06-09:11/5
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:54/35	07:47	08:34 09:07-09:13/6
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:54/33	07:49	08:35 09:07-09:14/7
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:53/31	07:50 08:19-08:23/4	08:36 09:08-09:15/7
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:24-08:53/29	07:52 08:21-08:25/4	08:37 09:09-09:16/7
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:27-08:52/25	07:54 08:23-08:26/3	08:38 09:10-09:16/6
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 08:27-08:51/24	07:56 08:24-08:26/2	08:39 09:11-09:17/6
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:29-08:50/21	07:57	08:40 09:12-09:18/6
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 08:31-08:49/18	07:59	08:41 09:13-09:18/5
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07 08:33-08:47/14	08:01	08:42 09:14-09:19/5
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21	08:09 08:34-08:43/9	08:02	08:43 09:15-09:20/5
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04	08:44 09:16-09:20/4
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 08:38-08:39/1	08:06	08:44 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:21/4
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09	08:46 09:18-09:22/4
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17	08:11	08:46 09:18-09:22/4
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:45-08:50/5	08:12	08:47 09:19-09:23/4
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:47-08:52/5	08:14	08:47 09:19-09:23/4
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 08:49-08:53/4	08:15	08:48 09:19-09:23/4
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 07:51-07:54/3	08:17	08:48 09:20-09:24/4
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:54/1	08:19	08:49 09:20-09:24/4
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:25/5
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:29	08:22	08:49 09:20-09:25/5
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:41-08:45/4	07:31	08:23	08:49 09:20-09:25/5
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43 08:20-08:28/8	07:33	08:24	08:49 09:20-09:25/5
	21:37	20:38	19:28 08:35-08:48/13	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:20-09:26/6
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	25	477	13	131

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: NES_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24 16:55-17:06/11	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:45	07:37	08:26 15:57-16:09/12
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:26	17:21	16:42
2	08:50	08:23 16:55-17:07/12	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 15:58-16:09/11
	16:49	17:37	18:27	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49	08:21 16:55-17:09/14	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29 15:58-16:08/10
	16:50	17:38	18:28	20:20	21:10	21:53	22:04	21:30	20:29	19:21	17:18	16:41
4	08:49 16:16-16:18/2	08:19 16:56-17:11/15	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42 16:30-16:33/3	08:30 16:00-16:08/8
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16 16:39-16:45/6	16:41
5	08:49 16:16-16:19/3	08:18 16:57-17:07/10	07:24	07:14	06:13	05:34	05:37	06:15	07:04	07:51	07:44 16:27-16:36/9	08:31 16:00-16:07/7
	16:53	17:42 17:08-17:13/5	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:17	17:14 16:38-16:44/6	16:40
6	08:49 16:15-16:20/5	08:16 16:58-17:06/8	07:22	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45 16:26-16:37/11	08:33 16:01-16:06/5
	16:54	17:44 17:09-17:15/6	18:34	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12 16:38-16:43/5	16:40
7	08:48 16:15-16:22/7	08:15 17:10-17:15/5	07:19	07:10	06:10	05:33	05:39	06:18	07:07	07:54	07:47 16:26-16:41/15	08:34 16:03-16:06/3
	16:55	17:46	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48 16:15-16:23/8	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 16:25-16:39/14	08:35 16:04-16:06/2
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 16:15-16:25/10	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:58	07:50 16:25-16:38/13	08:36
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:16	19:08	17:08	16:39
10	08:47 16:15-16:26/11	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 16:26-16:36/10	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:06	17:06	16:39
11	08:46 16:14-16:27/13	08:08	07:11	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 16:25-16:34/9	08:38
	17:01	17:53	18:42	20:34	21:22	22:00	21:59	21:16	20:11	19:03	17:05	16:38
12	08:46 16:14-16:29/15	08:06	07:08	06:59	06:01	05:31	05:43	06:26	07:14	08:02	07:56 16:26-16:32/6	08:39
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 16:15-16:31/16	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57 16:27-16:31/4	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:02	16:38
14	08:44 16:15-16:32/17	08:02	07:04	06:55	05:58	05:30	05:46	06:29	07:18	08:06	07:59 16:28-16:29/1	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44 16:15-16:34/19	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43 16:16-16:32/16	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43
	17:08 16:33-16:36/3	18:02	18:51	20:42	21:30	22:03	21:55	21:07	20:00	18:53	16:57	16:38
17	08:42 16:16-16:33/17	07:57	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44
	17:09 16:34-16:37/3	18:04	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:51	16:56	16:39
18	08:41 16:17-16:33/16	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 15:57-16:04/7	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 16:17-16:33/16	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 15:55-16:06/11	08:45
	17:13	18:07	18:56	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39
20	08:39 16:18-16:33/15	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09 15:55-16:07/12	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40
21	08:38 16:18-16:32/14	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:18	08:11 15:54-16:08/14	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37 16:20-16:32/12	07:47	06:46	06:38	05:47	05:30	05:55	06:42	07:30	08:19	08:12 15:54-16:09/15	08:47
	17:18	18:13	19:01	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36 16:21-16:32/11	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14 15:53-16:09/16	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35 16:23-16:30/7	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:16 15:54-16:10/16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 15:54-16:11/17	08:48
	17:23	18:18	19:06	20:57	21:42	22:05	21:44	20:48	19:39	17:34	16:47 16:12-16:15/3	16:42
26	08:32	07:39	06:37	06:30	05:42	05:31	06:01	06:48	07:37	07:26	08:19 15:54-16:10/16	08:49
	17:24	18:20	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46 16:11-16:14/3	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 15:55-16:13/18	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:35	17:30	16:45	16:44
28	08:30 16:56-16:58/2	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22 15:55-16:12/17	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:29	16:44	16:44
29	08:28 16:55-16:59/4		07:30	06:24	05:39	05:33	06:05	06:53	07:41	07:31	08:23 15:55-16:11/16	08:49
	17:30		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:27	16:44	16:45
30	08:27 16:55-17:02/7		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25 15:56-16:11/15	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:26 16:54-17:03/9		07:26		05:37		06:08	06:56		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	278	86	0	0	0	0	0	0	0	0	308	58

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April	May	June
1	08:49		08:24	08:50-08:57/7	07:32		07:23	06:20	05:36
	16:48		17:35	09:06-09:28/22	18:25		20:17	21:06	21:50
2	08:49		08:22	08:48-08:56/8	07:30		07:21	06:18	05:36
	16:49		17:36	09:07-09:27/20	18:26		20:19	21:08	21:51
3	08:49		08:21	08:46-08:55/9	07:28		07:19	06:16	05:35
	16:50		17:38	09:08-09:26/18	18:28		20:20	21:09	21:52
4	08:49		08:19	08:45-08:55/10	07:26		07:16	06:15	05:34
	16:51		17:40	09:10-09:25/15	18:30		20:22	21:11	21:53
5	08:49		08:18	08:43-08:55/12	07:24		07:14	06:13	05:34
	16:53		17:42	09:13-09:22/9	18:32		20:24	21:13	21:54
6	08:49		08:16	08:41-08:56/15	07:21		07:12	06:11	05:33
	16:54		17:44		18:33		20:25	21:14	21:55
7	08:48		08:14	08:39-08:56/17	07:19	07:42-07:43/1	07:10	06:09	05:32
	16:55		17:45		18:35		20:27	21:16	21:56
8	08:48		08:13	08:38-08:56/18	07:17	07:40-07:41/1	07:08	06:08	05:32
	16:56		17:47		18:37		20:28	21:17	21:57
9	08:47	09:17-09:18/1	08:11	08:36-08:56/20	07:15		07:05	06:06	05:31
	16:58		17:49		18:38		20:30	21:19	21:58
10	08:47	09:16-09:18/2	08:09	08:34-08:55/21	07:13		07:03	06:04	05:31
	16:59		17:51		18:40		20:32	21:20	21:59
11	08:46	09:15-09:18/3	08:07	08:37-08:55/18	07:10		07:01	06:03	05:31
	17:00		17:53		18:42		20:33	21:22	21:59
12	08:46	09:14-09:19/5	08:06	08:38-08:54/16	07:08		06:59	06:01	05:30
	17:02		17:54		18:44		20:35	21:23	22:00
13	08:45	09:14-09:19/5	08:04	08:39-08:52/13	07:06		06:57	05:59	05:30
	17:03		17:56		18:45		20:37	21:25	22:01
14	08:44	09:13-09:21/8	08:02	08:42-08:50/8	07:04		06:55	05:58	05:30
	17:05		17:58		18:47		20:38	21:27	22:01
15	08:44	09:12-09:22/10	08:00		07:01		06:52	05:56	05:30
	17:06		18:00		18:49		20:40	21:28	22:02
16	08:43	09:11-09:23/12	07:58	08:22-08:23/1	06:59		06:50	05:55	05:30
	17:08		18:02		18:50		20:42	21:29	22:02
17	08:42	09:10-09:24/14	07:56	08:20-08:22/2	06:57		06:48	05:53	05:30
	17:09		18:03		18:52		20:43	21:31	22:03
18	08:41	09:09-09:25/16	07:54	08:18-08:19/1	06:55		06:46	05:52	05:30
	17:11		18:05		18:54		20:45	21:32	22:03
19	08:40	09:08-09:26/18	07:53		06:53		06:44	05:51	05:30
	17:12		18:07		18:55		20:47	21:34	22:04
20	08:39	09:06-09:26/20	07:51		06:50		06:42	05:49	05:30
	17:14		18:09		18:57		20:48	21:35	22:04
21	08:38	09:05-09:27/22	07:49		06:48		06:40	05:48	05:30
	17:16		18:11		18:59		20:50	21:37	22:04
22	08:37	09:04-09:28/24	07:47		06:46		06:38	05:47	05:30
	17:17		18:12		19:00		20:51	21:38	22:04
23	08:36	09:03-09:28/25	07:45		06:43		06:36	05:46	05:30
	17:19		18:14		19:02		20:53	21:39	22:05
24	08:35	09:02-09:28/26	07:42		06:41		06:34	05:44	05:30
	17:21		18:16		19:04		20:55	21:41	22:05
25	08:33	09:02-09:29/27	07:40		06:39		06:32	05:43	05:31
	17:22		18:18		19:05		20:56	21:42	22:05
26	08:32	09:03-09:29/26	07:38		06:37		06:30	05:42	05:31
	17:24		18:19		19:07		20:58	21:43	22:05
27	08:31	09:03-09:29/26	07:36		06:34		06:28	05:41	05:32
	17:26		18:21		19:09		21:00	21:45	22:05
28	08:30	08:56-08:57/1	07:34		06:32		06:26	05:40	05:32
	17:28	09:03-09:30/27	18:23		19:10		21:01	21:46	22:05
29	08:28	08:54-08:57/3			07:30		06:24	05:39	05:33
	17:29	09:03-09:29/26			20:12		21:03	21:47	22:04
30	08:27	08:53-08:58/5			07:28		06:22	05:38	05:33
	17:31	09:05-09:29/24			20:14		21:05	21:48	22:04
31	08:25	08:51-08:57/6			07:25			05:37	
	17:33	09:05-09:28/23			20:15			21:49	
Potential sun hours	262		279		367		414	482	494
Sum of minutes with flicker	405		280		2		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34		06:09		06:57		07:44		07:36	08:04-08:25/21	08:26	08:57-09:00/3
	22:04		21:33		20:33		19:25		17:21		16:42	
2	05:34		06:11		06:59		07:46		07:38	08:06-08:26/20	08:27	08:59-09:01/2
	22:04		21:32		20:31		19:23		17:19		16:41	
3	05:35		06:12		07:00		07:48		07:40	08:07-08:25/18	08:29	09:00-09:01/1
	22:03		21:30		20:29		19:21		17:17		16:41	
4	05:36		06:14		07:02		07:49		07:42	08:09-08:25/16	08:30	
	22:03		21:29		20:27		19:19		17:16		16:40	
5	05:37		06:15		07:03		07:51		07:43	08:11-08:25/14	08:31	
	22:03		21:27		20:24		19:16		17:14		16:40	
6	05:38		06:17		07:05		07:52	08:17-08:18/1	07:45	08:13-08:25/12	08:32	
	22:02		21:25		20:22		19:14		17:12	08:42-08:52/10	16:39	
7	05:38		06:18		07:06		07:54		07:47	08:15-08:25/10	08:34	
	22:01		21:23		20:20		19:12		17:11	08:40-08:55/15	16:39	
8	05:39		06:20		07:08		07:56		07:49	08:17-08:26/9	08:35	
	22:01		21:22		20:18		19:10		17:09	08:39-08:57/18	16:39	
9	05:40		06:21		07:10		07:57		07:50	08:19-08:27/8	08:36	
	22:00		21:20		20:15		19:08		17:07	08:38-08:58/20	16:39	
10	05:41		06:23		07:11		07:59		07:52	08:21-08:28/7	08:37	
	22:00		21:18		20:13		19:05		17:06	08:37-08:59/22	16:38	
11	05:42		06:24		07:13		08:01		07:54	08:23-08:29/6	08:38	
	21:59		21:16		20:11		19:03		17:04	08:36-08:59/23	16:38	
12	05:43		06:26		07:14		08:02		07:55	08:24-08:29/5	08:39	
	21:58		21:14		20:09		19:01		17:03	08:35-09:00/25	16:38	
13	05:44		06:27		07:16		08:04		07:57	08:26-08:29/3	08:40	
	21:57		21:12		20:06		18:59		17:01	08:35-09:01/26	16:38	
14	05:45		06:29		07:17		08:06		07:59	08:28-08:29/1	08:41	
	21:56		21:10		20:04		18:57		17:00	08:35-09:01/26	16:38	
15	05:46		06:30		07:19		08:07		08:01	08:36-09:02/26	08:42	
	21:55		21:09		20:02		18:55		16:59		16:38	
16	05:48		06:32		07:21		08:09		08:02	08:36-09:02/26	08:43	
	21:54		21:07		19:59		18:52		16:57		16:38	
17	05:49		06:34		07:22		08:11		08:04	08:36-09:03/27	08:44	
	21:53		21:05		19:57		18:50		16:56		16:38	
18	05:50		06:35		07:24		08:12		08:06	08:36-09:02/26	08:44	
	21:52		21:03		19:55		18:48		16:55		16:39	
19	05:51		06:37		07:25		08:14		08:07	08:37-09:02/25	08:45	
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52		06:38		07:27		08:16		08:09	08:39-09:03/24	08:46	
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54		06:40		07:28		08:17		08:11	08:41-09:03/22	08:46	
	21:49		20:57		19:48		18:42		16:51		16:40	
22	05:55		06:41		07:30		08:19		08:12	08:43-09:03/20	08:47	
	21:48		20:54		19:46		18:40		16:50		16:40	
23	05:56		06:43		07:32		08:21		08:14	08:44-09:02/18	08:47	
	21:46		20:52		19:43		18:38		16:49		16:41	
24	05:58		06:44		07:33		08:23	08:49-08:51/2	08:15	08:46-09:02/16	08:48	
	21:45		20:50		19:41		18:36		16:48		16:41	
25	05:59		06:46		07:35		07:24	07:51-07:53/2	08:17	08:48-09:02/14	08:48	
	21:44		20:48		19:39		17:34		16:47		16:42	
26	06:00		06:48		07:36		07:26	07:53-07:54/1	08:19	08:49-09:01/12	08:49	
	21:42		20:46		19:37		17:32		16:46		16:43	
27	06:02		06:49		07:38		07:28		08:20	08:51-09:01/10	08:49	
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03		06:51		07:40		07:29	08:11-08:20/9	08:22	08:53-09:01/8	08:49	
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05		06:52		07:41		07:31	08:09-08:22/13	08:23	08:54-09:00/6	08:49	
	21:38		20:40		19:30		17:26		16:44		16:45	
30	06:06		06:54		07:43		07:33	08:08-08:23/15	08:24	08:56-09:00/4	08:49	
	21:37		20:38		19:28		17:25		16:43		16:46	
31	06:08		06:55				07:35	08:07-08:24/17			08:49	
	21:35		20:35				17:23				16:47	
Potential sun hours	498		451		380		333		269		248	
Sum of minutes with flicker	0		0		0		60		619		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:31-09:50/19	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26 08:57-08:58/1
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42 09:23-09:30/7
2	08:49 09:32-09:51/19	08:22	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27 09:22-09:32/10
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49 09:31-09:50/19	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40 08:08-08:09/1	08:29 09:21-09:33/12
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49 09:33-09:51/18	08:19	07:26	07:16	06:15	05:34	05:36	06:14	07:02	07:49	07:42 08:09-08:10/1	08:30 09:21-09:35/14
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49 09:34-09:51/17	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31 09:21-09:36/15
	16:53	17:42	18:32	20:24	21:13	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:49 09:34-09:50/16	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:52	07:45	08:32 09:20-09:36/16
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48 09:35-09:51/16	08:14 08:39-08:40/1	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34 09:20-09:37/17
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:36-09:50/14	08:13 08:38-08:39/1	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35 09:21-09:39/18
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:38-09:50/12	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36 09:21-09:39/18
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47 09:39-09:49/10	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:21-09:40/19
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46 09:15-09:16/1	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:21-09:40/19
	17:00 09:41-09:48/7	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:14-09:17/3	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55	08:39 09:21-09:41/20
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 09:14-09:18/4	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:30/4	08:40 09:21-09:41/20
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:13-09:19/6	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:28-08:32/4	08:41 09:22-09:42/20
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44 09:12-09:20/8	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:30-08:33/3	08:42 09:22-09:43/21
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59 08:44-08:50/6	16:38
16	08:43 09:11-09:20/9	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:35-08:36/1	08:02 08:32-08:34/2	08:43 09:23-09:44/21
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57 08:42-08:52/10	16:38 09:17-09:19/2
17	08:42 09:10-09:21/11	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04 08:42-08:54/12	08:44 09:23-09:44/21
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39 09:17-09:20/3
18	08:41 09:09-09:21/12	07:54	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 08:40-08:54/14	08:44 09:23-09:44/21
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39 09:16-09:21/5
19	08:40 09:08-09:22/14	07:52	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:40-08:56/16	08:45 09:24-09:45/21
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39 09:17-09:22/5
20	08:39 09:07-09:22/15	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09 08:40-08:56/16	08:46 09:25-09:46/21
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39 09:18-09:23/5
21	08:38 09:05-09:21/16	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:57/16	08:46 09:24-09:46/22
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40 09:18-09:23/5
22	08:37 09:05-09:21/16	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:58/15	08:47 09:25-09:47/22
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40 09:19-09:24/5
23	08:36 09:06-09:22/16	07:45	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:58/14	08:47 09:26-09:47/21
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41 09:19-09:24/5
24	08:35 09:06-09:20/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:15 08:46-08:58/12	08:48 09:26-09:47/21
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41 09:19-09:24/5
25	08:33 09:08-09:20/12	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:59/11	08:48 09:27-09:48/21
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42 09:20-09:25/5
26	08:32 08:59-09:01/2	07:38 08:02-08:03/1	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18 08:49-08:58/9	08:49 09:27-09:48/21
	17:24 09:09-09:19/10	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43 09:20-09:25/5
27	08:31 08:57-09:00/3	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 08:51-08:59/8	08:49 09:27-09:48/21
	17:26 09:11-09:17/6	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43 09:21-09:24/3
28	08:30 08:56-09:00/4	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22 08:53-08:59/6	08:49 09:28-09:49/21
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44 09:23-09:24/1
29	08:28 08:54-08:58/4		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 08:54-08:59/5	08:49 09:28-09:49/21
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 08:56-08:59/3	08:49 09:29-09:49/20
	17:31		20:14	21:04	21:48	22:04	21:37	20:37	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:55		07:35		08:49 09:30-09:50/20
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	353	3	0	0	0	0	0	0	0	1	188	637

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:48/28	08:24	07:32 07:55-07:59/4	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:49/29	08:22	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:49/29	08:21 08:46-08:47/1	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49 09:19-09:50/31	08:19 08:45-08:48/3	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49 09:19-09:50/31	08:18 08:43-08:47/4	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:18-09:50/32	08:16 08:41-08:46/5	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:51/33	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:51/34	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:17-09:52/35	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:17-09:51/34	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:18-09:51/33	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:20-09:51/31	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 09:21-09:28/7	08:04	07:06	06:57	05:59	05:30
	17:03 09:30-09:52/22	17:56	18:45	20:37	21:25	22:01
14	08:44 09:23-09:27/4	08:02	07:04	06:55	05:58	05:30
	17:05 09:31-09:52/21	17:58	18:47	20:38	21:27	22:01
15	08:44 09:31-09:51/20	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:32-09:51/19	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:54	05:30
	17:09 09:34-09:50/16	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:12/3	07:54	06:55	06:46	05:52	05:30
	17:11 09:35-09:49/14	18:05	18:54	20:45	21:32	22:03
19	08:40 09:08-09:13/5	07:53	06:53	06:44	05:51	05:30
	17:12 09:37-09:48/11	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:13/6	07:51	06:50	06:42	05:49	05:30
	17:14 09:40-09:46/6	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:12/7	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:04-09:12/8	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:12/9	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:02-09:12/10	07:43	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:02-09:10/8	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 09:06-09:08/2	07:38 08:02-08:04/2	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:03/3	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:01/4	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	580	27	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	09:00-09:33/33
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	09:00-09:34/34
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40		08:29	09:00-09:35/35
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:14/5	08:30	09:02-09:36/34
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:16/5	08:31	09:03-09:36/33
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52		07:45	08:13-08:17/4	08:33	09:04-09:36/32
	22:02	21:25	20:22	19:14		17:12		16:40	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:18/3	08:34	09:06-09:37/31
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:18/1	08:35	09:07-09:38/31
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	09:08-09:38/30
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52		08:37	09:09-09:38/29
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54		08:38	09:10-09:39/29
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:56		08:39	09:11-09:39/28
	21:58	21:14	20:09	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04	08:29-08:33/4	07:57		08:40	09:12-09:39/27
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06	08:31-08:35/4	07:59		08:41	09:13-09:40/27
	21:56	21:11	20:04	18:57		17:00		16:38	
15	05:47	06:30	07:19	08:07	08:33-08:36/3	08:01		08:42	09:14-09:40/26
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09	08:35-08:36/1	08:02	08:38-08:42/4	08:43	09:15-09:41/26
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-08:44/8	08:44	09:16-09:42/26
	21:53	21:05	19:57	18:50		16:56		16:39	
18	05:50	06:35	07:24	08:12		08:06	08:36-08:46/10	08:44	09:16-09:41/25
	21:52	21:03	19:55	18:48		16:55		16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-08:46/9	08:45	09:17-09:42/25
	21:51	21:01	19:53	18:46		16:53		16:39	
20	05:53	06:38	07:27	08:16		08:09	08:39-08:47/8	08:46	09:18-09:43/25
	21:50	20:59	19:50	18:44		16:52		16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-08:48/7	08:46	09:18-09:43/25
	21:49	20:57	19:48	18:42		16:51		16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-08:49/6	08:47	09:19-09:44/25
	21:48	20:55	19:46	18:40		16:50	09:16-09:22/6	16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-08:49/5	08:47	09:19-09:44/25
	21:46	20:52	19:44	18:38		16:49	09:13-09:24/11	16:41	
24	05:58	06:45	07:33	08:23		08:15	08:46-08:49/3	08:48	09:19-09:44/25
	21:45	20:50	19:41	18:36		16:48	09:12-09:26/14	16:41	
25	05:59	06:46	07:35	07:24		08:17	08:48-08:50/2	08:48	09:20-09:45/25
	21:44	20:48	19:39	17:34		16:47	09:12-09:28/16	16:42	
26	06:01	06:48	07:36	07:26		08:19	09:11-09:29/18	08:49	09:20-09:46/26
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28		08:20	09:11-09:30/19	08:49	09:20-09:46/26
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:40	07:29		08:22	09:04-09:06/2	08:49	09:20-09:46/26
	21:40	20:42	19:32	17:28		16:44	09:11-09:32/21	16:44	
29	06:05	06:52	07:41	07:31		08:23	09:01-09:08/7	08:49	09:20-09:47/27
	21:38	20:40	19:30	17:26		16:44	09:10-09:32/22	16:45	
30	06:06	06:54	07:43	07:33		08:24	09:01-09:33/32	08:49	09:20-09:47/27
	21:37	20:38	19:28	17:25		16:43		16:46	
31	06:08	06:56		07:35				08:49	09:20-09:48/28
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	12		248		871	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT01 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20 06:44-06:46/2	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:42-06:44/2	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:40-06:42/2	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22 06:50-06:52/2	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24 06:51-06:53/2	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25 06:53-06:54/1	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36 07:03-07:05/2	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38 07:05-07:07/2	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:40 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38 07:01-07:03/2	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35 06:59-07:01/2	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33 06:57-06:59/2	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	6	6	0	0	10	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April		May		June	
1	08:49	08:24	07:32	07:23		06:20		05:36	06:04-06:06/2
	16:48	17:34	18:24	20:17		21:06		21:50	
2	08:49	08:22	07:30	07:21		06:18		05:35	06:04-06:06/2
	16:49	17:36	18:26	20:18		21:08		21:51	
3	08:49	08:21	07:28	07:19		06:16		05:35	06:03-06:05/2
	16:50	17:38	18:28	20:20		21:09		21:52	
4	08:49	08:19	07:26	07:16		06:14		05:34	
	16:51	17:40	18:30	20:22		21:11		21:53	
5	08:49	08:18	07:23	07:14		06:13		05:33	
	16:52	17:42	18:31	20:23		21:13		21:54	
6	08:49	08:16	07:21	07:12	07:34-07:36/2	06:11		05:33	
	16:53	17:43	18:33	20:25		21:14		21:55	
7	08:48	08:14	07:19	07:10	07:32-07:36/4	06:09		05:32	
	16:55	17:45	18:35	20:27		21:16		21:56	
8	08:48	08:13	07:17	07:07	07:30-07:35/5	06:07		05:32	
	16:56	17:47	18:37	20:28		21:17		21:57	
9	08:47	08:11	07:15	07:05	07:28-07:34/6	06:06		05:31	
	16:57	17:49	18:38	20:30		21:19		21:58	
10	08:47	08:09	07:12	07:03		06:04	06:29-06:30/1	05:31	
	16:59	17:51	18:40	20:32		21:20		21:59	
11	08:46	08:07	07:10	07:01		06:02		05:30	
	17:00	17:52	18:42	20:33		21:22		21:59	
12	08:46	08:06	07:08	06:59		06:01		05:30	
	17:01	17:54	18:43	20:35		21:23		22:00	
13	08:45	08:04	07:06	06:57		05:59		05:30	
	17:03	17:56	18:45	20:37		21:25		22:01	
14	08:44	08:02	07:04	06:54		05:58		05:30	
	17:04	17:58	18:47	20:38		21:26		22:01	
15	08:44	08:00	07:01	06:52	07:15-07:17/2	05:56		05:29	
	17:06	18:00	18:49	20:40		21:28		22:02	
16	08:43	07:58	06:59	06:50	07:13-07:17/4	05:55		05:29	
	17:07	18:01	18:50	20:42		21:29		22:02	
17	08:42	07:56	06:57	06:48	07:11-07:16/5	05:53		05:29	
	17:09	18:03	18:52	20:43		21:31		22:03	
18	08:41	07:54	06:55	06:46	07:09-07:15/6	05:52		05:29	
	17:11	18:05	18:54	20:45		21:32		22:03	
19	08:40	07:52	06:52	06:44	07:10-07:12/2	05:50		05:29	
	17:12	18:07	18:55	20:46		21:34		22:04	
20	08:39	07:50	06:50	06:42		05:49		05:29	
	17:14	18:09	18:57	20:48		21:35		22:04	
21	08:38	07:48	06:48	06:40		05:48		05:29	
	17:15	18:10	18:59	20:50		21:37		22:04	
22	08:37	07:46	06:46	06:38		05:47		05:30	
	17:17	18:12	19:00	20:51		21:38		22:04	
23	08:36	07:44	06:43	06:36		05:45		05:30	
	17:19	18:14	19:02	20:53		21:39		22:05	
24	08:35	07:42	06:41	06:33		05:44		05:30	
	17:20	18:16	19:04	20:55		21:41		22:05	
25	08:33	07:40	06:39	06:31		05:43		05:30	
	17:22	18:17	19:05	20:56		21:42		22:05	
26	08:32	07:38	06:37	06:29		05:42		05:31	
	17:24	18:19	19:07	20:58		21:43		22:05	
27	08:31	07:36	06:34	06:28		05:41		05:31	
	17:26	18:21	19:09	21:00		21:45		22:05	
28	08:30	07:34	06:32	06:26		05:40		05:32	
	17:27	18:23	19:10	21:01		21:46		22:05	
29	08:28		07:30	06:24		05:39	06:07-06:08/1	05:32	
	17:29		20:12	21:03		21:47		22:04	
30	08:27		07:28	06:22		05:38	06:06-06:07/1	05:33	
	17:31		20:13	21:04		21:48		22:04	
31	08:25		07:25			05:37	06:05-06:07/2		
	17:33		20:15			21:49			
Potential sun hours	262	279	367	415		482		495	
Sum of minutes with flicker	0	0	0	36		5		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10		06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12	06:40-06:41/1	07:00	07:26-07:32/6	07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02	07:27-07:32/5	07:49	07:42	08:30
	22:03		21:29		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03	07:29-07:33/4	07:51	07:43	08:31
	22:03		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05	07:30-07:32/2	07:52	07:45	08:32
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06		07:54	07:47	08:34
	22:01		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08		07:56	07:49	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41	06:11-06:13/2	06:22		07:11		07:59	07:52	08:37
	22:00		21:18		20:13		19:05	17:06	16:38
11	05:42	06:12-06:14/2	06:24		07:13		08:01	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43	06:13-06:15/2	06:25		07:14		08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44	06:14-06:15/1	06:27		07:16		08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45	06:15-06:16/1	06:29		07:17		08:06	07:59	08:41
	21:56		21:10		20:04		18:57	17:00	16:38
15	05:46		06:30		07:19		08:07	08:01	08:42
	21:55		21:08		20:02		18:54	16:58	16:38
16	05:47		06:32		07:20		08:09	08:02	08:43
	21:54		21:07		19:59		18:52	16:57	16:38
17	05:48		06:33		07:22		08:11	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50		06:35		07:24		08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51		06:36		07:25		08:14	08:07	08:45
	21:51		21:01		19:52		18:46	16:53	16:39
20	05:52		06:38		07:27		08:16	08:09	08:46
	21:50		20:59		19:50		18:44	16:52	16:39
21	05:53		06:40		07:28		08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55		06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56		06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44	07:14-07:17/3	07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46	07:12-07:18/6	07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47	07:14-07:19/5	07:36		07:26	08:18	08:49
	21:42		20:46		19:36		17:32	16:46	16:42
27	06:02		06:49	07:15-07:19/4	07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51	07:17-07:19/2	07:39		07:29	08:22	08:49
	21:40		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52		07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54		07:43		07:33	08:24	08:49
	21:37		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:23		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	8		21		17		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14 07:37-07:38/1	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06 07:32-07:33/1	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57 07:19-07:21/2	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:22/5	05:58	05:30	05:45	06:29 06:59-07:05/6	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52 07:15-07:22/7	05:56	05:29	05:46	06:30 06:57-07:06/9	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:21/8	05:55	05:29	05:47	06:32 06:59-07:07/8	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:12-07:20/8	05:53	05:29	05:48	06:33 07:00-07:07/7	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46 07:13-07:18/5	05:52	05:29	05:50	06:35 07:02-07:07/5	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51 06:20-06:22/2	06:36 07:03-07:06/3	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52 06:21-06:23/2	06:38 07:05-07:06/1	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48 06:14-06:15/1	05:29	05:53 06:23-06:25/2	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:47 06:13-06:15/2	05:30	05:55 06:24-06:26/2	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36 06:59-07:01/2	05:45 06:12-06:14/2	05:30	05:56 06:25-06:26/1	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:34 06:57-07:00/3	05:44 06:11-06:13/2	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32 06:55-07:00/5	05:43	05:30	05:59	06:46 07:16-07:21/5	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30 06:53-07:00/7	05:42	05:31	06:00	06:47 07:14-07:23/9	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28 06:51-06:59/8	05:41	05:31	06:02	06:49 07:15-07:23/8	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26 06:49-06:58/9	05:40	05:32	06:03	06:51 07:17-07:23/6	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:51-06:57/6	05:39	05:32	06:04	06:52 07:18-07:23/5	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54 07:20-07:22/2	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	76	7	0	9	74	1	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 08:58-09:13/15	07:32	07:23 07:45-07:53/8	06:20 06:44-06:47/3	05:36
	16:48	17:35	18:25	20:17	21:06 06:53-07:23/30	21:50
2	08:49	08:22 08:59-09:12/13	07:30	07:21 07:43-07:55/12	06:18 06:42-06:46/4	05:35
	16:49	17:36	18:26	20:19	21:08 06:53-07:22/29	21:51
3	08:49	08:21 09:01-09:10/9	07:28	07:19 07:41-07:55/14	06:16 06:41-06:46/5	05:35
	16:50	17:38	18:28	20:20	21:09 06:53-07:22/29	21:52
4	08:49	08:19 09:04-09:08/4	07:26	07:16 07:39-07:56/17	06:14 06:39-06:44/5	05:34
	16:51	17:40 08:45-08:46/1	18:30	20:22	21:11 06:53-07:22/29	21:53
5	08:49	08:18 08:43-08:46/3	07:23	07:14 07:37-07:56/19	06:13 06:53-07:21/28	05:33
	16:52	17:42	18:32	20:23	21:13	21:54
6	08:49	08:16 08:41-08:46/5	07:21	07:12 07:35-07:55/20	06:11 06:53-07:20/27	05:33
	16:54	17:43	18:33	20:25	21:14	21:55
7	08:48 09:18-09:19/1	08:14 08:39-08:47/8	07:19	07:10 07:35-07:55/20	06:09 06:54-07:20/26	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13 08:38-08:48/10	07:17	07:08 07:35-07:54/19	06:07 06:32-06:33/1	05:32
	16:56	17:47	18:37	20:28	21:17 06:55-07:19/24	21:57
9	08:47 09:17-09:21/4	08:11 08:36-08:48/12	07:15 07:38-07:39/1	07:05 07:28-07:29/1	06:06 06:31-06:34/3	05:31
	16:57	17:49	18:38	20:30 07:35-07:53/18	21:19 06:56-07:18/22	21:58
10	08:47 09:16-09:21/5	08:09 08:34-08:48/14	07:13 07:35-07:39/4	07:03 07:36-07:52/16	06:04 06:29-06:34/5	05:31
	16:59	17:51	18:40	20:32	21:20 06:57-07:17/20	21:59
11	08:46 09:15-09:22/7	08:07 08:32-08:47/15	07:10 07:33-07:39/6	07:01 07:37-07:49/12	06:02 06:28-06:36/8	05:30
	17:00	17:53	18:42	20:33	21:22 06:58-07:16/18	21:59
12	08:46 09:15-09:23/8	08:06 08:33-08:46/13	07:08 07:31-07:38/7	06:59 07:39-07:46/7	06:01 06:26-06:36/10	05:30
	17:02	17:54	18:44	20:35	21:23 06:59-07:14/15	22:00
13	08:45 09:14-09:24/10	08:04 08:34-08:45/11	07:06 07:28-07:37/9	06:57	05:59 06:25-06:37/12	05:30
	17:03	17:56	18:45	20:37	21:25 07:02-07:12/10	22:01
14	08:44 09:13-09:24/11	08:02 08:35-08:43/8	07:04 07:26-07:34/8	06:54	05:58 06:23-06:36/13	05:30
	17:04	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:01 07:24-07:31/7	06:52	05:56 06:22-06:37/15	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:25/14	07:58	06:59 07:22-07:32/10	06:50	05:55 06:21-06:37/16	05:29
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56	06:57 07:19-07:31/12	06:48	05:53 06:19-06:36/17	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:25/16	07:54	06:55 07:17-07:31/14	06:46	05:52 06:19-06:36/17	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:25/15	07:52	06:52 07:15-07:31/16	06:44	05:51 06:19-06:36/17	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:09/2	07:50	06:50 07:16-07:30/14	06:42 07:08-07:13/5	05:49 06:20-06:36/16	05:29
	17:14 09:11-09:25/14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:09/4	07:49	06:48 07:16-07:27/11	06:40 07:04-07:17/13	05:48 06:19-06:35/16	05:30
	17:16 09:11-09:24/13	18:10	18:59	20:50	21:37	22:04
22	08:37 09:04-09:11/7	07:46	06:46 07:18-07:25/7	06:38 07:01-07:19/18	05:47 06:20-06:35/15	05:30
	17:17 09:12-09:24/12	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:12/9	07:44	06:43 07:06-07:08/2	06:36 06:59-07:20/21	05:45 06:21-06:34/13	05:30
	17:19 09:14-09:23/9	18:14	19:02	20:53	21:39	22:05
24	08:35 09:01-09:12/11	07:42	06:41 07:04-07:07/3	06:34 06:58-07:21/23	05:44 06:22-06:33/11	05:30
	17:21 09:15-09:21/6	18:16	19:04	20:55	21:41	22:05
25	08:33 09:00-09:13/13	07:40	06:39 07:01-07:05/4	06:32 06:56-07:22/26	05:43 06:23-06:32/9	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 08:59-09:14/15	07:38	06:37	06:30 06:55-07:22/27	05:42 06:25-06:30/5	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 08:57-09:14/17	07:36	06:34	06:28 06:54-07:22/28	05:41	05:31
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 08:56-09:14/18	07:34	06:32	06:26 06:54-07:22/28	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28 08:56-09:14/18		07:30	06:24 06:54-07:23/29	05:39	05:32
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:57-09:14/17		07:28 07:50-07:51/1	06:22 06:46-06:47/1	05:38	05:33
	17:31		20:14	21:04 06:54-07:23/29	21:48	22:04
31	08:25 08:57-09:13/16		07:25 07:48-07:52/4		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	322	141	140	431	543	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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NL-1082 MS Amsterdam
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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 06:37-06:46/9 21:33 07:09-07:25/16	06:57 07:37-07:49/12 20:33	07:44 08:09-08:17/8 19:25	07:36 08:04-08:17/13 17:21	08:26 08:57-09:04/7 16:42
2	05:34 22:04	06:10 06:39-06:46/7 21:32 07:07-07:26/19	06:59 07:34-07:50/16 20:31	07:46 08:11-08:17/6 19:23	07:38 08:06-08:17/11 17:19	08:27 08:59-09:05/6 16:41
3	05:35 22:03	06:12 06:40-06:44/4 21:30 07:07-07:28/21	07:00 07:26-07:27/1 20:29 07:33-07:51/18	07:48 08:12-08:17/5 19:21	07:40 08:07-08:16/9 17:17	08:29 09:00-09:04/4 16:41
4	05:36 22:03	06:13 06:41-06:43/2 21:29 07:05-07:28/23	07:02 07:32-07:51/19 20:26	07:49 08:14-08:16/2 19:19	07:42 08:09-08:16/7 17:16	08:30 09:02-09:05/3 16:40
5	05:37 22:03	06:15 07:05-07:30/25 21:27	07:03 07:32-07:52/20 20:24	07:51 19:16	07:43 08:11-08:16/5 17:14	08:31 09:03-09:04/1 16:40
6	05:37 22:02	06:16 07:04-07:30/26 21:25	07:05 07:31-07:51/20 20:22	07:52 19:14	07:45 08:13-08:15/2 17:12	08:33 16:39
7	05:38 22:01	06:18 07:04-07:31/27 21:23	07:06 07:32-07:51/19 20:20	07:54 19:12	07:47 08:34-08:38/4 17:10 08:15-08:16/1	08:34 16:39
8	05:39 22:01	06:19 07:03-07:31/28 21:22	07:08 07:33-07:50/17 20:18	07:56 19:10	07:49 08:31-08:41/10 17:09	08:35 16:39
9	05:40 22:00	06:21 06:49-06:54/5 21:20 07:02-07:31/29	07:10 07:35-07:50/15 20:15	07:57 19:07	07:50 08:30-08:43/13 17:07	08:36 16:38
10	05:41 22:00	06:23 06:50-06:55/5 21:18 07:02-07:31/29	07:11 07:36-07:48/12 20:13	07:59 19:05	07:52 08:29-08:44/15 17:06	08:37 16:38
11	05:42 21:59	06:24 06:51-06:55/4 21:16 07:01-07:31/30	07:13 07:38-07:47/9 20:11	08:01 19:03	07:54 08:29-08:45/16 17:04	08:38 16:38
12	05:43 21:58	06:26 06:53-06:55/2 21:14 07:02-07:31/29	07:14 07:39-07:44/5 20:08	08:02 19:01	07:55 08:28-08:45/17 17:03	08:39 16:38
13	05:44 21:57	06:27 06:54-06:55/1 21:12 07:01-07:31/30	07:16 07:41-07:42/1 20:06	08:04 18:59	07:57 08:28-08:46/18 17:01	08:40 16:38
14	05:45 21:56	06:29 07:02-07:31/29 21:10	07:17 20:04	08:06 18:57	07:59 08:28-08:46/18 17:00	08:41 16:38
15	05:46 21:55	06:30 07:01-07:30/29 21:09	07:19 20:02	08:07 18:54	08:01 08:30-08:46/16 16:58	08:42 16:38
16	05:47 21:54	06:32 07:02-07:30/28 21:07	07:20 19:59	08:09 18:52	08:02 08:32-08:47/15 16:57	08:43 16:38
17	05:49 21:53	06:33 07:02-07:29/27 21:05	07:22 19:57	08:11 18:50	08:04 08:34-08:47/13 16:56	08:44 16:38
18	05:50 06:34-06:41/7 21:52	06:35 07:03-07:28/25 21:03	07:24 07:49-07:53/4 19:55	08:12 18:48	08:06 08:35-08:46/11 16:54 08:49-08:55/6	08:44 16:39
19	05:51 06:32-06:42/10 21:51	06:37 07:04-07:26/22 21:01	07:25 07:50-07:54/4 19:53	08:14 18:46	08:07 08:37-08:46/9 16:53 08:48-08:57/9	08:45 16:39
20	05:52 06:32-06:44/12 21:50	06:38 07:05-07:26/21 20:59	07:27 07:52-07:55/3 19:50	08:16 18:44	08:09 08:39-08:46/7 16:52 08:47-08:59/12	08:46 16:39
21	05:54 06:31-06:45/14 21:49	06:40 07:06-07:23/17 20:57	07:28 08:05-08:10/5 19:48 07:53-07:54/1	08:17 18:42	08:11 08:41-08:45/4 16:51 08:47-09:00/13	08:46 16:40
22	05:55 06:30-06:45/15 21:48	06:41 07:09-07:21/12 20:54	07:30 08:02-08:12/10 19:46	08:19 18:40	08:12 08:43-08:45/2 16:50 08:47-09:01/14	08:47 16:40
23	05:56 06:30-06:46/16 21:46	06:43 20:52	07:32 08:00-08:13/13 19:43	08:21 18:38	08:14 08:46-09:01/15 16:49	08:47 16:41
24	05:58 06:29-06:46/17 21:45	06:44 20:50	07:33 07:59-08:14/15 19:41	08:23 18:36	08:15 08:46-09:02/16 16:48	08:48 16:41
25	05:59 06:29-06:47/18 21:44	06:46 20:48	07:35 07:59-08:14/15 19:39	07:24 17:34	08:17 08:48-09:03/15 16:47	08:48 16:42
26	06:00 06:29-06:47/18 21:42	06:48 20:46	07:36 08:01-08:14/13 19:37	07:26 17:32	08:19 08:49-09:03/14 16:46	08:49 16:43
27	06:02 06:30-06:47/17 21:41	06:49 20:44	07:38 08:03-08:14/11 19:34	07:28 08:07-08:10/3 17:30	08:20 08:51-09:04/13 16:45	08:49 16:43
28	06:03 06:32-06:48/16 21:40	06:51 20:42	07:39 08:04-08:12/8 19:32	07:29 08:04-08:13/9 17:28	08:22 08:53-09:04/11 16:44	08:49 16:44
29	06:05 06:33-06:47/14 21:38	06:52 20:40	07:41 08:06-08:13/7 19:30	07:31 08:03-08:15/12 17:26	08:23 08:54-09:04/10 16:43	08:49 16:45
30	06:06 06:34-06:47/13 21:37 07:14-07:20/6	06:54 20:37	07:43 08:07-08:15/8 19:28	07:33 08:02-08:16/14 17:24	08:24 08:56-09:04/8 16:43	08:49 16:46
31	06:07 06:36-06:47/11 21:35 07:11-07:23/12	06:55 07:39-07:47/8 20:35		07:35 08:02-08:17/15 17:23		08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	216	589	301	74	392	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:26-09:43/17	08:24	07:32	07:23 07:46-07:50/4	06:20 06:44-07:03/19	05:36
	16:48	17:35	18:25	20:17 08:19-09:15/56	21:06	21:50
2	08:49 09:26-09:43/17	08:22	07:30	07:21 07:43-07:45/2	06:18 06:42-07:04/22	05:36
	16:49	17:36	18:26	20:19 08:19-09:14/55	21:08	21:51
3	08:49 09:27-09:44/17	08:21	07:28 07:52-08:03/11	07:19 08:19-09:14/55	06:16 06:41-07:05/24	05:35
	16:50 09:20-09:21/1	17:38	18:28	20:20	21:09	21:52
4	08:49 09:27-09:43/16	08:19	07:26 07:50-08:06/16	07:16 08:19-09:14/55	06:15 06:39-07:05/26	05:34
	16:51 09:19-09:21/2	17:40	18:30	20:22	21:11	21:53
5	08:49 09:28-09:44/16	08:18	07:23 07:47-08:06/19	07:14 08:19-09:13/54	06:13 06:37-07:05/28	05:33
	16:52 09:19-09:22/3	17:42	18:32	20:23	21:13	21:54
6	08:49 09:29-09:43/14	08:16	07:21 07:45-08:08/23	07:12 08:18-09:12/54	06:11 06:36-07:05/29	05:33
	16:54 09:18-09:22/4	17:44	18:33	20:25	21:14	21:55
7	08:48 09:30-09:43/13	08:14	07:19 07:44-08:09/25	07:10 08:18-09:11/53	06:09 06:34-07:06/32	05:32
	16:55 09:18-09:22/4	17:45	18:35	20:27	21:16	21:56
8	08:48 09:31-09:43/12	08:13	07:17 07:43-08:10/27	07:08 08:19-09:10/51	06:08 06:34-07:05/31	05:32
	16:56 09:17-09:22/5	17:47	18:37 07:40-07:42/2	20:28	21:17	21:57
9	08:47 09:32-09:43/11	08:11	07:15 07:38-08:09/31	07:05 08:19-09:09/50	06:06 06:35-07:06/31	05:31
	16:57 09:17-09:23/6	17:49	18:38	20:30	21:19	21:58
10	08:47 09:33-09:42/9	08:09	07:13 07:35-08:10/35	07:03 08:20-09:08/48	06:04 06:36-07:05/29	05:31
	16:59 09:16-09:23/7	17:51	18:40	20:32	21:20	21:59
11	08:46 09:35-09:40/5	08:07	07:10 07:33-08:10/37	07:01 08:19-09:06/47	06:03 06:38-07:05/27	05:31
	17:00 09:15-09:23/8	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08 07:41-08:10/29	06:59 08:20-09:05/45	06:01 06:39-07:05/26	05:30
	17:02	17:54	18:44 07:31-07:39/8	20:35	21:23	22:00
13	08:45 09:15-09:23/8	08:04	07:06 07:40-08:09/29	06:57 08:21-09:03/42	05:59 06:40-07:05/25	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:16-09:22/6	08:02 08:26-08:30/4	07:04 07:40-08:08/28	06:54 08:22-09:02/40	05:58 06:39-07:03/24	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00 08:24-08:32/8	07:01 07:41-08:08/27	06:52 08:23-09:00/37	05:56 06:40-07:03/23	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:33/11	06:59 07:41-08:07/26	06:50 08:25-08:58/33	05:55 06:41-07:03/22	05:29
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:34/14	06:57 07:39-08:05/26	06:48 08:26-08:55/29	05:53 06:41-07:01/20	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:34/16	06:55 07:36-08:08/32	06:46 08:28-08:53/25	05:52 06:43-07:00/17	05:29
	17:11	18:05	18:54 07:17-07:19/2	20:45	21:32	22:03
19	08:40	07:52 08:16-08:35/19	06:52 07:34-08:10/36	06:44 08:31-08:49/18	05:51 06:44-07:00/16	05:29
	17:12	18:07	18:55 07:15-07:19/4	20:47	21:34	22:04
20	08:39	07:51 08:14-08:35/21	06:50 07:32-08:12/40	06:42 08:37-08:43/6	05:49 06:46-06:58/12	05:30
	17:14	18:09	18:57 07:13-07:18/5	20:48	21:35	22:04
21	08:38	07:49 08:12-08:35/23	06:48 07:30-08:12/42	06:40 07:03-07:05/2	05:48 06:47-06:56/9	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47 08:10-08:35/25	06:46 07:28-08:13/45	06:38 07:01-07:05/4	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:44 08:10-08:34/24	06:43 07:27-08:14/47	06:36 06:59-07:05/6	05:45	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:42 08:12-08:33/21	06:41 07:25-08:14/49	06:34 06:57-07:05/8	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:16-08:32/16	06:39 07:24-08:15/51	06:32 06:55-07:04/9	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:17-08:31/14	06:37 07:23-08:15/52	06:30 06:53-07:03/10	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:20-08:28/8	06:34 07:23-08:16/53	06:28 06:52-07:02/10	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32 07:21-08:15/54	06:26 06:49-07:00/11	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30 07:52-07:53/1	06:24 06:48-07:01/13	05:39	05:33
	17:29		20:12 08:21-09:15/54	21:03	21:47	22:04
30	08:27		07:28 07:50-07:52/2	06:22 06:46-07:02/16	05:38	05:33
	17:31		20:14 08:20-09:16/56	21:05	21:48	22:04
31	08:25		07:25 07:48-07:52/4		05:37	
	17:33		20:15 08:20-09:16/56		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	209	224	1084	948	492	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 06:49-07:15/26 21:33	06:57 08:19-09:06/47 20:33	07:44 08:20-08:49/29 19:25 08:11-08:17/6	07:36 17:21	08:26 09:17-09:22/5 16:42 08:57-09:05/8
2	05:34 22:04	06:10 06:48-07:16/28 21:32	06:59 08:18-09:06/48 20:31	07:46 08:20-08:49/29 19:23 08:11-08:19/8	07:38 17:19	08:27 09:17-09:25/8 16:41 08:59-09:06/7
3	05:35 22:03	06:12 06:46-07:16/30 21:30	07:00 08:17-09:07/50 20:29	07:48 08:12-08:48/36 19:21	07:40 17:17	08:29 09:16-09:26/10 16:41 09:00-09:06/6
4	05:36 22:03	06:13 06:45-07:15/30 21:29	07:02 08:16-09:07/51 20:26	07:49 08:14-08:47/33 19:19	07:42 17:16	08:30 09:16-09:28/12 16:40 09:02-09:07/5
5	05:37 22:03	06:15 06:45-07:16/31 21:27	07:03 08:15-09:08/53 20:24	07:51 08:16-08:47/31 19:16	07:43 17:14	08:31 09:15-09:28/13 16:40 09:03-09:07/4
6	05:37 22:02	06:16 06:44-07:15/31 21:25	07:05 08:14-09:08/54 20:22	07:52 08:19-08:45/26 19:14 08:17-08:18/1	07:45 17:12	08:33 09:15-09:29/14 16:39 09:04-09:08/4
7	05:38 22:01	06:18 06:46-07:16/30 21:23	07:06 08:14-09:08/54 20:20	07:54 08:20-08:44/24 19:12	07:47 17:11	08:34 09:16-09:31/15 16:39 09:06-09:09/3
8	05:39 22:01	06:19 06:47-07:15/28 21:22	07:08 08:13-09:08/55 20:18	07:56 08:22-08:43/21 19:10	07:49 17:09	08:35 09:15-09:31/16 16:39 09:07-09:09/2
9	05:40 22:00	06:21 06:49-07:15/26 21:20	07:10 08:13-09:08/55 20:15	07:57 08:23-08:41/18 19:07	07:50 17:07	08:36 09:15-09:32/17 16:38 09:08-09:09/1
10	05:41 22:00	06:23 06:50-07:13/23 21:18	07:11 07:36-07:37/1 20:13 08:12-09:08/56	07:59 08:25-08:38/13 19:05	07:52 17:06	08:37 09:15-09:32/17 16:38
11	05:42 21:59	06:24 06:51-07:12/21 21:16	07:13 07:38-07:42/4 20:11 08:12-09:08/56	08:01 08:29-08:34/5 19:03	07:54 17:04	08:38 09:16-09:33/17 16:38
12	05:43 21:58	06:26 06:53-07:12/19 21:14	07:14 07:39-07:43/4 20:09 08:11-09:07/56	08:02 19:01	07:55 17:03	08:39 09:16-09:33/17 16:38
13	05:44 21:57	06:27 06:54-07:10/16 21:12	07:16 07:41-07:44/3 20:06 08:12-09:07/55	08:04 18:59	07:57 17:01	08:40 09:16-09:34/18 16:38
14	05:45 21:56	06:29 06:56-07:08/12 21:10	07:17 07:42-07:43/1 20:04 08:11-09:06/55	08:06 08:55-08:57/2 18:57	07:59 17:00	08:41 09:17-09:34/17 16:38
15	05:46 21:55	06:30 06:57-07:08/11 21:09	07:19 08:11-09:06/55 20:02	08:07 08:51-09:02/11 18:55	08:01 16:58	08:42 09:17-09:35/18 16:38
16	05:48 21:54	06:32 06:59-07:10/11 21:07	07:21 08:11-09:04/53 19:59	08:09 08:48-09:03/15 18:52	08:02 16:57	08:43 09:18-09:36/18 16:38
17	05:49 21:53	06:33 07:00-07:10/10 21:05	07:22 08:12-09:04/52 19:57	08:11 08:45-09:04/19 18:50	08:04 16:56	08:44 09:18-09:36/18 16:38
18	05:50 21:52	06:35 07:02-07:11/9 21:03	07:24 08:11-09:02/51 19:55	08:12 08:43-09:05/22 18:48	08:06 16:55	08:44 09:18-09:36/18 16:39
19	05:51 21:51	06:37 07:03-07:10/7 21:01	07:25 08:12-09:02/50 19:53	08:14 08:41-09:06/25 18:46	08:07 16:53	08:45 09:19-09:37/18 16:39
20	05:52 21:50	06:38 07:05-07:11/6 20:59	07:27 08:13-09:01/48 19:50	08:16 08:42-09:06/24 18:44	08:09 16:52	08:46 09:20-09:38/18 16:39
21	05:54 21:49	06:40 07:06-07:10/4 20:57	07:28 08:14-08:59/45 19:48	08:17 08:43-09:05/22 18:42	08:11 16:51	08:46 09:20-09:38/18 16:40
22	05:55 06:59-07:05/6 21:48	06:41 07:08-07:09/1 20:54	07:30 08:15-08:58/43 19:46	08:19 08:45-09:05/20 18:40	08:12 16:50	08:47 09:21-09:39/18 16:40
23	05:56 06:56-07:07/11 21:46	06:43 08:39-08:48/9 20:52	07:32 08:16-08:56/40 19:43 07:56-08:01/5	08:21 08:47-09:05/18 18:38	08:14 16:49	08:47 09:21-09:39/18 16:41
24	05:58 06:54-07:08/14 21:45	06:44 08:35-08:54/19 20:50	07:33 08:17-08:54/37 19:41 07:58-08:02/4	08:23 08:49-09:05/16 18:36	08:15 16:48	08:48 09:21-09:39/18 16:41
25	05:59 06:54-07:10/16 21:44	06:46 08:31-08:56/25 20:48	07:35 08:18-08:51/33 19:39 07:59-08:02/3	07:24 07:51-08:04/13 17:34	08:17 16:47	08:48 09:22-09:40/18 16:42
26	06:00 06:53-07:11/18 21:42	06:48 08:29-08:59/30 20:46	07:36 08:21-08:49/28 19:37 08:01-08:02/1	07:26 07:52-08:02/10 17:32	08:19 16:46	08:49 09:22-09:40/18 16:43
27	06:02 06:52-07:12/20 21:41	06:49 08:26-09:00/34 20:44	07:38 08:23-08:48/25 19:34	07:28 07:54-08:01/7 17:30	08:20 16:45	08:49 09:23-09:41/18 16:43
28	06:03 06:51-07:14/23 21:40	06:51 08:25-09:02/37 20:42	07:40 08:22-08:48/26 19:32	07:29 07:56-07:59/3 17:28	08:22 08:56-09:02/6 16:44	08:49 09:23-09:41/18 16:44
29	06:05 06:50-07:14/24 21:38	06:52 08:23-09:03/40 20:40	07:41 08:21-08:49/28 19:30	07:31 17:26	08:23 08:55-09:03/8 16:43	08:49 09:23-09:41/18 16:45
30	06:06 06:50-07:14/24 21:37	06:54 08:22-09:04/42 20:37	07:43 08:20-08:48/28 19:28	07:33 17:25	08:24 08:56-09:04/8 16:43	08:49 09:24-09:42/18 16:46
31	06:07 06:50-07:15/25 21:35	06:55 08:20-09:05/45 20:35	 	07:35 17:23	 	08:49 09:25-09:42/17 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	181	691	1413	507	22	541

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 08:03-08:38/35 18:25	07:23 20:17	06:20 06:44-06:45/1 21:06 06:47-06:53/6	05:36 06:27-06:48/21 21:50
2	08:49 16:49	08:22 17:36	07:30 08:04-08:40/36 18:26	07:21 20:19	06:18 06:42-06:44/2 21:08	05:35 06:28-06:49/21 21:52
3	08:49 16:50	08:21 17:38	07:28 08:07-08:41/34 18:28	07:19 20:20	06:16 21:09	05:35 06:28-06:48/20 21:53
4	08:49 16:51	08:19 08:57-09:04/7 17:40	07:26 08:07-08:42/35 18:30	07:16 20:22	06:14 21:11	05:34 06:29-06:47/18 21:54
5	08:49 16:52	08:18 08:53-09:08/15 17:42	07:24 08:05-08:42/37 18:32	07:14 20:24	06:13 21:13	05:33 06:30-06:47/17 21:55
6	08:49 16:54	08:16 08:51-09:10/19 17:44	07:21 08:04-08:42/38 18:33	07:12 20:25	06:11 06:36-06:38/2 21:14	05:33 06:30-06:46/16 21:55
7	08:48 16:55	08:14 08:49-09:11/22 17:45	07:19 08:04-08:43/39 18:35	07:10 20:27	06:09 06:34-06:37/3 21:16	05:32 06:31-06:47/16 21:56
8	08:48 16:56	08:13 08:48-09:13/25 17:47	07:17 08:03-08:43/40 18:37	07:08 20:28	06:07 06:32-06:36/4 21:17	05:32 06:31-06:46/15 21:57
9	08:47 16:57	08:11 08:47-09:14/27 17:49	07:15 08:02-08:42/40 18:38	07:05 20:30	06:06 06:31-06:43/12 21:19	05:31 06:33-06:45/12 21:58
10	08:47 16:59	08:09 08:46-09:15/29 17:51	07:13 08:02-08:42/40 18:40 07:44-07:47/3	07:03 20:32	06:04 06:29-06:44/15 21:20	05:31 06:34-06:45/11 21:59
11	08:46 17:00	08:08 08:45-09:16/31 17:53	07:10 08:02-08:42/40 18:42 07:39-07:52/13	07:01 07:24-07:29/5 20:33	06:02 06:28-06:46/18 21:22	05:30 06:35-06:45/10 22:00
12	08:46 17:02	08:06 08:45-09:16/31 17:54	07:08 08:02-08:42/40 18:44 07:36-07:55/19	06:59 07:21-07:29/8 20:35	06:01 06:26-06:47/21 21:24	05:30 06:35-06:44/9 22:00
13	08:45 17:03	08:04 08:44-09:17/33 17:56	07:06 08:02-08:40/38 18:45 07:34-07:55/21	06:57 07:19-07:30/11 20:37	05:59 06:25-06:48/23 21:25	05:30 06:36-06:43/7 22:01
14	08:44 17:04	08:02 08:44-09:17/33 17:58	07:04 08:02-08:40/38 18:47 07:32-07:56/24	06:54 07:17-07:31/14 20:38	05:58 06:25-06:48/23 21:27	05:30 06:38-06:43/5 22:01
15	08:44 17:06	08:00 08:43-09:17/34 18:00	07:01 08:03-08:39/36 18:49 07:31-07:57/26	06:52 07:15-07:31/16 20:40	05:56 06:25-06:49/24 21:28	05:30 06:39-06:42/3 22:02
16	08:43 17:08	07:58 08:43-09:17/34 18:02	06:59 08:03-08:38/35 18:50 07:30-07:58/28	06:50 07:13-07:31/18 20:42	05:55 06:25-06:50/25 21:30	05:29 22:02
17	08:42 17:09	07:56 08:43-09:17/34 18:03	06:57 08:03-08:36/33 18:52 07:29-07:58/29	06:48 07:13-07:31/18 20:43	05:53 06:24-06:49/25 21:31	05:29 22:03
18	08:41 17:11	07:54 08:43-09:17/34 18:05	06:55 08:04-08:35/31 18:54 07:29-07:58/29	06:46 07:13-07:30/17 20:45	05:52 06:24-06:50/26 21:32	05:29 22:03
19	08:40 17:12	07:53 08:44-09:16/32 18:07	06:52 08:06-08:33/27 18:55 07:28-07:58/30	06:44 07:13-07:29/16 20:47	05:51 06:24-06:50/26 21:34	05:29 22:04
20	08:39 17:14	07:51 08:44-09:16/32 18:09	06:50 08:07-08:31/24 18:57 07:28-07:58/30	06:42 07:14-07:28/14 20:48	05:49 06:24-06:51/27 21:35	05:29 22:04
21	08:38 17:16	07:49 08:45-09:15/30 18:11 08:12-08:16/4	06:48 08:09-08:27/18 18:59 07:28-07:56/28	06:40 07:15-07:27/12 20:50 07:03-07:05/2	05:48 06:23-06:50/27 21:37	05:30 22:04
22	08:37 17:17	07:47 08:45-09:14/29 18:12 08:10-08:18/8	06:46 08:12-08:23/11 19:00 07:28-07:56/28	06:38 07:17-07:24/7 20:51 07:01-07:06/5	05:47 06:23-06:50/27 21:38	05:30 22:04
23	08:36 17:19	07:45 08:46-09:13/27 18:14 08:08-08:19/11	06:43 07:28-07:55/27 19:02	06:36 06:59-07:06/7 20:53	05:45 06:24-06:50/26 21:39	05:30 22:05
24	08:35 17:21	07:42 08:48-09:11/23 18:16 08:06-08:19/13	06:41 07:28-07:53/25 19:04	06:34 06:57-07:06/9 20:55	05:44 06:24-06:50/26 21:41	05:30 22:05
25	08:33 17:22	07:40 08:49-09:10/21 18:18 08:04-08:20/16	06:39 07:29-07:52/23 19:05	06:32 06:55-07:06/11 20:56	05:43 06:24-06:50/26 21:42	05:31 22:05
26	08:32 17:24	07:38 08:02-08:33/31 18:19 08:51-09:07/16	06:37 07:31-07:50/19 19:07	06:30 06:53-07:05/12 20:58	05:42 06:24-06:50/26 21:43	05:31 22:05
27	08:31 17:26	07:36 08:03-08:36/33 18:21 08:55-09:04/9	06:34 07:32-07:48/16 19:09	06:28 06:51-07:04/13 21:00	05:41 06:25-06:50/25 21:45	05:31 22:05
28	08:30 17:27	07:34 08:02-08:37/35 18:23	06:32 07:34-07:44/10 19:10	06:26 06:50-07:03/13 21:01	05:40 06:25-06:49/24 21:46	05:32 06:41-06:45/4 22:05
29	08:28 17:29		07:30 20:12	06:24 06:48-07:02/14 21:03	05:39 06:26-06:50/24 21:47	05:32 06:40-06:46/6 22:05
30	08:27 17:31		07:28 20:14	06:22 06:46-06:55/9 21:05	05:38 06:26-06:50/24 21:48	05:33 06:40-06:48/8 22:04
31	08:25 17:33		07:25 20:15		05:37 06:27-06:49/22 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	0	778	1173	251	560	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:39-06:49/10 22:04	06:09 06:37-06:57/20 21:33	06:57 07:23-07:28/5 20:33	07:44 08:41-09:20/39 19:25 08:14-08:34/20	07:36 08:16-08:44/28 17:21	08:26 16:42
2	05:34 06:38-06:49/11 22:04	06:10 06:39-06:56/17 21:32	06:59 20:31	07:46 08:41-09:21/40 19:23 08:17-08:32/15	07:38 08:17-08:44/27 17:19	08:27 16:41
3	05:35 06:38-06:50/12 22:03	06:12 06:40-06:54/14 21:30	07:00 20:29	07:48 08:40-09:20/40 19:21 08:19-08:28/9	07:40 08:17-08:42/25 17:17	08:29 16:41
4	05:36 06:38-06:52/14 22:03	06:13 06:41-06:51/10 21:29	07:02 20:27	07:49 08:40-09:20/40 19:19	07:42 08:19-08:41/22 17:16	08:30 16:40
5	05:37 06:37-06:52/15 22:03	06:15 06:43-06:47/4 21:27	07:03 20:24	07:51 08:40-09:20/40 19:16	07:43 08:21-08:39/18 17:14	08:31 16:40
6	05:37 06:37-06:53/16 22:02	06:16 06:44-06:47/3 21:25	07:05 20:22	07:52 08:40-09:19/39 19:14	07:45 08:23-08:37/14 17:12	08:33 16:39
7	05:38 06:36-06:53/17 22:02	06:18 06:46-06:47/1 21:23	07:06 20:20	07:54 08:40-09:18/38 19:12	07:47 08:27-08:33/6 17:11	08:34 16:39
8	05:39 06:36-06:54/18 22:01	06:19 21:22	07:08 20:18	07:56 08:41-09:18/37 19:10	07:49 17:09	08:35 16:39
9	05:40 06:36-06:55/19 22:00	06:21 21:20	07:10 20:15	07:57 08:40-09:16/36 19:07	07:50 17:07	08:36 16:38
10	05:41 06:36-06:56/20 22:00	06:23 21:18	07:11 20:13	07:59 08:41-09:16/35 19:05	07:52 17:06	08:37 16:38
11	05:42 06:36-06:57/21 21:59	06:24 06:52-06:54/2 21:16	07:13 20:11	08:01 08:40-09:15/35 19:03	07:54 17:04	08:38 16:38
12	05:43 06:35-06:57/22 21:58	06:26 06:53-06:54/1 21:14 06:55-07:02/7	07:14 20:09	08:02 08:38-09:12/34 19:01	07:56 17:03	08:39 16:38
13	05:44 06:35-06:58/23 21:57	06:27 06:54-07:03/9 21:12	07:16 20:06	08:04 08:36-09:11/35 18:59	07:57 17:01	08:40 16:38
14	05:45 06:35-06:58/23 21:56	06:29 06:56-07:10/14 21:11	07:17 20:04	08:06 08:35-09:09/34 18:57	07:59 17:00	08:41 16:38
15	05:46 06:35-06:59/24 21:55	06:30 06:57-07:11/14 21:09	07:19 08:26-08:34/8 20:02	08:07 08:35-09:07/32 18:54 09:25-09:38/13	08:01 16:58	08:42 16:38
16	05:47 06:34-06:59/25 21:54	06:32 06:59-07:12/13 21:07	07:21 08:21-08:36/15 19:59	08:09 08:35-09:02/27 18:52 09:22-09:39/17	08:02 16:57	08:43 16:38
17	05:49 06:34-06:59/25 21:53	06:33 07:00-07:12/12 21:05	07:22 08:19-08:38/19 19:57	08:11 09:20-09:42/22 18:50 08:36-08:51/15	08:04 16:56	08:44 16:38
18	05:50 06:34-07:00/26 21:52	06:35 07:02-07:13/11 21:03	07:24 08:17-08:39/22 19:55	08:12 09:18-09:43/25 18:48 08:38-08:50/12	08:06 16:55	08:45 16:39
19	05:51 06:34-07:00/26 21:51	06:37 07:03-07:12/9 21:01	07:25 08:16-08:40/24 19:53	08:14 09:17-09:45/28 18:46 08:40-08:50/10	08:07 16:53	08:45 16:39
20	05:52 06:33-07:00/27 21:50	06:38 07:05-07:12/7 20:59	07:27 08:15-08:42/27 19:50	08:16 09:16-09:46/30 18:44 08:42-08:48/6	08:09 16:52	08:46 16:39
21	05:54 06:34-07:01/27 21:49	06:40 07:21-07:30/9 20:57 07:06-07:11/5	07:28 09:00-09:07/7 19:48 08:14-08:41/27	08:17 09:15-09:46/31 18:42 08:43-08:46/3	08:11 16:51	08:46 16:40
22	05:55 06:34-07:01/27 21:48	06:41 07:19-07:32/13 20:55 07:08-07:10/2	07:30 08:55-09:12/17 19:46 08:13-08:42/29	08:19 09:14-09:46/32 18:40	08:12 16:50	08:47 16:40
23	05:56 06:34-07:00/26 21:46	06:43 07:17-07:32/15 20:52	07:32 08:52-09:14/22 19:43 08:12-08:41/29	08:21 09:14-09:47/33 18:38	08:14 16:49	08:48 16:41
24	05:58 06:34-07:00/26 21:45	06:44 07:17-07:33/16 20:50	07:33 08:50-09:16/26 19:41 08:12-08:41/29	08:23 09:14-09:47/33 18:36	08:15 16:48	08:48 16:41
25	05:59 06:34-07:01/27 21:44	06:46 07:16-07:33/17 20:48	07:35 08:47-09:17/30 19:39 08:11-08:40/29	07:24 08:14-08:47/33 17:34	08:17 16:47	08:48 16:42
26	06:00 06:34-07:00/26 21:42	06:48 07:16-07:34/18 20:46	07:36 08:46-09:18/32 19:37 08:11-08:40/29	07:26 08:14-08:47/33 17:32	08:19 16:46	08:49 16:43
27	06:02 06:34-07:00/26 21:41	06:49 07:15-07:33/18 20:44	07:38 08:45-09:19/34 19:34 08:12-08:40/28	07:28 08:13-08:46/33 17:30	08:20 16:45	08:49 16:43
28	06:03 06:36-07:00/24 21:40	06:51 07:17-07:33/16 20:42	07:40 08:44-09:19/35 19:32 08:12-08:38/26	07:29 08:13-08:46/33 17:28	08:22 16:44	08:49 16:44
29	06:05 06:36-06:59/23 21:38	06:52 07:18-07:32/14 20:40	07:41 08:43-09:20/37 19:30 08:13-08:38/25	07:31 08:14-08:46/32 17:26	08:23 16:43	08:49 16:45
30	06:06 06:35-06:58/23 21:37	06:54 07:20-07:31/11 20:38	07:43 08:41-09:20/39 19:28 08:13-08:36/23	07:33 08:14-08:46/32 17:24	08:25 16:43	08:49 16:46
31	06:07 06:36-06:58/22 21:35	06:55 07:21-07:29/8 20:35	 	07:35 08:15-08:45/30 17:23	 	08:49 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	671	330	673	1161	140	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:47-10:30/43	08:24 08:52-09:29/37	07:32	07:23 07:48-07:54/6	06:20	05:36 06:23-06:34/11
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:48-10:30/42	08:22 08:52-09:29/37	07:30	07:21 07:51-08:00/9	06:18	05:36 06:22-06:37/15
	16:49	17:36	18:26	20:19 07:43-07:46/3	21:08	21:52
3	08:49 09:49-10:30/41	08:21 08:52-09:29/37	07:28	07:19 07:41-08:03/22	06:16	05:35 06:20-06:38/18
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:48-10:29/41	08:19 08:54-09:30/36	07:26	07:16 07:39-08:06/27	06:15	05:34 06:19-06:39/20
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:49-10:30/41	08:18 08:55-09:30/35	07:24	07:14 07:37-08:07/30	06:13	05:33 06:19-06:40/21
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 09:49-10:29/40	08:16 08:57-09:30/33	07:21	07:12 07:34-08:07/33	06:11	05:33 06:17-06:41/24
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:50-10:28/38	08:14 09:00-09:30/30	07:19	07:10 07:32-08:08/36	06:09	05:32 06:01-06:02/1
	16:55	17:45	18:35	20:27	21:16	21:56 06:17-06:42/25
8	08:48 09:50-10:27/37	08:13 09:01-09:30/29	07:17	07:08 07:32-08:09/37	06:08	05:32 06:01-06:03/2
	16:56	17:47	18:37	20:28	21:17	21:57 06:16-06:42/26
9	08:47 09:51-10:28/37	08:11 09:01-09:30/29	07:15	07:05 07:33-08:09/36	06:06	05:31 06:00-06:03/3
	16:57	17:49	18:38	20:30 07:28-07:30/2	21:19	21:58 06:16-06:43/27
10	08:47 09:51-10:28/37	08:09 09:02-09:29/27	07:13	07:03 07:34-08:09/35	06:04	05:31 06:00-06:04/4
	16:59	17:51	18:40	20:32 07:26-07:31/5	21:20	21:59 06:16-06:44/28
11	08:46 09:51-10:28/37	08:08 09:02-09:28/26	07:10	07:01 07:37-08:09/32	06:03	05:30 06:00-06:04/4
	17:00	17:53	18:42	20:33 07:24-07:31/7	21:22	22:00 06:16-06:45/29
12	08:46 09:51-10:28/37	08:06 09:03-09:27/24	07:08	06:59 07:35-08:08/33	06:01	05:30 05:59-06:04/5
	17:02	17:54	18:44	20:35 07:21-07:30/9	21:24	22:00 06:16-06:45/29
13	08:45 09:53-10:29/36	08:04 09:04-09:25/21	07:06	06:57 07:35-08:08/33	05:59	05:30 05:59-06:05/6
	17:03	17:56	18:45	20:37 07:19-07:29/10	21:25	22:01 06:16-06:46/30
14	08:44 09:53-10:30/37	08:02 09:06-09:24/18	07:04	06:55 07:35-08:08/33	05:58	05:30 05:59-06:05/6
	17:05	17:58	18:47	20:38 07:17-07:28/11	21:27	22:01 06:16-06:46/30
15	08:44 09:53-10:30/37	08:00 09:08-09:21/13	07:01	06:52 07:35-08:07/32	05:56	05:30 05:59-06:05/6
	17:06	18:00	18:49	20:40 07:18-07:26/8	21:28	22:02 06:16-06:47/31
16	08:43 09:54-10:30/36	07:58 09:12-09:17/5	06:59	06:50 07:35-08:07/32	05:55	05:29 05:59-06:06/7
	17:08	18:02	18:50	20:42	21:30	22:02 06:16-06:47/31
17	08:42 09:55-10:30/35	07:56	06:57 07:19-07:25/6	06:48 07:36-08:06/30	05:53	05:29 05:59-06:06/7
	17:09	18:03	18:52	20:43	21:31	22:03 06:16-06:48/32
18	08:41 09:55-10:30/35	07:54	06:55 07:17-07:27/10	06:46 07:36-08:05/29	05:52	05:29 05:59-06:06/7
	17:11	18:05	18:54	20:45	21:32	22:03 06:16-06:48/32
19	08:40 09:56-10:30/34	07:53	06:52 07:15-07:29/14	06:44 07:07-07:09/2	05:51	05:29 05:59-06:06/7
	17:12	18:07	18:55	20:47 07:37-08:04/27	21:34	22:04 06:16-06:48/32
20	08:39 09:57-10:30/33	07:51	06:50 07:13-07:29/16	06:42 07:05-07:08/3	05:49	05:29 05:59-06:07/8
	17:14	18:09	18:57	20:48 07:38-08:02/24	21:35	22:04 06:16-06:48/32
21	08:38 09:57-10:29/32	07:49	06:48 07:10-07:29/19	06:40 07:03-07:06/3	05:48	05:30 05:59-06:07/8
	17:16	18:11	18:59	20:50 07:39-08:00/21	21:37	22:04 06:16-06:48/32
22	08:37 09:58-10:28/30	07:47	06:46 07:09-07:29/20	06:38 07:01-07:03/2	05:47	05:30 06:00-06:08/8
	17:17	18:12	19:00	20:51 07:40-07:58/18	21:38	22:04 06:17-06:49/32
23	08:36 10:00-10:28/28	07:45	06:43 07:09-07:29/20	06:36 06:59-07:03/4	05:45	05:30 06:00-06:07/7
	17:19 09:10-09:16/6	18:14	19:02	20:53 07:43-07:55/12	21:39	22:05 06:17-06:49/32
24	08:35 10:00-10:27/27 09:02-09:04/2	07:42	06:41 07:09-07:29/20	06:34 06:57-07:02/5	05:44	05:30 06:00-06:07/7
	17:21 09:06-09:18/12	18:16	19:04	20:55 07:48-07:49/1	21:41	22:05 06:17-06:49/32
25	08:33 10:02-10:26/24	07:40	06:39 07:08-07:27/19	06:32 06:55-07:02/7	05:43	05:31 06:01-06:08/7
	17:22 09:00-09:21/21	18:18	19:05	20:56	21:42	22:05 06:18-06:50/32
26	08:32 10:04-10:25/21	07:38	06:37 07:09-07:26/17	06:30 06:53-07:01/8	05:42	05:31 06:01-06:08/7
	17:24 08:59-09:23/24	18:19	19:07	20:58	21:43	22:05 06:18-06:49/31
27	08:31 10:05-10:23/18	07:36	06:34 07:10-07:25/15	06:28 06:51-07:00/9	05:41	05:31 06:02-06:09/7
	17:26 08:57-09:24/27	18:21	19:09	21:00	21:45	22:05 06:18-06:49/31
28	08:30 10:08-10:21/13	07:34	06:32 07:11-07:22/11	06:26 06:51-07:00/9	05:40	05:32 06:02-06:08/6
	17:27 08:56-09:25/29	18:23	19:10 06:55-06:58/3	21:01	21:46	22:05 06:19-06:49/30
29	08:28 10:12-10:16/4		07:30 08:15-08:18/3	06:24 06:53-06:58/5	05:39	05:32 06:03-06:09/6
	17:29 08:54-09:26/32		20:12 07:52-07:57/5	21:03	21:47	22:05 06:19-06:49/30
30	08:27 08:53-09:27/34		07:28 07:50-07:56/6	06:22	05:38	05:33 06:03-06:08/5
	17:31		20:14	21:05	21:48	22:04 06:20-06:49/29
31	08:25 08:51-09:28/37		07:25 07:48-07:56/8		05:37 06:26-06:31/5	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1175	437	212	740	5	975

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:09/5	06:09	06:57 07:36-08:08/32	07:44	07:36 08:31-08:59/28	08:26 09:33-10:10/37
	22:04 06:21-06:50/29	21:33	20:33 07:23-07:30/7	19:25	17:21	16:42
2	05:34 06:04-06:08/4	06:10	06:59 07:32-08:07/35	07:46	07:38 08:31-08:59/28	08:27 09:34-10:11/37
	22:04 06:20-06:49/29	21:32	20:31 07:24-07:29/5	19:23	17:19	16:41
3	05:35 06:05-06:08/3	06:12	07:00 07:31-08:07/36	07:48	07:40 08:29-08:59/30	08:29 09:34-10:11/37
	22:03 06:21-06:49/28	21:30	20:29 07:26-07:28/2	19:21	17:17	16:41
4	05:36 06:06-06:08/2	06:13	07:02 07:29-08:06/37	07:49	07:42 08:29-08:59/30	08:30 09:35-10:12/37
	22:03 06:22-06:49/27	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:09/2	06:15	07:03 07:29-08:05/36	07:51	07:43 08:26-09:00/34	08:31 09:35-10:13/38
	22:03 06:22-06:48/26	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:47/24	06:16	07:05 07:30-08:03/33	07:52	07:45 08:25-09:00/35	08:33 09:35-10:15/40
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:25-06:47/22	06:18	07:06 07:32-08:02/30	07:54	07:47 08:24-09:00/36	08:34 09:36-10:17/41
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39 06:26-06:47/21	06:19	07:08 07:33-08:00/27	07:56	07:49 08:23-09:00/37	08:35 09:36-10:17/41
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:27-06:46/19	06:21	07:10 07:35-07:58/23	07:57	07:50 08:23-09:00/37	08:36 09:37-10:18/41
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:28-06:45/17	06:23	07:11 07:43-07:54/11	07:59	07:52 08:23-09:00/37	08:37 09:37-10:19/42
	22:00	21:18	20:13 07:36-07:39/3	19:05	17:06	16:38
11	05:42 06:30-06:43/13	06:24	07:13 07:40-07:46/6	08:01	07:54 08:23-09:00/37	08:38 09:37-10:20/43
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:33-06:41/8	06:26	07:14 07:39-07:47/8	08:02	07:56 08:24-08:58/34	08:39 09:38-10:20/42
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 07:41-07:48/7	08:04	07:57 09:44-09:49/5	08:40 09:38-10:21/43
	21:57	21:12	20:06	18:59	17:01 08:26-08:58/32	16:38
14	05:45	06:29 07:00-07:06/6	07:17 07:42-07:47/5	08:06	07:59 09:40-09:53/13	08:41 09:39-10:22/43
	21:56	21:11	20:04	18:57	17:00 08:28-08:57/29	16:38
15	05:46	06:30 06:57-07:07/10	07:19 08:02-08:12/10	08:07	08:01 09:38-09:56/18	08:42 09:40-10:23/43
	21:55	21:09	20:02 07:44-07:47/3	18:55	16:58 08:30-08:57/27	16:38
16	05:47	06:32 06:59-07:08/9	07:21 07:59-08:13/14	08:09	08:02 09:37-09:58/21	08:43 09:40-10:24/44
	21:54	21:07	19:59 07:45-07:46/1	18:52	16:57 08:32-08:56/24	16:38
17	05:49	06:33 07:00-07:08/8	07:22 07:58-08:15/17	08:11	08:04 09:36-10:00/24	08:44 09:41-10:24/43
	21:53	21:05	19:57	18:50	16:56 08:34-08:55/21	16:38
18	05:50	06:35 07:02-07:08/6	07:24 07:56-08:15/19	08:12	08:06 09:34-10:01/27 08:36-08:38/2	08:45 09:41-10:24/43
	21:52	21:03	19:55	18:48	16:55 08:40-08:52/12	16:39
19	05:51	06:37 07:03-07:08/5	07:25 07:56-08:15/19	08:14	08:07 09:34-10:02/28	08:45 09:42-10:25/43
	21:51	21:01 07:52-07:57/5	19:53	18:46	16:53 08:44-08:50/6	16:39
20	05:52	06:38 07:05-07:09/4	07:27 07:55-08:16/21	08:16	08:09 09:33-10:03/30	08:46 09:43-10:26/43
	21:50	20:59 07:48-08:02/14	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:08/2	07:28 07:54-08:15/21	08:17	08:11 09:33-10:05/32	08:46 09:43-10:26/43
	21:49	20:57 07:45-08:03/18	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:11/3	07:30 07:55-08:15/20	08:19	08:12 09:33-10:06/33	08:47 09:44-10:27/43
	21:48	20:55 07:43-08:05/22	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:12/3	07:32 07:56-08:13/17	08:21	08:14 09:32-10:06/34	08:47 09:44-10:27/43
	21:46	20:52 07:41-08:06/25	19:43	18:38	16:49	16:41
24	05:58	06:44 07:11-07:13/2	07:33 07:58-08:13/15	08:23	08:15 09:32-10:07/35	08:48 09:44-10:27/43
	21:45	20:50 07:41-08:07/26	19:41	18:36	16:48	16:41
25	05:59	06:46 07:39-08:08/29	07:35 07:59-08:10/11	07:24	08:17 09:33-10:08/35	08:48 09:45-10:28/43
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 07:39-08:09/30	07:36 08:01-08:09/8	07:26 08:41-08:49/8	08:19 09:32-10:08/36	08:49 09:45-10:28/43
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:37-08:09/32	07:38 08:03-08:05/2	07:28 08:37-08:51/14	08:20 09:33-10:09/36	08:49 09:45-10:29/44
	21:41	20:44 07:23-07:25/2	19:34	17:30	16:45	16:43
28	06:03	06:51 07:37-08:09/32	07:40	07:29 08:35-08:54/19	08:22 09:33-10:10/37	08:49 09:46-10:29/43
	21:40	20:42 07:20-07:28/8	19:32	17:28	16:44	16:44
29	06:05	06:52 07:36-08:09/33	07:41	07:31 08:33-08:55/22	08:23 09:33-10:10/37	08:49 09:46-10:29/43
	21:38	20:40 07:18-07:29/11	19:30	17:26	16:43	16:45
30	06:06	06:54 07:36-08:09/33	07:43	07:33 08:32-08:57/25	08:25 09:33-10:10/37	08:49 09:46-10:29/43
	21:37	20:38 07:20-07:30/10	19:28	17:25	16:43	16:46
31	06:07	06:55 07:35-08:08/33		07:35 08:32-08:58/26		08:49 09:47-10:29/42
	21:35	20:35 07:21-07:29/8		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	279	429	541	114	1074	1294

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:49	08:24	07:32		07:23		06:20		05:36	06:04-06:13/9
	16:48	17:34	18:25		20:17		21:06		21:50	
2	08:49	08:22	07:30		07:21		06:18	06:42-06:43/1	05:35	06:04-06:14/10
	16:49	17:36	18:26		20:18		21:08		21:51	
3	08:49	08:21	07:28		07:19		06:16	06:40-06:43/3	05:35	06:03-06:14/11
	16:50	17:38	18:28		20:20		21:09		21:52	
4	08:49	08:19	07:26		07:16		06:14	06:39-06:43/4	05:34	06:02-06:14/12
	16:51	17:40	18:30		20:22		21:11		21:53	
5	08:49	08:18	07:23		07:14		06:13	06:37-06:43/6	05:33	06:02-06:14/12
	16:52	17:42	18:31		20:23		21:13		21:54	
6	08:49	08:16	07:21	07:44-07:47/3	07:12	07:34-07:35/1	06:11	06:35-06:42/7	05:33	06:01-06:14/13
	16:53	17:43	18:33		20:25		21:14		21:55	
7	08:48	08:14	07:19	07:42-07:47/5	07:10	07:32-07:34/2	06:09	06:34-06:42/8	05:32	06:01-06:14/13
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	07:40-07:47/7	07:07	07:30-07:32/2	06:07	06:32-06:41/9	05:32	06:00-06:14/14
	16:56	17:47	18:37		20:28		21:17		21:57	
9	08:47	08:11	07:15	07:37-07:46/9	07:05		06:06	06:31-06:41/10	05:31	06:00-06:14/14
	16:57	17:49	18:38		20:30		21:19		21:58	
10	08:47	08:09	07:12	07:35-07:45/10	07:03		06:04	06:33-06:38/5	05:31	06:00-06:14/14
	16:59	17:51	18:40		20:32		21:20		21:59	
11	08:46	08:07	07:10	07:34-07:44/10	07:01		06:02		05:30	05:59-06:14/15
	17:00	17:52	18:42		20:33		21:22		21:59	
12	08:46	08:06	07:08	07:36-07:42/6	06:59		06:01		05:30	05:59-06:14/15
	17:01	17:54	18:43		20:35		21:23		22:00	
13	08:45	08:04	07:06		06:57		05:59		05:30	05:59-06:14/15
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04		06:54		05:58		05:30	05:59-06:14/15
	17:04	17:58	18:47		20:38		21:26		22:01	
15	08:44	08:00	07:01	07:24-07:26/2	06:52		05:56		05:29	05:59-06:15/16
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:22-07:27/5	06:50	07:13-07:15/2	05:55		05:29	05:59-06:15/16
	17:07	18:01	18:50		20:42		21:29		22:02	
17	08:42	07:56	06:57	07:19-07:26/7	06:48	07:11-07:15/4	05:53		05:29	05:59-06:15/16
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:54	06:55	07:17-07:26/9	06:46	07:09-07:14/5	05:52		05:29	05:59-06:15/16
	17:11	18:05	18:54		20:45		21:32		22:03	
19	08:40	07:52	06:52	07:15-07:26/11	06:44	07:07-07:13/6	05:50		05:29	05:59-06:15/16
	17:12	18:07	18:55		20:46		21:34		22:04	
20	08:39	07:50	06:50	07:13-07:25/12	06:42	07:05-07:11/6	05:49		05:29	05:59-06:15/16
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:48	06:48	07:10-07:22/12	06:40		05:48		05:30	05:59-06:15/16
	17:15	18:10	18:59		20:50		21:37		22:04	
22	08:37	07:46	06:46	07:08-07:20/12	06:38		05:47		05:30	06:00-06:16/16
	17:17	18:12	19:00		20:51		21:38		22:04	
23	08:36	07:44	06:43	07:06-07:14/8	06:36		05:45		05:30	06:00-06:16/16
	17:19	18:14	19:02		20:53		21:39		22:05	
24	08:35	07:42	06:41	07:03-07:11/8	06:34		05:44		05:30	06:00-06:16/16
	17:20	18:16	19:04		20:55		21:41		22:05	
25	08:33	07:40	06:39		06:32		05:43	06:10-06:11/1	05:31	06:01-06:17/16
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37		06:30		05:42	06:09-06:11/2	05:31	06:01-06:17/16
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34		06:28		05:41	06:08-06:12/4	05:31	06:01-06:17/16
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	06:07-06:12/5	05:32	06:02-06:17/15
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30		06:24		05:39	06:06-06:12/6	05:32	06:02-06:17/15
	17:29		20:12		21:03		21:47		22:04	
30	08:27		07:28		06:22		05:38	06:06-06:13/7	05:33	06:03-06:18/15
	17:31		20:14		21:04		21:48		22:04	
31	08:25		07:25				05:37	06:05-06:13/8		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	136		28		86		435	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:19/15	06:09	06:57	07:44	07:36	08:26
	22:04	21:33	20:33	19:25	17:21	16:42
2	05:34 06:04-06:19/15	06:10	06:58	07:46 08:14-08:22/8	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:19/14	06:12 06:42-06:50/8	07:00	07:47 08:12-08:23/11	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:20/14	06:13 06:41-06:50/9	07:02 07:27-07:29/2	07:49 08:14-08:24/10	07:42	08:30
	22:03	21:29	20:26	19:18	17:15	16:40
5	05:36 06:06-06:19/13	06:15 06:43-06:52/9	07:03 07:29-07:31/2	07:51 08:16-08:24/8	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:20/13	06:16 06:44-06:52/8	07:05 07:30-07:31/1	07:52 08:17-08:23/6	07:45	08:32
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:20/12	06:18 06:46-06:53/7	07:06	07:54 08:19-08:23/4	07:47	08:34
	22:01	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:21/12	06:19 06:47-06:52/5	07:08	07:56 08:21-08:23/2	07:49	08:35
	22:01	21:22	20:17	19:10	17:09	16:39
9	05:40 06:10-06:21/11	06:21 06:48-06:52/4	07:09	07:57	07:50	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:21/10	06:22 06:50-06:52/2	07:11	07:59	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:22/10	06:24	07:13	08:01	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:22/9	06:26	07:14	08:02	07:55	08:39
	21:58	21:14	20:08	19:01	17:03	16:38
13	05:44 06:14-06:22/8	06:27	07:16	08:04	07:57	08:40
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45 06:15-06:22/7	06:29	07:17	08:06	07:59	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:22/6	06:30	07:19	08:07	08:01	08:42
	21:55	21:08	20:02	18:54	16:58	16:38
16	05:47 06:17-06:21/4	06:32	07:20	08:09	08:02	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:21/3	06:33	07:22	08:11	08:04	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:21/2	06:35	07:24	08:12	08:06	08:44
	21:52	21:03	19:55	18:48	16:54	16:38
19	05:51	06:36	07:25 07:51-07:58/7	08:14	08:07	08:45
	21:51	21:01	19:52	18:46	16:53	16:39
20	05:52	06:38	07:27 07:52-08:00/8	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28 07:53-08:00/7	08:17	08:11	08:46
	21:49	20:56	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 07:55-08:07/12	08:19	08:12	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:15/6	07:31 07:56-08:08/12	08:21	08:14	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:57	06:44 07:11-07:17/6	07:33 07:58-08:09/11	08:22	08:15	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 07:12-07:17/5	07:35 07:59-08:09/10	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:47 07:14-07:18/4	07:36 08:01-08:09/8	07:26	08:18	08:49
	21:42	20:46	19:37	17:32	16:46	16:42
27	06:02	06:49 07:15-07:17/2	07:38 08:03-08:09/6	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:39 08:04-08:07/3	07:29	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:04	06:52	07:41	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:24	08:49
	21:37	20:37	19:27	17:24	16:43	16:46
31	06:07	06:55		07:35		08:49
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	178	75	89	49	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT09 - VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:41/2	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12 06:37-06:40/3	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11 06:35-06:39/4	05:33	05:37	06:16 06:44-06:48/4	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09 06:34-06:38/4	05:32	05:38	06:18 06:46-06:49/3	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19 06:47-06:50/3	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21 06:48-06:49/1	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:27/1	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:26/1	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:25/2	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:25/3	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:25/4	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:22/3	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01 06:30-06:34/4	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:35/3	06:50	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:36/3	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06 06:34-06:36/2	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:37/1	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	28	0	13	12	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT10 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20 06:44-06:49/5	05:36	05:34 06:04-06:12/8	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:42-06:48/6	05:35	05:34 06:04-06:12/8	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:41-06:47/6	05:35 06:03-06:04/1	05:35 06:05-06:12/7	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:45/6	05:34 06:02-06:04/2	05:36 06:06-06:12/6	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:02-06:05/3	05:36 06:06-06:12/6	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:05/4	05:37 06:07-06:12/5	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:06/5	05:38 06:08-06:12/4	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32 06:00-06:06/6	05:39 06:09-06:12/3	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31 06:00-06:07/7	05:40 06:10-06:12/2	06:21 06:49-06:55/6	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:07/7	05:41 06:11-06:12/1	06:22 06:50-06:56/6	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 05:59-06:07/8	05:42	06:24 06:51-06:56/5	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 05:59-06:07/8	05:43	06:26 06:53-06:57/4	07:14	08:02	07:56	08:39
	17:01	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:08/9	05:44	06:27 06:54-06:57/3	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 05:59-06:08/9	05:45	06:29 06:56-06:58/2	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 05:59-06:09/10	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 05:59-06:09/10	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 05:59-06:09/10	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29 05:59-06:09/10	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44	05:50	05:29 05:59-06:09/10	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 05:59-06:10/11	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:29 05:59-06:10/11	05:54	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:00-06:11/11	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:00-06:11/11	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34	05:44	05:30 06:00-06:10/10	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43	05:31 06:00-06:10/10	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:01-06:11/10	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31 06:01-06:11/10	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32 06:02-06:11/9	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:48-06:50/2	05:39	05:32 06:02-06:11/9	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22 06:46-06:49/3	05:38	05:33 06:03-06:12/9	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	5	23	230	50	26	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 08:50-09:14/24 17:35	07:32 18:25	07:23 07:46-08:07/21 20:17	06:20 06:56-07:17/21 21:06	05:36 06:04-06:24/20 21:50
2	08:49 16:49	08:22 08:48-09:14/26 17:36	07:30 18:26	07:21 07:43-08:05/22 20:19	06:18 06:56-07:16/20 21:08	05:35 06:04-06:25/21 21:51
3	08:49 16:50	08:21 08:48-09:13/25 17:38	07:28 18:28	07:19 07:49-08:04/15 20:20	06:16 06:57-07:14/17 21:09	05:35 06:03-06:25/22 21:53
4	08:49 16:51	08:19 08:49-09:14/25 17:40	07:26 18:30	07:16 07:51-08:02/11 20:22	06:14 06:59-07:13/14 21:11	05:34 06:02-06:26/24 21:54
5	08:49 16:52	08:18 08:49-09:13/24 17:42	07:23 18:32	07:14 07:55-07:57/2 20:23 07:37-07:38/1	06:13 07:02-07:10/8 21:13	05:33 06:02-06:27/25 21:54
6	08:49 16:54	08:16 08:49-09:12/23 17:43	07:21 18:33	07:12 07:34-07:36/2 20:25	06:11 21:14	05:33 06:01-06:27/26 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:50-09:11/21 17:45 08:39-08:41/2	07:19 18:35	07:10 07:32-07:35/3 20:27	06:09 21:16	05:32 06:01-06:28/27 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:52-09:11/19 17:47 08:38-08:42/4	07:17 18:37	07:08 20:28	06:07 21:17	05:32 06:00-06:28/28 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:53-09:10/17 17:49 08:36-08:42/6	07:15 18:38	07:05 20:30	06:06 21:19	05:31 06:00-06:29/29 21:58
10	08:47 09:16-09:22/6 16:59	08:09 08:55-09:08/13 17:51 08:34-08:41/7	07:13 18:40	07:03 20:32	06:04 21:20	05:31 06:00-06:29/29 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:58-09:04/6 17:53 08:32-08:40/8	07:10 18:42	07:01 20:33	06:02 21:22	05:30 05:59-06:29/30 21:59
12	08:46 09:15-09:24/9 17:02	08:06 08:30-08:41/11 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:27/1 21:24	05:30 05:59-06:30/31 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:28-08:41/13 17:56	07:06 18:45	06:57 20:37	05:59 06:25-06:27/2 21:25	05:30 05:59-06:30/31 22:01
14	08:44 09:13-09:25/12 17:04	08:02 08:26-08:41/15 17:58	07:04 18:47	06:54 20:38	05:58 06:23-06:26/3 21:27	05:30 05:59-06:31/32 22:01
15	08:44 09:12-09:26/14 17:06	08:00 08:24-08:41/17 18:00	07:01 18:49	06:52 20:40	05:56 06:22-06:26/4 21:28	05:30 05:59-06:31/32 22:02
16	08:43 09:11-09:26/15 17:08	07:58 08:22-08:41/19 18:02	06:59 07:22-07:24/2 18:50	06:50 07:13-07:16/3 20:42	05:55 06:21-06:26/5 21:30	05:29 05:59-06:32/33 22:02
17	08:42 09:10-09:27/17 17:09	07:56 08:20-08:41/21 18:03	06:57 07:19-07:24/5 18:52	06:48 07:11-07:18/7 20:43	05:53 06:19-06:25/6 21:31	05:29 05:59-06:32/33 22:03
18	08:41 09:09-09:27/18 17:11	07:54 08:20-08:40/20 18:05	06:55 07:17-07:24/7 18:54	06:46 07:09-07:19/10 20:45	05:52 06:18-06:24/6 21:32	05:29 05:59-06:32/33 22:03
19	08:40 09:08-09:27/19 17:12	07:52 08:21-08:39/18 18:07	06:52 07:15-07:24/9 18:55	06:44 07:07-07:20/13 20:47	05:51 06:17-06:23/6 21:34	05:29 05:59-06:32/33 22:04
20	08:39 09:07-09:28/21 17:14	07:51 08:22-08:38/16 18:09	06:50 07:13-07:23/10 18:57	06:42 07:05-07:21/16 20:48	05:49 21:35	05:29 05:59-06:32/33 22:04
21	08:38 09:05-09:27/22 17:16	07:49 08:24-08:36/12 18:10	06:48 07:10-07:21/11 18:59	06:40 07:03-07:21/18 20:50	05:48 21:37	05:30 05:59-06:32/33 22:04
22	08:37 09:04-09:28/24 17:17	07:47 08:27-08:33/6 18:12	06:46 07:10-07:19/9 19:00	06:38 07:01-07:22/21 20:51	05:47 21:38	05:30 06:00-06:33/33 22:04
23	08:36 09:03-09:28/25 17:19	07:44 18:14	06:43 07:13-07:16/3 19:02	06:36 06:59-07:22/23 20:53	05:45 21:39	05:30 06:00-06:33/33 22:05
24	08:35 09:01-09:27/26 17:21	07:42 18:16	06:41 07:03-07:07/4 19:04	06:34 06:57-07:22/25 20:55	05:44 21:41	05:30 06:00-06:33/33 22:05
25	08:33 09:00-09:27/27 17:22	07:40 18:18	06:39 07:01-07:08/7 19:05	06:32 06:55-07:21/26 20:56	05:43 21:42	05:31 06:01-06:34/33 22:05
26	08:32 08:59-09:27/28 17:24	07:38 18:19	06:37 06:59-07:09/10 19:07	06:30 06:54-07:21/27 20:58	05:42 06:09-06:15/6 21:43	05:31 06:01-06:34/33 22:05
27	08:31 08:57-09:25/28 17:26	07:36 18:21	06:34 06:57-07:10/13 19:09	06:28 06:54-07:20/26 21:00	05:41 06:08-06:17/9 21:45	05:31 06:01-06:33/32 22:05
28	08:30 08:56-09:25/29 17:27	07:34 18:23	06:32 06:54-07:09/15 19:10	06:26 06:54-07:20/26 21:01	05:40 06:07-06:19/12 21:46	05:32 06:02-06:34/32 22:05
29	08:28 08:54-09:12/18 17:29 09:13-09:22/9		07:30 07:52-08:09/17 20:12	06:24 06:55-07:20/25 21:03	05:39 06:06-06:20/14 21:47	05:32 06:02-06:33/31 22:04
30	08:27 08:53-09:13/20 17:31		07:28 07:50-08:09/19 20:14	06:22 06:55-07:19/24 21:05	05:38 06:06-06:22/16 21:48	05:33 06:03-06:34/31 22:04
31	08:25 08:51-09:13/22 17:33		07:25 07:48-08:08/20 20:15		05:37 06:05-06:23/18 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	434	418	161	367	188	896

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:34/30	06:09	06:57	07:44	07:36 08:24-08:38/14	08:26 08:57-09:04/7
	22:04	21:33	20:33	19:25	17:21 08:04-08:11/7	16:42
2	05:34 06:04-06:34/30	06:10	06:59	07:46	07:38 08:23-08:40/17	08:27 08:59-09:05/6
	22:04	21:32	20:31	19:23	17:19 08:06-08:11/5	16:41
3	05:35 06:05-06:34/29	06:12	07:00	07:48	07:40 08:21-08:40/19	08:29 09:00-09:04/4
	22:03	21:30	20:29	19:21	17:17 08:08-08:12/4	16:41
4	05:36 06:06-06:34/28	06:13	07:02	07:49	07:42 08:20-08:41/21	08:30 09:02-09:05/3
	22:03	21:29	20:26	19:19	17:16 08:09-08:11/2	16:40
5	05:37 06:06-06:33/27	06:15	07:03 07:29-07:32/3	07:51	07:43 08:19-08:42/23	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:33/26	06:16	07:05 07:30-07:32/2	07:52	07:45 08:19-08:43/24	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:33/25	06:18	07:06 07:32-07:33/1	07:54	07:47 08:19-08:44/25	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:33/24	06:19 07:10-07:20/10	07:08 07:45-07:56/11	07:56	07:49 08:18-08:44/26	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:33/23	06:21 07:07-07:22/15	07:10 07:43-07:58/15	07:57	07:50 08:19-08:44/25	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:33/22	06:23 07:06-07:24/18	07:11 07:36-07:59/23	07:59	07:52 08:21-08:45/24	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:32/20	06:24 07:05-07:25/20	07:13 07:38-08:00/22	08:01	07:54 08:23-08:45/22	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:32/19	06:26 07:04-07:26/22	07:14 07:39-07:59/20	08:02	07:55 08:24-08:44/20	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:31/17	06:27 07:03-07:26/23	07:16 07:41-08:00/19	08:04	07:57 08:26-08:44/18	08:40
	21:57	21:12	20:06	18:59	17:01 08:45-08:54/9	16:38
14	05:45 06:15-06:30/15	06:29 07:02-07:27/25	07:17 07:42-07:59/17	08:06	07:59 08:28-08:57/29	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:29/13	06:30 07:01-07:27/26	07:19 07:44-07:59/15	08:07	08:01 08:30-08:58/28	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:17-06:28/11	06:32 07:01-07:28/27	07:20 07:45-07:58/13	08:09	08:02 08:32-09:00/28	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:26/8	06:33 07:00-07:28/28	07:22 07:47-07:58/11	08:11	08:04 08:34-09:01/27	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:23/4	06:35 07:02-07:28/26	07:24 07:48-07:56/8	08:12	08:06 08:35-09:01/26	08:44
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37 07:03-07:27/24	07:25 07:50-07:55/5	08:14	08:07 08:37-09:02/25	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:27/22	07:27 07:52-07:53/1	08:16 08:57-09:05/8	08:09 08:39-09:03/24	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:26/20	07:28 07:56-08:04/8	08:17 08:54-09:07/13	08:11 08:41-09:03/22	08:46
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:26/18	07:30 07:55-08:06/11	08:19 08:52-09:09/17	08:12 08:43-09:04/21	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:25/16	07:32 07:56-08:06/10	08:21 08:51-09:10/19	08:14 08:44-09:03/19	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:32/3	06:44 07:11-07:24/13	07:33 07:58-08:07/9	08:23 08:51-09:11/20	08:15 08:46-09:04/18	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:34/6	06:46 07:12-07:22/10	07:35 07:59-08:06/7	07:24 07:51-08:11/20	08:17 08:48-09:05/17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:35/6	06:48 07:14-07:21/7	07:36 08:01-08:06/5	07:26 07:53-08:11/18	08:19 08:49-09:04/15	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:36/6	06:49 07:15-07:17/2	07:38 08:03-08:06/3	07:28 07:54-08:11/17	08:20 08:51-09:05/14	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:37/5	06:51	07:39	07:29 07:56-08:11/15	08:22 08:53-09:05/12	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:37/4	06:52	07:41	07:31 07:58-08:10/12	08:23 08:54-09:05/11	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:37/3	06:54	07:43	07:33 08:00-08:10/10	08:24 08:56-09:05/9	08:49
	21:37	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:38/2	06:55		07:35 08:27-08:35/8		08:49
	21:35	20:35		17:23 08:02-08:10/8		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	406	372	239	185	650	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April		May		June
1	08:49	08:24	07:32	07:23	07:45-07:48/3	06:20		05:36
	16:48	17:34	18:24	20:17		21:06		21:50
2	08:49	08:22	07:30	07:21	07:43-07:46/3	06:18		05:35
	16:49	17:36	18:26	20:18		21:08		21:51
3	08:49	08:21	07:28	07:18		06:16		05:35
	16:50	17:38	18:28	20:20		21:09		21:52
4	08:49	08:19	07:26	07:16		06:14		05:34
	16:51	17:40	18:30	20:22		21:11		21:53
5	08:49	08:18	07:23	07:14		06:13		05:33
	16:52	17:42	18:31	20:23		21:12		21:54
6	08:48	08:16	07:21	07:12	07:34-07:35/1	06:11		05:33
	16:53	17:43	18:33	20:25		21:14		21:55
7	08:48	08:14	07:19	07:10	07:32-07:34/2	06:09		05:32
	16:55	17:45	18:35	20:27		21:16		21:56
8	08:48	08:13	07:17	07:07	07:30-07:34/4	06:07		05:32
	16:56	17:47	18:37	20:28		21:17		21:57
9	08:47	08:11	07:15	07:05	07:28-07:32/4	06:06	06:31-06:32/1	05:31
	16:57	17:49	18:38	20:30		21:19		21:58
10	08:47	08:09	07:12	07:03		06:04	06:29-06:30/1	05:31
	16:59	17:51	18:40	20:32		21:20		21:59
11	08:46	08:07	07:10	07:01		06:02	06:28-06:29/1	05:30
	17:00	17:52	18:42	20:33		21:22		21:59
12	08:46	08:06	07:08	06:59		06:01		05:30
	17:01	17:54	18:43	20:35		21:23		22:00
13	08:45	08:04	07:06	06:56		05:59		05:30
	17:03	17:56	18:45	20:37		21:25		22:01
14	08:44	08:02	07:04	06:54		05:58		05:29
	17:04	17:58	18:47	20:38		21:26		22:01
15	08:43	08:00	07:01	06:52		05:56		05:29
	17:06	18:00	18:48	20:40		21:28		22:02
16	08:43	07:58	06:59	06:50		05:55		05:29
	17:07	18:01	18:50	20:41		21:29		22:02
17	08:42	07:56	06:57	06:48		05:53		05:29
	17:09	18:03	18:52	20:43		21:31		22:03
18	08:41	07:54	06:55	06:46		05:52		05:29
	17:10	18:05	18:54	20:45		21:32		22:03
19	08:40	07:52	06:52	06:44		05:50		05:29
	17:12	18:07	18:55	20:46		21:34		22:04
20	08:39	07:50	06:50	06:42		05:49		05:29
	17:14	18:09	18:57	20:48		21:35		22:04
21	08:38	07:48	06:48	06:40		05:48		05:29
	17:15	18:10	18:59	20:50		21:37		22:04
22	08:37	07:46	06:46	06:38		05:46		05:30
	17:17	18:12	19:00	20:51		21:38		22:04
23	08:36	07:44	06:43	06:35		05:45		05:30
	17:19	18:14	19:02	20:53		21:39		22:05
24	08:35	07:42	06:41	06:33		05:44	06:11-06:12/1	05:30
	17:20	18:16	19:04	20:55		21:41		22:05
25	08:33	07:40	06:39	06:31		05:43	06:10-06:12/2	05:30
	17:22	18:17	19:05	20:56		21:42		22:05
26	08:32	07:38	06:37	06:29		05:42	06:09-06:12/3	05:31
	17:24	18:19	19:07	20:58		21:43		22:05
27	08:31	07:36	06:34	06:27		05:41	06:08-06:11/3	05:31
	17:26	18:21	19:08	21:00		21:44		22:05
28	08:29	07:34	06:32	06:26		05:40	06:07-06:11/4	05:32
	17:27	18:23	19:10	21:01		21:46		22:05
29	08:28		07:30	06:24		05:39	06:06-06:10/4	05:32
	17:29		20:12	21:03		21:47		22:04
30	08:27		07:27	06:22		05:38	06:07-06:09/2	05:33
	17:31		20:13	21:04		21:48		22:04
31	08:25		07:25	07:48-07:50/2		05:37		
	17:33		20:15			21:49		
Potential sun hours	262	279	367	415		482		495
Sum of minutes with flicker	0	0	2	17		22		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10	06:39-06:40/1	06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12	06:40-06:41/1	07:00	07:26-07:30/4	07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02	07:27-07:31/4	07:49	07:42	08:30
	22:03		21:28		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03	07:29-07:31/2	07:51	07:43	08:31
	22:02		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05	07:30-07:31/1	07:52	07:45	08:32
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06		07:54	07:47	08:34
	22:01		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08		07:56	07:48	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41		06:22		07:11	07:36-07:39/3	07:59	07:52	08:37
	21:59		21:18		20:13		19:05	17:06	16:38
11	05:42		06:24		07:13	07:38-07:41/3	08:00	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43		06:25		07:14	07:39-07:41/2	08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44		06:27		07:16	07:41-07:42/1	08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45	06:15-06:19/4	06:29		07:17		08:05	07:59	08:41
	21:56		21:10		20:04		18:56	17:00	16:38
15	05:46	06:16-06:20/4	06:30		07:19		08:07	08:01	08:42
	21:55		21:08		20:02		18:54	16:58	16:38
16	05:47	06:17-06:21/4	06:32		07:20		08:09	08:02	08:43
	21:54		21:06		19:59		18:52	16:57	16:38
17	05:48	06:18-06:21/3	06:33		07:22		08:10	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50	06:19-06:21/2	06:35		07:23		08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51	06:20-06:22/2	06:36		07:25		08:14	08:07	08:45
	21:51		21:00		19:52		18:46	16:53	16:39
20	05:52	06:21-06:22/1	06:38		07:27		08:16	08:09	08:46
	21:50		20:58		19:50		18:44	16:52	16:39
21	05:53		06:39		07:28		08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55		06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56		06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44		07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46		07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47		07:36		07:26	08:18	08:49
	21:42		20:46		19:36		17:32	16:46	16:42
27	06:02		06:49		07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51		07:39		07:29	08:21	08:49
	21:39		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52		07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54		07:43		07:33	08:24	08:49
	21:36		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:22		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	20		2		20		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: SWB_WT02_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:01	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:09	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:12	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56 07:19-07:20/1	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:19/2	05:58	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:53	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42 07:05-07:06/1	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40 07:03-07:05/2	05:48	05:29	05:53	06:39 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41 07:08-07:10/2	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43 07:09-07:10/1	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:03	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:36	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52 07:18-07:20/2	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54 07:20-07:21/1	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	6	0	0	0	7	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B WTG: TEN_WT01 - VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.567	878	636	560	8.542

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:04-06:14/10	05:34 06:05-06:23/18	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35 06:04-06:15/11	05:34 06:04-06:23/19	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:03-06:16/13	05:35 06:05-06:23/18	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:02-06:16/14	05:36 06:06-06:24/18	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:02-06:17/15	05:36 06:06-06:23/17	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:17/16	05:37 06:07-06:23/16	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:18/17	05:38 06:08-06:23/15	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32 06:00-06:17/17	05:39 06:09-06:23/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 06:00-06:18/18	05:40 06:10-06:23/13	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:19/19	05:41 06:11-06:23/12	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:01-06:19/18	05:42 06:12-06:23/11	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:00-06:19/19	05:43 06:13-06:22/9	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:00-06:19/19	05:44 06:14-06:22/8	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 06:01-06:19/18	05:45 06:15-06:21/6	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 06:01-06:20/19	05:46 06:16-06:19/3	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 06:01-06:20/19	05:47	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 06:01-06:20/19	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29 06:01-06:20/19	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29 06:02-06:21/19	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 06:02-06:21/19	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30 06:02-06:21/19	05:54	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:03-06:22/19	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:03-06:22/19	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30 06:02-06:22/20	05:58	06:44	07:33	08:23	08:16	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31 06:03-06:22/19	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:03-06:22/19	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31 06:03-06:22/19	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:07-06:08/1	05:32 06:04-06:23/19	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:07-06:12/5	05:32 06:03-06:22/19	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:13/7	05:33 06:04-06:23/19	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:05-06:14/9		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	22	529	197	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

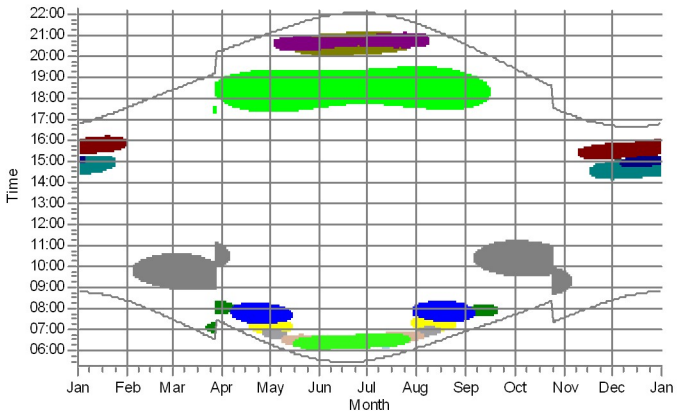
Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
08/04/2026 21:38/4.1.264

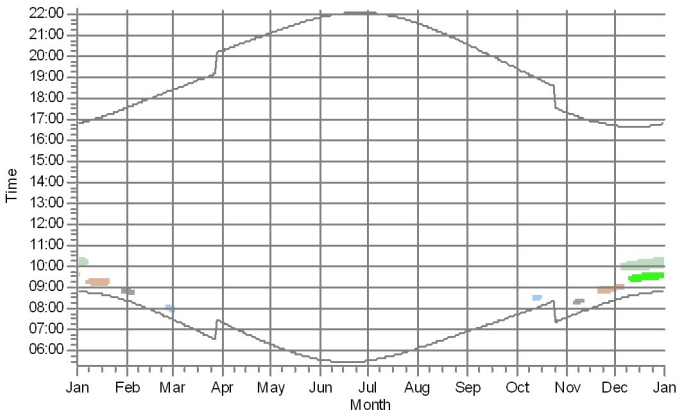
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

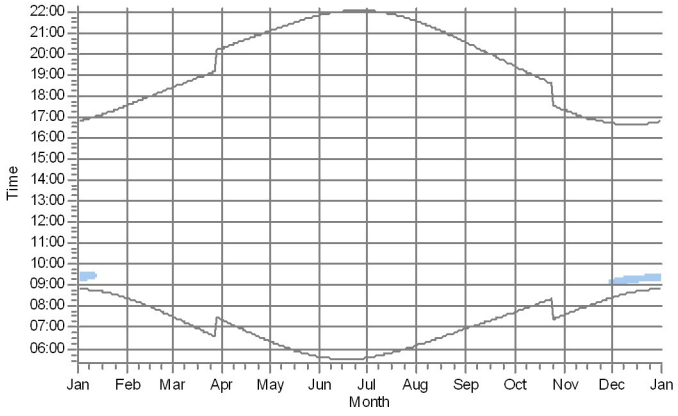
KLZ_WT21: KLZ_WT21 Armasteel



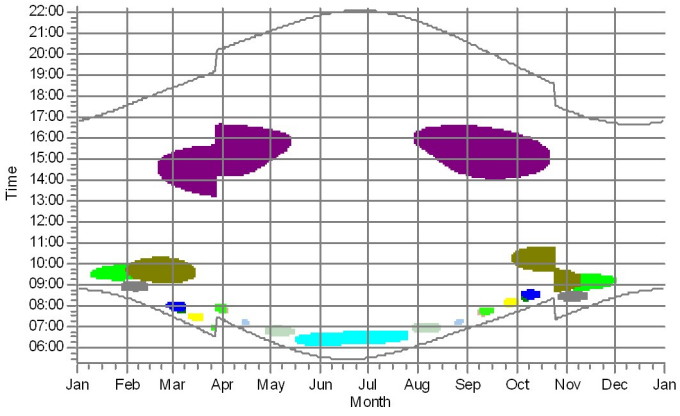
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 19



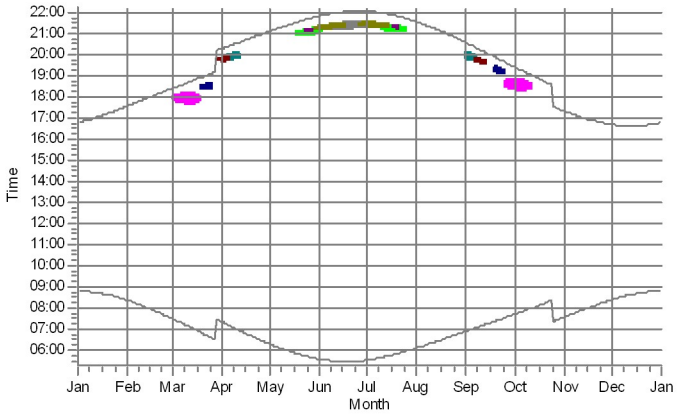
ATS_WT01: NORDEX N149/5.X-pow ercurve 5700 149.0 !O! hub: 156,5 m



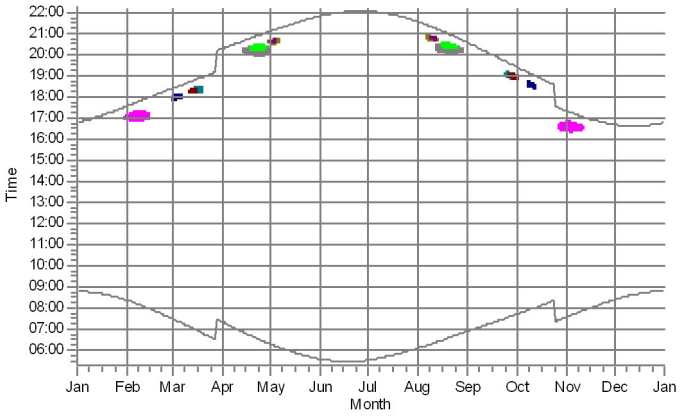
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 r



EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

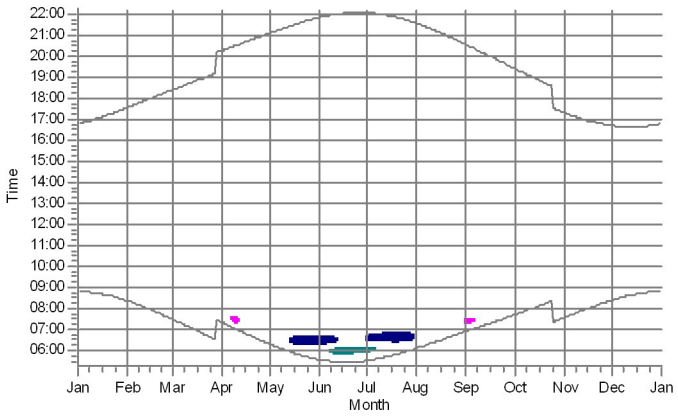
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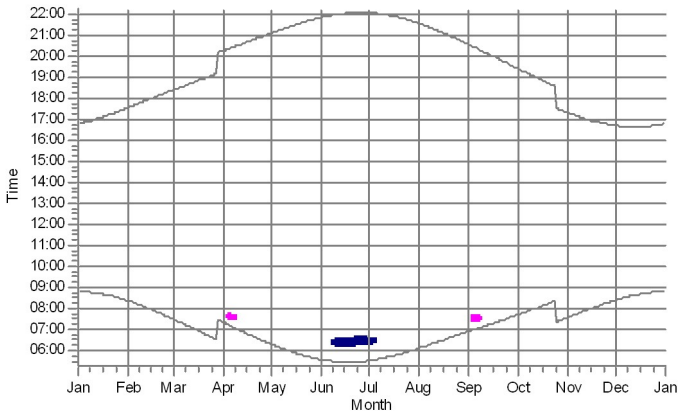
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

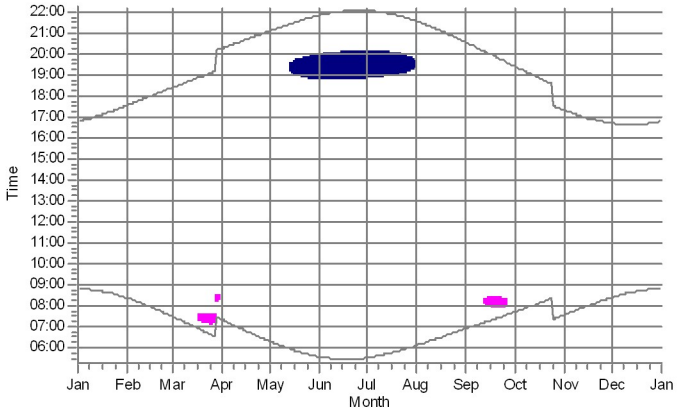
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



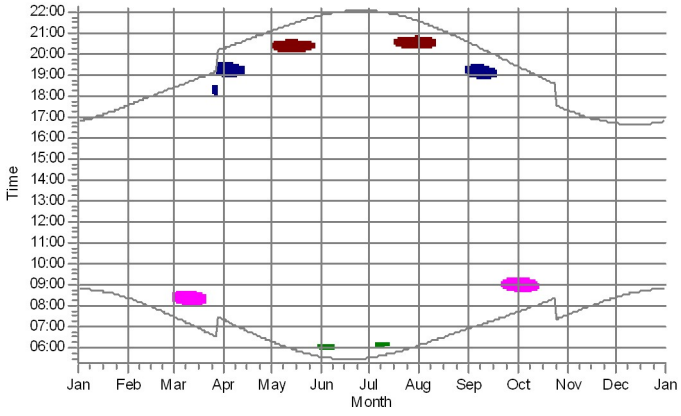
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



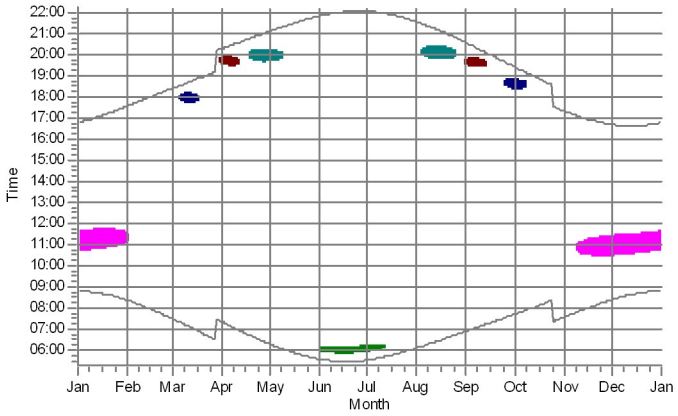
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



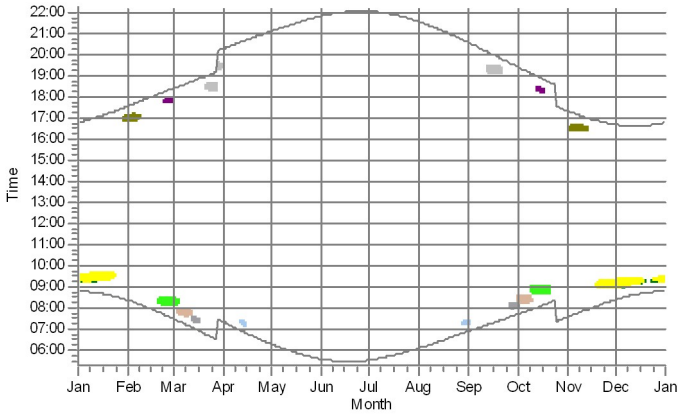
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

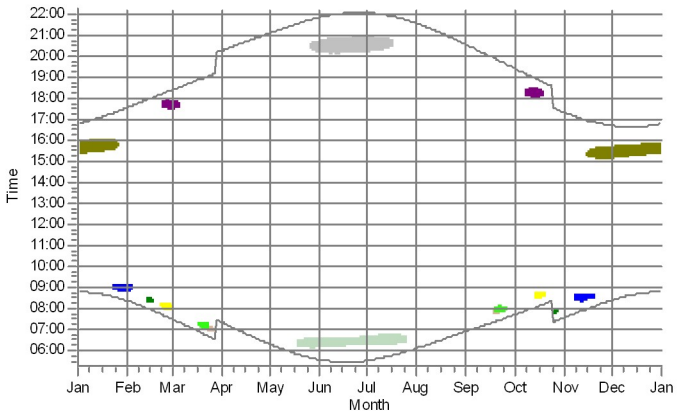
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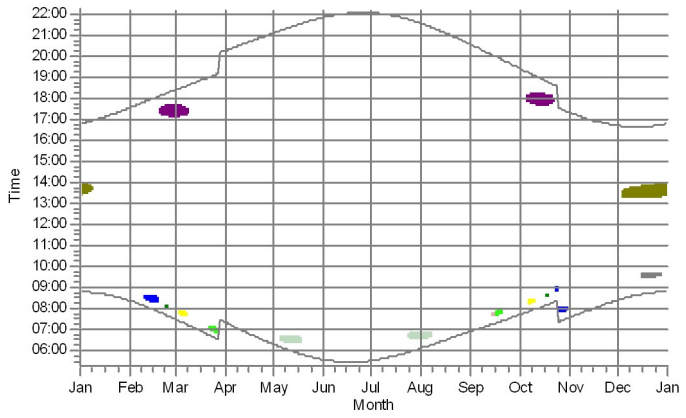
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

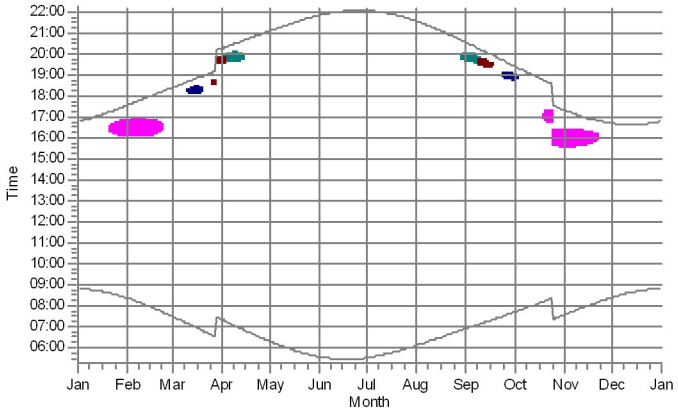
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



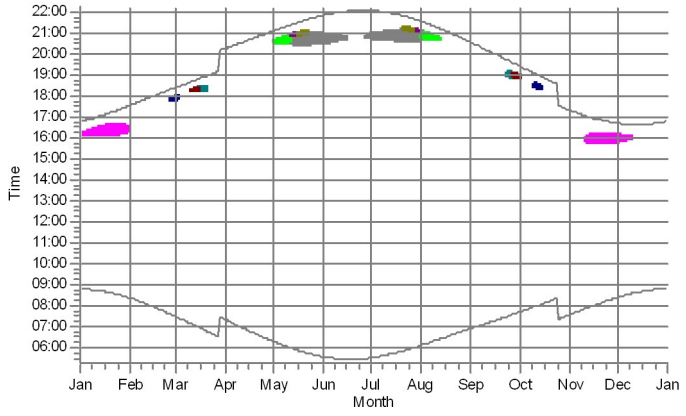
KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



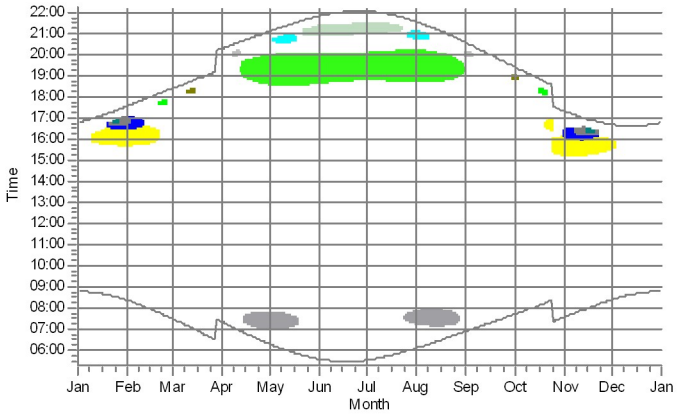
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



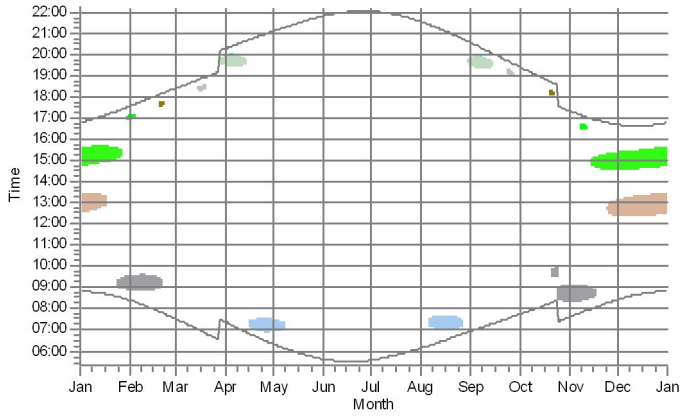
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

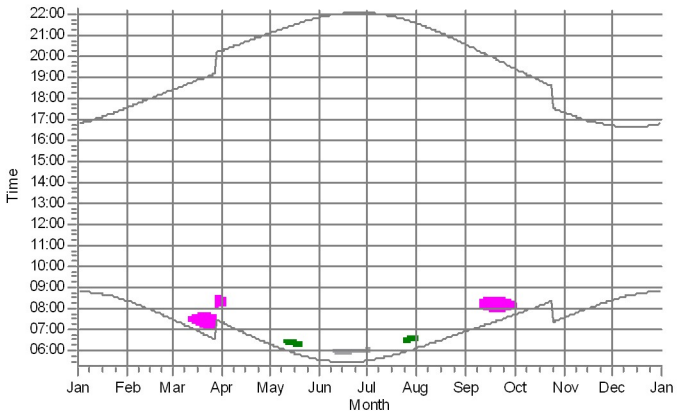
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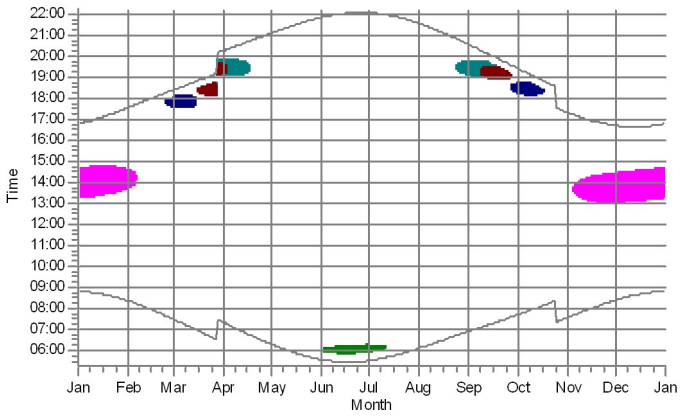
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

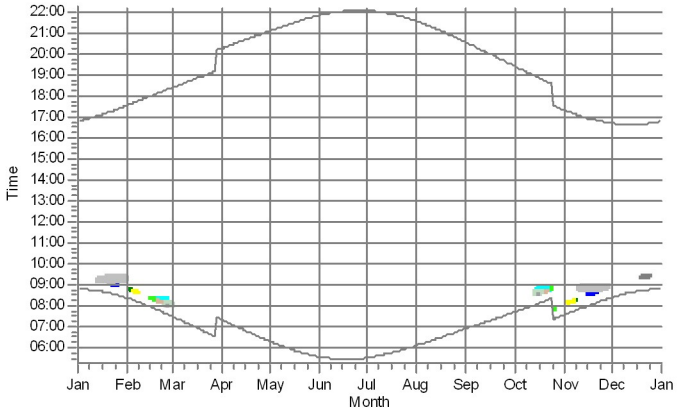
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



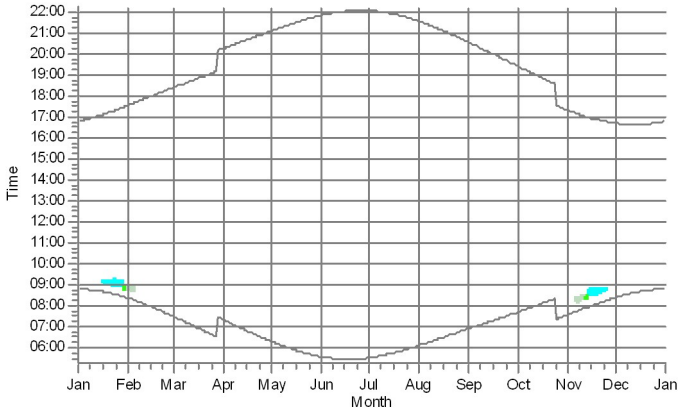
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



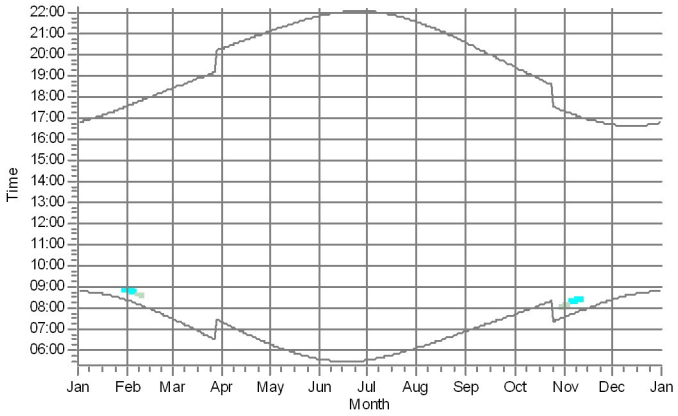
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 23



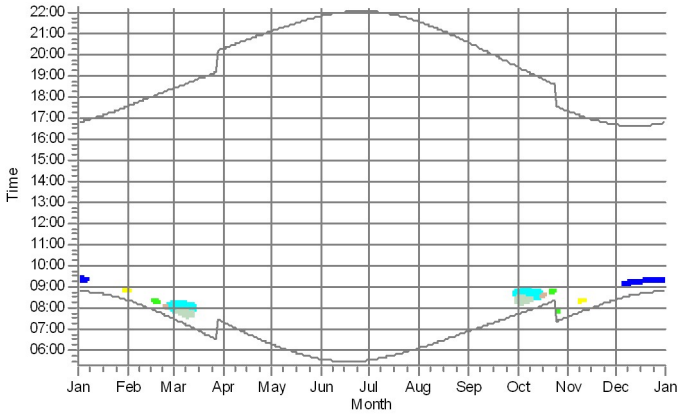
MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

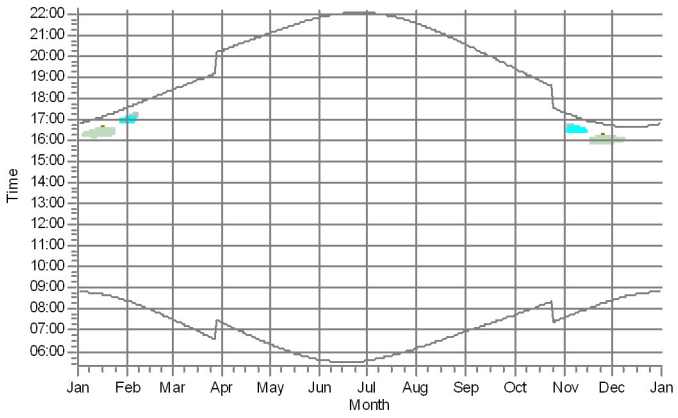
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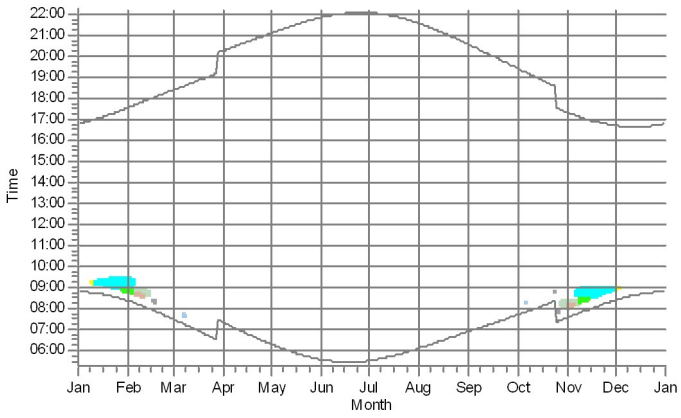
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

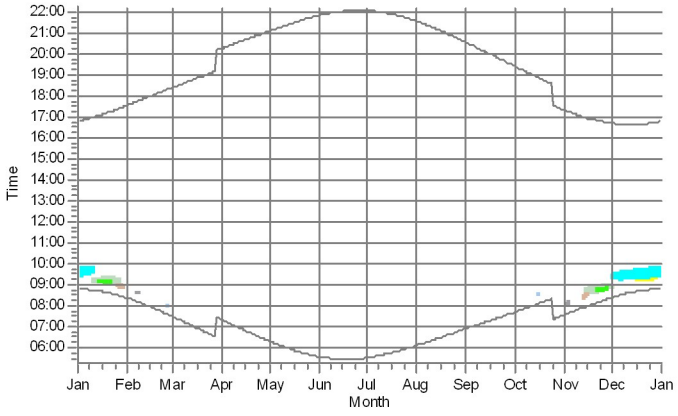
NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 21



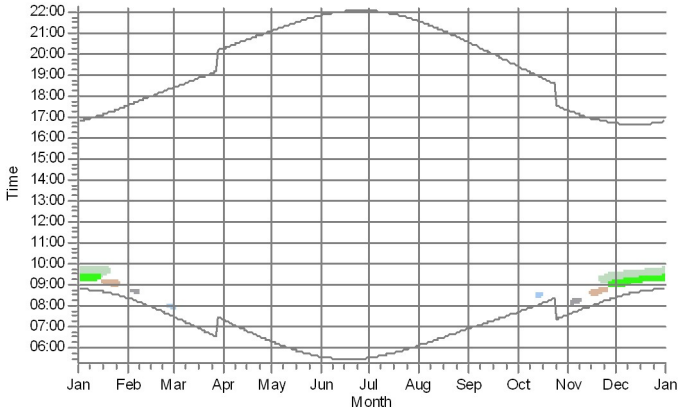
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



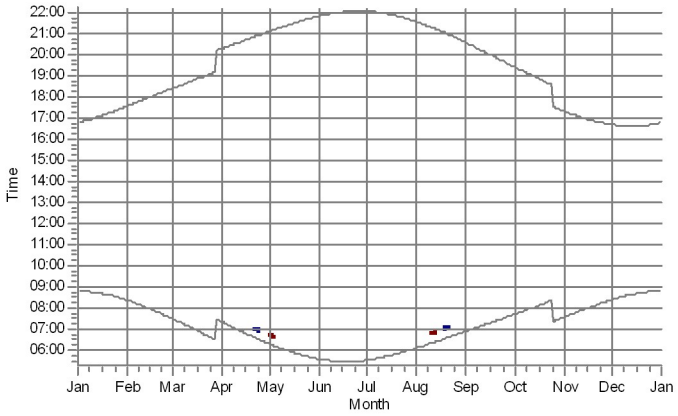
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



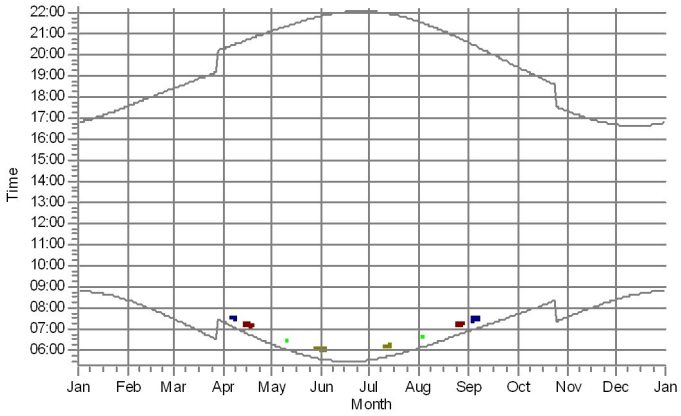
RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

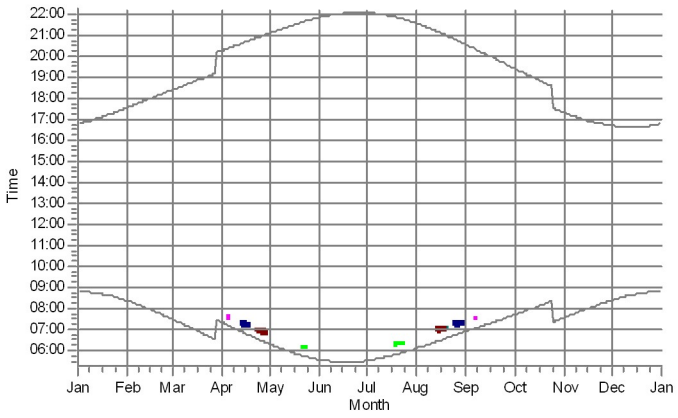
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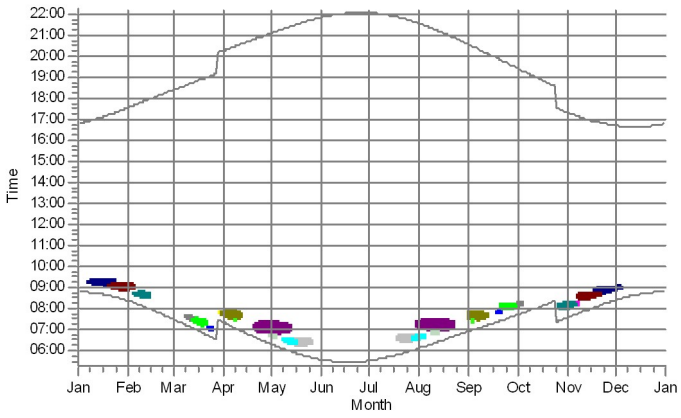
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

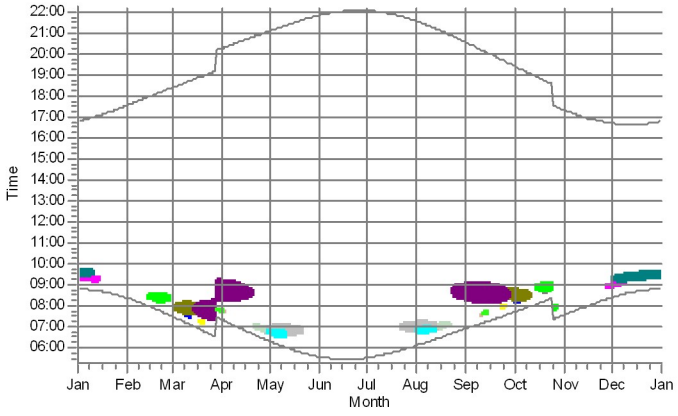
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



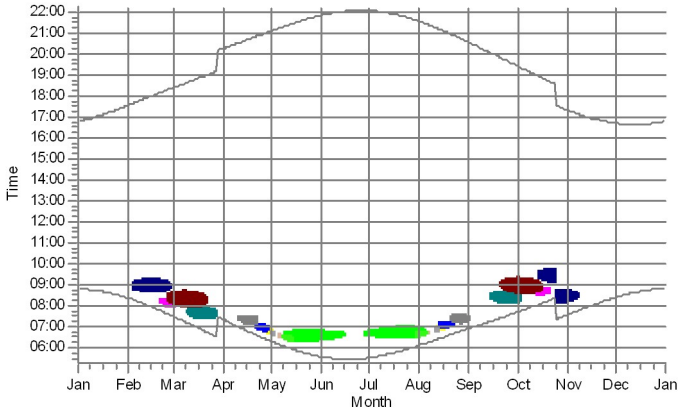
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



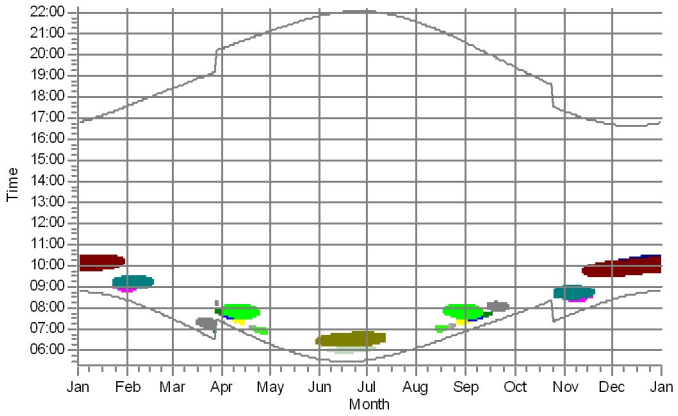
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



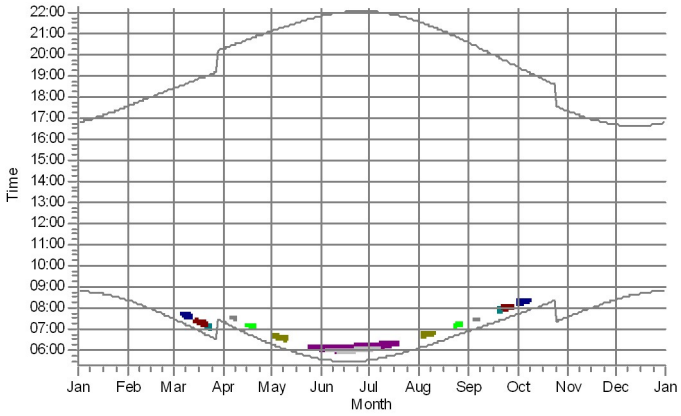
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
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- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

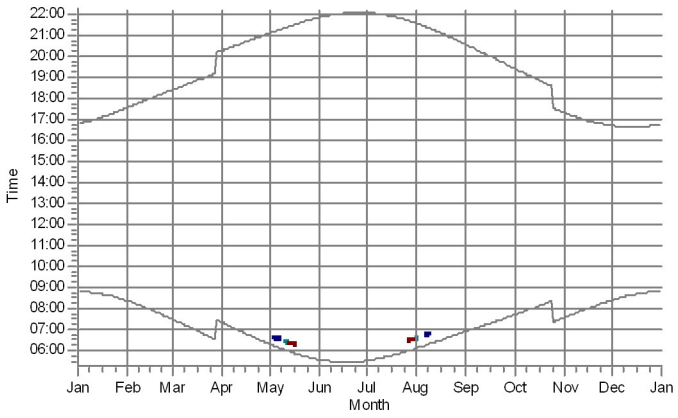
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08/04/2026 21:38/4.1.264

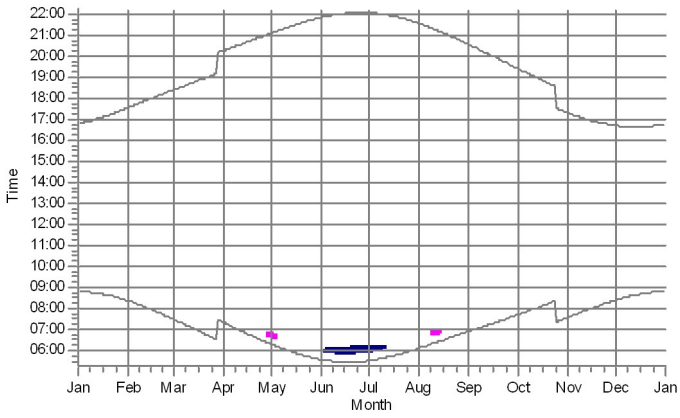
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B

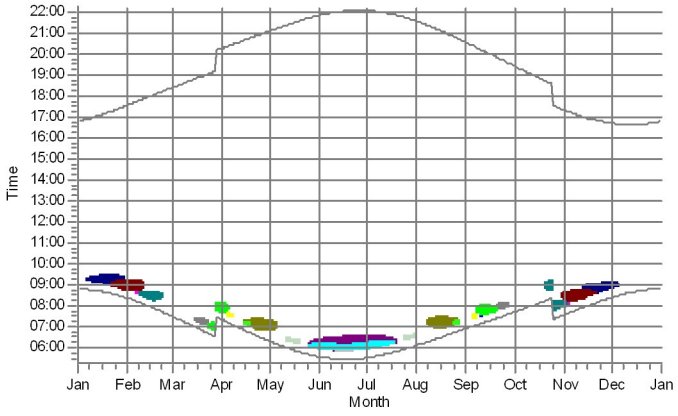
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0



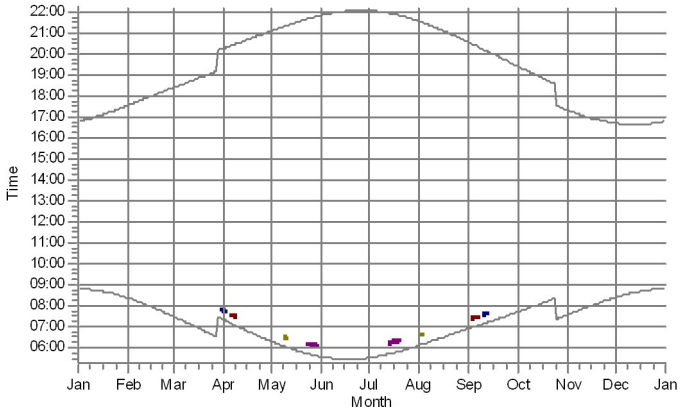
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



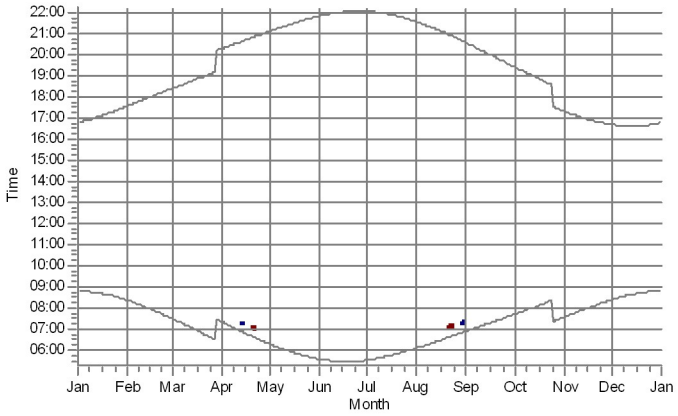
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



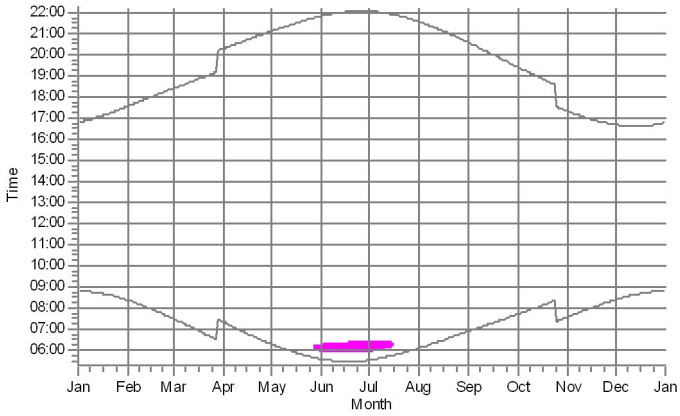
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!



SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!



TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 r



Shadow receptors

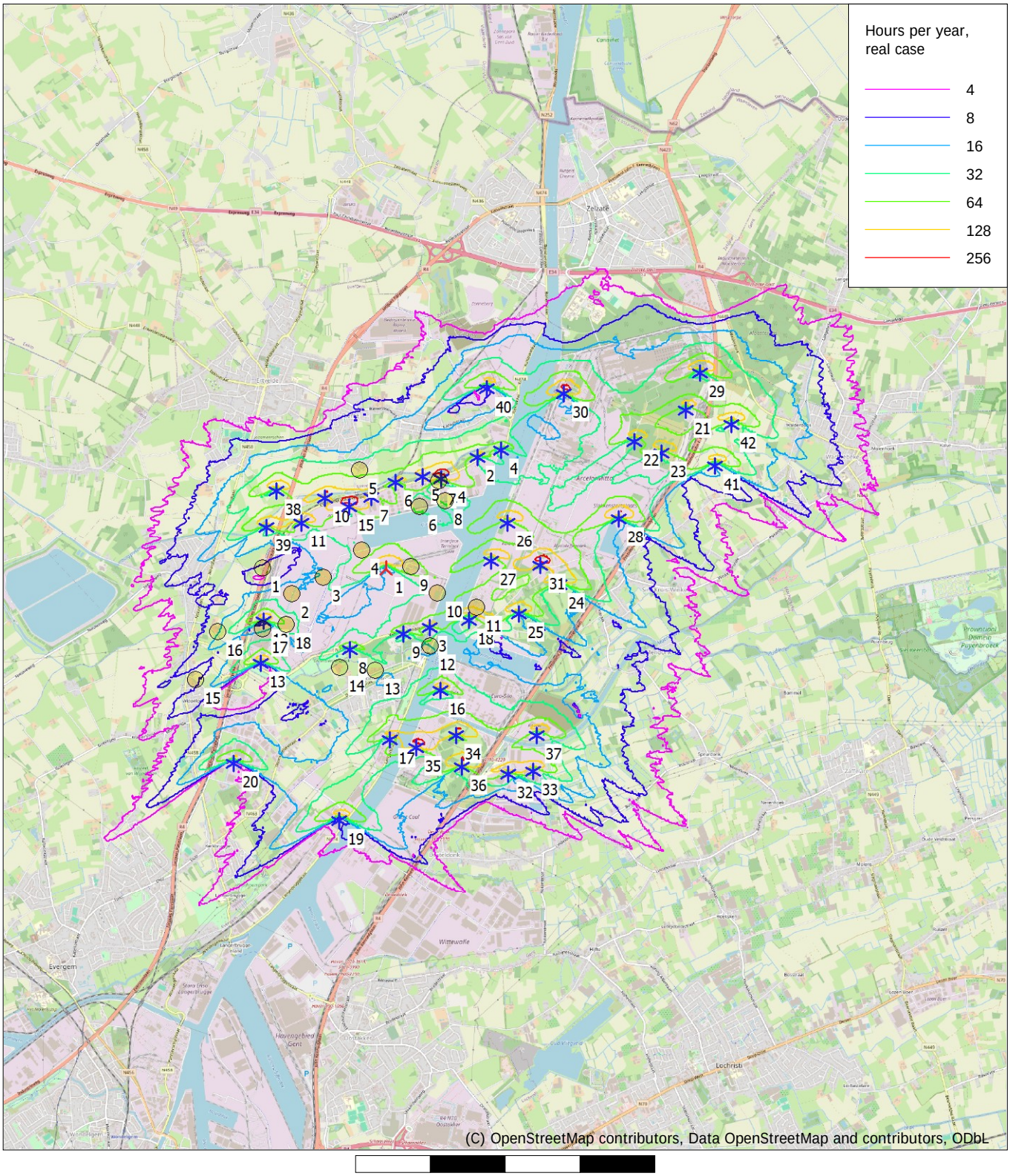
- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

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Calculated:
08/04/2026 21:38/4.1.264

SHADOW - Map

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B



Map: EMD OpenStreetMap , Print scale 1:75.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 109.600 North: 205.160

New WTG Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

Assumptions for shadow calculations

Maximum distance for influence	No limit
Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

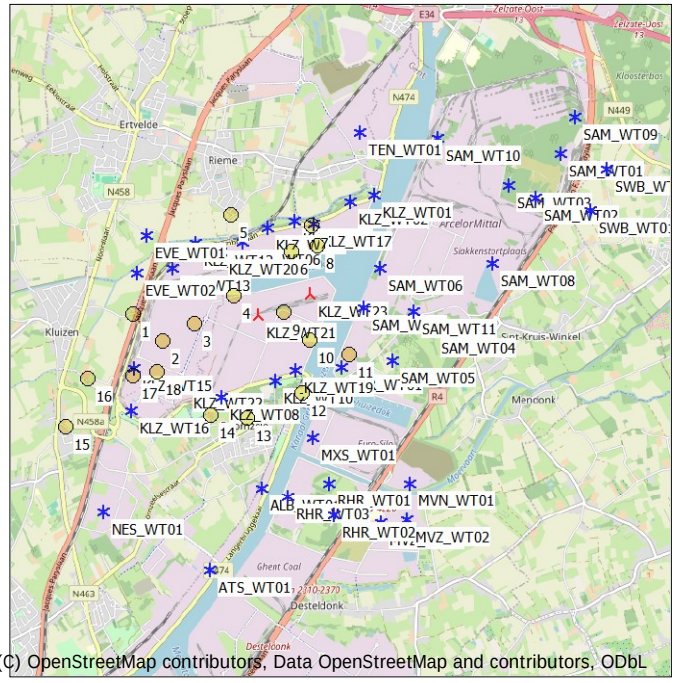
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Monthly aggregation of real case reduction
Idle start wind speed: Cut in wind speed from power curve
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)
Receptor grid resolution: 1,0 m

All coordinates are in
Belgian Lambert72-BD72 (BE 2001 <±1m)



Scale 1:100.000

New WTG | Existing WTG | Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
ALB_WT01	108.129	203.056	6,8	ENERCON E-115 EP3 E...	No	ENERCON	E-115 EP3 E3-4.200	4.200	115,7	135,0	100.000	12,9
ATS_WT01	107.438	201.986	6,5	NORDEX N149/5.X-po...	Yes	NORDEX	N149/5.X-powercurve-5.700	5.700	149,0	156,5	100.000	10,7
CBR_WT01	109.199	204.660	5,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	165,0	100.000	10,4
EVE_WT01	106.632	206.417	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
EVE_WT02	106.491	205.925	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
KLZ_WT01	109.653	206.929	5,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT02	109.337	206.834	6,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT04	108.595	206.585	5,7	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT05	108.233	206.502	6,1	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT06	107.898	206.322	5,5	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT08	107.596	204.270	7,4	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT10	108.320	204.485	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT12	107.283	206.313	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT13	106.963	205.983	6,4	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT15	106.447	204.659	9,6	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT16	106.409	204.106	5,8	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT17	108.845	206.555	5,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT19	108.589	204.627	5,0	VESTAS V168 - FICTIE...	Yes	VESTAS	V168 - FICTIEF-5.600	5.600	168,0	166,0	100.000	-
KLZ_WT20	107.601	206.186	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT21	108.099	205.347	10,0	KLZ_WT21 Armasteel	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	162,5	100.000	-
KLZ_WT22	107.120	204.429	6,4	KLZ_WT22 Magelaanst...	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	197,5	100.000	-
KLZ_WT23	108.781	205.627	9,7	KLZ_WT23 Stukwerkers	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	197,5	100.000	-
MVN_WT01	110.103	203.099	14,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	164,0	100.000	10,7
MVZ_WT01	109.715	202.591	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MVZ_WT02	110.052	202.627	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MXS_WT01	108.810	203.720	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
NES_WT01	106.019	202.761	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	147,0	100.000	12,1
RHR_WT01	109.022	203.110	6,7	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT02	109.082	202.694	10,0	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT03	108.481	202.945	6,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
SAM_WT01	112.131	207.449	8,3	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT02	111.799	206.878	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT03	111.438	207.038	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT04	110.414	205.130	10,0	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT05	109.878	204.734	9,9	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-

To be continued on next page...

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

...continued from previous page

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
SAM_WT06	109.720	205.956	9,1	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT07	109.509	205.446	5,6	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT08	111.215	206.006	10,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	123,0	100.000	10,4
SAM_WT09	112.321	207.938	9,4	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	149,0	100.000	-
SAM_WT10	110.490	207.672	5,8	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SAM_WT11	110.164	205.375	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SWB_WT01_RP	112.521	206.699	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
SWB_WT02_RP	112.740	207.253	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
TEN_WT01	109.463	207.750	10,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	165,0	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	James Cookstraat 10, 9042 Gent	107.778	205.604	8,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Pelikaanstraat 60, 9940 Evergem	107.756	206.679	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 17, 9042 Gent	108.899	206.258	5,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Willem van Rubroeckstraat 26, 9042 Gent	108.776	205.017	5,7	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 14, 9940 Evergem	105.526	203.893	6,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

Calculation Results

Shadow receptor

		Shadow, worst case			Shadow, expected values
No.	Name	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	80:31	236	0:50	14:41
2	Pachtgoederen 2, 9940 Evergem	214:33	245	1:56	39:04
3	Pachtgoederen 2, 9940 Evergem	150:10	260	1:19	33:14
4	James Cookstraat 10, 9042 Gent	293:50	355	1:41	59:42
5	Pelikaanstraat 60, 9940 Evergem	322:38	282	2:56	58:13
6	Christoffel Columbuslaan 23, 9042 Gent	277:23	281	2:07	50:28
7	Christoffel Columbuslaan 23, 9042 Gent	219:27	319	1:37	47:43
8	Christoffel Columbuslaan 17, 9042 Gent	276:23	277	2:26	49:24
9	Willem van Rubroeckstraat 2, 9042 Gent	425:15	338	2:21	107:34
10	Willem van Rubroeckstraat 26, 9042 Gent	403:21	334	2:31	85:00
11	Arbedkaai 3, 9042 Gent	472:17	244	3:57	134:55
12	Terdonkkaai 8, 9042 Gent	80:28	223	0:43	20:25
13	Doornzele Dries 107, 9940 Evergem	125:29	271	1:16	28:47
14	Abdijdreef 2, 9940 Evergem	136:09	300	1:04	30:46
15	Hageland 14, 9940 Evergem	43:02	167	0:37	11:26
16	Molendreef 5, 9940 Evergem	87:32	196	0:57	21:10
17	Amerigo Vespuccistraat 2A, 9940 Evergem	125:15	264	1:15	27:49
18	Pachtgoederen 1, 9940 Evergem	398:58	341	1:55	96:14

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
ALB_WT01	ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)	17:03	2:13
ATS_WT01	NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)	7:12	0:51
CBR_WT01	VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)	430:39	115:49
EVE_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)	26:19	6:25
EVE_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)	20:46	4:51
KLZ_WT01	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)	18:12	5:32
KLZ_WT02	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)	7:31	2:15
KLZ_WT04	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)	79:48	19:10
KLZ_WT05	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)	50:48	12:11
KLZ_WT06	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)	89:19	16:20
KLZ_WT08	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)	32:24	5:40
KLZ_WT10	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)	82:36	18:37
KLZ_WT12	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)	48:00	10:25
KLZ_WT13	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)	52:43	11:44
KLZ_WT15	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)	288:02	71:19
KLZ_WT16	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)	132:45	24:34
KLZ_WT17	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)	20:21	4:59
KLZ_WT19	VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)	370:22	75:30
KLZ_WT20	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)	156:49	31:13
KLZ_WT21	KLZ_WT21 Armasteel	691:31	171:10
KLZ_WT22	KLZ_WT22 Magelaanstraat	512:09	102:30
KLZ_WT23	KLZ_WT23 Stukwerkers	339:08	63:53
MVN_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)	17:38	2:39
MVZ_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)	5:06	0:43
MVZ_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)	2:40	0:24
MXS_WT01	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)	19:46	3:42
NES_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)	12:10	2:12
RHR_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)	22:52	3:19
RHR_WT02	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)	19:42	2:28
RHR_WT03	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)	29:02	3:37
SAM_WT01	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)	0:22	0:06
SAM_WT02	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)	1:33	0:27
SAM_WT03	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)	2:47	0:49
SAM_WT04	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)	52:50	12:55
SAM_WT05	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)	105:12	24:28
SAM_WT06	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)	99:16	23:12
SAM_WT07	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)	121:15	24:33
SAM_WT08	VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)	17:56	5:08
SAM_WT09	VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)	0:53	0:16
SAM_WT10	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)	5:34	1:42
SAM_WT11	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)	72:17	17:08
SWB_WT01_RP	VESTAS V150-6.0 6000 150.0 !O!	1:23	0:24
SWB_WT02_RP	VESTAS V150-6.0 6000 150.0 !O!	0:13	0:03
TEN_WT01	VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)	12:28	3:49

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (KLZ_WT08)	08:24			07:32		07:58 (KLZ_WT19)	07:23		07:48 (SAM_WT07)	06:20			05:36		06:04 (KLZ_WT05)
	16:48	41	10:30 (KLZ_WT22)	17:35			18:25	16	08:14 (KLZ_WT19)	20:17	29	08:17 (KLZ_WT21)	21:06			21:51	2	06:06 (KLZ_WT05)
2	08:50		09:20 (KLZ_WT08)	08:23		08:48 (MVN_WT01)	07:30		07:53 (CBR_WT01)	07:21		07:52 (KLZ_WT21)	06:18			05:36		06:04 (KLZ_WT05)
	16:49	43	10:31 (KLZ_WT22)	17:37	1	08:49 (MVN_WT01)	18:27	15	08:13 (KLZ_WT19)	20:19	24	08:16 (KLZ_WT21)	21:08			21:52	3	06:07 (KLZ_WT05)
3	08:49		09:20 (KLZ_WT08)	08:21		08:46 (MVN_WT01)	07:28		07:51 (CBR_WT01)	07:19		07:52 (KLZ_WT21)	06:17			05:35		06:03 (KLZ_WT05)
	16:50	44	10:32 (KLZ_WT22)	17:38	2	08:48 (MVN_WT01)	18:28	16	08:12 (KLZ_WT19)	20:20	23	08:15 (KLZ_WT21)	21:10			21:53	3	06:06 (KLZ_WT05)
4	08:49		09:19 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (CBR_WT01)	07:17		07:53 (KLZ_WT21)	06:15			05:34		06:02 (KLZ_WT05)
	16:51	44	10:31 (KLZ_WT22)	17:40	1	08:46 (MVN_WT01)	18:30	14	08:10 (KLZ_WT19)	20:22	21	08:14 (KLZ_WT21)	21:11			21:54	4	06:06 (KLZ_WT05)
5	08:49		09:19 (KLZ_WT08)	08:18			07:24		07:47 (CBR_WT01)	07:14		07:37 (KLZ_WT23)	06:13			05:34		06:02 (KLZ_WT05)
	16:53	45	10:32 (KLZ_WT22)	17:42			18:32	8	07:55 (CBR_WT01)	20:24	26	08:13 (KLZ_WT21)	21:13			21:55	5	06:07 (KLZ_WT20)
6	08:49		09:18 (KLZ_WT08)	08:16			07:22		07:44 (CBR_WT01)	07:12		07:34 (KLZ_WT23)	06:11			05:33		06:01 (KLZ_WT05)
	16:54	46	10:32 (KLZ_WT22)	17:44			18:33	10	07:54 (CBR_WT01)	20:25	26	08:10 (KLZ_WT21)	21:14			21:56	6	06:07 (KLZ_WT20)
7	08:48		09:18 (KLZ_WT08)	08:15			07:19		07:43 (CBR_WT01)	07:10		07:32 (KLZ_WT23)	06:09			05:32		06:01 (KLZ_WT05)
	16:55	47	10:33 (KLZ_WT22)	17:46			18:35	10	07:53 (CBR_WT01)	20:27	24	08:07 (KLZ_WT21)	21:16			21:57	7	06:08 (KLZ_WT20)
8	08:48		09:17 (KLZ_WT08)	08:13			07:17		07:45 (CBR_WT01)	07:08		07:30 (KLZ_WT23)	06:08			05:32		06:01 (KLZ_WT06)
	16:56	48	10:33 (KLZ_WT22)	17:47			18:37	6	07:51 (CBR_WT01)	20:29	16	07:46 (KLZ_WT23)	21:18			21:57	9	06:10 (KLZ_WT20)
9	08:48		09:18 (KLZ_WT08)	08:11			07:15			07:06		07:29 (KLZ_WT23)	06:06			05:31		06:00 (KLZ_WT06)
	16:58	48	10:34 (KLZ_WT22)	17:49			18:39			20:30	18	07:47 (KLZ_WT23)	21:19			21:58	9	06:09 (KLZ_WT20)
10	08:47		09:18 (KLZ_WT08)	08:09			07:13		07:35 (SAM_WT05)	07:03		07:29 (KLZ_WT23)	06:04			05:31		06:00 (KLZ_WT06)
	16:59	48	10:34 (KLZ_WT22)	17:51			18:40	1	07:36 (SAM_WT05)	20:32	18	07:47 (KLZ_WT23)	21:21			21:59	10	06:10 (KLZ_WT20)
11	08:47		09:15 (RHR_WT01)	08:08			07:11		07:33 (SAM_WT05)	07:01		07:24 (SAM_WT06)	06:03		06:28 (KLZ_WT17)	05:31		06:00 (KLZ_WT06)
	17:00	50	10:35 (KLZ_WT22)	17:53			18:42	2	07:35 (SAM_WT05)	20:34	18	07:46 (KLZ_WT23)	21:22	1	06:29 (KLZ_WT17)	22:00	11	06:11 (KLZ_WT20)
12	08:46		09:15 (RHR_WT01)	08:06			07:08			06:59		07:21 (SAM_WT06)	06:01		06:26 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:02	49	10:36 (KLZ_WT22)	17:55			18:44			20:35	20	07:45 (KLZ_WT23)	21:24	3	06:29 (KLZ_WT17)	22:00	12	06:11 (KLZ_WT20)
13	08:45		09:14 (RHR_WT01)	08:04			07:06			06:57		07:19 (SAM_WT06)	06:00		06:25 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:03	48	10:36 (KLZ_WT22)	17:56			18:45			20:37	20	07:44 (KLZ_WT23)	21:25	4	06:29 (KLZ_WT17)	22:01	12	06:11 (KLZ_WT20)
14	08:45		09:13 (RHR_WT01)	08:02		08:26 (KLZ_WT10)	07:04			06:55		07:17 (SAM_WT06)	05:58		06:23 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:05	45	10:36 (KLZ_WT22)	17:58	2	08:28 (KLZ_WT10)	18:47			20:39	18	07:42 (KLZ_WT23)	21:27	5	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
15	08:44		09:59 (KLZ_WT22)	08:00		08:24 (KLZ_WT10)	07:02			06:53		07:15 (SAM_WT06)	05:56		06:22 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:06	37	10:36 (KLZ_WT22)	18:00	3	08:27 (KLZ_WT10)	18:49			20:40	15	07:40 (KLZ_WT23)	21:28	6	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
16	08:43		09:59 (KLZ_WT22)	07:58		08:22 (KLZ_WT10)	06:59			06:50			05:55		06:21 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:08	37	10:36 (KLZ_WT22)	18:02	4	08:26 (KLZ_WT10)	18:51			20:42			21:30	7	06:28 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
17	08:42		10:00 (KLZ_WT22)	07:57			06:57			06:48			05:54		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:09	36	10:36 (KLZ_WT22)	18:04			18:52			20:43			21:31	8	06:27 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
18	08:41		10:01 (KLZ_WT22)	07:55			06:55			06:46			05:52		06:18 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:11	35	10:36 (KLZ_WT22)	18:05			18:54			20:45			21:33	8	06:26 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
19	08:40		10:01 (KLZ_WT22)	07:53			06:53			06:44			05:51		06:17 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:12	36	10:37 (KLZ_WT22)	18:07			18:56			20:47			21:34	8	06:25 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
20	08:39		10:02 (KLZ_WT22)	07:51			06:50			06:42			05:49		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:14	35	10:37 (KLZ_WT22)	18:09			18:57			20:48			21:35	5	06:24 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
21	08:38		10:02 (KLZ_WT22)	07:49			06:48			06:40			05:48			05:30		05:59 (KLZ_WT06)
	17:16	34	10:36 (KLZ_WT22)	18:11			18:59			20:50			21:37			22:04	15	06:14 (KLZ_WT20)
22	08:37		10:03 (KLZ_WT22)	07:47		08:10 (KLZ_WT19)	06:46			06:38			05:47			05:30		06:00 (KLZ_WT06)
	17:17	33	10:36 (KLZ_WT22)	18:12	2	08:12 (KLZ_WT19)	19:01			20:52			21:38			22:05	14	06:14 (KLZ_WT20)
23	08:36		10:04 (KLZ_WT22)	07:45		08:08 (KLZ_WT19)	06:44		07:06 (KLZ_WT21)	06:36			05:46			05:30		06:00 (KLZ_WT06)
	17:19	31	10:35 (KLZ_WT22)	18:14	6	08:14 (KLZ_WT19)	19:02	4	07:10 (KLZ_WT21)	20:53			21:40			22:05	14	06:14 (KLZ_WT20)
24	08:35		10:06 (KLZ_WT22)	07:43		08:06 (KLZ_WT19)	06:41		07:04 (KLZ_WT21)	06:34			05:44			05:31		06:00 (KLZ_WT06)
	17:21	29	10:35 (KLZ_WT22)	18:16	9	08:15 (KLZ_WT19)	19:04	10	07:14 (KLZ_WT21)	20:55			21:41			22:05	14	06:14 (KLZ_WT20)
25	08:34		10:06 (KLZ_WT22)	07:41		08:04 (KLZ_WT19)	06:39		07:01 (KLZ_WT21)	06:32			05:43			05:31		06:01 (KLZ_WT06)
	17:22	28	10:34 (KLZ_WT22)	18:18	11	08:15 (KLZ_WT19)	19:06	14	07:15 (KLZ_WT21)	20:57			21:42			22:05	14	06:15 (KLZ_WT20)
26	08:32		10:08 (KLZ_WT22)	07:39		08:02 (KLZ_WT19)	06:37		06:59 (KLZ_WT21)	06:30			05:42			05:31		06:01 (KLZ_WT06)
	17:24	25	10:33 (KLZ_WT22)	18:20	14	08:16 (KLZ_WT19)	19:07	17	07:16 (KLZ_WT21)	20:58			21:43			22:05	14	06:15 (KLZ_WT20)
27	08:31		10:09 (KLZ_WT22)	07:36		08:00 (KLZ_WT19)	06:35		06:57 (KLZ_WT21)	06:28			05:41			05:32		06:02 (KLZ_WT06)
	17:26	23	10:32 (KLZ_WT22)	18:21	16	08:16 (KLZ_WT19)	19:09	20	07:17 (KLZ_WT21)	21:00			21:45			22:05	13	06:15 (KLZ_WT20)
28	08:30		10:11 (KLZ_WT22)	07:34		07:57 (KLZ_WT19)	06:32		06:55 (SAM_WT07)	06:26			05:40			05:32		06:02 (KLZ_WT06)
	17:28	20	10:31 (KLZ_WT22)	18:23	18	08:15 (KLZ_WT19)	19:10	23	07:18 (KLZ_WT21)	21:01			21:46			22:05	13	06:15 (KLZ_WT20)
29	08:28		10:13 (KLZ_WT22)				07:30		07:52 (SAM_WT07)	06:24			05:39			05:33		06:03 (KLZ_WT06)
	17:29	15	10:28 (KLZ_WT22)				20:12	25	08:17 (KLZ_WT21)	21:03			21:47			22:05	13	06:16 (KLZ_WT20)
30	08:27		10:17 (KLZ_WT22)				07:28		07:50 (SAM_WT07)	06:22			05:38			05:33		06:03 (KLZ_WT06)
	17:31	8	10:25 (KLZ_WT22)				20:14	27	08:17 (KLZ_WT21)	21:05			21:48			22:05	12	06:15 (KLZ_WT20)
31	08:26						07:26		07:48 (SAM_WT07)				05:37		06:05 (KLZ_WT05)			
	17:33						20:15	29	08:17 (KLZ_WT21)				21:49	1	06:06 (KLZ_WT05)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1108			89			267			316			56			325	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,56			0,55			0,60			0,63			0,70			0,71	
Total reduction		0,14			0,16			0,22			0,28			0,31			0,31	
Total, real		150			14			59			90			17			100	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT06)	06:09		06:37 (KLZ_WT17)	06:57		07:23 (SAM_WT06)	07:45			07:37			08:26		08:57 (RHR_WT01)
	22:04	11	06:15 (KLZ_WT20)	21:34	2	06:39 (KLZ_WT17)	20:33	18	07:45 (KLZ_WT23)	19:25			17:21			16:42	50	10:17 (KLZ_WT22)
2	05:35		06:04 (KLZ_WT06)	06:11			06:59		07:27 (KLZ_WT23)	07:46		08:11 (SAM_WT05)	07:38			08:27		09:01 (KLZ_WT08)
	22:04	11	06:15 (KLZ_WT20)	21:32			20:31	18	07:45 (KLZ_WT23)	19:23	2	08:13 (SAM_WT05)	17:19			16:42	48	10:17 (KLZ_WT22)
3	05:35		06:05 (KLZ_WT06)	06:12			07:00		07:27 (KLZ_WT23)	07:48		08:12 (SAM_WT05)	07:40			08:29		09:01 (KLZ_WT08)
	22:04	10	06:15 (KLZ_WT20)	21:30			20:29	18	07:45 (KLZ_WT23)	19:21	2	08:14 (SAM_WT05)	17:17			16:41	48	10:17 (KLZ_WT22)
4	05:36		06:06 (KLZ_WT06)	06:14			07:02		07:27 (KLZ_WT23)	07:49			07:42			08:30		09:02 (KLZ_WT08)
	22:03	9	06:15 (KLZ_WT20)	21:29			20:27	16	07:43 (KLZ_WT23)	19:19			17:16			16:40	48	10:18 (KLZ_WT22)
5	05:37		06:07 (KLZ_WT05)	06:15			07:03		07:29 (KLZ_WT23)	07:51		08:23 (CBR_WT01)	07:44			08:31		09:03 (KLZ_WT08)
	22:03	8	06:15 (KLZ_WT20)	21:27			20:24	24	08:04 (KLZ_WT21)	19:17	4	08:27 (CBR_WT01)	17:14			16:40	47	10:18 (KLZ_WT22)
6	05:38		06:07 (KLZ_WT05)	06:17			07:05		07:30 (KLZ_WT23)	07:53		08:20 (CBR_WT01)	07:45			08:33		09:04 (KLZ_WT08)
	22:02	7	06:14 (KLZ_WT20)	21:25			20:22	26	08:06 (KLZ_WT21)	19:14	8	08:28 (CBR_WT01)	17:12			16:40	46	10:18 (KLZ_WT22)
7	05:38		06:08 (KLZ_WT05)	06:18			07:07		07:32 (KLZ_WT23)	07:54		08:19 (CBR_WT01)	07:47		08:15 (MVN_WT01)	08:34		09:06 (KLZ_WT08)
	22:02	6	06:14 (KLZ_WT20)	21:24			20:20	27	08:08 (KLZ_WT21)	19:12	11	08:30 (CBR_WT01)	17:11	2	08:17 (MVN_WT01)	16:39	45	10:19 (KLZ_WT22)
8	05:39		06:09 (KLZ_WT05)	06:20			07:08		07:33 (KLZ_WT23)	07:56		08:21 (CBR_WT01)	07:49		08:17 (MVN_WT01)	08:35		09:07 (KLZ_WT08)
	22:01	4	06:13 (KLZ_WT05)	21:22			20:18	23	08:08 (KLZ_WT21)	19:10	9	08:30 (CBR_WT01)	17:09	2	08:19 (MVN_WT01)	16:39	44	10:19 (KLZ_WT22)
9	05:40		06:10 (KLZ_WT05)	06:21			07:10		07:47 (KLZ_WT21)	07:58		08:22 (CBR_WT01)	07:51			08:36		09:08 (KLZ_WT08)
	22:00	3	06:13 (KLZ_WT05)	21:20			20:16	22	08:09 (KLZ_WT21)	19:08	10	08:41 (KLZ_WT19)	17:07			16:39	44	10:20 (KLZ_WT22)
10	05:41		06:11 (KLZ_WT05)	06:23			07:11		07:45 (KLZ_WT21)	07:59		08:24 (CBR_WT01)	07:52			08:37		09:09 (KLZ_WT08)
	22:00	3	06:14 (KLZ_WT05)	21:18			20:13	24	08:09 (KLZ_WT21)	19:05	15	08:45 (KLZ_WT19)	17:06			16:38	43	10:20 (KLZ_WT22)
11	05:42		06:12 (KLZ_WT05)	06:24			07:13		07:40 (SAM_WT07)	08:01		08:26 (CBR_WT01)	07:54			08:38		09:10 (KLZ_WT08)
	21:59	2	06:14 (KLZ_WT05)	21:16			20:11	29	08:09 (KLZ_WT21)	19:03	17	08:47 (KLZ_WT19)	17:04			16:38	41	10:20 (KLZ_WT22)
12	05:43		06:13 (KLZ_WT05)	06:26			07:14		07:39 (SAM_WT07)	08:02		08:32 (KLZ_WT19)	07:56		09:48 (KLZ_WT22)	08:39		09:11 (KLZ_WT08)
	21:58	2	06:15 (KLZ_WT05)	21:14			20:09	30	08:09 (KLZ_WT21)	19:01	16	08:48 (KLZ_WT19)	17:03	9	09:57 (KLZ_WT22)	16:38	40	10:20 (KLZ_WT22)
13	05:44		06:14 (KLZ_WT05)	06:27			07:16		07:41 (SAM_WT07)	08:04		08:31 (KLZ_WT19)	07:57		09:45 (KLZ_WT22)	08:40		09:12 (KLZ_WT08)
	21:57	1	06:15 (KLZ_WT05)	21:13			20:06	28	08:09 (KLZ_WT21)	18:59	17	08:48 (KLZ_WT19)	17:01	15	10:00 (KLZ_WT22)	16:38	40	10:21 (KLZ_WT22)
14	05:45			06:29			07:18		07:42 (SAM_WT07)	08:06		08:31 (KLZ_WT19)	07:59		09:43 (KLZ_WT22)	08:41		09:13 (KLZ_WT08)
	21:57			21:11			20:04	26	08:08 (KLZ_WT21)	18:57	17	08:48 (KLZ_WT19)	17:00	20	10:03 (KLZ_WT22)	16:38	39	10:21 (KLZ_WT22)
15	05:47			06:30			07:19		07:44 (SAM_WT07)	08:07		08:33 (KLZ_WT19)	08:01		09:42 (KLZ_WT22)	08:42		09:14 (KLZ_WT08)
	21:56			21:09			20:02	23	08:07 (KLZ_WT21)	18:55	15	08:48 (KLZ_WT19)	16:59	23	10:05 (KLZ_WT22)	16:38	38	10:22 (KLZ_WT22)
16	05:48			06:32			07:21		07:45 (SAM_WT07)	08:09		08:35 (KLZ_WT19)	08:03		09:41 (KLZ_WT22)	08:43		09:15 (KLZ_WT08)
	21:55			21:07			20:00	21	08:06 (KLZ_WT21)	18:53	13	08:48 (KLZ_WT19)	16:57	25	10:06 (KLZ_WT22)	16:38	37	10:22 (KLZ_WT22)
17	05:49			06:34			07:22		07:47 (KLZ_WT21)	08:11		08:36 (KLZ_WT19)	08:04		09:40 (KLZ_WT22)	08:44		09:16 (KLZ_WT08)
	21:54			21:05			19:57	18	08:05 (KLZ_WT21)	18:50	10	08:46 (KLZ_WT19)	16:56	28	10:08 (KLZ_WT22)	16:39	37	10:23 (KLZ_WT22)
18	05:50			06:35			07:24		07:49 (KLZ_WT21)	08:13		08:38 (KLZ_WT19)	08:06		09:40 (KLZ_WT22)	08:45		09:16 (KLZ_WT08)
	21:53			21:03			19:55	15	08:04 (KLZ_WT21)	18:48	8	08:46 (KLZ_WT19)	16:55	29	10:09 (KLZ_WT22)	16:39	36	10:22 (KLZ_WT22)
19	05:51			06:37			07:25		07:50 (KLZ_WT21)	08:14		08:40 (KLZ_WT19)	08:08		09:38 (KLZ_WT22)	08:45		09:17 (KLZ_WT08)
	21:51			21:01			19:53	11	08:01 (KLZ_WT21)	18:46	5	08:45 (KLZ_WT19)	16:53	31	10:09 (KLZ_WT22)	16:39	36	10:23 (KLZ_WT22)
20	05:53			06:38			07:27		07:52 (KLZ_WT21)	08:16			08:09		09:38 (KLZ_WT22)	08:46		09:49 (KLZ_WT22)
	21:50			20:59			19:50	6	07:58 (KLZ_WT21)	18:44			16:52	33	10:11 (KLZ_WT22)	16:39	35	10:24 (KLZ_WT22)
21	05:54			06:40			07:29			08:18			08:11		09:38 (KLZ_WT22)	08:47		09:49 (KLZ_WT22)
	21:49			20:57			19:48			18:42			16:51	34	10:12 (KLZ_WT22)	16:40	35	10:24 (KLZ_WT22)
22	05:55			06:41			07:30			08:19			08:12		09:38 (KLZ_WT22)	08:47		09:50 (KLZ_WT22)
	21:48			20:55			19:46			18:40			16:50	35	10:13 (KLZ_WT22)	16:40	35	10:25 (KLZ_WT22)
23	05:56			06:43			07:32			08:21			08:14		09:37 (KLZ_WT22)	08:48		09:50 (KLZ_WT22)
	21:47			20:53			19:44			18:38			16:49	36	10:13 (KLZ_WT22)	16:41	35	10:25 (KLZ_WT22)
24	05:58		06:29 (KLZ_WT17)	06:45			07:33			08:23			08:16		09:38 (KLZ_WT22)	08:48		09:19 (KLZ_WT08)
	21:45	6	06:35 (KLZ_WT17)	20:51			19:41			18:36			16:48	36	10:14 (KLZ_WT22)	16:41	36	10:25 (KLZ_WT22)
25	05:59		06:28 (KLZ_WT17)	06:46			07:35			07:24			08:17		09:38 (KLZ_WT22)	08:48		09:20 (KLZ_WT08)
	21:44	8	06:36 (KLZ_WT17)	20:48			19:39			17:34			16:47	36	10:14 (KLZ_WT22)	16:42	36	10:26 (KLZ_WT22)
26	06:01		06:29 (KLZ_WT17)	06:48			07:37			07:26		07:53 (KLZ_WT10)	08:19		09:38 (KLZ_WT22)	08:49		09:20 (KLZ_WT08)
	21:43	8	06:37 (KLZ_WT17)	20:46			19:37			17:32	4	07:57 (KLZ_WT10)	16:46	36	10:14 (KLZ_WT22)	16:43	37	10:27 (KLZ_WT22)
27	06:02		06:30 (KLZ_WT17)	06:49			07:38			07:28		07:54 (KLZ_WT10)	08:20		09:38 (KLZ_WT22)	08:49		09:20 (KLZ_WT08)
	21:41	8	06:38 (KLZ_WT17)	20:44			19:35			17:30	3	07:57 (KLZ_WT10)	16:45	37	10:15 (KLZ_WT22)	16:43	37	10:27 (KLZ_WT22)
28	06:03		06:32 (KLZ_WT17)	06:51		07:17 (SAM_WT06)	07:40			07:30		07:56 (KLZ_WT10)	08:22		08:53 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:40	7	06:39 (KLZ_WT17)	20:42	15	07:42 (KLZ_WT23)	19:32			17:28	2	07:58 (KLZ_WT10)	16:44	45	10:16 (KLZ_WT22)	16:44	37	10:27 (KLZ_WT22)
29	06:05		06:33 (KLZ_WT17)	06:52		07:18 (SAM_WT06)	07:41			07:31			08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	6	06:39 (KLZ_WT17)	20:40	18	07:43 (KLZ_WT23)	19:30			17:27			16:44	48	10:16 (KLZ_WT22)	16:45	39	10:28 (KLZ_WT22)
30	06:06		06:34 (KLZ_WT17)	06:54		07:20 (SAM_WT06)	07:43			07:33			08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	5	06:39 (KLZ_WT17)	20:38	20	07:45 (KLZ_WT23)	19:28			17:25			16:43	49	10:17 (KLZ_WT22)	16:46	38	10:28 (KLZ_WT22)
31	06:08		06:36 (KLZ_WT17)	06:56		07:21 (SAM_WT06)				07:35						08:50		09:20 (KLZ_WT08)
	21:35	3	06:39 (KLZ_WT17)	20:36	20	07:45 (KLZ_WT23)				17:23						16:47	40	10:29 (KLZ_WT22)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		128			75			423			188			609			1247	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,64			0,62			0,55			0,56			0,56	
Total reduction		0,31			0,29			0,26			0,20			0,15			0,12	
Total, real		39			22			112			37			89			153	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		09:20 (KLZ_WT08)	08:24		08:50 (MXS_WT01)	07:32			07:23			06:20		06:47 (SAM_WT06)	05:36
	16:48	63	11:26 (KLZ_WT22)	17:35	115	16:35 (KLZ_WT15)	18:25			20:17			21:06	41	07:28 (KLZ_WT21)	21:51
2	08:50		09:21 (KLZ_WT08)	08:23		08:48 (MXS_WT01)	07:30			07:21			06:18		06:48 (KLZ_WT23)	05:36
	16:49	64	11:27 (KLZ_WT22)	17:36	115	16:35 (KLZ_WT15)	18:27			20:19			21:08	39	07:27 (KLZ_WT21)	21:52
3	08:49		09:21 (KLZ_WT08)	08:21		10:39 (KLZ_WT22)	07:28			07:19			06:17		06:49 (KLZ_WT23)	05:35
	16:50	66	11:28 (KLZ_WT22)	17:38	110	16:35 (KLZ_WT15)	18:28			20:20			21:10	39	07:28 (KLZ_WT21)	21:53
4	08:49		09:20 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26			07:17			06:15		06:48 (KLZ_WT23)	05:34
	16:51	67	11:28 (KLZ_WT22)	17:40	110	16:36 (KLZ_WT15)	18:30			20:22			21:11	39	07:27 (KLZ_WT21)	21:54
5	08:49		09:20 (KLZ_WT08)	08:18		08:43 (MVN_WT01)	07:24		07:46 (KLZ_WT19)	07:14		07:37 (SAM_WT11)	06:13		06:48 (KLZ_WT23)	05:34
	16:53	69	11:29 (KLZ_WT22)	17:42	109	16:35 (KLZ_WT15)	18:32	4	07:50 (KLZ_WT19)	20:24	1	07:38 (SAM_WT11)	21:13	38	07:26 (KLZ_WT21)	21:55
6	08:49		09:20 (KLZ_WT08)	08:16		08:41 (MVN_WT01)	07:21		07:44 (KLZ_WT19)	07:12		07:34 (SAM_WT11)	06:11		06:49 (KLZ_WT23)	05:33
	16:54	70	11:29 (KLZ_WT22)	17:44	110	16:35 (KLZ_WT15)	18:33	9	07:53 (KLZ_WT19)	20:25	2	07:36 (SAM_WT11)	21:14	37	07:26 (KLZ_WT21)	21:56
7	08:48		09:20 (KLZ_WT08)	08:15		08:39 (MVN_WT01)	07:19		07:42 (KLZ_WT19)	07:10		07:32 (SAM_WT11)	06:09		06:50 (KLZ_WT23)	05:32
	16:55	71	11:30 (KLZ_WT22)	17:45	110	16:35 (KLZ_WT15)	18:35	13	07:55 (KLZ_WT19)	20:27	3	07:35 (SAM_WT11)	21:16	35	07:25 (KLZ_WT21)	21:56
8	08:48		09:20 (KLZ_WT08)	08:13		08:41 (MVN_WT01)	07:17		07:40 (KLZ_WT19)	07:08			06:08		06:50 (KLZ_WT23)	05:32
	16:56	73	11:31 (KLZ_WT22)	17:47	103	16:35 (KLZ_WT15)	18:37	16	07:56 (KLZ_WT19)	20:29			21:17	34	07:24 (KLZ_WT21)	21:57
9	08:48		09:17 (RHR_WT01)	08:11		10:44 (KLZ_WT22)	07:15		07:38 (KLZ_WT19)	07:06		07:28 (SAM_WT07)	06:06		06:52 (KLZ_WT23)	05:31
	16:58	74	11:32 (KLZ_WT22)	17:49	99	16:35 (KLZ_WT15)	18:39	19	07:57 (KLZ_WT19)	20:30	2	07:30 (SAM_WT07)	21:19	31	07:23 (KLZ_WT21)	21:58
10	08:47		09:16 (RHR_WT01)	08:09		10:45 (KLZ_WT22)	07:13		07:35 (KLZ_WT19)	07:03		07:26 (SAM_WT07)	06:04		06:53 (KLZ_WT23)	05:31
	16:59	86	16:08 (KLZ_WT15)	17:51	95	16:34 (KLZ_WT15)	18:40	21	07:56 (KLZ_WT19)	20:32	5	07:31 (SAM_WT07)	21:21	29	07:22 (KLZ_WT21)	21:59
11	08:46		09:15 (RHR_WT01)	08:08		10:46 (KLZ_WT22)	07:11		07:34 (KLZ_WT19)	07:01		07:24 (SAM_WT07)	06:03		06:56 (KLZ_WT23)	05:31
	17:00	94	16:11 (KLZ_WT15)	17:53	92	16:34 (KLZ_WT15)	18:42	22	07:56 (KLZ_WT19)	20:34	7	07:31 (SAM_WT07)	21:22	25	07:21 (KLZ_WT21)	22:00
12	08:46		09:15 (RHR_WT01)	08:06		10:47 (KLZ_WT22)	07:08		07:31 (CBR_WT01)	06:59		07:21 (SAM_WT07)	06:01		07:01 (KLZ_WT21)	05:30
	17:02	99	16:14 (KLZ_WT15)	17:55	88	16:33 (KLZ_WT15)	18:44	25	07:56 (KLZ_WT19)	20:35	9	07:30 (SAM_WT07)	21:24	18	07:19 (KLZ_WT21)	22:00
13	08:45		09:14 (RHR_WT01)	08:04		10:48 (KLZ_WT22)	07:06		07:29 (CBR_WT01)	06:57		07:19 (SAM_WT07)	06:00		07:03 (KLZ_WT21)	05:30
	17:03	103	16:15 (KLZ_WT15)	17:56	83	16:32 (KLZ_WT15)	18:45	27	07:56 (KLZ_WT19)	20:37	10	07:29 (SAM_WT07)	21:25	14	07:17 (KLZ_WT21)	22:01
14	08:45		09:13 (RHR_WT01)	08:02		10:50 (KLZ_WT22)	07:04		07:26 (CBR_WT01)	06:55		07:17 (SAM_WT07)	05:58		07:05 (KLZ_WT21)	05:30
	17:05	108	16:17 (KLZ_WT15)	17:58	77	16:31 (KLZ_WT15)	18:47	28	07:54 (KLZ_WT19)	20:38	11	07:28 (SAM_WT07)	21:27	9	07:14 (KLZ_WT21)	22:02
15	08:44		09:12 (RHR_WT01)	08:00		10:52 (KLZ_WT22)	07:02		07:24 (CBR_WT01)	06:53		07:18 (SAM_WT07)	05:56			05:30
	17:06	112	16:19 (KLZ_WT15)	18:00	71	16:30 (KLZ_WT15)	18:49	30	07:54 (KLZ_WT19)	20:40	8	07:26 (SAM_WT07)	21:28			22:02
16	08:43		09:11 (RHR_WT01)	07:58		10:54 (KLZ_WT22)	06:59		07:22 (CBR_WT01)	06:50			05:55			05:30
	17:08	114	16:20 (KLZ_WT15)	18:02	63	16:29 (KLZ_WT15)	18:50	30	07:52 (KLZ_WT19)	20:42			21:30			22:03
17	08:42		09:11 (RHR_WT01)	07:57		10:57 (KLZ_WT22)	06:57		07:22 (CBR_WT01)	06:48			05:54			05:30
	17:09	116	16:22 (KLZ_WT15)	18:04	51	16:27 (KLZ_WT15)	18:52	27	07:51 (KLZ_WT19)	20:43			21:31			22:03
18	08:41		09:13 (RHR_WT01)	07:55		11:04 (KLZ_WT22)	06:55		07:17 (SAM_WT05)	06:46			05:52			05:30
	17:11	114	16:23 (KLZ_WT15)	18:05	34	16:26 (KLZ_WT15)	18:54	21	07:47 (KLZ_WT19)	20:45			21:33			22:03
19	08:40		09:25 (KLZ_WT08)	07:53		16:02 (KLZ_WT15)	06:53		07:15 (SAM_WT05)	06:44		07:10 (KLZ_WT21)	05:51			05:30
	17:12	113	16:25 (KLZ_WT15)	18:07	21	16:23 (KLZ_WT15)	18:56	13	07:32 (CBR_WT01)	20:47	9	07:19 (KLZ_WT21)	21:34			22:04
20	08:39		09:26 (KLZ_WT08)	07:51		16:05 (KLZ_WT15)	06:50		07:13 (SAM_WT05)	06:42		07:06 (KLZ_WT21)	05:49			05:30
	17:14	114	16:26 (KLZ_WT15)	18:09	15	16:20 (KLZ_WT15)	18:57	5	07:18 (SAM_WT05)	20:48	16	07:22 (KLZ_WT21)	21:35			22:04
21	08:38		09:27 (KLZ_WT08)	07:49			06:48			06:40		07:04 (KLZ_WT21)	05:48			05:30
	17:16	113	16:26 (KLZ_WT15)	18:11			18:59			20:50	20	07:24 (KLZ_WT21)	21:37			22:04
22	08:37		09:29 (KLZ_WT08)	07:47		08:10 (KLZ_WT10)	06:46			06:38		07:02 (KLZ_WT21)	05:47			05:30
	17:17	111	16:28 (KLZ_WT15)	18:12	1	08:11 (KLZ_WT10)	19:01			20:52	23	07:25 (KLZ_WT21)	21:38			22:05
23	08:36		09:32 (KLZ_WT08)	07:45		08:08 (KLZ_WT10)	06:44			06:36		07:01 (KLZ_WT21)	05:46			05:30
	17:19	108	16:29 (KLZ_WT15)	18:14	4	08:12 (KLZ_WT10)	19:02			20:53	25	07:26 (KLZ_WT21)	21:40			22:05
24	08:35		10:37 (KLZ_WT22)	07:43		08:06 (KLZ_WT10)	06:41			06:34		06:59 (KLZ_WT21)	05:44			05:31
	17:21	106	16:30 (KLZ_WT15)	18:16	6	08:12 (KLZ_WT10)	19:04			20:55	28	07:27 (KLZ_WT21)	21:41			22:05
25	08:34		10:36 (KLZ_WT22)	07:41		08:04 (KLZ_WT10)	06:39			06:32		06:55 (KLZ_WT23)	05:43			05:31
	17:22	107	16:30 (KLZ_WT15)	18:18	8	08:12 (KLZ_WT10)	19:05			20:57	32	07:27 (KLZ_WT21)	21:42			22:05
26	08:32		10:37 (KLZ_WT22)	07:39		08:02 (KLZ_WT10)	06:37			06:30		06:53 (KLZ_WT23)	05:42			05:31
	17:24	109	16:32 (KLZ_WT15)	18:20	10	08:12 (KLZ_WT10)	19:07			20:58	34	07:27 (KLZ_WT21)	21:43			22:05
27	08:31		10:36 (KLZ_WT22)	07:36		08:03 (KLZ_WT10)	06:35			06:28		06:51 (KLZ_WT23)	05:41			05:32
	17:26	110	16:32 (KLZ_WT15)	18:21	8	08:11 (KLZ_WT10)	19:09			21:00	36	07:27 (KLZ_WT21)	21:45			22:05
28	08:30		10:37 (KLZ_WT22)	07:34		08:04 (KLZ_WT10)	06:32			06:26		06:50 (SAM_WT06)	05:40			05:32
	17:28	111	16:33 (KLZ_WT15)	18:23	4	08:08 (KLZ_WT10)	19:10			21:01	38	07:28 (KLZ_WT21)	21:46			22:05
29	08:28		10:37 (KLZ_WT22)				07:30			06:24		06:48 (SAM_WT06)	05:39			05:33
	17:29	111	16:33 (KLZ_WT15)				20:12			21:03	40	07:28 (KLZ_WT21)	21:47			22:05
30	08:27		08:53 (MXS_WT01)				07:28		07:50 (SAM_WT04)	06:22		06:46 (SAM_WT06)	05:38			05:33
	17:31	113	16:34 (KLZ_WT15)				20:14	1	07:51 (SAM_WT04)	21:05	42	07:28 (KLZ_WT21)	21:48			22:04
31	08:26		08:51 (MXS_WT01)				07:26		07:48 (SAM_WT04)				05:37			
	17:33	114	16:34 (KLZ_WT15)				20:15	1	07:49 (SAM_WT04)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		3003			1712			312			401			428		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,98			0,98			0,98			0,98			0,98		
Wind dir. red.		0,62			0,65			0,58			0,65			0,65		
Total reduction		0,15			0,19			0,21			0,29			0,29		
Total, real		448			326			66			118			125		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		07:11 (KLZ_WT21)	06:57		07:23 (SAM_WT07)	07:44		08:09 (CBR_WT01)	07:37		10:14 (KLZ_WT22)	08:26		08:57 (RHR_WT01)
	22:04			21:34	19	07:30 (KLZ_WT21)	20:33	7	07:30 (SAM_WT07)	19:25	26	08:35 (KLZ_WT19)	17:21	96	16:04 (KLZ_WT15)	16:42	93	15:53 (KLZ_WT15)
2	05:35			06:11		07:05 (KLZ_WT23)	06:59		07:24 (SAM_WT07)	07:46		08:11 (CBR_WT01)	07:38		10:13 (KLZ_WT22)	08:27		08:59 (RHR_WT01)
	22:04			21:32	27	07:32 (KLZ_WT21)	20:31	5	07:29 (SAM_WT07)	19:23	24	08:35 (KLZ_WT19)	17:19	100	16:05 (KLZ_WT15)	16:42	87	15:52 (KLZ_WT15)
3	05:35			06:12		07:02 (KLZ_WT23)	07:00		07:26 (SAM_WT07)	07:48		08:12 (KLZ_WT19)	07:40		08:10 (MVN_WT01)	08:29		09:00 (RHR_WT01)
	22:04			21:30	31	07:33 (KLZ_WT21)	20:29	2	07:28 (SAM_WT07)	19:21	22	08:34 (KLZ_WT19)	17:17	104	16:05 (KLZ_WT15)	16:41	74	11:15 (KLZ_WT22)
4	05:36			06:14		07:01 (KLZ_WT23)	07:02			07:49		08:14 (KLZ_WT19)	07:42		08:09 (MVN_WT01)	08:30		09:05 (KLZ_WT08)
	22:03			21:29	32	07:33 (KLZ_WT21)	20:27			19:19	20	08:34 (KLZ_WT19)	17:16	110	16:05 (KLZ_WT15)	16:40	73	11:16 (KLZ_WT22)
5	05:37			06:15		07:00 (KLZ_WT23)	07:03		07:29 (SAM_WT11)	07:51		08:16 (KLZ_WT19)	07:44		08:11 (MVN_WT01)	08:31		09:06 (KLZ_WT08)
	22:03			21:27	34	07:34 (KLZ_WT21)	20:24	3	07:32 (SAM_WT11)	19:16	17	08:33 (KLZ_WT19)	17:14	109	16:05 (KLZ_WT15)	16:40	70	11:15 (KLZ_WT22)
6	05:38			06:17		06:59 (KLZ_WT23)	07:05		07:30 (SAM_WT11)	07:53		08:17 (KLZ_WT19)	07:45		08:13 (MVN_WT01)	08:33		09:06 (KLZ_WT08)
	22:02			21:25	36	07:35 (KLZ_WT21)	20:22	2	07:32 (SAM_WT11)	19:14	14	08:31 (KLZ_WT19)	17:12	109	16:05 (KLZ_WT15)	16:40	70	11:15 (KLZ_WT22)
7	05:38			06:18		06:59 (KLZ_WT23)	07:07		07:32 (SAM_WT11)	07:54		08:19 (KLZ_WT19)	07:47		08:15 (MVN_WT01)	08:34		09:07 (KLZ_WT08)
	22:02			21:24	37	07:36 (KLZ_WT21)	20:20	1	07:33 (SAM_WT11)	19:12	11	08:30 (KLZ_WT19)	17:11	109	16:05 (KLZ_WT15)	16:39	69	11:16 (KLZ_WT22)
8	05:39			06:20		06:58 (KLZ_WT23)	07:08			07:56		08:21 (KLZ_WT19)	07:49		10:10 (KLZ_WT22)	08:35		09:08 (KLZ_WT08)
	22:01			21:22	38	07:36 (KLZ_WT21)	20:18			19:10	7	08:28 (KLZ_WT19)	17:09	110	16:06 (KLZ_WT15)	16:39	67	11:16 (KLZ_WT22)
9	05:40			06:21		06:58 (KLZ_WT23)	07:10			07:58			07:50		08:19 (MXS_WT01)	08:36		09:09 (KLZ_WT08)
	22:00			21:20	38	07:36 (KLZ_WT21)	20:15			19:08			17:07	114	16:06 (KLZ_WT15)	16:39	65	11:16 (KLZ_WT22)
10	05:41			06:23		06:57 (KLZ_WT23)	07:11			07:59			07:52		08:21 (MXS_WT01)	08:37		09:10 (KLZ_WT08)
	22:00			21:18	39	07:36 (KLZ_WT21)	20:13			19:05			17:06	115	16:06 (KLZ_WT15)	16:38	64	11:16 (KLZ_WT22)
11	05:42			06:24		06:57 (KLZ_WT23)	07:13			08:01			07:54		08:23 (MXS_WT01)	08:38		09:10 (KLZ_WT08)
	21:59			21:16	40	07:37 (KLZ_WT21)	20:11			19:03			17:04	114	16:06 (KLZ_WT15)	16:38	63	11:16 (KLZ_WT22)
12	05:43			06:26		06:55 (SAM_WT06)	07:14			08:02			07:56		08:24 (MXS_WT01)	08:39		09:11 (KLZ_WT08)
	21:58			21:14	41	07:36 (KLZ_WT21)	20:09			19:01			17:03	113	16:05 (KLZ_WT15)	16:38	62	11:16 (KLZ_WT22)
13	05:44			06:27		06:54 (SAM_WT06)	07:16		07:41 (SAM_WT04)	08:04			07:57		10:09 (KLZ_WT22)	08:40		09:12 (KLZ_WT08)
	21:57			21:13	42	07:36 (KLZ_WT21)	20:06	1	07:42 (SAM_WT04)	18:59			17:01	111	16:05 (KLZ_WT15)	16:38	60	11:16 (KLZ_WT22)
14	05:45			06:29		06:56 (SAM_WT06)	07:18			08:06		08:36 (KLZ_WT10)	07:59		10:09 (KLZ_WT22)	08:41		09:13 (KLZ_WT08)
	21:56			21:11	40	07:36 (KLZ_WT21)	20:04			18:57	6	08:42 (KLZ_WT10)	17:00	111	16:05 (KLZ_WT15)	16:38	59	11:17 (KLZ_WT22)
15	05:47			06:30		06:57 (SAM_WT06)	07:19			08:07		08:34 (KLZ_WT10)	08:01		10:09 (KLZ_WT22)	08:42		09:15 (KLZ_WT08)
	21:56			21:09	38	07:35 (KLZ_WT21)	20:02			18:55	10	08:44 (KLZ_WT10)	16:59	110	16:05 (KLZ_WT15)	16:38	56	11:17 (KLZ_WT22)
16	05:48			06:32		06:59 (KLZ_WT23)	07:21			08:09		08:35 (KLZ_WT10)	08:02		10:10 (KLZ_WT22)	08:43		09:16 (KLZ_WT08)
	21:55			21:07	36	07:35 (KLZ_WT21)	20:00			18:53	9	08:44 (KLZ_WT10)	16:57	109	16:05 (KLZ_WT15)	16:38	55	11:17 (KLZ_WT22)
17	05:49			06:34		07:00 (KLZ_WT23)	07:22			08:11		08:36 (KLZ_WT10)	08:04		10:10 (KLZ_WT22)	08:44		09:17 (RHR_WT02)
	21:54			21:05	34	07:34 (KLZ_WT21)	19:57			18:50	8	08:44 (KLZ_WT10)	16:56	107	16:04 (KLZ_WT15)	16:39	54	11:18 (KLZ_WT22)
18	05:50			06:35		07:02 (KLZ_WT23)	07:24			08:12		08:38 (KLZ_WT10)	08:06		10:11 (KLZ_WT22)	08:45		09:16 (RHR_WT02)
	21:52			21:03	32	07:34 (KLZ_WT21)	19:55			18:48	6	08:44 (KLZ_WT10)	16:55	105	16:04 (KLZ_WT15)	16:39	55	11:18 (KLZ_WT22)
19	05:51			06:37		07:05 (KLZ_WT21)	07:25			08:14		08:40 (KLZ_WT10)	08:08		09:05 (KLZ_WT08)	08:45		09:17 (RHR_WT02)
	21:51			21:01	27	07:32 (KLZ_WT21)	19:53			18:46	3	08:43 (KLZ_WT10)	16:53	109	16:03 (KLZ_WT15)	16:39	54	11:18 (KLZ_WT22)
20	05:53			06:38		07:06 (KLZ_WT21)	07:27			08:16			08:09		09:04 (KLZ_WT08)	08:46		09:18 (RHR_WT02)
	21:50			20:59	25	07:31 (KLZ_WT21)	19:50			18:44			16:52	111	16:03 (KLZ_WT15)	16:39	54	11:19 (KLZ_WT22)
21	05:54			06:40		07:07 (KLZ_WT21)	07:29			08:18		16:40 (KLZ_WT15)	08:11		09:03 (KLZ_WT08)	08:47		09:18 (RHR_WT02)
	21:49			20:57	22	07:29 (KLZ_WT21)	19:48			18:42	6	16:46 (KLZ_WT15)	16:51	113	16:02 (KLZ_WT15)	16:40	54	11:19 (KLZ_WT22)
22	05:55			06:41		07:09 (KLZ_WT21)	07:30			08:19		16:34 (KLZ_WT15)	08:12		09:02 (KLZ_WT08)	08:47		09:19 (RHR_WT02)
	21:48			20:55	19	07:28 (KLZ_WT21)	19:46			18:40	17	16:51 (KLZ_WT15)	16:50	114	16:02 (KLZ_WT15)	16:40	54	11:20 (KLZ_WT22)
23	05:56			06:43		07:10 (KLZ_WT21)	07:32		07:56 (SAM_WT05)	08:21		16:31 (KLZ_WT15)	08:14		09:01 (KLZ_WT08)	08:48		09:19 (RHR_WT02)
	21:47			20:53	15	07:25 (KLZ_WT21)	19:44	5	08:01 (SAM_WT05)	18:38	23	16:54 (KLZ_WT15)	16:49	112	16:01 (KLZ_WT15)	16:41	54	11:20 (KLZ_WT22)
24	05:58			06:45		07:14 (KLZ_WT21)	07:33		07:58 (SAM_WT05)	08:23		11:32 (KLZ_WT22)	08:16		08:51 (RHR_WT01)	08:48		09:19 (RHR_WT02)
	21:45			20:50	8	07:22 (KLZ_WT21)	19:41	10	08:14 (CBR_WT01)	18:36	41	16:57 (KLZ_WT15)	16:48	112	16:00 (KLZ_WT15)	16:41	54	11:20 (KLZ_WT22)
25	05:59			06:46			07:35		07:59 (SAM_WT05)	07:24		10:27 (KLZ_WT22)	08:17		08:49 (RHR_WT01)	08:48		09:20 (RHR_WT02)
	21:44			20:48			19:39	17	08:27 (KLZ_WT19)	17:34	54	15:58 (KLZ_WT15)	16:47	116	16:00 (KLZ_WT15)	16:42	55	11:22 (KLZ_WT22)
26	06:01			06:48			07:36		08:01 (SAM_WT05)	07:26		10:24 (KLZ_WT22)	08:19		08:49 (RHR_WT01)	08:49		09:20 (RHR_WT02)
	21:43			20:46			19:37	25	08:31 (KLZ_WT19)	17:32	65	16:00 (KLZ_WT15)	16:46	114	15:58 (KLZ_WT15)	16:43	55	11:22 (KLZ_WT22)
27	06:02			06:49		07:23 (SAM_WT07)	07:38		08:03 (CBR_WT01)	07:28		10:21 (KLZ_WT22)	08:20		08:51 (RHR_WT01)	08:49		09:21 (RHR_WT02)
	21:41			20:44	2	07:25 (SAM_WT07)	19:35	30	08:33 (KLZ_WT19)	17:30	72	16:00 (KLZ_WT15)	16:45	111	15:58 (KLZ_WT15)	16:43	55	11:22 (KLZ_WT22)
28	06:03			06:51		07:20 (SAM_WT07)	07:40		08:04 (CBR_WT01)	07:30		10:19 (KLZ_WT22)	08:22		08:53 (RHR_WT01)	08:49		09:21 (KLZ_WT08)
	21:40			20:42	8	07:28 (SAM_WT07)	19:32	30	08:34 (KLZ_WT19)	17:28	78	16:01 (KLZ_WT15)	16:44	108	15:57 (KLZ_WT15)	16:44	56	11:23 (KLZ_WT22)
29	06:05		07:19 (KLZ_WT21)	06:52		07:18 (SAM_WT07)	07:41		08:06 (CBR_WT01)	07:31		10:17 (KLZ_WT22)	08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	3	07:22 (KLZ_WT21)	20:40	11	07:29 (SAM_WT07)	19:30	29	08:35 (KLZ_WT19)	17:27	84	16:02 (KLZ_WT15)	16:44	104	15:56 (KLZ_WT15)	16:45	57	11:23 (KLZ_WT22)
30	06:06		07:15 (KLZ_WT21)	06:54		07:20 (SAM_WT07)	07:43		08:08 (CBR_WT01)	07:33		10:16 (KLZ_WT22)	08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	11	07:26 (KLZ_WT21)	20:38	10	07:30 (SAM_WT07)	19:28	28	08:36 (KLZ_WT19)	17:25	89	16:03 (KLZ_WT15)	16:43	99	15:55 (KLZ_WT15)	16:46	59	11:24 (KLZ_WT22)
31	06:08		07:13 (KLZ_WT21)	06:56		07:21 (SAM_WT07)				07:35		10:15 (KLZ_WT22)				08:50		09:20 (KLZ_WT08)
	21:35	16	07:29 (KLZ_WT21)	20:35	8	07:29 (SAM_WT07)				17:23	94	16:04 (KLZ_WT15)				16:47	61	11:25 (KLZ_WT22)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		30			789			195			806			3279			1918	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,65			0,65			0,59			0,64			0,63			0,58	
Total reduction		0,28			0,30			0,25			0,23			0,17			0,13	
Total, real		9			234			48			182			542			246	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	08:50		09:20 (MXS_WT01)	08:24		08:57 (KLZ_WT10)	07:32		07:55 (CBR_WT01)	07:23		07:46 (SAM_WT11)	06:20		07:01 (KLZ_WT23)	05:36
	16:48	55	13:52 (KLZ_WT22)	17:35	38	16:59 (KLZ_WT15)	18:25	30	08:39 (KLZ_WT19)	20:17	5	07:51 (SAM_WT11)	21:06	68	08:09 (KLZ_WT21)	21:51
2	08:50		09:20 (MXS_WT01)	08:23		08:58 (KLZ_WT10)	07:30		07:53 (CBR_WT01)	07:21		07:43 (SAM_WT07)	06:18		07:01 (KLZ_WT23)	05:36
	16:49	55	13:52 (KLZ_WT22)	17:36	35	16:58 (KLZ_WT15)	18:27	29	08:37 (KLZ_WT19)	20:19	6	07:49 (SAM_WT11)	21:08	67	08:08 (KLZ_WT21)	21:52
3	08:49		09:20 (MXS_WT01)	08:21		08:59 (KLZ_WT10)	07:28		07:51 (CBR_WT01)	07:19		07:41 (SAM_WT07)	06:16		07:02 (KLZ_WT23)	05:35
	16:50	55	13:53 (KLZ_WT22)	17:38	32	16:58 (KLZ_WT15)	18:28	20	08:31 (KLZ_WT19)	20:20	6	07:47 (SAM_WT07)	21:10	66	08:08 (KLZ_WT21)	21:53
4	08:49		09:19 (MXS_WT01)	08:19		16:34 (KLZ_WT15)	07:26		07:51 (CBR_WT01)	07:17		07:39 (SAM_WT07)	06:15		07:02 (KLZ_WT23)	05:34
	16:51	54	13:52 (KLZ_WT22)	17:40	24	16:58 (KLZ_WT15)	18:30	18	08:09 (CBR_WT01)	20:22	9	07:48 (SAM_WT07)	21:11	64	08:06 (KLZ_WT21)	21:54
5	08:49		09:20 (MXS_WT01)	08:18		16:34 (KLZ_WT15)	07:24		07:51 (CBR_WT01)	07:14		07:37 (SAM_WT07)	06:13		07:02 (KLZ_WT23)	05:34
	16:53	53	13:53 (KLZ_WT22)	17:42	24	16:58 (KLZ_WT15)	18:32	16	08:07 (CBR_WT01)	20:24	11	07:48 (SAM_WT07)	21:13	62	08:05 (KLZ_WT21)	21:55
6	08:49		09:20 (MXS_WT01)	08:16		16:35 (KLZ_WT15)	07:21		07:51 (CBR_WT01)	07:12		07:34 (SAM_WT07)	06:11		07:03 (KLZ_WT23)	05:33
	16:54	51	13:52 (KLZ_WT22)	17:44	22	16:57 (KLZ_WT15)	18:33	16	08:07 (CBR_WT01)	20:25	13	07:47 (SAM_WT07)	21:14	60	08:05 (KLZ_WT21)	21:56
7	08:48		09:23 (MXS_WT01)	08:15		16:36 (KLZ_WT15)	07:19		07:52 (CBR_WT01)	07:10		07:32 (SAM_WT07)	06:09		07:04 (KLZ_WT23)	05:32
	16:55	46	13:53 (KLZ_WT22)	17:45	20	16:56 (KLZ_WT15)	18:35	13	08:05 (CBR_WT01)	20:27	18	07:54 (KLZ_WT21)	21:16	54	08:03 (KLZ_WT21)	21:56
8	08:48		13:08 (KLZ_WT22)	08:13		16:38 (KLZ_WT15)	07:17		07:40 (SAM_WT05)	07:08		07:32 (SAM_WT07)	06:08		07:05 (KLZ_WT23)	05:32
	16:56	45	13:53 (KLZ_WT22)	17:47	18	16:56 (KLZ_WT15)	18:37	12	08:04 (CBR_WT01)	20:29	29	08:01 (KLZ_WT21)	21:17	49	08:01 (KLZ_WT21)	21:57
9	08:48		13:09 (KLZ_WT22)	08:11		16:40 (KLZ_WT15)	07:15		07:38 (SAM_WT05)	07:06		07:33 (SAM_WT07)	06:06		07:07 (KLZ_WT23)	05:31
	16:58	44	13:53 (KLZ_WT22)	17:49	14	16:54 (KLZ_WT15)	18:39	5	07:43 (SAM_WT05)	20:30	31	08:04 (KLZ_WT21)	21:19	43	08:00 (KLZ_WT21)	21:58
10	08:47		13:10 (KLZ_WT22)	08:09		16:42 (KLZ_WT15)	07:13		07:35 (SAM_WT05)	07:03		07:34 (SAM_WT07)	06:04		07:09 (KLZ_WT23)	05:31
	16:59	43	13:53 (KLZ_WT22)	17:51	9	16:51 (KLZ_WT15)	18:40	6	07:41 (SAM_WT05)	20:32	32	08:06 (KLZ_WT21)	21:21	35	07:58 (KLZ_WT21)	21:59
11	08:46		13:11 (KLZ_WT22)	08:08			07:11		07:33 (SAM_WT05)	07:01		07:36 (KLZ_WT21)	06:03		07:33 (KLZ_WT21)	05:31
	17:00	41	13:52 (KLZ_WT22)	17:53			18:42	8	07:41 (SAM_WT05)	20:34	32	08:08 (KLZ_WT21)	21:22	24	07:57 (KLZ_WT21)	22:00
12	08:46		13:12 (KLZ_WT22)	08:06			07:08		07:31 (SAM_WT05)	06:59		07:33 (KLZ_WT21)	06:01		07:34 (KLZ_WT21)	05:30
	17:02	41	13:53 (KLZ_WT22)	17:55			18:44	8	07:39 (SAM_WT05)	20:35	35	08:08 (KLZ_WT21)	21:24	21	07:55 (KLZ_WT21)	22:00
13	08:45		13:13 (KLZ_WT22)	08:04		08:28 (KLZ_WT19)	07:06			06:57		07:32 (KLZ_WT21)	05:59		07:37 (KLZ_WT21)	05:30
	17:03	40	13:53 (KLZ_WT22)	17:56	8	08:36 (KLZ_WT19)	18:45			20:37	37	08:09 (KLZ_WT21)	21:25	16	07:53 (KLZ_WT21)	22:01
14	08:44		13:14 (KLZ_WT22)	08:02		08:26 (KLZ_WT19)	07:04			06:55		07:30 (KLZ_WT21)	05:58		07:41 (KLZ_WT21)	05:30
	17:05	38	13:52 (KLZ_WT22)	17:58	13	08:39 (KLZ_WT19)	18:47			20:38	40	08:10 (KLZ_WT21)	21:27	7	07:48 (KLZ_WT21)	22:02
15	08:44		13:16 (KLZ_WT22)	08:00		08:24 (KLZ_WT19)	07:02			06:52		07:29 (KLZ_WT21)	05:56			05:30
	17:06	35	13:51 (KLZ_WT22)	18:00	17	08:41 (KLZ_WT19)	18:49			20:40	42	08:11 (KLZ_WT21)	21:28			22:02
16	08:43		13:17 (KLZ_WT22)	07:58		08:22 (KLZ_WT19)	06:59			06:50		07:28 (KLZ_WT21)	05:55			05:30
	17:08	34	13:51 (KLZ_WT22)	18:02	20	08:42 (KLZ_WT19)	18:50			20:42	44	08:12 (KLZ_WT21)	21:30			22:03
17	08:42		13:19 (KLZ_WT22)	07:57		08:21 (KLZ_WT19)	06:57			06:48		07:27 (KLZ_WT21)	05:54			05:30
	17:09	31	13:50 (KLZ_WT22)	18:04	22	08:43 (KLZ_WT19)	18:52			20:43	45	08:12 (KLZ_WT21)	21:31			22:03
18	08:41		13:20 (KLZ_WT22)	07:55		08:20 (KLZ_WT19)	06:55			06:46		07:26 (KLZ_WT21)	05:52			05:29
	17:11	29	13:49 (KLZ_WT22)	18:05	24	08:44 (KLZ_WT19)	18:54			20:45	47	08:13 (KLZ_WT21)	21:33			22:03
19	08:40		13:23 (KLZ_WT22)	07:53		08:19 (KLZ_WT19)	06:53			06:44		07:26 (KLZ_WT21)	05:51			05:30
	17:12	25	13:48 (KLZ_WT22)	18:07	26	08:45 (KLZ_WT19)	18:55			20:47	47	08:13 (KLZ_WT21)	21:34			22:04
20	08:39		13:25 (KLZ_WT22)	07:51		08:18 (KLZ_WT19)	06:50			06:42		07:12 (KLZ_WT23)	05:49			05:30
	17:14	25	16:43 (KLZ_WT15)	18:09	27	08:45 (KLZ_WT19)	18:57			20:48	57	08:13 (KLZ_WT21)	21:35			22:04
21	08:38		09:05 (MVN_WT01)	07:49		08:18 (KLZ_WT19)	06:48			06:40		07:03 (SAM_WT06)	05:48			05:30
	17:16	24	16:44 (KLZ_WT15)	18:11	27	08:45 (KLZ_WT19)	18:59			20:50	65	08:13 (KLZ_WT21)	21:37			22:04
22	08:37		09:04 (MVN_WT01)	07:47		08:18 (KLZ_WT19)	06:46			06:38		07:01 (SAM_WT06)	05:47			05:30
	17:17	14	16:46 (KLZ_WT15)	18:12	27	08:45 (KLZ_WT19)	19:00			20:52	71	08:13 (KLZ_WT21)	21:38			22:05
23	08:36		09:03 (KLZ_WT10)	07:45		08:18 (KLZ_WT19)	06:44		07:06 (SAM_WT04)	06:36		06:59 (SAM_WT06)	05:46			05:30
	17:19	17	16:48 (KLZ_WT15)	18:14	27	08:45 (KLZ_WT19)	19:02	2	07:08 (SAM_WT04)	20:53	74	08:13 (KLZ_WT21)	21:40			22:05
24	08:35		09:02 (KLZ_WT10)	07:43		08:18 (KLZ_WT19)	06:41		07:04 (SAM_WT04)	06:34		06:57 (SAM_WT06)	05:44			05:30
	17:21	22	16:50 (KLZ_WT15)	18:16	27	08:45 (KLZ_WT19)	19:04	3	07:07 (SAM_WT04)	20:55	75	08:12 (KLZ_WT21)	21:41			22:05
25	08:34		09:00 (KLZ_WT10)	07:41		08:19 (KLZ_WT19)	06:39		07:01 (SAM_WT04)	06:32		06:55 (SAM_WT06)	05:43			05:31
	17:22	25	16:51 (KLZ_WT15)	18:18	25	08:44 (KLZ_WT19)	19:05	4	07:05 (SAM_WT04)	20:57	77	08:12 (KLZ_WT21)	21:42			22:05
26	08:32		08:59 (KLZ_WT10)	07:38		08:02 (CBR_WT01)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31
	17:24	30	16:54 (KLZ_WT15)	18:20	27	08:44 (KLZ_WT19)	19:07			20:58	79	08:12 (KLZ_WT21)	21:43			22:05
27	08:31		08:57 (KLZ_WT10)	07:36		08:00 (CBR_WT01)	06:35			06:28		06:52 (SAM_WT06)	05:41			05:32
	17:26	34	16:55 (KLZ_WT15)	18:21	30	08:43 (KLZ_WT19)	19:09			21:00	79	08:11 (KLZ_WT21)	21:45			22:05
28	08:30		08:56 (KLZ_WT10)	07:34		07:57 (CBR_WT01)	06:32			06:26		06:53 (SAM_WT06)	05:40			05:32
	17:28	38	16:57 (KLZ_WT15)	18:23	31	08:41 (KLZ_WT19)	19:10			21:01	77	08:10 (KLZ_WT21)	21:46			22:05
29	08:28		08:55 (KLZ_WT10)				07:30		07:52 (SAM_WT11)	06:24		06:55 (SAM_WT06)	05:39			05:33
	17:29	39	16:57 (KLZ_WT15)				20:12	1	07:53 (SAM_WT11)	21:03	76	08:11 (KLZ_WT21)	21:47			22:05
30	08:27		08:55 (KLZ_WT10)				07:28		07:50 (SAM_WT11)	06:22		07:01 (KLZ_WT23)	05:38			05:33
	17:31	40	16:58 (KLZ_WT15)				20:14	3	07:53 (SAM_WT11)	21:05	69	08:10 (KLZ_WT21)	21:48			22:04
31	08:26		08:56 (KLZ_WT10)				07:26		07:48 (SAM_WT11)				05:37			
	17:33	39	16:58 (KLZ_WT15)				20:15	4	07:52 (SAM_WT11)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		1162			614			198			1328			636		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,98			0,98			0,98			0,98			0,98		
Wind dir. red.		0,68			0,61			0,56			0,64			0,64		
Total reduction		0,16			0,18			0,21			0,29			0,28		
Total, real		191			110			41			384			181		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		07:44 (KLZ_WT21)	06:57		07:35 (KLZ_WT21)	07:44		08:11 (SAM_WT05)	07:37		16:11 (KLZ_WT15)	08:26		12:53 (KLZ_WT22)
	22:04			21:34	22	08:06 (KLZ_WT21)	20:33	32	08:07 (KLZ_WT21)	19:25	6	08:17 (SAM_WT05)	17:21	11	16:22 (KLZ_WT15)	16:42	41	13:34 (KLZ_WT22)
2	05:34			06:11		07:23 (KLZ_WT23)	06:59		07:32 (SAM_WT07)	07:46		08:11 (SAM_WT05)	07:38		16:09 (KLZ_WT15)	08:27		12:53 (KLZ_WT22)
	22:04			21:32	27	08:08 (KLZ_WT21)	20:31	32	08:04 (KLZ_WT21)	19:23	8	08:19 (SAM_WT05)	17:19	15	16:24 (KLZ_WT15)	16:41	43	13:36 (KLZ_WT22)
3	05:35			06:12		07:18 (KLZ_WT23)	07:00		07:31 (SAM_WT07)	07:48		08:12 (SAM_WT05)	07:40		16:08 (KLZ_WT15)	08:29		12:52 (KLZ_WT22)
	22:04			21:30	40	08:10 (KLZ_WT21)	20:29	31	08:02 (KLZ_WT21)	19:21	7	08:19 (SAM_WT05)	17:17	18	16:26 (KLZ_WT15)	16:41	44	13:36 (KLZ_WT22)
4	05:36			06:14		07:16 (KLZ_WT23)	07:02		07:29 (SAM_WT07)	07:49		08:14 (SAM_WT05)	07:42		16:05 (KLZ_WT15)	08:30		12:53 (KLZ_WT22)
	22:03			21:29	45	08:10 (KLZ_WT21)	20:27	29	07:58 (KLZ_WT21)	19:19	6	08:20 (SAM_WT05)	17:16	21	16:26 (KLZ_WT15)	16:40	45	13:38 (KLZ_WT22)
5	05:37			06:15		07:15 (KLZ_WT23)	07:03		07:29 (SAM_WT07)	07:51		08:16 (SAM_WT05)	07:44		16:05 (KLZ_WT15)	08:31		12:53 (KLZ_WT22)
	22:03			21:27	51	08:12 (KLZ_WT21)	20:24	19	07:52 (KLZ_WT21)	19:16	11	08:39 (CBR_WT01)	17:14	22	16:27 (KLZ_WT15)	16:40	45	13:38 (KLZ_WT22)
6	05:38			06:17		07:13 (KLZ_WT23)	07:05		07:30 (SAM_WT07)	07:53		08:17 (SAM_WT05)	07:45		16:04 (KLZ_WT15)	08:33		09:06 (MXS_WT01)
	22:02			21:25	56	08:13 (KLZ_WT21)	20:22	13	07:43 (SAM_WT07)	19:14	13	08:41 (CBR_WT01)	17:12	24	16:28 (KLZ_WT15)	16:39	52	13:39 (KLZ_WT22)
7	05:38			06:18		07:13 (KLZ_WT23)	07:07		07:32 (SAM_WT07)	07:54		08:28 (CBR_WT01)	07:47		16:04 (KLZ_WT15)	08:34		09:07 (MXS_WT01)
	22:02			21:24	59	08:14 (KLZ_WT21)	20:20	11	07:43 (SAM_WT07)	19:12	14	08:42 (CBR_WT01)	17:11	24	16:28 (KLZ_WT15)	16:39	53	13:40 (KLZ_WT22)
8	05:39			06:20		07:11 (KLZ_WT23)	07:08		07:33 (SAM_WT07)	07:56		08:27 (CBR_WT01)	07:49		08:29 (KLZ_WT10)	08:35		09:07 (MXS_WT01)
	22:01			21:22	64	08:15 (KLZ_WT21)	20:18	9	07:42 (SAM_WT07)	19:10	16	08:43 (CBR_WT01)	17:09	33	16:29 (KLZ_WT15)	16:39	54	13:40 (KLZ_WT22)
9	05:40			06:21		07:11 (KLZ_WT23)	07:10		07:35 (SAM_WT07)	07:57		08:25 (CBR_WT01)	07:50		08:28 (KLZ_WT10)	08:36		09:08 (MXS_WT01)
	22:00			21:20	65	08:16 (KLZ_WT21)	20:15	7	07:42 (SAM_WT07)	19:08	18	08:43 (CBR_WT01)	17:07	36	16:29 (KLZ_WT15)	16:39	55	13:41 (KLZ_WT22)
10	05:41			06:23		07:10 (KLZ_WT23)	07:11		07:36 (SAM_WT07)	07:59		08:25 (CBR_WT01)	07:52		08:28 (KLZ_WT10)	08:37		09:09 (MXS_WT01)
	22:00			21:18	66	08:16 (KLZ_WT21)	20:13	6	07:42 (SAM_WT11)	19:05	18	08:43 (CBR_WT01)	17:06	38	16:30 (KLZ_WT15)	16:38	55	13:41 (KLZ_WT22)
11	05:42			06:24		07:09 (KLZ_WT23)	07:13		07:38 (SAM_WT11)	08:01		08:26 (CBR_WT01)	07:54		08:27 (KLZ_WT10)	08:38		09:10 (MXS_WT01)
	21:59			21:16	68	08:17 (KLZ_WT21)	20:11	6	07:44 (SAM_WT11)	19:03	26	09:09 (KLZ_WT19)	17:04	40	16:30 (KLZ_WT15)	16:38	55	13:42 (KLZ_WT22)
12	05:43			06:26		07:09 (KLZ_WT23)	07:14		07:39 (SAM_WT11)	08:02		08:28 (CBR_WT01)	07:56		08:26 (KLZ_WT10)	08:39		09:11 (MXS_WT01)
	21:58			21:14	69	08:18 (KLZ_WT21)	20:09	5	07:44 (SAM_WT11)	19:01	29	09:12 (KLZ_WT19)	17:03	40	16:29 (KLZ_WT15)	16:38	55	13:42 (KLZ_WT22)
13	05:44			06:27		07:09 (KLZ_WT23)	07:16		07:41 (SAM_WT11)	08:04		08:29 (CBR_WT01)	07:57		08:27 (KLZ_WT10)	08:40		09:12 (MXS_WT01)
	21:57			21:13	68	08:17 (KLZ_WT21)	20:06	3	07:44 (SAM_WT11)	18:59	31	09:13 (KLZ_WT19)	17:01	39	16:29 (KLZ_WT15)	16:38	55	13:43 (KLZ_WT22)
14	05:45			06:29		07:02 (SAM_WT06)	07:18		07:42 (SAM_WT11)	08:06		08:31 (CBR_WT01)	07:59		08:28 (KLZ_WT10)	08:41		09:13 (MXS_WT01)
	21:56			21:11	76	08:18 (KLZ_WT21)	20:04	1	07:43 (SAM_WT11)	18:57	30	09:14 (KLZ_WT19)	17:00	38	16:29 (KLZ_WT15)	16:38	55	13:44 (KLZ_WT22)
15	05:46			06:30		07:00 (SAM_WT06)	07:19			08:07		08:33 (CBR_WT01)	08:01		08:30 (KLZ_WT10)	08:42		09:14 (MXS_WT01)
	21:56			21:09	78	08:18 (KLZ_WT21)	20:02			18:55	28	09:15 (KLZ_WT19)	16:59	34	16:28 (KLZ_WT15)	16:38	54	13:44 (KLZ_WT22)
16	05:48			06:32		07:00 (SAM_WT06)	07:21			08:09		08:51 (KLZ_WT19)	08:02		08:32 (KLZ_WT10)	08:43		09:15 (MXS_WT01)
	21:55			21:07	79	08:19 (KLZ_WT21)	20:00			18:53	25	09:16 (KLZ_WT19)	16:57	30	16:27 (KLZ_WT15)	16:38	55	13:45 (KLZ_WT22)
17	05:49			06:34		07:00 (SAM_WT06)	07:22			08:11		08:50 (KLZ_WT19)	08:04		08:34 (KLZ_WT10)	08:44		09:16 (MXS_WT01)
	21:54			21:05	78	08:18 (KLZ_WT21)	19:57			18:50	26	09:16 (KLZ_WT19)	16:56	25	16:25 (KLZ_WT15)	16:38	54	13:46 (KLZ_WT22)
18	05:50			06:35		07:02 (SAM_WT06)	07:24		07:49 (SAM_WT04)	08:12		08:49 (KLZ_WT19)	08:06		08:36 (KLZ_WT10)	08:45		09:16 (MXS_WT01)
	21:52			21:03	77	08:19 (KLZ_WT21)	19:55	4	07:53 (SAM_WT04)	18:48	27	09:16 (KLZ_WT19)	16:55	22	16:24 (KLZ_WT15)	16:39	55	13:46 (KLZ_WT22)
19	05:51			06:37		07:03 (SAM_WT06)	07:25		07:50 (SAM_WT04)	08:14		08:49 (KLZ_WT19)	08:07		08:37 (KLZ_WT10)	08:45		09:17 (MXS_WT01)
	21:51			21:01	75	08:18 (KLZ_WT21)	19:53	4	07:54 (SAM_WT04)	18:46	28	09:17 (KLZ_WT19)	16:53	17	16:22 (KLZ_WT15)	16:39	54	13:46 (KLZ_WT22)
20	05:53			06:38		07:05 (SAM_WT06)	07:27		07:52 (SAM_WT04)	08:16		08:49 (KLZ_WT19)	08:09		08:39 (MVN_WT01)	08:46		09:18 (MXS_WT01)
	21:50			20:59	73	08:18 (KLZ_WT21)	19:50	3	07:55 (SAM_WT04)	18:44	28	09:17 (KLZ_WT19)	16:52	14	16:21 (KLZ_WT15)	16:39	54	13:47 (KLZ_WT22)
21	05:54			06:40		07:06 (SAM_WT06)	07:29		07:53 (SAM_WT04)	08:18		08:49 (KLZ_WT19)	08:11		08:41 (MVN_WT01)	08:47		09:18 (MXS_WT01)
	21:49			20:57	71	08:18 (KLZ_WT21)	19:48	1	07:54 (SAM_WT04)	18:42	27	09:16 (KLZ_WT19)	16:51	24	16:20 (KLZ_WT15)	16:40	54	13:47 (KLZ_WT22)
22	05:55			06:41		07:08 (SAM_WT06)	07:30			08:19		08:49 (KLZ_WT19)	08:12		13:01 (KLZ_WT22)	08:47		09:19 (MXS_WT01)
	21:48			20:55	65	08:18 (KLZ_WT21)	19:46			18:40	26	09:15 (KLZ_WT19)	16:50	25	16:19 (KLZ_WT15)	16:40	54	13:48 (KLZ_WT22)
23	05:56			06:43		07:16 (KLZ_WT23)	07:32			08:21		08:50 (KLZ_WT19)	08:14		12:59 (KLZ_WT22)	08:48		09:19 (MXS_WT01)
	21:47			20:53	57	08:17 (KLZ_WT21)	19:44			18:38	25	09:15 (KLZ_WT19)	16:49	25	13:24 (KLZ_WT22)	16:41	54	13:48 (KLZ_WT22)
24	05:58			06:45		07:30 (KLZ_WT21)	07:33			08:23		08:50 (KLZ_WT19)	08:16		12:58 (KLZ_WT22)	08:48		09:19 (MXS_WT01)
	21:45			20:50	47	08:17 (KLZ_WT21)	19:41			18:36	24	09:14 (KLZ_WT19)	16:48	28	13:26 (KLZ_WT22)	16:41	54	13:48 (KLZ_WT22)
25	05:59			06:46		07:29 (KLZ_WT21)	07:35			07:24		07:51 (KLZ_WT19)	08:17		12:57 (KLZ_WT22)	08:48		09:20 (MXS_WT01)
	21:44			20:48	46	08:15 (KLZ_WT21)	19:39			17:34	23	08:14 (KLZ_WT19)	16:47	31	13:28 (KLZ_WT22)	16:42	54	13:49 (KLZ_WT22)
26	06:00			06:48		07:30 (KLZ_WT21)	07:36			07:26		07:53 (KLZ_WT19)	08:19		12:55 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:43			20:46	45	08:15 (KLZ_WT21)	19:37			17:32	19	08:12 (KLZ_WT19)	16:46	34	13:29 (KLZ_WT22)	16:43	54	13:50 (KLZ_WT22)
27	06:02			06:49		07:30 (KLZ_WT21)	07:38			07:28		07:54 (KLZ_WT19)	08:20		12:55 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:41			20:44	44	08:14 (KLZ_WT21)	19:34			17:30	16	08:10 (KLZ_WT19)	16:45	35	13:30 (KLZ_WT22)	16:43	55	13:50 (KLZ_WT22)
28	06:03			06:51		07:31 (KLZ_WT21)	07:40			07:30		07:56 (KLZ_WT19)	08:22		12:54 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:40			20:42	42	08:13 (KLZ_WT21)	19:32			17:28	12	08:08 (KLZ_WT19)	16:44	38	13:32 (KLZ_WT22)	16:44	55	13:50 (KLZ_WT22)
29	06:05			06:52		07:31 (KLZ_WT21)	07:41			07:31		07:59 (KLZ_WT19)	08:23		12:53 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:38			20:40	40	08:11 (KLZ_WT21)	19:30			17:27	5	08:04 (KLZ_WT19)	16:44	40	13:33 (KLZ_WT22)	16:45	54	13:50 (KLZ_WT22)
30	06:06		07:49 (KLZ_WT21)	06:54		07:33 (KLZ_WT21)	07:43			07:33			08:25		12:54 (KLZ_WT22)	08:50		09:20 (MXS_WT01)
	21:37	11	08:00 (KLZ_WT21)	20:38	37	08:10 (KLZ_WT21)	19:28			17:25			16:43	40	13:34 (KLZ_WT22)	16:46	54	13:51 (KLZ_WT22)
31	06:08		07:47 (KLZ_WT21)	06:56		07:33 (KLZ_WT21)				07:35						08:50		09:20 (MXS_WT01)
	21:35	17	08:04 (KLZ_WT21)	20:35	35	08:08 (KLZ_WT21)				17:23						16:47	55	13:51 (KLZ_WT22)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		28			1765			216			572			861			1630	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,64			0,63			0,56			0,68			0,68	
Total reduction		0,28			0,29			0,27			0,20			0,18			0,15	
Total, real		8			514			58			113			153			243	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:36 (KLZ_WT19)	08:24		08:50 (CBR_WT01)	07:32		09:04 (KLZ_WT21)	07:23		10:09 (KLZ_WT21)	06:20			05:36		20:33 (KLZ_WT13)
	16:48	56	15:07 (KLZ_WT22)	17:35	26	16:57 (KLZ_WT15)	18:25	90	10:34 (KLZ_WT21)	20:17	48	10:57 (KLZ_WT21)	21:06			21:51	23	20:56 (KLZ_WT13)
2	08:50		09:37 (KLZ_WT19)	08:23		08:48 (CBR_WT01)	07:30		09:03 (KLZ_WT21)	07:21		08:05 (KLZ_WT23)	06:18			05:36		20:35 (KLZ_WT13)
	16:49	55	15:07 (KLZ_WT22)	17:36	24	16:55 (KLZ_WT15)	18:26	91	10:34 (KLZ_WT21)	20:19	54	10:54 (KLZ_WT21)	21:08			21:52	21	20:56 (KLZ_WT13)
3	08:49		09:37 (KLZ_WT19)	08:21		08:48 (CBR_WT01)	07:28		09:03 (KLZ_WT21)	07:19		08:02 (KLZ_WT23)	06:16			05:35		20:35 (KLZ_WT13)
	16:50	54	15:07 (KLZ_WT22)	17:38	20	09:08 (CBR_WT01)	18:28	91	10:34 (KLZ_WT21)	20:20	55	10:50 (KLZ_WT21)	21:09			21:53	21	20:56 (KLZ_WT13)
4	08:49		09:37 (KLZ_WT19)	08:19		08:48 (CBR_WT01)	07:26		09:03 (KLZ_WT21)	07:17		07:59 (KLZ_WT23)	06:15			05:34		20:35 (KLZ_WT13)
	16:51	52	15:06 (KLZ_WT22)	17:40	21	09:09 (CBR_WT01)	18:30	92	10:35 (KLZ_WT21)	20:22	53	10:46 (KLZ_WT21)	21:11			21:54	22	21:21 (EVE_WT01)
5	08:49		09:38 (KLZ_WT19)	08:18		08:48 (CBR_WT01)	07:24		09:01 (KLZ_WT21)	07:14		07:57 (KLZ_WT23)	06:13			05:34		20:37 (KLZ_WT13)
	16:53	52	15:07 (KLZ_WT22)	17:42	21	09:09 (CBR_WT01)	18:32	93	10:34 (KLZ_WT21)	20:24	45	10:40 (KLZ_WT21)	21:13			21:55	22	21:23 (EVE_WT01)
6	08:49		09:38 (KLZ_WT19)	08:16		08:47 (CBR_WT01)	07:21		09:01 (KLZ_WT21)	07:12		07:34 (SAM_WT08)	06:11		20:40 (KLZ_WT13)	05:33		20:37 (KLZ_WT13)
	16:54	50	15:06 (KLZ_WT22)	17:44	42	10:00 (KLZ_WT21)	18:33	93	10:34 (KLZ_WT21)	20:25	32	08:25 (KLZ_WT23)	21:14	5	20:45 (KLZ_WT13)	21:56	22	21:23 (EVE_WT01)
7	08:48		09:38 (KLZ_WT19)	08:15		08:47 (CBR_WT01)	07:19		09:01 (KLZ_WT21)	07:10		07:32 (SAM_WT08)	06:09		20:37 (KLZ_WT13)	05:32		20:38 (KLZ_WT13)
	16:55	49	15:06 (KLZ_WT22)	17:45	51	10:05 (KLZ_WT21)	18:35	93	10:34 (KLZ_WT21)	20:27	35	08:26 (KLZ_WT23)	21:16	10	20:47 (KLZ_WT13)	21:56	22	21:24 (EVE_WT01)
8	08:48		09:38 (KLZ_WT19)	08:13		08:49 (CBR_WT01)	07:17		09:01 (KLZ_WT21)	07:08		07:30 (SAM_WT08)	06:08		20:35 (KLZ_WT13)	05:32		20:38 (KLZ_WT13)
	16:56	45	15:04 (KLZ_WT22)	17:47	56	10:09 (KLZ_WT21)	18:37	93	10:34 (KLZ_WT21)	20:29	37	08:27 (KLZ_WT23)	21:17	13	20:48 (KLZ_WT13)	21:57	22	21:25 (EVE_WT01)
9	08:48		09:39 (KLZ_WT19)	08:11		08:49 (CBR_WT01)	07:15		07:38 (SAM_WT04)	07:05		07:51 (KLZ_WT23)	06:06		20:34 (KLZ_WT13)	05:31		20:40 (KLZ_WT13)
	16:58	41	15:03 (KLZ_WT22)	17:49	62	10:12 (KLZ_WT21)	18:39	94	10:34 (KLZ_WT21)	20:30	37	08:28 (KLZ_WT23)	21:19	16	20:50 (KLZ_WT13)	21:58	21	21:26 (EVE_WT01)
10	08:47		09:40 (KLZ_WT19)	08:09		08:49 (CBR_WT01)	07:13		07:35 (SAM_WT04)	07:03		07:50 (KLZ_WT23)	06:04		20:32 (KLZ_WT13)	05:31		20:41 (KLZ_WT13)
	16:59	33	10:13 (KLZ_WT19)	17:51	65	10:14 (KLZ_WT21)	18:40	96	10:32 (KLZ_WT21)	20:32	38	08:28 (KLZ_WT23)	21:21	19	20:51 (KLZ_WT13)	21:59	21	21:27 (EVE_WT01)
11	08:46		09:40 (KLZ_WT19)	08:08		08:50 (CBR_WT01)	07:10		07:33 (SAM_WT04)	07:01		07:24 (SAM_WT06)	06:03		20:32 (KLZ_WT13)	05:31		20:42 (KLZ_WT13)
	17:00	33	10:13 (KLZ_WT19)	17:53	68	10:16 (KLZ_WT21)	18:42	98	10:32 (KLZ_WT21)	20:34	44	08:28 (KLZ_WT23)	21:22	21	20:53 (KLZ_WT13)	22:00	21	21:28 (EVE_WT01)
12	08:46		09:41 (KLZ_WT19)	08:06		08:51 (CBR_WT01)	07:08		07:31 (SAM_WT04)	06:59		07:21 (SAM_WT06)	06:01		20:31 (KLZ_WT13)	05:30		20:42 (KLZ_WT13)
	17:02	33	10:14 (KLZ_WT19)	17:54	70	10:18 (KLZ_WT21)	18:44	99	10:32 (KLZ_WT21)	20:35	48	08:28 (KLZ_WT23)	21:24	23	20:54 (KLZ_WT13)	22:00	20	21:27 (EVE_WT01)
13	08:45		09:41 (KLZ_WT19)	08:04		08:53 (CBR_WT01)	07:06		07:29 (SAM_WT04)	06:57		07:19 (SAM_WT06)	05:59		20:30 (KLZ_WT13)	05:30		20:43 (KLZ_WT13)
	17:03	33	10:14 (KLZ_WT19)	17:56	69	10:20 (KLZ_WT21)	18:45	99	10:31 (KLZ_WT21)	20:37	52	08:28 (KLZ_WT23)	21:25	26	20:56 (KLZ_WT13)	22:01	19	21:28 (EVE_WT01)
14	08:44		09:42 (KLZ_WT19)	08:02		09:19 (KLZ_WT21)	07:04		07:29 (SAM_WT04)	06:55		07:17 (SAM_WT06)	05:58		20:29 (KLZ_WT13)	05:30		20:45 (KLZ_WT13)
	17:05	32	10:14 (KLZ_WT19)	17:58	63	10:22 (KLZ_WT21)	18:47	96	10:30 (KLZ_WT21)	20:38	55	08:28 (KLZ_WT23)	21:27	27	20:56 (KLZ_WT13)	22:02	17	21:29 (EVE_WT01)
15	08:44		09:42 (KLZ_WT19)	08:00		09:18 (KLZ_WT21)	07:02		08:59 (KLZ_WT21)	06:52		07:15 (SAM_WT06)	05:56		20:29 (KLZ_WT13)	05:30		20:46 (KLZ_WT13)
	17:06	32	10:14 (KLZ_WT19)	18:00	65	10:23 (KLZ_WT21)	18:49	90	10:29 (KLZ_WT21)	20:40	61	20:14 (EVE_WT02)	21:28	28	20:57 (KLZ_WT13)	22:02	15	21:29 (EVE_WT01)
16	08:43		09:43 (KLZ_WT19)	07:58		09:16 (KLZ_WT21)	06:59		07:22 (SAM_WT11)	06:50		07:13 (SAM_WT06)	05:55		20:29 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:08	31	10:14 (KLZ_WT19)	18:02	68	10:24 (KLZ_WT21)	18:50	91	10:29 (KLZ_WT21)	20:42	66	20:15 (EVE_WT02)	21:30	29	20:58 (KLZ_WT13)	22:03	12	21:30 (EVE_WT01)
17	08:42		09:44 (KLZ_WT19)	07:57		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT07)	06:48		07:13 (SAM_WT06)	05:53		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:09	30	10:14 (KLZ_WT19)	18:03	73	10:26 (KLZ_WT21)	18:52	94	10:27 (KLZ_WT21)	20:43	70	20:17 (EVE_WT02)	21:31	29	20:58 (KLZ_WT13)	22:03	12	21:30 (EVE_WT01)
18	08:41		09:44 (KLZ_WT19)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT07)	06:46		07:13 (SAM_WT06)	05:52		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:11	30	10:14 (KLZ_WT19)	18:05	78	10:27 (KLZ_WT21)	18:54	97	10:26 (KLZ_WT21)	20:45	71	20:19 (EVE_WT02)	21:33	29	20:58 (KLZ_WT13)	22:03	13	21:31 (EVE_WT01)
19	08:40		09:45 (KLZ_WT19)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT07)	06:44		07:13 (SAM_WT06)	05:51		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:12	29	10:14 (KLZ_WT19)	18:07	83	10:28 (KLZ_WT21)	18:55	99	10:25 (KLZ_WT21)	20:47	70	20:20 (EVE_WT02)	21:34	29	20:58 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
20	08:39		09:46 (KLZ_WT19)	07:51		08:14 (SAM_WT05)	06:50		07:13 (SAM_WT07)	06:42		07:14 (SAM_WT06)	05:49		20:29 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:14	28	10:14 (KLZ_WT19)	18:09	88	10:29 (KLZ_WT21)	18:57	100	10:24 (KLZ_WT21)	20:48	71	20:22 (EVE_WT02)	21:35	30	20:59 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
21	08:38		09:46 (KLZ_WT19)	07:49		08:12 (SAM_WT05)	06:48		07:10 (SAM_WT07)	06:40		07:15 (SAM_WT06)	05:48		20:28 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:16	28	16:44 (KLZ_WT15)	18:11	91	10:30 (KLZ_WT21)	18:59	101	10:22 (KLZ_WT21)	20:50	70	20:23 (EVE_WT02)	21:37	30	20:58 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
22	08:37		09:48 (KLZ_WT19)	07:47		08:10 (SAM_WT05)	06:46		07:09 (SAM_WT07)	06:38		07:17 (SAM_WT06)	05:47		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:17	27	16:46 (KLZ_WT15)	18:12	95	10:31 (KLZ_WT21)	19:00	99	10:20 (KLZ_WT21)	20:52	65	20:25 (EVE_WT02)	21:38	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
23	08:36		09:49 (KLZ_WT19)	07:45		08:10 (SAM_WT05)	06:44		07:09 (SAM_WT07)	06:36		07:48 (KLZ_WT23)	05:46		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:19	28	16:48 (KLZ_WT15)	18:14	94	10:31 (KLZ_WT21)	19:02	98	10:19 (KLZ_WT21)	20:53	56	20:25 (EVE_WT02)	21:40	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
24	08:35		09:51 (KLZ_WT19)	07:43		08:12 (SAM_WT05)	06:41		07:09 (SAM_WT07)	06:34		07:49 (KLZ_WT23)	05:44		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:21	27	16:50 (KLZ_WT15)	18:16	92	10:32 (KLZ_WT21)	19:04	96	10:18 (KLZ_WT21)	20:55	53	20:24 (EVE_WT02)	21:41	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
25	08:34		09:52 (KLZ_WT19)	07:41		09:07 (KLZ_WT21)	06:39		07:08 (SAM_WT07)	06:32		07:50 (KLZ_WT23)	05:43		20:30 (KLZ_WT13)	05:31		21:20 (EVE_WT01)
	17:22	25	16:51 (KLZ_WT15)	18:18	86	10:33 (KLZ_WT21)	19:05	92	10:15 (KLZ_WT21)	20:56	50	20:24 (EVE_WT02)	21:42	28	20:58 (KLZ_WT13)	22:05	13	21:33 (EVE_WT01)
26	08:32		09:55 (KLZ_WT19)	07:38		09:06 (KLZ_WT21)	06:37		07:09 (SAM_WT07)	06:30		07:51 (KLZ_WT23)	05:42		20:30 (KLZ_WT13)	05:31		21:20 (EVE_WT01)
	17:24	23	16:54 (KLZ_WT15)	18:19	87	10:33 (KLZ_WT21)	19:07	87	10:13 (KLZ_WT21)	20:58	46	20:23 (EVE_WT02)	21:43	28	20:58 (KLZ_WT13)	22:05	12	21:32 (EVE_WT01)
27	08:31		09:58 (KLZ_WT19)	07:36		09:06 (KLZ_WT21)	06:35		07:10 (SAM_WT07)	06:28		07:52 (KLZ_WT23)	05:41		20:31 (KLZ_WT13)	05:32		20:49 (KLZ_WT13)
	17:26	17	16:55 (KLZ_WT15)	18:21	88	10:34 (KLZ_WT21)	19:09	82	10:11 (KLZ_WT21)	21:00	41	20:22 (EVE_WT02)	21:45	26	20:57 (KLZ_WT13)	22:05	14	21:32 (EVE_WT01)
28	08:30		16:44 (KLZ_WT15)	07:34		09:04 (KLZ_WT21)	06:32		07:11 (SAM_WT07)	06:26		07:54 (KLZ_WT23)	05:40		20:31 (KLZ_WT13)	05:32		20:48 (KLZ_WT13)
	17:28	13	16:57 (KLZ_WT15)	18:23	89	10:33 (KLZ_WT21)	19:10	75	10:08 (KLZ_WT21)	21:01	34	20:20 (EVE_WT02)	21:46	26	20:57 (KLZ_WT13)	22:05	16	21:32 (EVE_WT01)
29	08:28		08:54 (CBR_WT01)				07:30		08:15 (SAM_WT07)	06:24		07:58 (KLZ_WT23)	05:39		20:32 (KLZ_WT13)	05:33		20:47 (KLZ_WT13)
	17:29	23	16:59 (KLZ_WT15)				20:12	63	11:06 (KLZ_WT21)	21:03	25	20:20 (EVE_WT02)	21:47	26	20:58 (KLZ_WT13)	22:05	18	21:32 (EVE_WT01)
30	08:27		08:53 (CBR_WT01)				07:28		10:07 (KLZ_WT21)	06:22		20:08 (EVE_WT02)	05:38		20:33 (KLZ_WT13)	05:33		20:47 (KLZ_WT13)
	17:31	25	16:59 (KLZ_WT15)				20:14	56	11:03 (KLZ_WT21)	21:05	9	20:17 (EVE_WT02)	21:48	24	20:57 (KLZ_WT13)	22:04	19	21:32 (EVE_WT01)
31	08:26		08:51 (CBR_WT01)				07:26		10:09 (KLZ_WT21)				05:37		20:33 (KLZ_WT13)			
	17:33	26	16:58 (KLZ_WT15)				20:15	52	11:01 (KLZ_WT21)				21:49	24	20:57 (KLZ_WT13)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1060			1835			2790			1491			633			516	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,59			0,55			0,55			0,61			0,56			0,55	
Total reduction		0,14			0,16			0,20			0,27			0,25			0,24	
Total, real		151			294			566			408			157			123	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Project:
WP Kluizendok v1

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		20:47 (KLZ_WT13)	06:09		20:41 (KLZ_WT13)	06:57		07:23 (SAM_WT06)	07:44		08:09 (SAM_WT04)	07:37		08:19 (CBR_WT01)	08:26		09:22 (KLZ_WT19)
	22:04	20	21:32 (EVE_WT01)	21:34	23	21:04 (KLZ_WT13)	20:33	44	08:27 (KLZ_WT23)	19:25	99	11:10 (KLZ_WT21)	17:21	65	09:44 (KLZ_WT21)	16:42	33	09:55 (KLZ_WT19)
2	05:34		20:45 (KLZ_WT13)	06:11		20:43 (KLZ_WT13)	06:59		07:48 (KLZ_WT23)	07:46		08:11 (SAM_WT04)	07:38		08:18 (CBR_WT01)	08:27		09:23 (KLZ_WT19)
	22:04	21	21:31 (EVE_WT01)	21:32	20	21:03 (KLZ_WT13)	20:31	38	08:26 (KLZ_WT23)	19:23	98	11:11 (KLZ_WT21)	17:19	62	09:41 (KLZ_WT21)	16:41	33	09:56 (KLZ_WT19)
3	05:35		20:45 (KLZ_WT13)	06:12		20:43 (KLZ_WT13)	07:00		07:49 (KLZ_WT23)	07:48		08:12 (SAM_WT04)	07:40		08:17 (CBR_WT01)	08:29		09:23 (KLZ_WT19)
	22:04	21	21:31 (EVE_WT01)	21:30	18	21:01 (KLZ_WT13)	20:29	37	08:26 (KLZ_WT23)	19:21	97	11:10 (KLZ_WT21)	17:17	56	09:37 (KLZ_WT21)	16:41	40	14:46 (KLZ_WT22)
4	05:36		20:45 (KLZ_WT13)	06:14		20:44 (KLZ_WT13)	07:02		07:27 (SAM_WT08)	07:49		08:14 (SAM_WT04)	07:42		08:17 (CBR_WT01)	08:30		09:23 (KLZ_WT19)
	22:03	21	21:31 (EVE_WT01)	21:29	15	20:59 (KLZ_WT13)	20:27	37	08:24 (KLZ_WT23)	19:19	95	11:11 (KLZ_WT21)	17:16	50	09:34 (KLZ_WT21)	16:40	45	14:49 (KLZ_WT22)
5	05:37		20:44 (KLZ_WT13)	06:15		20:46 (KLZ_WT13)	07:03		07:29 (SAM_WT08)	07:51		09:38 (KLZ_WT21)	07:44		08:17 (CBR_WT01)	08:31		09:24 (KLZ_WT19)
	22:03	22	21:30 (EVE_WT01)	21:27	12	20:58 (KLZ_WT13)	20:24	35	08:23 (KLZ_WT23)	19:16	93	11:11 (KLZ_WT21)	17:14	40	09:29 (KLZ_WT21)	16:40	48	14:51 (KLZ_WT22)
6	05:37		20:44 (KLZ_WT13)	06:17		20:48 (KLZ_WT13)	07:05		07:30 (SAM_WT08)	07:53		09:37 (KLZ_WT21)	07:45		08:18 (CBR_WT01)	08:33		09:24 (KLZ_WT19)
	22:02	22	21:30 (EVE_WT01)	21:25	8	20:56 (KLZ_WT13)	20:22	32	08:21 (KLZ_WT23)	19:14	93	11:10 (KLZ_WT21)	17:12	21	08:39 (CBR_WT01)	16:39	50	14:52 (KLZ_WT22)
7	05:38		20:43 (KLZ_WT13)	06:18			07:07		07:52 (KLZ_WT23)	07:54		09:37 (KLZ_WT21)	07:47		08:18 (CBR_WT01)	08:34		09:25 (KLZ_WT19)
	22:02	22	21:29 (EVE_WT01)	21:24			20:20	44	10:34 (KLZ_WT21)	19:12	93	11:10 (KLZ_WT21)	17:11	21	08:39 (CBR_WT01)	16:39	52	14:54 (KLZ_WT22)
8	05:39		20:43 (KLZ_WT13)	06:20			07:08		07:53 (KLZ_WT23)	07:56		09:37 (KLZ_WT21)	07:49		08:19 (CBR_WT01)	08:35		09:25 (KLZ_WT19)
	22:01	22	21:29 (EVE_WT01)	21:22			20:18	52	10:40 (KLZ_WT21)	19:10	93	11:10 (KLZ_WT21)	17:09	20	08:39 (CBR_WT01)	16:39	52	14:54 (KLZ_WT22)
9	05:40		20:43 (KLZ_WT13)	06:21			07:10		07:55 (KLZ_WT23)	07:57		09:37 (KLZ_WT21)	07:50		08:19 (CBR_WT01)	08:36		09:25 (KLZ_WT19)
	22:00	21	21:29 (EVE_WT01)	21:20			20:15	55	10:44 (KLZ_WT21)	19:08	92	11:09 (KLZ_WT21)	17:07	24	16:26 (KLZ_WT15)	16:39	54	14:55 (KLZ_WT22)
10	05:41		20:42 (KLZ_WT13)	06:23			07:11		07:58 (KLZ_WT23)	07:59		09:37 (KLZ_WT21)	07:52		08:21 (CBR_WT01)	08:37		09:26 (KLZ_WT19)
	22:00	22	21:04 (KLZ_WT13)	21:18			20:13	55	10:47 (KLZ_WT21)	19:05	92	11:09 (KLZ_WT21)	17:06	26	16:28 (KLZ_WT15)	16:38	55	14:56 (KLZ_WT22)
11	05:42		20:42 (KLZ_WT13)	06:24			07:13		10:03 (KLZ_WT21)	08:01		09:37 (KLZ_WT21)	07:54		08:23 (CBR_WT01)	08:38		09:26 (KLZ_WT19)
	21:59	22	21:04 (KLZ_WT13)	21:16			20:11	47	10:50 (KLZ_WT21)	19:03	91	11:08 (KLZ_WT21)	17:04	26	16:30 (KLZ_WT15)	16:38	56	14:57 (KLZ_WT22)
12	05:43		20:42 (KLZ_WT13)	06:26		20:19 (EVE_WT02)	07:14		10:00 (KLZ_WT21)	08:02		09:38 (KLZ_WT21)	07:56		08:24 (CBR_WT01)	08:39		09:27 (KLZ_WT19)
	21:58	23	21:05 (KLZ_WT13)	21:14	3	20:22 (EVE_WT02)	20:09	52	10:52 (KLZ_WT21)	19:01	90	11:08 (KLZ_WT21)	17:03	25	16:30 (KLZ_WT15)	16:38	56	14:58 (KLZ_WT22)
13	05:44		20:41 (KLZ_WT13)	06:27		20:15 (EVE_WT02)	07:16		09:58 (KLZ_WT21)	08:04		09:37 (KLZ_WT21)	07:57		08:26 (CBR_WT01)	08:40		09:27 (KLZ_WT19)
	21:57	24	21:05 (KLZ_WT13)	21:13	10	20:25 (EVE_WT02)	20:06	56	10:54 (KLZ_WT21)	18:59	90	11:07 (KLZ_WT21)	17:01	22	16:31 (KLZ_WT15)	16:38	57	14:58 (KLZ_WT22)
14	05:45		20:41 (KLZ_WT13)	06:29		08:05 (KLZ_WT23)	07:17		09:56 (KLZ_WT21)	08:06		09:38 (KLZ_WT21)	07:59		16:16 (KLZ_WT15)	08:41		09:28 (KLZ_WT19)
	21:56	25	21:06 (KLZ_WT13)	21:11	28	20:28 (EVE_WT02)	20:04	60	10:56 (KLZ_WT21)	18:57	88	11:06 (KLZ_WT21)	17:00	13	16:29 (KLZ_WT15)	16:38	57	14:59 (KLZ_WT22)
15	05:46		20:41 (KLZ_WT13)	06:30		08:01 (KLZ_WT23)	07:19		08:02 (SAM_WT07)	08:07		09:38 (KLZ_WT21)	08:01		09:31 (KLZ_WT19)	08:42		09:28 (KLZ_WT19)
	21:56	25	21:06 (KLZ_WT13)	21:09	36	20:28 (EVE_WT02)	20:02	73	10:58 (KLZ_WT21)	18:55	88	11:06 (KLZ_WT21)	16:59	18	16:28 (KLZ_WT15)	16:38	58	15:00 (KLZ_WT22)
16	05:48		20:40 (KLZ_WT13)	06:32		07:59 (KLZ_WT23)	07:21		07:59 (SAM_WT07)	08:09		09:38 (KLZ_WT21)	08:02		09:28 (KLZ_WT19)	08:43		09:29 (KLZ_WT19)
	21:55	27	21:07 (KLZ_WT13)	21:07	42	20:29 (EVE_WT02)	20:00	80	10:59 (KLZ_WT21)	18:52	86	11:04 (KLZ_WT21)	16:57	24	16:27 (KLZ_WT15)	16:38	58	15:01 (KLZ_WT22)
17	05:49		20:40 (KLZ_WT13)	06:34		07:57 (KLZ_WT23)	07:22		07:58 (SAM_WT07)	08:11		08:45 (SAM_WT05)	08:04		09:26 (KLZ_WT19)	08:44		09:30 (KLZ_WT19)
	21:54	27	21:07 (KLZ_WT13)	21:05	47	20:30 (EVE_WT02)	19:57	86	11:01 (KLZ_WT21)	18:50	89	11:04 (KLZ_WT21)	16:56	25	16:25 (KLZ_WT15)	16:38	58	15:02 (KLZ_WT22)
18	05:50		20:39 (KLZ_WT13)	06:35		07:56 (KLZ_WT23)	07:24		07:56 (SAM_WT07)	08:12		08:43 (SAM_WT05)	08:06		09:24 (KLZ_WT19)	08:45		09:29 (KLZ_WT19)
	21:52	28	21:07 (KLZ_WT13)	21:03	50	20:30 (EVE_WT02)	19:55	91	11:02 (KLZ_WT21)	18:48	93	11:03 (KLZ_WT21)	16:55	27	16:23 (KLZ_WT15)	16:39	59	15:01 (KLZ_WT22)
19	05:51		20:39 (KLZ_WT13)	06:37		07:54 (KLZ_WT23)	07:25		07:56 (SAM_WT07)	08:14		08:41 (SAM_WT05)	08:07		09:23 (KLZ_WT19)	08:45		09:24 (MVN_WT01)
	21:51	28	21:07 (KLZ_WT13)	21:01	55	20:30 (EVE_WT02)	19:53	94	11:04 (KLZ_WT21)	18:46	94	11:02 (KLZ_WT21)	16:53	28	16:22 (KLZ_WT15)	16:39	60	15:02 (KLZ_WT22)
20	05:52		20:40 (KLZ_WT13)	06:38		07:54 (KLZ_WT23)	07:27		07:55 (SAM_WT07)	08:16		08:42 (SAM_WT05)	08:09		09:23 (KLZ_WT19)	08:46		09:25 (MVN_WT01)
	21:50	28	21:08 (KLZ_WT13)	20:59	56	20:31 (EVE_WT02)	19:50	98	11:05 (KLZ_WT21)	18:44	93	11:02 (KLZ_WT21)	16:52	27	16:21 (KLZ_WT15)	16:39	60	15:03 (KLZ_WT22)
21	05:54		20:39 (KLZ_WT13)	06:40		07:21 (SAM_WT06)	07:28		07:54 (SAM_WT07)	08:18		08:43 (SAM_WT05)	08:11		09:22 (KLZ_WT19)	08:47		09:25 (MVN_WT01)
	21:49	29	21:08 (KLZ_WT13)	20:57	66	20:29 (EVE_WT02)	19:48	101	11:06 (KLZ_WT21)	18:42	90	11:00 (KLZ_WT21)	16:51	28	16:20 (KLZ_WT15)	16:40	60	15:03 (KLZ_WT22)
22	05:55		20:39 (KLZ_WT13)	06:41		07:19 (SAM_WT06)	07:30		07:55 (SAM_WT07)	08:19		08:45 (SAM_WT05)	08:12		09:22 (KLZ_WT19)	08:47		09:26 (MVN_WT01)
	21:48	29	21:08 (KLZ_WT13)	20:55	71	20:28 (EVE_WT02)	19:46	101	11:07 (KLZ_WT21)	18:40	86	10:59 (KLZ_WT21)	16:50	28	09:50 (KLZ_WT19)	16:40	60	15:04 (KLZ_WT22)
23	05:56		20:39 (KLZ_WT13)	06:43		07:17 (SAM_WT06)	07:32		07:56 (SAM_WT07)	08:21		08:47 (SAM_WT05)	08:14		09:21 (KLZ_WT19)	08:48		09:26 (MVN_WT01)
	21:47	29	21:08 (KLZ_WT13)	20:53	70	20:25 (EVE_WT02)	19:44	100	11:07 (KLZ_WT21)	18:38	82	10:58 (KLZ_WT21)	16:49	29	09:50 (KLZ_WT19)	16:41	60	15:04 (KLZ_WT22)
24	05:58		20:39 (KLZ_WT13)	06:45		07:17 (SAM_WT06)	07:33		07:58 (SAM_WT07)	08:23		08:49 (SAM_WT05)	08:16		09:21 (KLZ_WT19)	08:48		09:26 (MVN_WT01)
	21:45	29	21:08 (KLZ_WT13)	20:50	72	20:24 (EVE_WT02)	19:41	99	11:08 (KLZ_WT21)	18:36	77	10:57 (KLZ_WT21)	16:48	30	09:51 (KLZ_WT19)	16:41	60	15:04 (KLZ_WT22)
25	05:59		20:39 (KLZ_WT13)	06:46		07:16 (SAM_WT06)	07:35		07:59 (SAM_WT07)	07:24		07:51 (SAM_WT05)	08:17		09:22 (KLZ_WT19)	08:48		09:28 (MVN_WT01)
	21:44	30	21:09 (KLZ_WT13)	20:48	71	20:21 (EVE_WT02)	19:39	97	11:08 (KLZ_WT21)	17:34	72	09:56 (KLZ_WT21)	16:47	30	09:52 (KLZ_WT19)	16:42	59	15:05 (KLZ_WT22)
26	06:00		20:39 (KLZ_WT13)	06:48		07:16 (SAM_WT06)	07:36		08:01 (SAM_WT07)	07:26		08:47 (KLZ_WT21)	08:19		09:21 (KLZ_WT19)	08:49		09:34 (KLZ_WT19)
	21:43	29	21:08 (KLZ_WT13)	20:46	69	20:20 (EVE_WT02)	19:37	95	11:09 (KLZ_WT21)	17:32	68	09:55 (KLZ_WT21)	16:46	31	09:52 (KLZ_WT19)	16:43	58	15:05 (KLZ_WT22)
27	06:02		20:39 (KLZ_WT13)	06:49		07:15 (SAM_WT06)	07:38		08:03 (SAM_WT07)	07:28		08:48 (KLZ_WT21)	08:20		09:21 (KLZ_WT19)	08:49		09:34 (KLZ_WT19)
	21:41	29	21:08 (KLZ_WT13)	20:44	67	20:17 (EVE_WT02)	19:34	91	11:10 (KLZ_WT21)	17:30	64	09:52 (KLZ_WT21)	16:45	32	09:53 (KLZ_WT19)	16:43	58	15:06 (KLZ_WT22)
28	06:03		20:40 (KLZ_WT13)	06:51		07:17 (SAM_WT06)	07:40		09:40 (KLZ_WT21)	07:30		08:25 (CBR_WT01)	08:22		09:22 (KLZ_WT19)	08:49		09:34 (KLZ_WT19)
	21:40	28	21:08 (KLZ_WT13)	20:42	60	20:15 (EVE_WT02)	19:32	90	11:10 (KLZ_WT21)	17:28	67	09:51 (KLZ_WT21)	16:44	32	09:54 (KLZ_WT19)	16:44	58	15:06 (KLZ_WT22)
29	06:05		20:40 (KLZ_WT13)	06:52		07:18 (SAM_WT06)	07:41		08:11 (SAM_WT04)	07:31		08:22 (CBR_WT01)	08:23		09:21 (KLZ_WT19)	08:49		09:34 (KLZ_WT19)
	21:38	28	21:08 (KLZ_WT13)	20:40	54	08:28 (KLZ_WT23)	19:30	92	11:10 (KLZ_WT21)	17:26	70	09:49 (KLZ_WT21)	16:43	33	09:54 (KLZ_WT19)	16:45	58	15:06 (KLZ_WT22)
30	06:06		20:40 (KLZ_WT13)	06:54		07:20 (SAM_WT06)	07:43		08:07 (SAM_WT04)	07:33		08:21 (CBR_WT01)	08:25		09:22 (KLZ_WT19)	08:50		09:35 (KLZ_WT19)
	21:37	27	21:07 (KLZ_WT13)	20:38	52	08:29 (KLZ_WT23)	19:28	99	11:10 (KLZ_WT21)	17:25	69	09:48 (KLZ_WT21)	16:43	33	09:55 (KLZ_WT19)	16:46	56	15:06 (KLZ_WT22)
31	06:08		20:41 (KLZ_WT13)	06:56		07:21 (SAM_WT06)				07:35		08:20 (CBR_WT01)				08:50		09:35 (KLZ_WT19)
	21:35	25	21:06 (KLZ_WT13)	20:35	47	08:27 (KLZ_WT23)				17:23	67	09:46 (KLZ_WT21)				16:47	56	15:06 (KLZ_WT22)
Potential sun hours	498			452			380			333			269			248		
Total, worst case	783			1122			2131			2659			926			1684		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,56			0,61			0,56			0,54			0,57			0,62		
Total reduction	0,24			0,28			0,24			0,19			0,15			0,14		
Total, real	190			310			506			512			137			228		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (KLZ_WT23)	08:24		08:52 (SAM_WT07)	07:32		08:03 (SAM_WT06)	07:23		08:12 (KLZ_WT17)	06:20		06:44 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:48	134	14:39 (KLZ_WT20)	17:35	138	17:05 (EVE_WT02)	18:25	27	08:33 (KLZ_WT05)	20:17	19	08:31 (KLZ_WT17)	21:06	5	06:49 (SAM_WT10)	21:51	10	06:14 (TEN_WT01)
2	08:50		09:32 (KLZ_WT23)	08:23		08:52 (SAM_WT07)	07:30		08:04 (SAM_WT06)	07:21		08:15 (KLZ_WT17)	06:18		06:42 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:49	137	16:15 (KLZ_WT13)	17:36	123	17:07 (EVE_WT02)	18:26	30	18:01 (EVE_WT01)	20:19	13	08:28 (KLZ_WT17)	21:08	6	06:48 (SAM_WT10)	21:52	11	06:15 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:52 (SAM_WT07)	07:28		08:07 (SAM_WT06)	07:19			06:16		06:41 (SAM_WT10)	05:35		06:03 (TEN_WT01)
	16:50	142	16:17 (KLZ_WT13)	17:38	116	17:09 (EVE_WT02)	18:28	36	18:03 (EVE_WT01)	20:20			21:10	6	06:47 (SAM_WT10)	21:53	13	06:16 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT04)	07:26		08:14 (KLZ_WT05)	07:17		07:39 (KLZ_WT02)	06:15		06:39 (SAM_WT10)	05:34		06:02 (TEN_WT01)
	16:51	146	16:17 (KLZ_WT13)	17:40	101	17:11 (EVE_WT02)	18:30	38	18:05 (EVE_WT01)	20:22	3	07:42 (KLZ_WT02)	21:11	6	06:45 (SAM_WT10)	21:54	14	06:16 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24		08:11 (KLZ_WT05)	07:14		07:37 (KLZ_WT02)	06:13			05:33		06:02 (TEN_WT01)
	16:52	151	16:19 (KLZ_WT13)	17:42	94	17:13 (EVE_WT02)	18:32	45	18:06 (EVE_WT01)	20:24	6	07:43 (KLZ_WT02)	21:13			21:55	15	06:17 (TEN_WT01)
6	08:49		09:18 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21		08:10 (KLZ_WT05)	07:12		07:34 (KLZ_WT02)	06:11			05:33		06:01 (TEN_WT01)
	16:54	156	16:20 (KLZ_WT13)	17:44	76	17:15 (EVE_WT02)	18:33	50	18:08 (EVE_WT01)	20:25	8	07:42 (KLZ_WT02)	21:14			21:56	16	06:17 (TEN_WT01)
7	08:48		09:18 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19		08:09 (KLZ_WT05)	07:10		07:32 (KLZ_WT01)	06:09			05:32		06:01 (TEN_WT01)
	16:55	158	16:22 (KLZ_WT13)	17:45	68	17:16 (EVE_WT02)	18:35	54	18:10 (EVE_WT01)	20:27	10	07:42 (KLZ_WT02)	21:16			21:57	17	06:18 (TEN_WT01)
8	08:48		09:17 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17		08:09 (KLZ_WT05)	07:08		07:30 (KLZ_WT01)	06:08			05:32		06:00 (TEN_WT01)
	16:56	163	16:23 (KLZ_WT13)	17:47	70	17:18 (EVE_WT02)	18:37	57	18:12 (EVE_WT01)	20:29	11	07:41 (KLZ_WT02)	21:17			21:57	17	06:17 (TEN_WT01)
9	08:48		09:17 (SAM_WT05)	08:11		08:36 (SAM_WT11)	07:15		07:38 (SAM_WT08)	07:05		07:28 (KLZ_WT01)	06:06			05:31		06:00 (TEN_WT01)
	16:58	167	16:25 (KLZ_WT13)	17:49	69	17:17 (EVE_WT02)	18:39	59	18:12 (EVE_WT01)	20:30	12	07:40 (KLZ_WT02)	21:19			21:58	18	06:18 (TEN_WT01)
10	08:47		09:16 (SAM_WT05)	08:09		08:34 (SAM_WT11)	07:13		07:35 (SAM_WT08)	07:03		07:26 (KLZ_WT01)	06:04			05:31		06:00 (TEN_WT01)
	16:59	170	16:26 (KLZ_WT13)	17:51	70	17:17 (EVE_WT02)	18:40	62	18:12 (EVE_WT01)	20:32	6	07:32 (KLZ_WT01)	21:21			21:59	19	06:19 (TEN_WT01)
11	08:47		09:15 (SAM_WT05)	08:08		08:32 (SAM_WT11)	07:10		08:07 (KLZ_WT05)	07:01		07:27 (KLZ_WT01)	06:03			05:31		06:01 (TEN_WT01)
	17:00	173	16:27 (KLZ_WT13)	17:53	68	17:16 (EVE_WT02)	18:42	60	18:12 (EVE_WT01)	20:34	3	07:30 (KLZ_WT01)	21:22			22:00	18	06:19 (TEN_WT01)
12	08:46		09:15 (SAM_WT05)	08:06		08:30 (SAM_WT11)	07:08		07:31 (KLZ_WT17)	06:59			06:01			05:30		06:00 (TEN_WT01)
	17:02	174	16:29 (KLZ_WT13)	17:54	66	17:15 (EVE_WT02)	18:44	59	18:11 (EVE_WT01)	20:35			21:24			22:00	19	06:19 (TEN_WT01)
13	08:45		09:15 (SAM_WT05)	08:04		08:32 (SAM_WT11)	07:06		07:29 (KLZ_WT17)	06:57			05:59			05:30		06:00 (TEN_WT01)
	17:03	175	16:31 (KLZ_WT13)	17:56	56	17:13 (EVE_WT02)	18:45	66	18:11 (EVE_WT01)	20:37			21:25			22:01	19	06:19 (TEN_WT01)
14	08:45		09:16 (SAM_WT05)	08:02		16:13 (KLZ_WT12)	07:04		07:26 (KLZ_WT17)	06:55			05:58			05:30		06:01 (TEN_WT01)
	17:05	176	16:32 (KLZ_WT13)	17:58	47	17:11 (EVE_WT02)	18:47	67	18:09 (EVE_WT01)	20:38			21:27			22:02	18	06:19 (TEN_WT01)
15	08:44		09:29 (KLZ_WT23)	08:00		16:13 (KLZ_WT12)	07:02		07:24 (KLZ_WT17)	06:52			05:56			05:30		06:01 (TEN_WT01)
	17:06	171	16:34 (KLZ_WT13)	18:00	38	16:51 (KLZ_WT12)	18:49	68	18:08 (EVE_WT01)	20:40			21:28			22:02	19	06:20 (TEN_WT01)
16	08:43		09:29 (KLZ_WT23)	07:58		16:14 (KLZ_WT12)	06:59		07:22 (KLZ_WT17)	06:50			05:55			05:29		06:01 (TEN_WT01)
	17:08	171	16:35 (KLZ_WT13)	18:02	36	16:50 (KLZ_WT12)	18:50	67	18:07 (EVE_WT01)	20:42			21:30			22:03	19	06:20 (TEN_WT01)
17	08:42		09:29 (KLZ_WT23)	07:57		16:15 (KLZ_WT12)	06:57		07:19 (KLZ_WT17)	06:48			05:53			05:29		06:01 (TEN_WT01)
	17:09	171	16:35 (KLZ_WT13)	18:03	34	16:49 (KLZ_WT12)	18:52	64	18:04 (EVE_WT01)	20:43			21:31			22:03	19	06:20 (TEN_WT01)
18	08:41		09:29 (KLZ_WT23)	07:55		16:17 (KLZ_WT12)	06:55		07:17 (KLZ_WT17)	06:46			05:52			05:29		06:01 (TEN_WT01)
	17:11	171	16:36 (KLZ_WT13)	18:05	31	16:48 (KLZ_WT12)	18:54	58	18:01 (EVE_WT01)	20:45			21:33			22:04	19	06:20 (TEN_WT01)
19	08:40		09:29 (KLZ_WT23)	07:53		16:18 (KLZ_WT12)	06:53		07:15 (KLZ_WT17)	06:44			05:51			05:29		06:02 (TEN_WT01)
	17:12	170	16:36 (KLZ_WT13)	18:07	29	16:47 (KLZ_WT12)	18:55	48	08:31 (KLZ_WT05)	20:47			21:34			22:04	19	06:21 (TEN_WT01)
20	08:39		09:29 (KLZ_WT23)	07:51		16:21 (KLZ_WT12)	06:50		07:13 (KLZ_WT17)	06:42			05:49			05:30		06:02 (TEN_WT01)
	17:14	169	16:37 (KLZ_WT13)	18:09	24	16:45 (KLZ_WT12)	18:57	47	08:29 (KLZ_WT05)	20:48			21:35			22:04	19	06:21 (TEN_WT01)
21	08:38		09:29 (KLZ_WT23)	07:49		08:12 (SAM_WT06)	06:48		07:10 (KLZ_WT17)	06:40			05:48			05:30		06:02 (TEN_WT01)
	17:16	166	16:36 (KLZ_WT13)	18:11	24	16:43 (KLZ_WT12)	18:59	42	08:24 (KLZ_WT05)	20:50			21:37			22:04	19	06:21 (TEN_WT01)
22	08:37		09:29 (KLZ_WT23)	07:47		08:10 (SAM_WT06)	06:46		07:08 (KLZ_WT17)	06:38			05:47			05:30		06:03 (TEN_WT01)
	17:17	165	16:37 (KLZ_WT13)	18:12	22	16:40 (KLZ_WT12)	19:00	35	07:43 (KLZ_WT17)	20:52			21:38			22:05	19	06:22 (TEN_WT01)
23	08:36		09:30 (KLZ_WT23)	07:45		08:08 (SAM_WT06)	06:44		07:08 (KLZ_WT17)	06:36			05:46			05:30		06:03 (TEN_WT01)
	17:19	162	16:39 (KLZ_WT12)	18:14	11	08:19 (SAM_WT06)	19:02	35	07:43 (KLZ_WT17)	20:53			21:40			22:05	19	06:22 (TEN_WT01)
24	08:35		09:02 (SAM_WT07)	07:43		08:06 (SAM_WT06)	06:41		07:08 (KLZ_WT17)	06:34			05:44			05:30		06:02 (TEN_WT01)
	17:21	163	16:41 (KLZ_WT12)	18:16	13	08:19 (SAM_WT06)	19:04	35	07:43 (KLZ_WT17)	20:55			21:41			22:05	20	06:22 (TEN_WT01)
25	08:34		09:00 (SAM_WT07)	07:41		08:04 (SAM_WT06)	06:39		07:08 (KLZ_WT17)	06:32			05:43			05:31		06:03 (TEN_WT01)
	17:22	164	16:42 (KLZ_WT12)	18:18	16	08:20 (SAM_WT06)	19:05	34	07:42 (KLZ_WT17)	20:57			21:42			22:05	19	06:22 (TEN_WT01)
26	08:32		08:59 (SAM_WT07)	07:38		08:02 (SAM_WT06)	06:37		07:08 (KLZ_WT17)	06:30			05:42			05:31		06:03 (TEN_WT01)
	17:24	163	16:44 (KLZ_WT12)	18:19	18	08:20 (SAM_WT06)	19:07	33	07:41 (KLZ_WT17)	20:58			21:43			22:05	19	06:22 (TEN_WT01)
27	08:31		08:57 (SAM_WT07)	07:36		08:03 (SAM_WT06)	06:35		07:08 (KLZ_WT17)	06:28			05:41			05:32		06:03 (TEN_WT01)
	17:26	161	16:45 (KLZ_WT12)	18:21	16	08:19 (SAM_WT06)	19:09	32	07:40 (KLZ_WT17)	21:00			21:45			22:05	19	06:22 (TEN_WT01)
28	08:30		08:56 (SAM_WT07)	07:34		08:02 (SAM_WT06)	06:32		07:08 (KLZ_WT17)	06:26			05:40		06:07 (TEN_WT01)	05:32		06:04 (TEN_WT01)
	17:28	161	16:47 (KLZ_WT12)	18:23	16	08:18 (SAM_WT06)	19:10	31	07:39 (KLZ_WT17)	21:01			21:46	1	06:08 (TEN_WT01)	22:05	19	06:23 (TEN_WT01)
29	08:28		08:54 (SAM_WT07)				07:30		08:09 (KLZ_WT17)	06:24		06:48 (SAM_WT10)	05:39		06:07 (TEN_WT01)	05:33		06:03 (TEN_WT01)
	17:29	158	16:48 (KLZ_WT12)				20:12	28	08:37 (KLZ_WT17)	21:03	2	06:50 (SAM_WT10)	21:47	5	06:12 (TEN_WT01)	22:05	19	06:22 (TEN_WT01)
30	08:27		08:53 (SAM_WT07)				07:28		08:10 (KLZ_WT17)	06:22		06:46 (SAM_WT10)	05:38		06:06 (TEN_WT01)	05:33		06:04 (TEN_WT01)
	17:31	152	16:49 (KLZ_WT12)				20:14	26	08:36 (KLZ_WT17)	21:05	3	06:49 (SAM_WT10)	21:48	7	06:13 (TEN_WT01)	22:04	19	06:23 (TEN_WT01)
31	08:26		08:51 (SAM_WT07)				07:25		08:12 (KLZ_WT17)				05:37		06:05 (TEN_WT01)			
	17:33	149	17:03 (EVE_WT02)				20:15	22	08:34 (KLZ_WT17)				21:49	9	06:14 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		5009			1490			1415			96			45			529	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,65			0,68			0,59			0,63			0,69			0,71	
Total reduction		0,16			0,20			0,22			0,28			0,31			0,31	
Total, real		786			296			309			27			14			162	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:05 (TEN_WT01)	06:09			06:57		07:26 (KLZ_WT01)	07:44		08:09 (KLZ_WT17)	07:37		08:04 (SAM_WT11)	08:26		08:57 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:34			20:33	3	07:29 (KLZ_WT01)	19:25	63	18:50 (EVE_WT01)	17:21	69	16:47 (EVE_WT02)	16:42	172	16:09 (KLZ_WT13)
2	05:34		06:04 (TEN_WT01)	06:10			06:59		07:24 (KLZ_WT01)	07:46		08:46 (KLZ_WT05)	07:38		08:06 (SAM_WT11)	08:27		08:59 (SAM_WT05)
	22:04	19	06:23 (TEN_WT01)	21:32			20:31	6	07:30 (KLZ_WT01)	19:23	58	18:50 (EVE_WT01)	17:19	67	16:47 (EVE_WT02)	16:41	168	16:09 (KLZ_WT13)
3	05:35		06:05 (TEN_WT01)	06:12			07:00		07:26 (KLZ_WT01)	07:48		08:12 (SAM_WT08)	07:40		08:08 (SAM_WT04)	08:29		09:00 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:30			20:29	12	07:38 (KLZ_WT02)	19:21	62	18:49 (EVE_WT01)	17:17	70	16:47 (EVE_WT02)	16:41	167	16:08 (KLZ_WT13)
4	05:36		06:06 (TEN_WT01)	06:13			07:02		07:27 (KLZ_WT01)	07:49		08:14 (SAM_WT08)	07:42		08:09 (SAM_WT04)	08:30		09:02 (SAM_WT05)
	22:03	18	06:24 (TEN_WT01)	21:29			20:27	11	07:38 (KLZ_WT02)	19:19	59	18:49 (EVE_WT01)	17:16	69	16:46 (EVE_WT02)	16:40	162	16:08 (KLZ_WT13)
5	05:37		06:06 (TEN_WT01)	06:15			07:03		07:29 (KLZ_WT01)	07:51		08:46 (KLZ_WT05)	07:44		08:11 (SAM_WT04)	08:31		09:03 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:27			20:24	10	07:39 (KLZ_WT02)	19:16	57	18:49 (EVE_WT01)	17:14	81	16:44 (EVE_WT02)	16:40	159	16:07 (KLZ_WT13)
6	05:37		06:07 (TEN_WT01)	06:17			07:05		07:30 (KLZ_WT02)	07:53		08:45 (KLZ_WT05)	07:45		08:13 (SAM_WT04)	08:33		09:04 (SAM_WT05)
	22:02	16	06:23 (TEN_WT01)	21:25			20:22	8	07:38 (KLZ_WT02)	19:14	56	18:47 (EVE_WT01)	17:12	93	16:42 (EVE_WT02)	16:39	156	16:06 (KLZ_WT13)
7	05:38		06:08 (TEN_WT01)	06:18			07:06		07:32 (KLZ_WT02)	07:54		08:46 (KLZ_WT05)	07:47		08:15 (SAM_WT04)	08:34		09:06 (SAM_WT05)
	22:02	15	06:23 (TEN_WT01)	21:24			20:20	6	07:38 (KLZ_WT02)	19:12	51	18:45 (EVE_WT01)	17:11	102	16:41 (EVE_WT02)	16:39	151	16:06 (KLZ_WT13)
8	05:39		06:09 (TEN_WT01)	06:20			07:08		07:33 (KLZ_WT02)	07:56		08:47 (KLZ_WT05)	07:49		08:23 (SAM_WT07)	08:35		09:07 (SAM_WT05)
	22:01	14	06:23 (TEN_WT01)	21:22			20:18	4	07:37 (KLZ_WT02)	19:10	46	18:43 (EVE_WT01)	17:09	117	16:39 (EVE_WT02)	16:39	146	16:05 (KLZ_WT13)
9	05:40		06:10 (TEN_WT01)	06:21		06:49 (SAM_WT10)	07:10			07:57		08:47 (KLZ_WT05)	07:50		08:23 (SAM_WT07)	08:36		09:08 (SAM_WT05)
	22:00	13	06:23 (TEN_WT01)	21:20	6	06:55 (SAM_WT10)	20:15			19:08	41	18:40 (EVE_WT01)	17:07	123	16:38 (EVE_WT02)	16:38	142	16:05 (KLZ_WT13)
10	05:41		06:11 (TEN_WT01)	06:23		06:50 (SAM_WT10)	07:11		08:09 (KLZ_WT17)	07:59		08:49 (KLZ_WT05)	07:52		08:23 (SAM_WT07)	08:37		09:21 (KLZ_WT23)
	22:00	12	06:23 (TEN_WT01)	21:18	6	06:56 (SAM_WT10)	20:13	12	08:21 (KLZ_WT17)	19:05	34	18:38 (EVE_WT01)	17:06	138	16:36 (EVE_WT02)	16:38	139	16:05 (KLZ_WT13)
11	05:42		06:12 (TEN_WT01)	06:24		06:51 (SAM_WT10)	07:13		08:06 (KLZ_WT17)	08:01		08:40 (SAM_WT06)	07:54		08:23 (SAM_WT07)	08:38		09:22 (KLZ_WT23)
	21:59	11	06:23 (TEN_WT01)	21:16	5	06:56 (SAM_WT10)	20:11	18	08:24 (KLZ_WT17)	19:03	34	18:36 (EVE_WT01)	17:04	148	16:35 (EVE_WT02)	16:38	134	14:29 (KLZ_WT20)
12	05:43		06:13 (TEN_WT01)	06:26		06:53 (SAM_WT10)	07:14		08:03 (KLZ_WT17)	08:02		08:38 (SAM_WT06)	07:56		08:24 (SAM_WT07)	08:39		09:24 (KLZ_WT23)
	21:58	9	06:22 (TEN_WT01)	21:14	4	06:57 (SAM_WT10)	20:09	22	08:25 (KLZ_WT17)	19:01	28	09:09 (KLZ_WT05)	17:03	152	16:20 (KLZ_WT12)	16:38	132	14:30 (KLZ_WT20)
13	05:44		06:14 (TEN_WT01)	06:27		06:54 (SAM_WT10)	07:16		08:02 (KLZ_WT17)	08:04		08:36 (SAM_WT06)	07:57		08:26 (SAM_WT07)	08:40		10:42 (KLZ_WT06)
	21:57	8	06:22 (TEN_WT01)	21:13	3	06:57 (SAM_WT10)	20:06	25	08:27 (KLZ_WT17)	18:59	22	09:04 (KLZ_WT05)	17:01	157	16:19 (KLZ_WT12)	16:38	126	14:30 (KLZ_WT20)
14	05:45		06:15 (TEN_WT01)	06:29		06:56 (SAM_WT10)	07:17		08:00 (KLZ_WT17)	08:06		08:35 (SAM_WT06)	07:59		08:28 (SAM_WT07)	08:41		10:42 (KLZ_WT06)
	21:56	6	06:21 (TEN_WT01)	21:11	2	06:58 (SAM_WT10)	20:04	28	08:28 (KLZ_WT17)	18:57	16	08:51 (SAM_WT06)	17:00	161	16:19 (KLZ_WT12)	16:38	126	14:31 (KLZ_WT20)
15	05:46		06:16 (TEN_WT01)	06:30			07:19		07:59 (KLZ_WT17)	08:07		08:35 (SAM_WT06)	08:01		08:30 (SAM_WT07)	08:42		10:43 (KLZ_WT06)
	21:56	3	06:19 (TEN_WT01)	21:09			20:02	30	08:29 (KLZ_WT17)	18:55	17	08:52 (SAM_WT06)	16:59	161	16:18 (KLZ_WT12)	16:38	126	14:31 (KLZ_WT20)
16	05:48			06:32			07:21		07:57 (KLZ_WT17)	08:09		08:35 (SAM_WT06)	08:02		08:32 (SAM_WT07)	08:43		10:44 (KLZ_WT06)
	21:55			21:07			20:00	32	08:29 (KLZ_WT17)	18:52	17	08:52 (SAM_WT06)	16:57	162	16:17 (KLZ_WT12)	16:38	125	14:32 (KLZ_WT20)
17	05:49			06:34			07:22		07:56 (KLZ_WT17)	08:11		08:36 (SAM_WT06)	08:04		08:34 (SAM_WT07)	08:44		10:44 (KLZ_WT06)
	21:54			21:05			19:57	33	08:29 (KLZ_WT17)	18:50	15	08:51 (SAM_WT06)	16:56	164	16:16 (KLZ_WT12)	16:38	126	14:33 (KLZ_WT20)
18	05:50			06:35			07:24		07:55 (KLZ_WT17)	08:12		08:38 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		10:44 (KLZ_WT06)
	21:53			21:03			19:55	34	08:29 (KLZ_WT17)	18:48	12	08:50 (SAM_WT06)	16:55	163	16:15 (KLZ_WT12)	16:39	125	14:32 (KLZ_WT20)
19	05:51			06:37			07:25		07:55 (KLZ_WT17)	08:14		08:40 (SAM_WT06)	08:08		09:04 (KLZ_WT23)	08:45		10:45 (KLZ_WT06)
	21:51			21:01			19:53	34	08:29 (KLZ_WT17)	18:46	15	17:07 (KLZ_WT12)	16:53	162	16:13 (KLZ_WT12)	16:39	125	14:33 (KLZ_WT20)
20	05:52			06:38			07:27		07:55 (KLZ_WT17)	08:16		08:42 (SAM_WT06)	08:09		09:04 (KLZ_WT23)	08:46		10:46 (KLZ_WT06)
	21:50			20:59			19:50	35	08:30 (KLZ_WT17)	18:44	22	17:12 (KLZ_WT12)	16:52	165	16:12 (KLZ_WT13)	16:39	125	14:34 (KLZ_WT20)
21	05:54			06:40			07:28		07:54 (KLZ_WT17)	08:18		08:43 (SAM_WT06)	08:11		09:05 (KLZ_WT23)	08:47		10:46 (KLZ_WT06)
	21:49			20:57			19:48	35	08:29 (KLZ_WT17)	18:42	24	17:14 (KLZ_WT12)	16:51	166	16:12 (KLZ_WT13)	16:40	125	14:34 (KLZ_WT20)
22	05:55			06:41			07:30		07:55 (KLZ_WT17)	08:19		16:50 (KLZ_WT12)	08:12		09:05 (KLZ_WT23)	08:47		10:47 (KLZ_WT06)
	21:48			20:55			19:46	38	09:07 (KLZ_WT05)	18:40	26	17:16 (KLZ_WT12)	16:50	169	16:13 (KLZ_WT13)	16:40	125	14:35 (KLZ_WT20)
23	05:56			06:43			07:32		07:56 (KLZ_WT17)	08:21		16:48 (KLZ_WT12)	08:14		09:05 (KLZ_WT23)	08:48		10:47 (KLZ_WT06)
	21:47			20:53			19:44	45	09:11 (KLZ_WT05)	18:38	30	17:18 (KLZ_WT12)	16:49	170	16:12 (KLZ_WT13)	16:41	125	14:35 (KLZ_WT20)
24	05:58			06:44			07:33		07:58 (KLZ_WT17)	08:23		16:47 (KLZ_WT12)	08:16		09:06 (KLZ_WT23)	08:48		10:47 (KLZ_WT06)
	21:45			20:50			19:41	48	09:14 (KLZ_WT05)	18:36	32	17:19 (KLZ_WT12)	16:48	172	16:13 (KLZ_WT13)	16:41	125	14:35 (KLZ_WT20)
25	05:59			06:46			07:35		07:59 (KLZ_WT17)	07:24		15:46 (KLZ_WT12)	08:17		09:07 (KLZ_WT23)	08:48		10:48 (KLZ_WT06)
	21:44			20:48			19:39	52	18:41 (EVE_WT01)	17:34	34	16:20 (KLZ_WT12)	16:47	171	16:13 (KLZ_WT13)	16:42	125	14:36 (KLZ_WT20)
26	06:00			06:48			07:36		08:01 (KLZ_WT17)	07:26		15:45 (KLZ_WT12)	08:19		09:07 (KLZ_WT23)	08:49		10:48 (KLZ_WT06)
	21:43			20:46			19:37	63	18:46 (EVE_WT01)	17:32	36	16:21 (KLZ_WT12)	16:46	171	16:13 (KLZ_WT13)	16:43	126	14:37 (KLZ_WT20)
27	06:02			06:49			07:38		08:03 (KLZ_WT17)	07:28		15:43 (KLZ_WT12)	08:20		09:08 (KLZ_WT23)	08:49		10:48 (KLZ_WT06)
	21:41			20:44			19:34	66	18:48 (EVE_WT01)	17:30	38	16:21 (KLZ_WT12)	16:45	171	16:13 (KLZ_WT13)	16:43	126	14:37 (KLZ_WT20)
28	06:03			06:51			07:40		08:04 (KLZ_WT17)	07:30		15:42 (KLZ_WT12)	08:22		08:56 (SAM_WT05)	08:49		10:49 (KLZ_WT06)
	21:40			20:42			19:32	67	18:48 (EVE_WT01)	17:28	48	16:41 (EVE_WT02)	16:44	175	16:12 (KLZ_WT13)	16:44	125	14:37 (KLZ_WT20)
29	06:05			06:52			07:41		08:06 (KLZ_WT17)	07:31		08:01 (SAM_WT11)	08:23		08:55 (SAM_WT05)	08:49		10:49 (KLZ_WT06)
	21:38			20:40			19:30	68	18:50 (EVE_WT01)	17:26	59	16:43 (EVE_WT02)	16:43	175	16:11 (KLZ_WT13)	16:45	126	14:38 (KLZ_WT20)
30	06:06			06:54			07:43		08:07 (KLZ_WT17)	07:33		08:00 (SAM_WT11)	08:25		08:56 (SAM_WT05)	08:50		10:50 (KLZ_WT06)
	21:37			20:38			19:28	66	18:49 (EVE_WT01)	17:25	68	16:45 (EVE_WT02)	16:43	174	16:10 (KLZ_WT13)	16:46	125	14:38 (KLZ_WT20)
31	06:08			06:56						07:35		08:02 (SAM_WT11)				08:50		09:34 (KLZ_WT23)
	21:35			20:35						17:23	68	16:46 (EVE_WT02)				16:47	129	14:38 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		197			26			911			1188			4238			4214	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,71			0,67			0,60			0,63			0,65			0,66	
Total reduction		0,31			0,31			0,25			0,22			0,17			0,14	
Total, real		61			8			230			266			725			609	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:26 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32			07:23		19:11 (KLZ_WT20)	06:20		19:47 (KLZ_WT06)	05:36		
	16:48	124	15:47 (KLZ_WT22)	17:35	97	11:58 (KLZ_WT23)	18:25			20:17	39	19:50 (KLZ_WT20)	21:06	25	20:12 (KLZ_WT06)	21:51		
2	08:50		09:26 (SAM_WT05)	08:23		09:00 (SAM_WT07)	07:30			07:21		19:11 (KLZ_WT20)	06:18		19:47 (KLZ_WT06)	05:36		
	16:49	123	15:47 (KLZ_WT22)	17:36	98	11:58 (KLZ_WT23)	18:26			20:19	42	19:53 (KLZ_WT12)	21:08	24	20:11 (KLZ_WT06)	21:52		
3	08:49		09:27 (SAM_WT05)	08:21		08:59 (SAM_WT07)	07:28			07:19		19:10 (KLZ_WT20)	06:16		19:47 (KLZ_WT06)	05:35		
	16:50	121	15:47 (KLZ_WT22)	17:38	99	11:58 (KLZ_WT23)	18:28			20:20	45	19:55 (KLZ_WT12)	21:09	23	20:10 (KLZ_WT06)	21:53		
4	08:49		09:27 (SAM_WT05)	08:19		09:00 (SAM_WT07)	07:26			07:16		19:10 (KLZ_WT20)	06:15		19:49 (KLZ_WT06)	05:34		
	16:51	120	15:46 (KLZ_WT22)	17:40	98	11:58 (KLZ_WT23)	18:30			20:22	47	19:57 (EVE_WT01)	21:11	21	20:10 (KLZ_WT06)	21:54		
5	08:49		09:28 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24			07:14		19:10 (KLZ_WT20)	06:13		19:50 (KLZ_WT06)	05:33		
	16:52	118	15:46 (KLZ_WT22)	17:42	100	11:58 (KLZ_WT23)	18:32			20:24	48	19:58 (EVE_WT01)	21:13	19	20:09 (KLZ_WT06)	21:55		
6	08:49		09:29 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21			07:12		19:09 (KLZ_WT20)	06:11		19:50 (KLZ_WT06)	05:33		
	16:54	111	15:13 (KLZ_WT21)	17:44	102	11:57 (KLZ_WT23)	18:33			20:25	50	19:59 (EVE_WT01)	21:14	17	20:07 (KLZ_WT06)	21:56		
7	08:48		09:30 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19			07:10		19:09 (KLZ_WT20)	06:09		19:53 (KLZ_WT06)	05:32		
	16:55	111	15:14 (KLZ_WT21)	17:45	104	11:57 (KLZ_WT23)	18:35			20:27	52	20:01 (EVE_WT01)	21:16	13	20:06 (KLZ_WT06)	21:56		
8	08:48		09:31 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17			07:08		07:30 (SWB_WT01_RP)	06:08		19:54 (KLZ_WT06)	05:32		06:00 (KLZ_WT01)
	16:56	110	15:13 (KLZ_WT21)	17:47	104	11:57 (KLZ_WT23)	18:37			20:29	54	20:03 (EVE_WT01)	21:17	10	20:04 (KLZ_WT06)	21:57	2	06:02 (KLZ_WT01)
9	08:47		09:32 (SAM_WT05)	08:11		08:36 (SAM_WT04)	07:15			07:05		07:28 (SWB_WT01_RP)	06:06			05:31		06:00 (KLZ_WT01)
	16:57	110	15:14 (KLZ_WT21)	17:49	105	11:56 (KLZ_WT23)	18:39			20:30	57	20:05 (EVE_WT01)	21:19			21:58	3	06:03 (KLZ_WT01)
10	08:47		09:33 (SAM_WT05)	08:09		08:34 (SAM_WT04)	07:13		07:44 (SAM_WT06)	07:03		19:11 (KLZ_WT20)	06:04			05:31		06:00 (KLZ_WT01)
	16:59	108	15:14 (KLZ_WT21)	17:51	104	11:56 (KLZ_WT23)	18:40	3	07:47 (SAM_WT06)	20:32	55	20:06 (EVE_WT01)	21:21			21:59	4	06:04 (KLZ_WT01)
11	08:46		09:35 (SAM_WT05)	08:08		08:32 (SAM_WT04)	07:10		07:39 (SAM_WT06)	07:01		19:11 (KLZ_WT20)	06:03		06:28 (SAM_WT09)	05:31		05:59 (KLZ_WT01)
	17:00	104	15:14 (KLZ_WT21)	17:53	103	11:55 (KLZ_WT23)	18:42	13	07:52 (SAM_WT06)	20:33	52	20:03 (EVE_WT01)	21:22	1	06:29 (SAM_WT09)	22:00	5	06:04 (KLZ_WT01)
12	08:46		10:49 (KLZ_WT23)	08:06		08:30 (SAM_WT11)	07:08		07:36 (SAM_WT06)	06:59		19:11 (KLZ_WT20)	06:01		06:26 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:02	99	15:14 (KLZ_WT21)	17:54	100	11:54 (KLZ_WT23)	18:44	20	18:19 (KLZ_WT13)	20:35	49	20:01 (EVE_WT01)	21:24	1	06:27 (SAM_WT09)	22:00	6	06:05 (KLZ_WT01)
13	08:45		10:49 (KLZ_WT23)	08:04		08:28 (SAM_WT11)	07:06		07:34 (SAM_WT06)	06:57		19:13 (KLZ_WT20)	05:59		06:25 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:03	99	15:14 (KLZ_WT21)	17:56	97	11:53 (KLZ_WT23)	18:45	25	18:20 (KLZ_WT13)	20:37	41	19:58 (KLZ_WT12)	21:25	1	06:26 (SAM_WT09)	22:01	7	06:06 (KLZ_WT01)
14	08:44		10:49 (KLZ_WT23)	08:02		08:26 (SAM_WT11)	07:04		07:32 (SAM_WT06)	06:55		19:14 (KLZ_WT20)	05:58			05:30		05:59 (KLZ_WT01)
	17:05	99	15:14 (KLZ_WT21)	17:58	91	11:51 (KLZ_WT23)	18:47	31	18:22 (KLZ_WT13)	20:38	31	19:54 (KLZ_WT12)	21:27			22:02	7	06:06 (KLZ_WT01)
15	08:44		10:49 (KLZ_WT23)	08:00		08:24 (SAM_WT11)	07:02		07:31 (SAM_WT06)	06:52		19:16 (KLZ_WT20)	05:56			05:30		05:59 (KLZ_WT01)
	17:06	99	15:14 (KLZ_WT21)	18:00	84	11:50 (KLZ_WT23)	18:49	36	18:24 (KLZ_WT13)	20:40	24	19:40 (KLZ_WT20)	21:28			22:02	8	06:07 (KLZ_WT01)
16	08:43		10:49 (KLZ_WT23)	07:58		08:22 (SAM_WT11)	06:59		07:30 (SAM_WT06)	06:50		07:13 (SAM_WT02)	05:55			05:29		05:59 (KLZ_WT01)
	17:08	98	15:13 (KLZ_WT21)	18:02	76	11:49 (KLZ_WT23)	18:50	40	18:26 (KLZ_WT13)	20:42	21	19:37 (KLZ_WT20)	21:30			22:03	8	06:07 (KLZ_WT01)
17	08:42		10:49 (KLZ_WT23)	07:56		08:20 (SAM_WT11)	06:57		07:29 (SAM_WT06)	06:48		07:11 (SAM_WT02)	05:53			05:29		05:59 (KLZ_WT01)
	17:09	96	15:13 (KLZ_WT21)	18:03	69	11:47 (KLZ_WT23)	18:52	42	18:27 (KLZ_WT13)	20:43	17	19:34 (KLZ_WT20)	21:31			22:03	8	06:07 (KLZ_WT01)
18	08:41		10:49 (KLZ_WT23)	07:55		08:20 (SAM_WT11)	06:55		07:29 (SAM_WT06)	06:46		07:09 (SAM_WT02)	05:52			05:29		05:59 (KLZ_WT01)
	17:11	96	15:13 (KLZ_WT21)	18:05	65	11:45 (KLZ_WT23)	18:54	43	18:28 (KLZ_WT13)	20:45	3	07:12 (SAM_WT02)	21:33			22:03	8	06:07 (KLZ_WT01)
19	08:40		10:49 (KLZ_WT23)	07:53		08:21 (SAM_WT11)	06:53		07:15 (SAM_WT08)	06:44		19:56 (KLZ_WT06)	05:51			05:29		05:59 (KLZ_WT01)
	17:12	94	15:12 (KLZ_WT21)	18:07	58	11:42 (KLZ_WT23)	18:55	42	18:27 (KLZ_WT13)	20:47	10	20:06 (KLZ_WT06)	21:34			22:04	9	06:08 (KLZ_WT01)
20	08:39		10:49 (KLZ_WT23)	07:51		08:22 (SAM_WT11)	06:50		07:13 (SAM_WT08)	06:42		19:53 (KLZ_WT06)	05:49			05:30		05:59 (KLZ_WT01)
	17:14	93	15:11 (KLZ_WT21)	18:09	52	11:40 (KLZ_WT23)	18:57	40	18:25 (KLZ_WT13)	20:48	16	20:09 (KLZ_WT06)	21:35			22:04	9	06:08 (KLZ_WT01)
21	08:38		10:48 (KLZ_WT23)	07:49		08:24 (SAM_WT11)	06:48		07:10 (SAM_WT08)	06:40		19:52 (KLZ_WT06)	05:48			05:30		05:59 (KLZ_WT01)
	17:16	91	15:09 (KLZ_WT21)	18:11	41	11:36 (KLZ_WT23)	18:59	33	07:56 (SAM_WT06)	20:50	18	20:10 (KLZ_WT06)	21:37			22:04	9	06:08 (KLZ_WT01)
22	08:37		10:48 (KLZ_WT23)	07:47		08:27 (SAM_WT11)	06:46		07:08 (SAM_WT08)	06:38		19:50 (KLZ_WT06)	05:47			05:30		06:00 (KLZ_WT01)
	17:17	87	15:08 (KLZ_WT21)	18:12	26	11:31 (KLZ_WT23)	19:00	35	07:56 (SAM_WT06)	20:52	21	20:11 (KLZ_WT06)	21:38			22:05	9	06:09 (KLZ_WT01)
23	08:36		09:10 (SAM_WT07)	07:45			06:44		07:06 (SAM_WT08)	06:36		06:59 (SAM_WT03)	05:45			05:30		06:00 (KLZ_WT01)
	17:19	91	16:48 (KLZ_WT15)	18:14			19:02	44	18:37 (KLZ_WT20)	20:53	25	20:12 (KLZ_WT06)	21:40			22:05	9	06:09 (KLZ_WT01)
24	08:35		09:06 (SAM_WT07)	07:43			06:41		07:03 (SAM_WT08)	06:34		06:57 (SAM_WT03)	05:44			05:30		06:00 (KLZ_WT01)
	17:21	91	16:49 (KLZ_WT15)	18:16			19:04	48	18:38 (KLZ_WT20)	20:55	28	20:13 (KLZ_WT06)	21:41			22:05	9	06:09 (KLZ_WT01)
25	08:34		09:05 (SAM_WT07)	07:41			06:39		07:29 (SAM_WT06)	06:32		06:55 (SAM_WT03)	05:43			05:31		06:01 (KLZ_WT01)
	17:22	86	16:51 (KLZ_WT15)	18:18			19:05	42	18:40 (KLZ_WT20)	20:56	31	20:13 (KLZ_WT06)	21:42			22:05	8	06:09 (KLZ_WT01)
26	08:32		09:04 (SAM_WT07)	07:38			06:37		07:31 (SAM_WT06)	06:30		06:53 (SAM_WT03)	05:42			05:31		06:01 (KLZ_WT01)
	17:24	88	16:53 (KLZ_WT15)	18:19			19:07	42	18:42 (KLZ_WT20)	20:58	32	20:13 (KLZ_WT06)	21:43			22:05	8	06:09 (KLZ_WT01)
27	08:31		09:02 (SAM_WT07)	07:36			06:34		07:32 (SAM_WT06)	06:28		06:53 (SAM_WT03)	05:41			05:32		06:01 (KLZ_WT01)
	17:26	91	11:57 (KLZ_WT23)	18:21			19:09	43	18:44 (KLZ_WT20)	21:00	31	20:13 (KLZ_WT06)	21:45			22:05	8	06:09 (KLZ_WT01)
28	08:30		09:02 (SAM_WT07)	07:34			06:32		07:34 (SAM_WT06)	06:26		19:46 (KLZ_WT06)	05:40			05:32		06:02 (KLZ_WT01)
	17:28	91	11:57 (KLZ_WT23)	18:23			19:10	40	18:45 (KLZ_WT20)	21:01	27	20:13 (KLZ_WT06)	21:46			22:05	7	06:09 (KLZ_WT01)
29	08:28		09:01 (SAM_WT07)				07:30		19:14 (KLZ_WT20)	06:24		19:47 (KLZ_WT06)	05:39			05:33		06:02 (KLZ_WT01)
	17:29	94	11:57 (KLZ_WT23)				20:12	33	19:47 (KLZ_WT20)	21:03	26	20:13 (KLZ_WT06)	21:47			22:05	7	06:09 (KLZ_WT01)
30	08:27		09:01 (SAM_WT07)				07:28		19:13 (KLZ_WT20)	06:22		19:47 (KLZ_WT06)	05:38			05:33		06:03 (KLZ_WT01)
	17:31	95	11:58 (KLZ_WT23)				20:14	36	19:49 (KLZ_WT20)	21:05	26	20:13 (KLZ_WT06)	21:48			22:04	6	06:09 (KLZ_WT01)
31	08:25		09:00 (SAM_WT07)				07:25		19:13 (KLZ_WT20)				05:37					
	17:33	97	11:58 (KLZ_WT23)				20:15	37	19:50 (KLZ_WT20)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		3135			1873			768			1018			155			164	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,63			0,58			0,60			0,60			0,57			0,71	
Total reduction		0,15			0,17			0,22			0,27			0,25			0,31	
Total, real		479			320			171			277			39			50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (KLZ_WT01)	06:09		06:37 (SAM_WT09)	06:57		19:10 (KLZ_WT20)	07:44		08:14 (SAM_WT06)	07:36		08:04 (SAM_WT04)	08:26		09:17 (SAM_WT05)
	22:04	06:10 (KLZ_WT01)	21:34		06:38 (SAM_WT09)	20:33		20:03 (EVE_WT01)	19:25		18:58 (KLZ_WT13)	17:21		11:25 (KLZ_WT23)	16:42		14:56 (KLZ_WT21)
2	05:34	06:04 (KLZ_WT01)	06:10			06:59		19:09 (KLZ_WT20)	07:46		08:17 (SAM_WT06)	07:38		08:06 (SAM_WT04)	08:27		09:17 (SAM_WT05)
	22:04	06:09 (KLZ_WT01)	21:32			20:31		20:03 (EVE_WT01)	19:23		08:32 (SAM_WT06)	17:19		11:26 (KLZ_WT23)	16:41		14:57 (KLZ_WT21)
3	05:35	06:05 (KLZ_WT01)	06:12			07:00		07:26 (SWB_WT01_RP)	07:48		08:19 (SAM_WT06)	07:40		08:07 (SAM_WT04)	08:29		09:16 (SAM_WT05)
	22:04	06:09 (KLZ_WT01)	21:30			20:29		20:03 (EVE_WT01)	19:21		08:28 (SAM_WT06)	17:17		11:26 (KLZ_WT23)	16:41		14:57 (KLZ_WT21)
4	05:36	06:06 (KLZ_WT01)	06:13		20:07 (KLZ_WT06)	07:02		07:27 (SWB_WT01_RP)	07:49			07:42		08:09 (SAM_WT04)	08:30		09:16 (SAM_WT05)
	22:03	06:09 (KLZ_WT01)	21:29		20:11 (KLZ_WT06)	20:27		20:00 (EVE_WT01)	19:19			17:16		11:27 (KLZ_WT23)	16:40		14:58 (KLZ_WT21)
5	05:37	06:06 (KLZ_WT01)	06:15		20:04 (KLZ_WT06)	07:03		19:07 (KLZ_WT20)	07:51			07:43		08:11 (SAM_WT04)	08:31		09:15 (SAM_WT05)
	22:03	06:07 (KLZ_WT01)	21:27		20:15 (KLZ_WT06)	20:24		19:58 (EVE_WT01)	19:16			17:14		11:27 (KLZ_WT23)	16:40		14:59 (KLZ_WT21)
6	05:37		06:16		20:01 (KLZ_WT06)	07:05		19:05 (KLZ_WT20)	07:53			07:45		08:13 (SAM_WT04)	08:33		09:15 (SAM_WT05)
	22:02		21:25		20:16 (KLZ_WT06)	20:22		19:55 (EVE_WT01)	19:14			17:12		11:28 (KLZ_WT23)	16:39		14:59 (KLZ_WT21)
7	05:38		06:18		20:00 (KLZ_WT06)	07:06		19:05 (KLZ_WT20)	07:54			07:47		08:30 (SAM_WT07)	08:34		09:16 (SAM_WT05)
	22:02		21:24		20:18 (KLZ_WT06)	20:20		19:54 (EVE_WT01)	19:12			17:11		11:28 (KLZ_WT23)	16:39		15:32 (KLZ_WT22)
8	05:39		06:20		19:59 (KLZ_WT06)	07:08		19:04 (KLZ_WT20)	07:56			07:49		08:30 (SAM_WT07)	08:35		09:15 (SAM_WT05)
	22:01		21:22		20:19 (KLZ_WT06)	20:18		19:51 (EVE_WT01)	19:10			17:09		11:28 (KLZ_WT23)	16:39		15:34 (KLZ_WT22)
9	05:40		06:21		19:57 (KLZ_WT06)	07:10		19:05 (KLZ_WT20)	07:57			07:50		08:31 (SAM_WT07)	08:36		09:15 (SAM_WT05)
	22:00		21:20		20:19 (KLZ_WT06)	20:15		19:49 (KLZ_WT12)	19:08			17:07		11:29 (KLZ_WT23)	16:38		15:35 (KLZ_WT22)
10	05:41		06:23		19:57 (KLZ_WT06)	07:11		19:04 (KLZ_WT20)	07:59			07:52		08:31 (SAM_WT07)	08:37		09:15 (SAM_WT05)
	22:00		21:18		20:20 (KLZ_WT06)	20:13		19:46 (KLZ_WT12)	19:05			17:06		11:29 (KLZ_WT23)	16:38		15:36 (KLZ_WT22)
11	05:42		06:24		19:55 (KLZ_WT06)	07:13		19:04 (KLZ_WT20)	08:01			07:54		08:32 (SAM_WT07)	08:38		09:16 (SAM_WT05)
	21:59		21:16		20:20 (KLZ_WT06)	20:11		19:43 (KLZ_WT20)	19:03			17:04		11:29 (KLZ_WT23)	16:38		15:37 (KLZ_WT22)
12	05:43		06:26		19:55 (KLZ_WT06)	07:14		19:04 (KLZ_WT20)	08:02			07:56		08:32 (SAM_WT07)	08:39		09:16 (SAM_WT05)
	21:58		21:14		20:21 (KLZ_WT06)	20:09		19:42 (KLZ_WT20)	19:01			17:03		11:29 (KLZ_WT23)	16:38		15:38 (KLZ_WT22)
13	05:44		06:27		19:54 (KLZ_WT06)	07:16		19:05 (KLZ_WT20)	08:04			07:57		08:33 (SAM_WT07)	08:40		09:16 (SAM_WT05)
	21:57		21:12		20:20 (KLZ_WT06)	20:06		19:40 (KLZ_WT20)	18:59			17:01		11:29 (KLZ_WT23)	16:38		15:39 (KLZ_WT22)
14	05:45		06:29		19:54 (KLZ_WT06)	07:17		19:04 (KLZ_WT20)	08:06			07:59		08:34 (SAM_WT07)	08:41		09:17 (SAM_WT05)
	21:56		21:11		20:21 (KLZ_WT06)	20:04		19:37 (KLZ_WT20)	18:57			17:00		11:29 (KLZ_WT23)	16:38		15:40 (KLZ_WT22)
15	05:46		06:30		19:54 (KLZ_WT06)	07:19		08:26 (SAM_WT06)	08:07			08:01		08:35 (SAM_WT07)	08:42		09:17 (SAM_WT05)
	21:56		21:09		20:20 (KLZ_WT06)	20:02		19:35 (KLZ_WT20)	18:55			16:58		11:29 (KLZ_WT23)	16:38		15:40 (KLZ_WT22)
16	05:48		06:32		07:00 (SAM_WT03)	07:21		08:21 (SAM_WT06)	08:09			08:02		08:37 (SAM_WT07)	08:43		09:18 (SAM_WT05)
	21:55		21:07		20:20 (KLZ_WT06)	19:59		19:33 (KLZ_WT20)	18:52			16:57		16:26 (KLZ_WT15)	16:38		15:41 (KLZ_WT22)
17	05:49		06:33		07:00 (SAM_WT03)	07:22		08:19 (SAM_WT06)	08:11			08:04		08:39 (SAM_WT07)	08:44		09:18 (SAM_WT05)
	21:54		21:05		20:19 (KLZ_WT06)	19:57		19:31 (KLZ_WT20)	18:50			16:56		16:25 (KLZ_WT15)	16:38		15:42 (KLZ_WT22)
18	05:50		06:35		07:02 (SAM_WT03)	07:24		08:17 (SAM_WT06)	08:12			08:06		08:40 (SAM_WT07)	08:45		09:18 (SAM_WT05)
	21:52		21:03		20:19 (KLZ_WT06)	19:55		19:28 (KLZ_WT20)	18:48			16:55		16:23 (KLZ_WT15)	16:39		15:42 (KLZ_WT22)
19	05:51		06:37		07:03 (SAM_WT03)	07:25		07:51 (SAM_WT08)	08:14		11:47 (KLZ_WT23)	08:07		08:44 (SAM_WT07)	08:45		09:19 (SAM_WT05)
	21:51		21:01		20:18 (KLZ_WT06)	19:53		19:26 (KLZ_WT20)	18:46		11:57 (KLZ_WT23)	16:53		16:22 (KLZ_WT15)	16:39		15:43 (KLZ_WT22)
20	05:52		06:38		07:05 (SAM_WT03)	07:27		07:52 (SAM_WT08)	08:16		08:57 (SAM_WT11)	08:09		10:23 (KLZ_WT23)	08:46		09:20 (SAM_WT05)
	21:50		20:59		20:18 (KLZ_WT06)	19:50		19:24 (KLZ_WT20)	18:44		12:04 (KLZ_WT23)	16:52		14:43 (KLZ_WT21)	16:39		15:44 (KLZ_WT22)
21	05:54		06:40		19:55 (KLZ_WT06)	07:28		07:53 (SAM_WT08)	08:17		08:54 (SAM_WT11)	08:11		10:24 (KLZ_WT23)	08:47		09:20 (SAM_WT05)
	21:49		20:57		20:16 (KLZ_WT06)	19:48		08:41 (SAM_WT06)	18:42		12:08 (KLZ_WT23)	16:51		14:45 (KLZ_WT21)	16:40		15:44 (KLZ_WT22)
22	05:55		06:41		19:56 (KLZ_WT06)	07:30		07:55 (SAM_WT08)	08:19		08:52 (SAM_WT11)	08:12		10:25 (KLZ_WT23)	08:47		09:21 (SAM_WT05)
	21:48		20:55		20:14 (KLZ_WT06)	19:46		08:42 (SAM_WT06)	18:40		12:11 (KLZ_WT23)	16:50		14:47 (KLZ_WT21)	16:40		15:45 (KLZ_WT22)
23	05:56		06:43		19:57 (KLZ_WT06)	07:32		07:56 (SAM_WT08)	08:21		08:51 (SAM_WT11)	08:14		10:25 (KLZ_WT23)	08:48		09:21 (SAM_WT05)
	21:47		20:52		20:12 (KLZ_WT06)	19:44		19:08 (KLZ_WT13)	18:38		12:14 (KLZ_WT23)	16:49		14:48 (KLZ_WT21)	16:41		15:45 (KLZ_WT22)
24	05:58		06:44		20:00 (KLZ_WT06)	07:33		07:58 (SAM_WT08)	08:23		08:51 (SAM_WT11)	08:16		10:26 (KLZ_WT23)	08:48		09:21 (SAM_WT05)
	21:45		20:50		20:10 (KLZ_WT06)	19:41		19:10 (KLZ_WT13)	18:36		12:16 (KLZ_WT23)	16:48		14:50 (KLZ_WT21)	16:41		15:45 (KLZ_WT22)
25	05:59		06:46		07:12 (SAM_WT02)	07:35		08:11 (SAM_WT06)	07:24		07:51 (SAM_WT11)	08:17		10:27 (KLZ_WT23)	08:48		09:22 (SAM_WT05)
	21:44		20:48		19:31 (KLZ_WT20)	19:39		19:11 (KLZ_WT13)	17:34		11:18 (KLZ_WT23)	16:47		14:51 (KLZ_WT21)	16:42		15:46 (KLZ_WT22)
26	06:00		06:48		07:14 (SAM_WT02)	07:36		08:11 (SAM_WT06)	07:26		07:53 (SAM_WT11)	08:19		10:27 (KLZ_WT23)	08:49		09:22 (SAM_WT05)
	21:43		20:46		19:37 (KLZ_WT20)	19:37		19:10 (KLZ_WT13)	17:32		11:19 (KLZ_WT23)	16:46		14:51 (KLZ_WT21)	16:43		15:46 (KLZ_WT22)
27	06:02		06:49		07:15 (SAM_WT02)	07:38		08:12 (SAM_WT06)	07:28		07:54 (SAM_WT11)	08:20		10:28 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:41		20:44		19:39 (KLZ_WT20)	19:34		19:08 (KLZ_WT13)	17:30		11:20 (KLZ_WT23)	16:45		14:53 (KLZ_WT21)	16:43		15:46 (KLZ_WT22)
28	06:03		06:51		19:17 (KLZ_WT20)	07:40		08:12 (SAM_WT06)	07:30		07:56 (SAM_WT11)	08:22		10:29 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:40		20:42		19:42 (KLZ_WT20)	19:32		19:05 (KLZ_WT13)	17:28		11:21 (KLZ_WT23)	16:44		14:54 (KLZ_WT21)	16:44		15:46 (KLZ_WT22)
29	06:05		06:52		19:15 (KLZ_WT20)	07:41		08:13 (SAM_WT06)	07:31		07:58 (SAM_WT11)	08:23		10:29 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:38		20:40		19:56 (KLZ_WT12)	19:30		19:03 (KLZ_WT13)	17:26		11:23 (KLZ_WT23)	16:43		14:54 (KLZ_WT21)	16:45		15:47 (KLZ_WT22)
30	06:06		06:54		19:13 (KLZ_WT20)	07:43		08:13 (SAM_WT06)	07:33		08:00 (SAM_WT11)	08:25		10:30 (KLZ_WT23)	08:50		09:24 (SAM_WT05)
	21:37		20:38		19:59 (KLZ_WT12)	19:28		19:00 (KLZ_WT13)	17:25		11:24 (KLZ_WT23)	16:43		14:55 (KLZ_WT21)	16:46		15:47 (KLZ_WT22)
31	06:08	06:36 (SAM_WT09)	06:55		19:11 (KLZ_WT20)				07:35		08:02 (SAM_WT04)				08:50		09:25 (SAM_WT05)
	21:35	06:37 (SAM_WT09)	20:35		20:01 (EVE_WT01)				17:23		11:25 (KLZ_WT23)				16:47		15:47 (KLZ_WT22)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		20		644			1274			938			2883			3771	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98		0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,71		0,58			0,61			0,58			0,61			0,65	
Total reduction		0,31		0,27			0,26			0,21			0,16			0,14	
Total, real		6		171			327			194			457			538	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		10:08 (SAM_WT07)	08:24			07:32		17:40 (KLZ_WT20)	07:23		07:45 (SWB_WT01_RP)	06:20			05:36		06:24 (KLZ_WT01)
	16:48	77	15:14 (KLZ_WT21)	17:35			18:25	19	17:59 (KLZ_WT13)	20:17	31	19:30 (KLZ_WT05)	21:06			21:51	79	19:56 (KLZ_WT04)
2	08:50		10:09 (SAM_WT07)	08:22			07:30		17:39 (KLZ_WT20)	07:21		07:43 (SWB_WT01_RP)	06:18			05:36		06:25 (KLZ_WT01)
	16:49	74	15:14 (KLZ_WT21)	17:36			18:26	22	18:01 (KLZ_WT13)	20:19	32	19:31 (KLZ_WT05)	21:08			21:52	78	19:57 (KLZ_WT04)
3	08:49		10:10 (SAM_WT07)	08:21			07:28		17:39 (KLZ_WT20)	07:19		19:01 (KLZ_WT05)	06:16			05:35		06:03 (SAM_WT10)
	16:50	70	15:13 (KLZ_WT21)	17:38			18:28	24	18:03 (EVE_WT02)	20:20	30	19:31 (KLZ_WT05)	21:09			21:53	79	19:57 (KLZ_WT04)
4	08:49		10:10 (SAM_WT07)	08:19		08:57 (SAM_WT06)	07:26		17:38 (KLZ_WT20)	07:16		19:01 (KLZ_WT05)	06:15		06:39 (SAM_WT09)	05:34		06:02 (SAM_WT10)
	16:51	65	15:12 (KLZ_WT21)	17:40	7	09:04 (SAM_WT06)	18:30	27	18:05 (EVE_WT02)	20:22	30	19:31 (KLZ_WT05)	21:11	2	06:41 (SAM_WT09)	21:54	81	19:58 (KLZ_WT04)
5	08:49		10:12 (SAM_WT07)	08:18		08:53 (SAM_WT06)	07:24		17:37 (KLZ_WT20)	07:14		19:01 (KLZ_WT05)	06:13		06:37 (SAM_WT09)	05:33		06:02 (SAM_WT10)
	16:52	60	15:11 (KLZ_WT21)	17:42	15	09:08 (SAM_WT06)	18:32	29	18:06 (EVE_WT02)	20:24	30	19:31 (KLZ_WT05)	21:13	3	06:40 (SAM_WT09)	21:55	81	19:59 (KLZ_WT04)
6	08:49		10:12 (SAM_WT07)	08:16		08:51 (SAM_WT06)	07:21		07:44 (SAM_WT08)	07:12		07:34 (SAM_WT02)	06:11		06:35 (SAM_WT09)	05:33		06:01 (SAM_WT10)
	16:54	52	13:14 (KLZ_WT23)	17:44	19	09:10 (SAM_WT06)	18:33	33	18:07 (KLZ_WT20)	20:25	31	19:30 (KLZ_WT05)	21:14	4	06:39 (SAM_WT09)	21:56	81	19:59 (KLZ_WT04)
7	08:48		09:18 (SAM_WT04)	08:15		08:49 (SAM_WT06)	07:19		07:42 (SAM_WT08)	07:10		07:32 (SAM_WT02)	06:09		06:34 (SAM_WT09)	05:32		06:01 (SAM_WT10)
	16:55	49	13:14 (KLZ_WT23)	17:45	22	09:11 (SAM_WT06)	18:35	35	18:07 (KLZ_WT20)	20:27	32	19:29 (KLZ_WT05)	21:16	4	06:38 (SAM_WT09)	21:56	82	20:00 (KLZ_WT04)
8	08:48		09:17 (SAM_WT04)	08:13		08:48 (SAM_WT06)	07:17		07:40 (SAM_WT08)	07:08		07:30 (SAM_WT02)	06:08			05:32		06:00 (SAM_WT10)
	16:56	48	13:14 (KLZ_WT23)	17:47	25	09:13 (SAM_WT06)	18:37	38	18:08 (KLZ_WT06)	20:29	31	19:28 (KLZ_WT05)	21:17			21:57	86	20:00 (KLZ_WT04)
9	08:47		09:17 (SAM_WT04)	08:11		08:47 (SAM_WT06)	07:15		07:37 (SAM_WT08)	07:05		07:28 (SAM_WT02)	06:06			05:31		06:00 (SAM_WT10)
	16:57	43	13:14 (KLZ_WT23)	17:49	27	09:14 (SAM_WT06)	18:38	40	18:08 (KLZ_WT06)	20:30	32	19:28 (KLZ_WT05)	21:19			21:58	89	20:00 (KLZ_WT04)
10	08:47		09:16 (SAM_WT04)	08:09		08:46 (SAM_WT06)	07:13		07:35 (SAM_WT08)	07:03		19:03 (KLZ_WT05)	06:04			05:31		06:00 (SAM_WT10)
	16:59	35	13:13 (KLZ_WT23)	17:51	29	09:15 (SAM_WT06)	18:40	42	18:09 (KLZ_WT06)	20:32	23	19:26 (KLZ_WT05)	21:21			21:59	89	20:01 (KLZ_WT04)
11	08:46		09:15 (SAM_WT04)	08:08		08:45 (SAM_WT06)	07:10		07:34 (SAM_WT08)	07:01		19:04 (KLZ_WT05)	06:03			05:30		05:59 (SAM_WT10)
	17:00	34	13:12 (KLZ_WT23)	17:53	31	09:16 (SAM_WT06)	18:42	44	18:17 (KLZ_WT12)	20:33	20	19:24 (KLZ_WT05)	21:22			22:00	92	20:01 (KLZ_WT04)
12	08:46		09:15 (SAM_WT04)	08:06		08:45 (SAM_WT06)	07:08		07:36 (SAM_WT08)	06:59		19:06 (KLZ_WT05)	06:01			05:30		05:59 (SAM_WT10)
	17:02	34	13:12 (KLZ_WT23)	17:54	31	09:16 (SAM_WT06)	18:44	42	18:19 (KLZ_WT12)	20:35	16	19:22 (KLZ_WT05)	21:24			22:00	90	20:01 (KLZ_WT04)
13	08:45		09:14 (SAM_WT04)	08:04		08:44 (SAM_WT06)	07:06		17:40 (KLZ_WT20)	06:57		07:19 (SAM_WT03)	05:59			05:30		05:59 (SAM_WT10)
	17:03	32	13:11 (KLZ_WT23)	17:56	33	09:17 (SAM_WT06)	18:45	37	18:20 (KLZ_WT12)	20:37	14	19:20 (KLZ_WT05)	21:25			22:01	91	20:02 (KLZ_WT04)
14	08:44		09:13 (SAM_WT04)	08:02		08:44 (SAM_WT06)	07:04		17:42 (KLZ_WT20)	06:55		07:17 (SAM_WT03)	05:58		06:29 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:05	30	13:09 (KLZ_WT23)	17:58	33	09:17 (SAM_WT06)	18:47	37	18:22 (KLZ_WT12)	20:38	5	07:22 (SAM_WT03)	21:27	19	19:30 (KLZ_WT04)	22:02	91	20:02 (KLZ_WT04)
15	08:44		09:12 (SAM_WT04)	08:00		08:43 (SAM_WT06)	07:02		17:45 (KLZ_WT20)	06:52		07:15 (SAM_WT03)	05:56		06:27 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:06	27	13:07 (KLZ_WT23)	18:00	34	09:17 (SAM_WT06)	18:49	35	18:24 (KLZ_WT12)	20:40	7	07:22 (SAM_WT03)	21:28	33	19:35 (KLZ_WT04)	22:02	94	20:03 (KLZ_WT04)
16	08:43		09:11 (SAM_WT04)	07:58		08:43 (SAM_WT06)	06:59		17:53 (KLZ_WT06)	06:50		07:13 (SAM_WT03)	05:55		06:26 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:08	15	09:26 (SAM_WT11)	18:02	34	09:17 (SAM_WT06)	18:50	28	18:26 (KLZ_WT12)	20:42	8	07:21 (SAM_WT03)	21:30	40	19:38 (KLZ_WT04)	22:03	95	20:03 (KLZ_WT04)
17	08:42		09:10 (SAM_WT04)	07:56		08:43 (SAM_WT06)	06:57		17:55 (KLZ_WT06)	06:48		07:12 (SAM_WT03)	05:53		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:09	17	09:27 (SAM_WT11)	18:03	34	09:17 (SAM_WT06)	18:52	21	18:25 (KLZ_WT12)	20:43	8	07:20 (SAM_WT03)	21:31	47	19:39 (KLZ_WT04)	22:03	94	20:03 (KLZ_WT04)
18	08:41		09:09 (SAM_WT04)	07:55		08:43 (SAM_WT06)	06:55		18:13 (KLZ_WT12)	06:46		07:13 (SAM_WT03)	05:52		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:11	18	09:27 (SAM_WT11)	18:05	34	09:17 (SAM_WT06)	18:54	11	18:24 (KLZ_WT12)	20:45	5	07:18 (SAM_WT03)	21:33	52	19:41 (KLZ_WT04)	22:03	95	20:04 (KLZ_WT04)
19	08:40		09:08 (SAM_WT11)	07:53		08:44 (SAM_WT06)	06:53		18:15 (KLZ_WT12)	06:44			05:51		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:12	19	09:27 (SAM_WT11)	18:07	32	09:16 (SAM_WT06)	18:55	9	18:31 (EVE_WT01)	20:47			21:34	56	19:43 (KLZ_WT04)	22:04	96	20:04 (KLZ_WT04)
20	08:39		09:07 (SAM_WT11)	07:51		08:44 (SAM_WT06)	06:50		18:29 (EVE_WT01)	06:42			05:49		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:14	21	09:28 (SAM_WT11)	18:09	32	09:16 (SAM_WT06)	18:57	3	18:32 (EVE_WT01)	20:48			21:35	60	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
21	08:38		09:05 (SAM_WT11)	07:49		08:45 (SAM_WT06)	06:48		18:27 (EVE_WT01)	06:40			05:48		06:22 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:16	22	09:27 (SAM_WT11)	18:11	30	09:15 (SAM_WT06)	18:59	6	18:33 (EVE_WT01)	20:50			21:37	63	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
22	08:37		09:05 (SAM_WT11)	07:47		08:45 (SAM_WT06)	06:46		18:27 (EVE_WT01)	06:38		07:01 (SAM_WT01)	05:47		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:17	23	09:28 (SAM_WT11)	18:12	29	09:14 (SAM_WT06)	19:00	8	18:35 (EVE_WT01)	20:52	2	07:03 (SAM_WT01)	21:38	66	19:47 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
23	08:36		09:06 (SAM_WT11)	07:45		08:46 (SAM_WT06)	06:43		18:28 (EVE_WT01)	06:36		06:59 (SAM_WT01)	05:45		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:19	22	09:28 (SAM_WT11)	18:14	27	09:13 (SAM_WT06)	19:02	9	18:37 (EVE_WT01)	20:53	2	07:01 (SAM_WT01)	21:40	68	19:48 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
24	08:35		09:06 (SAM_WT11)	07:43		08:48 (SAM_WT06)	06:41		18:28 (EVE_WT01)	06:34		06:57 (SAM_WT01)	05:44		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:21	21	09:27 (SAM_WT11)	18:16	23	09:11 (SAM_WT06)	19:04	10	18:38 (EVE_WT01)	20:55	2	06:59 (SAM_WT01)	21:41	71	19:49 (KLZ_WT04)	22:05	96	20:05 (KLZ_WT04)
25	08:34		09:07 (SAM_WT11)	07:40		08:49 (SAM_WT06)	06:39		18:30 (EVE_WT01)	06:32			05:43		06:22 (KLZ_WT01)	05:31		06:00 (SAM_WT10)
	17:22	20	09:27 (SAM_WT11)	18:18	25	17:52 (KLZ_WT20)	19:05	6	18:36 (EVE_WT01)	20:56			21:42	72	19:50 (KLZ_WT04)	22:05	95	20:05 (KLZ_WT04)
26	08:32		09:09 (SAM_WT11)	07:38		08:51 (SAM_WT06)	06:37		18:15 (KLZ_WT05)	06:30			05:42		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:24	18	09:27 (SAM_WT11)	18:19	24	17:54 (KLZ_WT13)	19:07	7	18:22 (KLZ_WT05)	20:58			21:43	74	19:51 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
27	08:31		09:09 (SAM_WT11)	07:36		08:55 (SAM_WT06)	06:34		18:11 (KLZ_WT05)	06:28			05:41		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:26	16	09:25 (SAM_WT11)	18:21	21	17:56 (KLZ_WT13)	19:09	14	18:25 (KLZ_WT05)	21:00			21:45	75	19:52 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
28	08:30		09:11 (SAM_WT11)	07:34		17:41 (KLZ_WT20)	06:32		18:08 (KLZ_WT05)	06:26			05:40		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:27	14	09:25 (SAM_WT11)	18:23	16	17:57 (KLZ_WT13)	19:10	18	18:26 (KLZ_WT05)	21:01			21:46	75	19:52 (KLZ_WT04)	22:05	93	20:06 (KLZ_WT04)
29	08:28		09:13 (SAM_WT11)				07:30		19:06 (KLZ_WT05)	06:24			05:39		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:29	9	09:22 (SAM_WT11)				20:12	22	19:28 (KLZ_WT05)	21:03			21:47	77	19:53 (KLZ_WT04)	22:05	91	20:05 (KLZ_WT04)
30	08:27						07:28		19:05 (KLZ_WT05)	06:22			05:38		06:23 (KLZ_WT01)	05:33		06:03 (SAM_WT10)
	17:31						20:14	25	19:30 (KLZ_WT05)	21:05			21:48	78	19:55 (KLZ_WT04)	22:04	90	20:06 (KLZ_WT04)
31	08:25						07:25		07:48 (SWB_WT01_RP)				05:37		06:24 (KLZ_WT01)			
	17:33						20:15	29	19:31 (KLZ_WT05)				21:49	77	19:55 (KLZ_WT04)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		985			667			730			391			1116			2704	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,61			0,56			0,64			0,63			0,59			0,59	
Total reduction		0,15			0,16			0,24			0,28			0,26			0,26	
Total, real		147			110			173			111			294			690	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (SAM_WT10)	06:09			06:57		19:04 (KLZ_WT05)	07:44		18:19 (KLZ_WT20)	07:36		08:16 (SAM_WT06)	08:26		08:57 (SAM_WT04)
	22:04	92 20:06 (KLZ_WT04)	21:34			20:33	20	19:24 (KLZ_WT05)	19:25	35	18:58 (KLZ_WT12)	17:21	28	08:44 (SAM_WT06)	16:42	34	12:54 (KLZ_WT23)
2	05:34	06:04 (SAM_WT10)	06:10			06:59		19:01 (KLZ_WT05)	07:46		08:14 (SAM_WT08)	07:38		08:17 (SAM_WT06)	08:27		08:59 (SAM_WT04)
	22:04	90 20:05 (KLZ_WT04)	21:32			20:31	23	19:24 (KLZ_WT05)	19:23	43	18:56 (KLZ_WT12)	17:19	27	08:44 (SAM_WT06)	16:41	35	12:56 (KLZ_WT23)
3	05:35	06:05 (SAM_WT10)	06:12			07:00		07:26 (SAM_WT02)	07:48		08:12 (SAM_WT08)	07:40		08:17 (SAM_WT06)	08:29		09:00 (SAM_WT04)
	22:04	90 20:06 (KLZ_WT04)	21:30			20:29	32	19:26 (KLZ_WT05)	19:21	43	18:54 (KLZ_WT12)	17:17	25	08:42 (SAM_WT06)	16:41	43	12:57 (KLZ_WT23)
4	05:36	06:06 (SAM_WT10)	06:13			07:02		07:27 (SAM_WT02)	07:49		08:14 (SAM_WT08)	07:42		08:19 (SAM_WT06)	08:30		09:02 (SAM_WT04)
	22:03	88 20:06 (KLZ_WT04)	21:29			20:27	31	19:25 (KLZ_WT05)	19:19	41	18:46 (KLZ_WT06)	17:16	22	08:41 (SAM_WT06)	16:40	47	12:59 (KLZ_WT23)
5	05:37	06:06 (SAM_WT10)	06:15			07:03		07:29 (SAM_WT02)	07:51		08:16 (SAM_WT08)	07:43		08:21 (SAM_WT06)	08:31		09:03 (SAM_WT04)
	22:03	83 20:05 (KLZ_WT04)	21:27			20:24	32	19:26 (KLZ_WT05)	19:16	39	18:45 (KLZ_WT06)	17:14	18	08:39 (SAM_WT06)	16:40	49	12:59 (KLZ_WT23)
6	05:37	06:07 (SAM_WT10)	06:16		06:44 (SAM_WT09)	07:05		07:30 (SAM_WT02)	07:52		08:17 (SAM_WT08)	07:45		08:23 (SAM_WT06)	08:33		09:59 (SAM_WT07)
	22:02	82 20:05 (KLZ_WT04)	21:25	4	06:48 (SAM_WT09)	20:22	31	19:26 (KLZ_WT05)	19:14	36	18:43 (KLZ_WT06)	17:12	14	08:37 (SAM_WT06)	16:39	51	13:00 (KLZ_WT23)
7	05:38	06:08 (SAM_WT10)	06:18		06:46 (SAM_WT09)	07:06		18:57 (KLZ_WT05)	07:54		08:19 (SAM_WT08)	07:47		08:27 (SAM_WT06)	08:34		09:59 (SAM_WT07)
	22:02	82 20:05 (KLZ_WT04)	21:24	3	06:49 (SAM_WT09)	20:20	29	19:26 (KLZ_WT05)	19:12	34	18:43 (KLZ_WT20)	17:11	6	08:33 (SAM_WT06)	16:39	59	14:57 (KLZ_WT21)
8	05:39	06:09 (SAM_WT10)	06:19		06:47 (SAM_WT09)	07:08		18:55 (KLZ_WT05)	07:56		08:21 (SAM_WT08)	07:49			08:35		09:59 (SAM_WT07)
	22:01	81 20:05 (KLZ_WT04)	21:22	3	06:50 (SAM_WT09)	20:18	30	19:25 (KLZ_WT05)	19:10	32	18:43 (KLZ_WT20)	17:09			16:39	64	15:00 (KLZ_WT21)
9	05:40	06:10 (SAM_WT10)	06:21		06:48 (SAM_WT09)	07:10		18:56 (KLZ_WT05)	07:57		18:12 (KLZ_WT20)	07:50			08:36		09:58 (SAM_WT07)
	22:00	80 20:05 (KLZ_WT04)	21:20	1	06:49 (SAM_WT09)	20:15	29	19:25 (KLZ_WT05)	19:08	28	18:40 (EVE_WT02)	17:07			16:38	69	15:01 (KLZ_WT21)
10	05:41	06:11 (SAM_WT10)	06:23			07:11		07:36 (SWB_WT01_RP)	07:59		18:13 (KLZ_WT20)	07:52			08:37		09:58 (SAM_WT07)
	22:00	79 20:05 (KLZ_WT04)	21:18			20:13	32	19:24 (KLZ_WT05)	19:05	25	18:38 (EVE_WT02)	17:06			16:38	74	15:03 (KLZ_WT21)
11	05:42	06:32 (KLZ_WT01)	06:24			07:13		07:38 (SWB_WT01_RP)	08:01		18:13 (KLZ_WT20)	07:54			08:38		09:58 (SAM_WT07)
	21:59	78 20:04 (KLZ_WT04)	21:16			20:11	31	19:23 (KLZ_WT05)	19:03	23	18:36 (KLZ_WT13)	17:04			16:38	77	15:04 (KLZ_WT21)
12	05:43	06:32 (KLZ_WT01)	06:26			07:14		07:39 (SWB_WT01_RP)	08:02		18:13 (KLZ_WT20)	07:56			08:39		09:58 (SAM_WT07)
	21:58	78 20:04 (KLZ_WT04)	21:14			20:09	29	19:22 (KLZ_WT05)	19:01	20	18:33 (KLZ_WT13)	17:03			16:38	79	15:05 (KLZ_WT21)
13	05:44	06:32 (KLZ_WT01)	06:27			07:16		07:41 (SWB_WT01_RP)	08:04		18:14 (KLZ_WT20)	07:57		08:45 (SAM_WT11)	08:40		09:58 (SAM_WT07)
	21:57	78 20:04 (KLZ_WT04)	21:12			20:06	26	19:21 (KLZ_WT05)	18:59	17	18:31 (KLZ_WT13)	17:01	9	08:54 (SAM_WT11)	16:38	82	15:06 (KLZ_WT21)
14	05:45	06:32 (KLZ_WT01)	06:29			07:17		18:56 (KLZ_WT05)	08:06		18:15 (KLZ_WT20)	07:59		08:43 (SAM_WT11)	08:41		09:59 (SAM_WT07)
	21:56	77 20:03 (KLZ_WT04)	21:11			20:04	23	19:19 (KLZ_WT05)	18:57	14	18:29 (KLZ_WT13)	17:00	14	08:57 (SAM_WT11)	16:38	83	15:07 (KLZ_WT21)
15	05:46	06:32 (KLZ_WT01)	06:30			07:19		18:58 (KLZ_WT05)	08:07		09:25 (SAM_WT06)	08:01		08:42 (SAM_WT11)	08:42		09:59 (SAM_WT07)
	21:56	76 20:02 (KLZ_WT04)	21:09			20:02	19	19:17 (KLZ_WT05)	18:55	23	18:27 (KLZ_WT13)	16:58	16	08:58 (SAM_WT11)	16:38	84	15:07 (KLZ_WT21)
16	05:47	06:32 (KLZ_WT01)	06:32			07:21		18:59 (KLZ_WT05)	08:09		09:22 (SAM_WT06)	08:02		08:42 (SAM_WT11)	08:43		09:59 (SAM_WT07)
	21:55	75 20:02 (KLZ_WT04)	21:07			19:59	15	19:14 (KLZ_WT05)	18:52	23	18:24 (KLZ_WT20)	16:57	18	09:00 (SAM_WT11)	16:38	87	15:08 (KLZ_WT21)
17	05:49	06:31 (KLZ_WT01)	06:33			07:22		19:02 (KLZ_WT05)	08:11		09:20 (SAM_WT06)	08:04		08:41 (SAM_WT11)	08:44		10:00 (SAM_WT07)
	21:54	75 20:01 (KLZ_WT04)	21:05			19:57	9	19:11 (KLZ_WT05)	18:50	23	18:22 (KLZ_WT20)	16:56	20	09:01 (SAM_WT11)	16:38	86	15:09 (KLZ_WT21)
18	05:50	06:31 (KLZ_WT01)	06:35			07:24		19:18 (EVE_WT01)	08:12		09:18 (SAM_WT06)	08:06		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:52	73 20:00 (KLZ_WT04)	21:03			19:55	5	19:23 (EVE_WT01)	18:48	25	09:43 (SAM_WT06)	16:55	21	09:01 (SAM_WT11)	16:39	88	15:09 (KLZ_WT21)
19	05:51	06:31 (KLZ_WT01)	06:37		07:03 (SAM_WT01)	07:25		19:16 (EVE_WT01)	08:14		09:17 (SAM_WT06)	08:07		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:51	71 19:59 (KLZ_WT04)	21:01	2	07:05 (SAM_WT01)	19:53	10	19:26 (EVE_WT01)	18:46	28	09:45 (SAM_WT06)	16:53	22	09:02 (SAM_WT11)	16:39	89	15:10 (KLZ_WT21)
20	05:52	06:31 (KLZ_WT01)	06:38		07:05 (SAM_WT01)	07:27		19:15 (EVE_WT01)	08:16		09:16 (SAM_WT06)	08:09		08:40 (SAM_WT11)	08:46		10:01 (SAM_WT07)
	21:50	70 19:58 (KLZ_WT04)	20:59	2	07:07 (SAM_WT01)	19:50	9	19:24 (EVE_WT01)	18:44	30	09:46 (SAM_WT06)	16:52	23	09:03 (SAM_WT11)	16:39	88	15:11 (KLZ_WT21)
21	05:54	06:32 (KLZ_WT01)	06:40		07:06 (SAM_WT01)	07:28		19:13 (EVE_WT01)	08:17		09:15 (SAM_WT06)	08:11		08:41 (SAM_WT11)	08:47		10:01 (SAM_WT07)
	21:49	68 19:58 (KLZ_WT04)	20:57	1	07:07 (SAM_WT01)	19:48	8	19:21 (EVE_WT01)	18:42	31	09:46 (SAM_WT06)	16:51	22	09:03 (SAM_WT11)	16:40	88	15:11 (KLZ_WT21)
22	05:55	06:32 (KLZ_WT01)	06:41			07:30		19:13 (EVE_WT01)	08:19		09:14 (SAM_WT06)	08:12		08:43 (SAM_WT11)	08:47		10:02 (SAM_WT07)
	21:48	65 19:57 (KLZ_WT04)	20:55			19:46	7	19:20 (EVE_WT01)	18:40	32	09:46 (SAM_WT06)	16:50	21	09:04 (SAM_WT11)	16:40	88	15:12 (KLZ_WT21)
23	05:56	06:32 (KLZ_WT01)	06:43			07:32		19:12 (EVE_WT01)	08:21		09:14 (SAM_WT06)	08:14		08:44 (SAM_WT11)	08:48		10:02 (SAM_WT07)
	21:47	62 19:55 (KLZ_WT04)	20:52			19:43	5	19:17 (EVE_WT01)	18:38	33	09:47 (SAM_WT06)	16:49	19	09:03 (SAM_WT11)	16:41	88	15:12 (KLZ_WT21)
24	05:58	06:33 (KLZ_WT01)	06:44			07:33		18:59 (KLZ_WT12)	08:23		09:14 (SAM_WT06)	08:16		08:46 (SAM_WT04)	08:48		10:02 (SAM_WT07)
	21:45	58 19:54 (KLZ_WT04)	20:50			19:41	7	19:15 (EVE_WT01)	18:36	33	09:47 (SAM_WT06)	16:48	18	09:04 (SAM_WT11)	16:41	88	15:12 (KLZ_WT21)
25	05:59	06:34 (KLZ_WT01)	06:46		07:16 (SAM_WT03)	07:35		18:56 (KLZ_WT12)	07:24		08:14 (SAM_WT06)	08:17		08:48 (SAM_WT04)	08:48		10:04 (SAM_WT07)
	21:44	55 19:53 (KLZ_WT04)	20:48	5	07:21 (SAM_WT03)	19:39	10	19:06 (KLZ_WT12)	17:34	33	08:47 (SAM_WT06)	16:47	17	09:05 (SAM_WT11)	16:42	88	15:13 (KLZ_WT21)
26	06:00	06:34 (KLZ_WT01)	06:48		07:14 (SAM_WT03)	07:36		18:39 (KLZ_WT06)	07:26		08:14 (SAM_WT06)	08:19		08:49 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:43	51 19:51 (KLZ_WT04)	20:46	9	07:23 (SAM_WT03)	19:37	18	19:07 (KLZ_WT12)	17:32	33	08:47 (SAM_WT06)	16:46	15	09:04 (SAM_WT11)	16:43	86	15:13 (KLZ_WT21)
27	06:02	06:35 (KLZ_WT01)	06:49		07:15 (SAM_WT03)	07:38		18:36 (KLZ_WT06)	07:28		08:13 (SAM_WT06)	08:20		08:51 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:41	45 19:49 (KLZ_WT04)	20:44	8	07:23 (SAM_WT03)	19:34	26	19:08 (KLZ_WT12)	17:30	33	08:46 (SAM_WT06)	16:45	27	12:46 (KLZ_WT23)	16:43	87	15:13 (KLZ_WT21)
28	06:03	06:37 (KLZ_WT01)	06:51		07:17 (SAM_WT03)	07:40		18:27 (KLZ_WT20)	07:30		08:13 (SAM_WT06)	08:22		08:53 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:40	37 19:47 (KLZ_WT04)	20:42	6	07:23 (SAM_WT03)	19:32	33	19:05 (KLZ_WT12)	17:28	33	08:46 (SAM_WT06)	16:44	30	12:49 (KLZ_WT23)	16:44	84	15:13 (KLZ_WT21)
29	06:05	06:38 (KLZ_WT01)	06:52		07:18 (SAM_WT03)	07:41		18:23 (KLZ_WT20)	07:31		08:14 (SAM_WT06)	08:23		08:54 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:38	28 19:44 (KLZ_WT04)	20:40	5	07:23 (SAM_WT03)	19:30	36	19:03 (KLZ_WT12)	17:26	32	08:46 (SAM_WT06)	16:43	33	12:51 (KLZ_WT23)	16:45	83	15:13 (KLZ_WT21)
30	06:06	19:28 (KLZ_WT04)	06:54		07:20 (SAM_WT03)	07:43		18:20 (KLZ_WT20)	07:33		08:14 (SAM_WT06)	08:25		08:56 (SAM_WT04)	08:50		10:06 (SAM_WT07)
	21:37	10 19:38 (KLZ_WT04)	20:38	14	19:21 (KLZ_WT05)	19:28	37	19:00 (KLZ_WT12)	17:25	32	08:46 (SAM_WT06)	16:43	34	12:53 (KLZ_WT23)	16:46	82	15:14 (KLZ_WT21)
31	06:07		06:55		19:05 (KLZ_WT05)				07:35		08:15 (SAM_WT06)				08:50		10:07 (SAM_WT07)
	21:35		20:35	17	19:22 (KLZ_WT05)				17:23	30	08:45 (SAM_WT06)				16:47	79	15:14 (KLZ_WT21)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		2077		80			652			937			519			2309	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98		0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,59		0,64			0,63			0,60			0,56			0,66	
Total reduction		0,26		0,29			0,27			0,21			0,15			0,14	
Total, real		534		23			174			198			76			334	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:47 (SAM_WT07)	08:24		08:50 (SAM_WT11)	07:32		08:10 (SAM_WT06)	07:23		19:14 (KLZ_WT20)	06:20		06:44 (SAM_WT01)	05:36		
	16:48	144	16:10 (KLZ_WT22)	17:35	79	14:07 (KLZ_WT23)	18:25	28	08:38 (SAM_WT06)	20:17	33	19:51 (EVE_WT01)	21:06	2	06:46 (SAM_WT01)	21:50		
2	08:50		09:48 (SAM_WT07)	08:22		08:48 (SAM_WT11)	07:30		08:09 (SAM_WT06)	07:21		19:16 (KLZ_WT20)	06:18		06:42 (SAM_WT01)	05:36		
	16:49	145	16:11 (KLZ_WT22)	17:36	79	14:06 (KLZ_WT23)	18:26	31	08:40 (SAM_WT06)	20:19	31	19:53 (EVE_WT01)	21:08	8	20:26 (KLZ_WT05)	21:52		
3	08:49		09:49 (SAM_WT07)	08:21		08:48 (SAM_WT11)	07:28		08:08 (SAM_WT06)	07:19		19:19 (KLZ_WT20)	06:16		06:40 (SAM_WT01)	05:35		
	16:50	145	16:12 (KLZ_WT22)	17:38	76	14:05 (KLZ_WT23)	18:28	33	08:41 (SAM_WT06)	20:20	28	19:55 (EVE_WT01)	21:09	14	20:29 (KLZ_WT05)	21:53		
4	08:49		09:48 (SAM_WT07)	08:19		08:49 (SAM_WT11)	07:26		08:07 (SAM_WT06)	07:16		19:36 (KLZ_WT06)	06:15		20:16 (KLZ_WT05)	05:34		
	16:51	144	16:11 (KLZ_WT22)	17:40	74	14:05 (KLZ_WT23)	18:30	35	08:42 (SAM_WT06)	20:22	20	19:56 (EVE_WT01)	21:11	15	20:31 (KLZ_WT05)	21:54		
5	08:49		09:49 (SAM_WT07)	08:18		08:49 (SAM_WT11)	07:24		08:05 (SAM_WT06)	07:14		19:36 (KLZ_WT06)	06:13		20:14 (KLZ_WT05)	05:33		
	16:52	146	16:12 (KLZ_WT22)	17:42	70	14:03 (KLZ_WT23)	18:32	37	08:42 (SAM_WT06)	20:24	18	19:54 (EVE_WT01)	21:13	18	20:32 (KLZ_WT05)	21:55		
6	08:49		09:49 (SAM_WT07)	08:16		08:49 (SAM_WT11)	07:21		08:04 (SAM_WT06)	07:12		07:34 (SWB_WT01_RP)	06:11		20:13 (KLZ_WT05)	05:33		
	16:54	146	16:12 (KLZ_WT22)	17:44	66	14:02 (KLZ_WT23)	18:33	38	08:42 (SAM_WT06)	20:25	19	19:52 (KLZ_WT06)	21:14	20	20:33 (KLZ_WT05)	21:56		
7	08:48		09:50 (SAM_WT07)	08:14		08:50 (SAM_WT11)	07:19		08:04 (SAM_WT06)	07:10		07:32 (SWB_WT01_RP)	06:09		20:12 (KLZ_WT05)	05:32		
	16:55	145	16:12 (KLZ_WT22)	17:45	60	14:00 (KLZ_WT23)	18:35	39	08:43 (SAM_WT06)	20:27	18	19:51 (KLZ_WT06)	21:16	22	20:34 (KLZ_WT05)	21:56		
8	08:48		09:50 (SAM_WT07)	08:13		08:52 (SAM_WT11)	07:17		08:03 (SAM_WT06)	07:08		07:30 (SWB_WT01_RP)	06:08		20:11 (KLZ_WT05)	05:32		
	16:56	145	16:12 (KLZ_WT22)	17:47	53	13:58 (KLZ_WT23)	18:37	40	08:43 (SAM_WT06)	20:29	20	19:51 (KLZ_WT06)	21:17	23	20:34 (KLZ_WT05)	21:57		
9	08:47		09:51 (SAM_WT07)	08:11		08:53 (SAM_WT11)	07:15		08:02 (SAM_WT06)	07:05		07:28 (SWB_WT01_RP)	06:06		20:11 (KLZ_WT05)	05:31		
	16:57	145	16:13 (KLZ_WT22)	17:49	46	13:56 (KLZ_WT23)	18:38	40	08:42 (SAM_WT06)	20:30	18	19:50 (KLZ_WT06)	21:19	24	20:35 (KLZ_WT05)	21:58		
10	08:47		09:51 (SAM_WT07)	08:09		08:55 (SAM_WT11)	07:13		08:02 (SAM_WT06)	07:03		19:38 (KLZ_WT06)	06:04		20:10 (KLZ_WT05)	05:31		
	16:59	146	16:13 (KLZ_WT22)	17:51	34	13:52 (KLZ_WT23)	18:40	40	08:42 (SAM_WT06)	20:32	10	19:48 (KLZ_WT06)	21:21	25	20:35 (KLZ_WT05)	21:59		
11	08:46		09:51 (SAM_WT07)	08:08		08:58 (SAM_WT11)	07:10		08:02 (SAM_WT06)	07:01		19:39 (KLZ_WT06)	06:03		20:11 (KLZ_WT05)	05:30		
	17:00	145	16:12 (KLZ_WT22)	17:53	6	09:04 (SAM_WT11)	18:42	42	18:17 (KLZ_WT13)	20:33	5	19:44 (KLZ_WT06)	21:22	25	20:36 (KLZ_WT05)	22:00		
12	08:46		09:51 (SAM_WT07)	08:06			07:08		08:02 (SAM_WT06)	06:59			06:01		20:10 (KLZ_WT05)	05:30		
	17:02	145	16:12 (KLZ_WT22)	17:54			18:44	44	18:19 (KLZ_WT13)	20:35			21:24	26	20:36 (KLZ_WT05)	22:00		
13	08:45		09:53 (SAM_WT07)	08:04			07:06		08:02 (SAM_WT06)	06:57			05:59		06:25 (SAM_WT09)	05:30		
	17:03	143	16:12 (KLZ_WT22)	17:56			18:45	44	18:20 (KLZ_WT13)	20:37			21:25	26	20:36 (KLZ_WT05)	22:01		
14	08:44		09:53 (SAM_WT07)	08:02			07:04		08:02 (SAM_WT06)	06:55			05:58		06:23 (SAM_WT09)	05:30		
	17:05	143	16:11 (KLZ_WT22)	17:58			18:47	46	18:22 (KLZ_WT13)	20:38			21:27	28	20:36 (KLZ_WT05)	22:02		
15	08:44		09:53 (SAM_WT07)	08:00			07:02		07:24 (SAM_WT08)	06:52		07:15 (SAM_WT02)	05:56		06:22 (SAM_WT09)	05:30		
	17:06	141	16:10 (KLZ_WT22)	18:00			18:49	47	18:24 (KLZ_WT13)	20:40	2	07:17 (SAM_WT02)	21:28	28	20:36 (KLZ_WT05)	22:02		
16	08:43		09:54 (SAM_WT07)	07:58			06:59		07:22 (SAM_WT08)	06:50		07:13 (SAM_WT02)	05:55		06:21 (SAM_WT09)	05:29		
	17:08	138	16:08 (KLZ_WT21)	18:02			18:50	47	18:24 (KLZ_WT13)	20:42	4	07:17 (SAM_WT02)	21:30	29	20:36 (KLZ_WT05)	22:03		
17	08:42		09:55 (SAM_WT07)	07:56			06:57		07:19 (SAM_WT08)	06:48		07:11 (SAM_WT02)	05:53		06:19 (SAM_WT09)	05:29		
	17:09	137	16:08 (KLZ_WT21)	18:03			18:52	46	18:27 (KLZ_WT20)	20:43	5	07:16 (SAM_WT02)	21:31	27	20:35 (KLZ_WT05)	22:03		
18	08:41		09:55 (SAM_WT07)	07:55			06:55		07:17 (SAM_WT08)	06:46		07:09 (SAM_WT02)	05:52		20:12 (KLZ_WT05)	05:29		
	17:11	136	16:08 (KLZ_WT21)	18:05			18:54	50	18:29 (KLZ_WT20)	20:45	6	07:15 (SAM_WT02)	21:33	23	20:35 (KLZ_WT05)	22:03		
19	08:40		09:56 (SAM_WT07)	07:53			06:53		07:15 (SAM_WT08)	06:44		07:10 (SAM_WT02)	05:51		20:12 (KLZ_WT05)	05:29		
	17:12	135	16:09 (KLZ_WT21)	18:07			18:55	52	18:31 (KLZ_WT20)	20:47	2	07:12 (SAM_WT02)	21:34	23	20:35 (KLZ_WT05)	22:04		
20	08:39		09:07 (SAM_WT04)	07:51			06:50		07:13 (SAM_WT08)	06:42		07:05 (SWB_WT02_RP)	05:49		20:13 (KLZ_WT05)	05:29		
	17:14	134	16:09 (KLZ_WT21)	18:09			18:57	52	18:32 (KLZ_WT20)	20:48	1	07:06 (SWB_WT02_RP)	21:35	21	20:34 (KLZ_WT05)	22:04		
21	08:38		09:05 (SAM_WT04)	07:49			06:48		07:13 (SAM_WT08)	06:40		07:03 (SWB_WT02_RP)	05:48		20:13 (KLZ_WT05)	05:30		
	17:16	135	16:08 (KLZ_WT21)	18:11			18:59	46	18:33 (KLZ_WT20)	20:50	2	07:05 (SWB_WT02_RP)	21:37	20	20:33 (KLZ_WT05)	22:04		
22	08:37		09:04 (SAM_WT04)	07:47			06:46		07:15 (SAM_WT08)	06:38			05:47		20:14 (KLZ_WT05)	05:30		
	17:17	135	16:08 (KLZ_WT21)	18:12			19:00	38	18:35 (KLZ_WT20)	20:52			21:38	18	20:32 (KLZ_WT05)	22:05		
23	08:36		09:03 (SAM_WT04)	07:45			06:43		18:13 (KLZ_WT20)	06:36		06:59 (SAM_WT03)	05:45		20:16 (KLZ_WT05)	05:30		
	17:19	133	16:08 (KLZ_WT21)	18:14			19:02	24	18:37 (KLZ_WT20)	20:53	1	07:00 (SAM_WT03)	21:39	16	20:32 (KLZ_WT05)	22:05		
24	08:35		09:01 (SAM_WT04)	07:43			06:41		18:12 (KLZ_WT20)	06:34		06:57 (SAM_WT03)	05:44		20:17 (KLZ_WT05)	05:30		
	17:21	132	16:07 (KLZ_WT21)	18:16			19:04	26	18:38 (KLZ_WT20)	20:55	3	07:00 (SAM_WT03)	21:41	14	20:31 (KLZ_WT05)	22:05		
25	08:34		09:00 (SAM_WT04)	07:40			06:39		18:11 (KLZ_WT20)	06:32		06:55 (SAM_WT03)	05:43		20:18 (KLZ_WT05)	05:31		
	17:22	129	16:07 (KLZ_WT21)	18:18			19:05	29	18:40 (KLZ_WT20)	20:56	5	07:00 (SAM_WT03)	21:42	12	20:30 (KLZ_WT05)	22:05		
26	08:32		08:59 (SAM_WT04)	07:38		08:18 (SAM_WT06)	06:37		18:12 (KLZ_WT20)	06:30		06:53 (SAM_WT03)	05:42		20:20 (KLZ_WT05)	05:31		
	17:24	125	16:07 (KLZ_WT21)	18:19	15	08:33 (SAM_WT06)	19:07	29	18:41 (KLZ_WT20)	20:58	7	07:00 (SAM_WT03)	21:43	8	20:28 (KLZ_WT05)	22:05		
27	08:31		08:57 (SAM_WT04)	07:36		08:15 (SAM_WT06)	06:34		18:12 (KLZ_WT20)	06:28		06:51 (SAM_WT03)	05:41		20:22 (KLZ_WT05)	05:31		
	17:26	122	16:06 (KLZ_WT21)	18:21	21	08:36 (SAM_WT06)	19:09	32	18:44 (KLZ_WT12)	21:00	8	06:59 (SAM_WT03)	21:45	4	20:26 (KLZ_WT05)	22:05		
28	08:30		08:56 (SAM_WT04)	07:34		08:12 (SAM_WT06)	06:32		18:11 (KLZ_WT20)	06:26		06:49 (SAM_WT03)	05:40			05:32		
	17:27	114	16:05 (KLZ_WT21)	18:23	25	08:37 (SAM_WT06)	19:10	34	18:45 (KLZ_WT12)	21:01	9	06:58 (SAM_WT03)	21:46			22:05		
29	08:28		08:54 (SAM_WT11)				07:30		19:12 (KLZ_WT20)	06:24		06:51 (SAM_WT03)	05:39			05:32		
	17:29	102	16:03 (KLZ_WT21)				20:12	35	19:47 (KLZ_WT12)	21:03	6	06:57 (SAM_WT03)	21:47			22:05		
30	08:27		08:53 (SAM_WT11)				07:28		19:12 (KLZ_WT20)	06:22			05:38			05:33		
	17:31	94	16:02 (KLZ_WT21)				20:14	36	19:49 (EVE_WT01)	21:05			21:48			22:04		
31	08:25		08:51 (SAM_WT11)				07:25		19:14 (KLZ_WT20)				05:37					
	17:33	86	15:58 (KLZ_WT21)				20:15	34	19:50 (EVE_WT01)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		4155			704			1194			281			519				
Sun reduction		0,25			0,30			0,38			0,46			0,46				
Oper. time red.		0,98			0,98			0,98			0,98			0,98				
Wind dir. red.		0,66			0,63			0,58			0,62			0,56				
Total reduction		0,16			0,19			0,22			0,28			0,25				
Total, real		667			130			258			79			129				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		20:21 (KLZ_WT05)	06:57		19:39 (KLZ_WT06)	07:44		08:41 (SAM_WT06)	07:36		08:24 (SAM_WT11)	08:26		09:33 (SAM_WT07)
	22:04			21:34	25	20:46 (KLZ_WT05)	20:33	5	19:44 (KLZ_WT06)	19:25	43	18:58 (KLZ_WT13)	17:21	36	13:22 (KLZ_WT23)	16:42	145	15:54 (KLZ_WT22)
2	05:34			06:10		20:20 (KLZ_WT05)	06:59		19:36 (KLZ_WT06)	07:46		08:41 (SAM_WT06)	07:38		08:23 (SAM_WT11)	08:27		09:34 (SAM_WT07)
	22:04			21:32	25	20:45 (KLZ_WT05)	20:31	10	19:46 (KLZ_WT06)	19:23	42	18:56 (KLZ_WT13)	17:19	47	13:26 (KLZ_WT23)	16:41	145	15:56 (KLZ_WT22)
3	05:35			06:12		20:21 (KLZ_WT05)	07:00		07:26 (SWB_WT01_RP)	07:48		08:40 (SAM_WT06)	07:40		08:21 (SAM_WT11)	08:29		09:34 (SAM_WT07)
	22:04			21:30	25	20:46 (KLZ_WT05)	20:29	18	19:48 (KLZ_WT06)	19:21	40	09:20 (SAM_WT06)	17:17	55	13:28 (KLZ_WT23)	16:41	145	15:56 (KLZ_WT22)
4	05:36			06:13		20:21 (KLZ_WT05)	07:02		07:27 (SWB_WT01_RP)	07:49		08:40 (SAM_WT06)	07:42		08:20 (SAM_WT11)	08:30		09:35 (SAM_WT07)
	22:03			21:29	24	20:45 (KLZ_WT05)	20:27	20	19:48 (KLZ_WT06)	19:19	40	09:20 (SAM_WT06)	17:16	61	13:30 (KLZ_WT23)	16:40	145	15:57 (KLZ_WT22)
5	05:37			06:15		20:22 (KLZ_WT05)	07:03		07:29 (SWB_WT01_RP)	07:51		08:40 (SAM_WT06)	07:43		08:19 (SAM_WT11)	08:31		09:35 (SAM_WT07)
	22:03			21:27	23	20:45 (KLZ_WT05)	20:24	18	19:48 (KLZ_WT06)	19:16	40	09:20 (SAM_WT06)	17:14	67	13:32 (KLZ_WT23)	16:40	146	15:58 (KLZ_WT22)
6	05:37			06:16		20:22 (KLZ_WT05)	07:05		07:30 (SWB_WT01_RP)	07:52		08:40 (SAM_WT06)	07:45		08:19 (SAM_WT11)	08:33		09:35 (SAM_WT07)
	22:02			21:25	21	20:43 (KLZ_WT05)	20:22	18	19:48 (KLZ_WT06)	19:14	39	09:19 (SAM_WT06)	17:12	70	13:33 (KLZ_WT23)	16:39	146	15:58 (KLZ_WT22)
7	05:38			06:18		20:23 (KLZ_WT05)	07:06		19:31 (KLZ_WT06)	07:54		08:40 (SAM_WT06)	07:47		08:19 (SAM_WT11)	08:34		09:36 (SAM_WT07)
	22:02			21:23	20	20:43 (KLZ_WT05)	20:20	17	19:48 (KLZ_WT06)	19:12	38	09:18 (SAM_WT06)	17:11	74	13:35 (KLZ_WT23)	16:39	146	15:59 (KLZ_WT22)
8	05:39			06:19		20:24 (KLZ_WT05)	07:08		19:30 (KLZ_WT06)	07:56		08:41 (SAM_WT06)	07:49		08:18 (SAM_WT11)	08:35		09:36 (SAM_WT07)
	22:01			21:22	17	20:41 (KLZ_WT05)	20:18	21	19:51 (EVE_WT01)	19:10	37	09:18 (SAM_WT06)	17:09	77	13:36 (KLZ_WT23)	16:39	145	15:59 (KLZ_WT22)
9	05:40			06:21		20:25 (KLZ_WT05)	07:10		19:13 (KLZ_WT20)	07:57		08:40 (SAM_WT06)	07:50		08:19 (SAM_WT11)	08:36		09:37 (SAM_WT07)
	22:00			21:20	14	20:39 (KLZ_WT05)	20:15	28	19:49 (EVE_WT01)	19:08	36	09:16 (SAM_WT06)	17:07	78	13:37 (KLZ_WT23)	16:38	145	16:00 (KLZ_WT22)
10	05:41			06:23		06:50 (SAM_WT01)	07:11		19:09 (KLZ_WT20)	07:59		08:41 (SAM_WT06)	07:52		08:21 (SAM_WT11)	08:37		09:37 (SAM_WT07)
	22:00			21:18	12	20:37 (KLZ_WT05)	20:13	31	19:46 (EVE_WT01)	19:05	35	09:16 (SAM_WT06)	17:06	79	13:38 (KLZ_WT23)	16:38	146	16:00 (KLZ_WT22)
11	05:42			06:24		06:51 (SAM_WT01)	07:13		19:08 (KLZ_WT20)	08:01		08:42 (SAM_WT06)	07:54		08:23 (SAM_WT11)	08:38		09:37 (SAM_WT07)
	21:59			21:16	2	06:53 (SAM_WT01)	20:11	33	19:45 (EVE_WT01)	19:03	33	09:15 (SAM_WT06)	17:04	88	15:31 (KLZ_WT21)	16:38	144	16:00 (KLZ_WT22)
12	05:43			06:26		06:53 (SAM_WT01)	07:14		19:05 (KLZ_WT20)	08:02		08:43 (SAM_WT06)	07:56		08:24 (SAM_WT11)	08:39		09:38 (SAM_WT07)
	21:58			21:14	1	06:54 (SAM_WT01)	20:09	35	19:42 (EVE_WT01)	19:01	29	09:12 (SAM_WT06)	17:03	94	15:33 (KLZ_WT21)	16:38	145	16:01 (KLZ_WT22)
13	05:44			06:27			07:16		19:04 (KLZ_WT20)	08:04		08:44 (SAM_WT06)	07:57		08:26 (SAM_WT11)	08:40		09:38 (SAM_WT07)
	21:57			21:12			20:06	36	19:40 (EVE_WT01)	18:59	27	09:11 (SAM_WT06)	17:01	103	15:35 (KLZ_WT21)	16:38	143	16:01 (KLZ_WT22)
14	05:45			06:29		06:59 (SAM_WT03)	07:17		19:02 (KLZ_WT20)	08:06		08:46 (SAM_WT06)	07:59		08:28 (SAM_WT04)	08:41		09:39 (SAM_WT07)
	21:56			21:11	6	07:05 (SAM_WT03)	20:04	35	19:37 (KLZ_WT12)	18:57	23	09:09 (SAM_WT06)	17:00	115	15:37 (KLZ_WT21)	16:38	143	16:02 (KLZ_WT22)
15	05:46			06:30		06:57 (SAM_WT03)	07:19		19:02 (KLZ_WT20)	08:07		08:49 (SAM_WT06)	08:01		08:30 (SAM_WT04)	08:42		09:40 (SAM_WT07)
	21:55			21:09	9	07:06 (SAM_WT03)	20:02	33	19:35 (KLZ_WT12)	18:55	18	09:07 (SAM_WT06)	16:58	122	15:39 (KLZ_WT21)	16:38	142	16:02 (KLZ_WT22)
16	05:47			06:32		06:59 (SAM_WT03)	07:21		19:00 (KLZ_WT20)	08:09		08:51 (SAM_WT06)	08:02		08:32 (SAM_WT04)	08:43		09:40 (SAM_WT07)
	21:55			21:07	8	07:07 (SAM_WT03)	19:59	33	19:33 (KLZ_WT12)	18:52	11	09:02 (SAM_WT06)	16:57	125	15:40 (KLZ_WT21)	16:38	142	16:03 (KLZ_WT22)
17	05:49		20:30 (KLZ_WT05)	06:33		07:00 (SAM_WT03)	07:22		19:00 (KLZ_WT20)	08:11			08:04		08:34 (SAM_WT04)	08:44		09:41 (SAM_WT07)
	21:53	7	20:37 (KLZ_WT05)	21:05	7	07:07 (SAM_WT03)	19:57	30	19:31 (KLZ_WT12)	18:50			16:56	129	15:41 (KLZ_WT21)	16:38	142	16:03 (KLZ_WT22)
18	05:50		20:28 (KLZ_WT05)	06:35		07:02 (SAM_WT03)	07:24		18:59 (KLZ_WT20)	08:12			08:06		08:35 (SAM_WT04)	08:45		09:41 (SAM_WT07)
	21:52	11	20:39 (KLZ_WT05)	21:03	5	07:07 (SAM_WT03)	19:55	29	19:28 (KLZ_WT20)	18:48			16:55	132	15:41 (KLZ_WT21)	16:39	141	16:03 (KLZ_WT22)
19	05:51		20:27 (KLZ_WT05)	06:37		07:03 (SAM_WT03)	07:25		18:59 (KLZ_WT20)	08:14			08:07		08:37 (SAM_WT04)	08:45		09:42 (SAM_WT07)
	21:51	13	20:40 (KLZ_WT05)	21:01	3	07:06 (SAM_WT03)	19:53	27	19:26 (KLZ_WT20)	18:46			16:53	133	15:42 (KLZ_WT21)	16:39	142	16:04 (KLZ_WT22)
20	05:52		20:26 (KLZ_WT05)	06:38			07:27		18:59 (KLZ_WT20)	08:16			08:09		08:39 (SAM_WT04)	08:46		09:43 (SAM_WT07)
	21:50	15	20:41 (KLZ_WT05)	20:59			19:50	25	19:24 (KLZ_WT20)	18:44			16:52	135	15:43 (KLZ_WT21)	16:39	141	16:05 (KLZ_WT22)
21	05:54		20:26 (KLZ_WT05)	06:40		07:06 (SWB_WT02_RP)	07:28		09:00 (SAM_WT06)	08:17			08:11		08:41 (SAM_WT04)	08:47		09:43 (SAM_WT07)
	21:49	17	20:43 (KLZ_WT05)	20:57	1	07:07 (SWB_WT02_RP)	19:48	29	19:21 (KLZ_WT20)	18:42			16:51	135	15:44 (KLZ_WT21)	16:40	141	16:05 (KLZ_WT22)
22	05:55		20:24 (KLZ_WT05)	06:41		07:08 (SWB_WT02_RP)	07:30		07:59 (SAM_WT08)	08:19			08:12		08:43 (SAM_WT04)	08:47		09:44 (SAM_WT07)
	21:48	19	20:43 (KLZ_WT05)	20:55	2	07:10 (SWB_WT02_RP)	19:46	45	19:20 (KLZ_WT20)	18:40			16:50	134	15:45 (KLZ_WT21)	16:40	141	16:06 (KLZ_WT22)
23	05:56		20:23 (KLZ_WT05)	06:43		07:09 (SWB_WT02_RP)	07:32		07:56 (SAM_WT08)	08:21			08:14		09:32 (SAM_WT07)	08:48		09:44 (SAM_WT07)
	21:47	21	20:44 (KLZ_WT05)	20:52	1	07:10 (SWB_WT02_RP)	19:43	52	19:17 (KLZ_WT20)	18:38			16:49	135	15:45 (KLZ_WT21)	16:41	141	16:06 (KLZ_WT22)
24	05:58		20:22 (KLZ_WT05)	06:44		07:14 (SAM_WT02)	07:33		07:58 (SAM_WT08)	08:23			08:16		09:32 (SAM_WT07)	08:48		09:44 (SAM_WT07)
	21:45	22	20:44 (KLZ_WT05)	20:50	3	07:17 (SAM_WT02)	19:41	51	19:15 (KLZ_WT20)	18:36			16:48	136	15:45 (KLZ_WT21)	16:41	141	16:06 (KLZ_WT22)
25	05:59		20:23 (KLZ_WT05)	06:46		07:12 (SAM_WT02)	07:35		07:59 (SAM_WT08)	07:24			08:17		09:33 (SAM_WT07)	08:48		09:45 (SAM_WT07)
	21:44	22	20:45 (KLZ_WT05)	20:48	6	07:18 (SAM_WT02)	19:39	51	19:12 (KLZ_WT20)	17:34			16:47	136	15:46 (KLZ_WT21)	16:42	141	16:07 (KLZ_WT22)
26	06:00		20:22 (KLZ_WT05)	06:48		07:14 (SAM_WT02)	07:36		08:01 (SAM_WT08)	07:26			08:19		09:32 (SAM_WT07)	08:49		09:45 (SAM_WT07)
	21:43	23	20:45 (KLZ_WT05)	20:46	5	07:19 (SAM_WT02)	19:37	47	19:10 (KLZ_WT20)	17:32			16:46	138	15:46 (KLZ_WT21)	16:43	141	16:07 (KLZ_WT22)
27	06:02		06:30 (SAM_WT09)	06:49		07:15 (SAM_WT02)	07:38		08:03 (SAM_WT08)	07:28			08:20		09:33 (SAM_WT07)	08:49		09:45 (SAM_WT07)
	21:41	29	20:46 (KLZ_WT05)	20:44	4	07:19 (SAM_WT02)	19:34	46	19:08 (KLZ_WT20)	17:30			16:45	139	15:48 (KLZ_WT22)	16:43	142	16:08 (KLZ_WT22)
28	06:03		06:32 (SAM_WT09)	06:51		07:17 (SAM_WT02)	07:40		08:04 (SAM_WT08)	07:30			08:22		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:40	27	20:46 (KLZ_WT05)	20:42	2	07:19 (SAM_WT02)	19:32	47	19:05 (KLZ_WT13)	17:28			16:44	143	15:51 (KLZ_WT22)	16:44	142	16:08 (KLZ_WT22)
29	06:05		06:33 (SAM_WT09)	06:52			07:41		08:43 (SAM_WT06)	07:31			08:23		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:38	28	20:46 (KLZ_WT05)	20:40			19:30	45	19:03 (KLZ_WT13)	17:26			16:43	144	15:52 (KLZ_WT22)	16:45	143	16:08 (KLZ_WT22)
30	06:06		06:34 (SAM_WT09)	06:54			07:43		08:41 (SAM_WT06)	07:33			08:25		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:37	28	20:46 (KLZ_WT05)	20:38			19:28	45	19:00 (KLZ_WT13)	17:25			16:43	145	15:54 (KLZ_WT22)	16:46	143	16:09 (KLZ_WT22)
31	06:07		06:36 (SAM_WT09)	06:55						07:35		08:27 (SAM_WT11)				08:50		09:47 (SAM_WT07)
	21:35	27	20:47 (KLZ_WT05)	20:35						17:23	16	13:16 (KLZ_WT23)				16:47	143	16:09 (KLZ_WT22)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		309			271			960			547			3205			4438	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,56			0,58			0,60			0,56			0,66			0,67	
Total reduction		0,24			0,26			0,26			0,20			0,17			0,15	
Total, real		76			71			245			108			548			653	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		11:31 (KLZ_WT19)	08:24		09:22 (CBR_WT01)	07:32			07:23		07:47 (SAM_WT11)	06:20		17:25 (KLZ_WT21)	05:36		06:27 (SAM_WT06)
	16:48	48	12:19 (KLZ_WT19)	17:35	61	17:05 (KLZ_WT16)	18:25			20:17	73	18:52 (KLZ_WT21)	21:06	113	20:38 (KLZ_WT13)	21:50	124	21:13 (EVE_WT01)
2	08:49		11:31 (KLZ_WT19)	08:22		09:22 (CBR_WT01)	07:30			07:21		07:48 (SAM_WT11)	06:18		17:25 (KLZ_WT21)	05:36		06:28 (SAM_WT06)
	16:49	48	12:19 (KLZ_WT19)	17:36	62	17:07 (KLZ_WT16)	18:26			20:19	75	18:54 (KLZ_WT21)	21:08	116	20:40 (KLZ_WT13)	21:52	120	21:13 (EVE_WT01)
3	08:49		11:31 (KLZ_WT19)	08:21		09:22 (CBR_WT01)	07:28			07:19		07:47 (SAM_WT07)	06:16		17:25 (KLZ_WT21)	05:35		06:28 (SAM_WT06)
	16:50	48	12:19 (KLZ_WT19)	17:38	61	17:07 (KLZ_WT16)	18:28			20:20	80	18:57 (KLZ_WT21)	21:09	118	20:41 (KLZ_WT13)	21:53	114	19:14 (KLZ_WT21)
4	08:49		11:32 (KLZ_WT19)	08:19		09:23 (CBR_WT01)	07:26			07:17		07:45 (SAM_WT07)	06:15		17:26 (KLZ_WT21)	05:34		06:29 (SAM_WT06)
	16:51	47	12:19 (KLZ_WT19)	17:40	60	16:58 (KLZ_WT22)	18:30			20:22	89	18:59 (KLZ_WT21)	21:11	119	20:43 (KLZ_WT13)	21:54	111	19:13 (KLZ_WT21)
5	08:49		11:34 (KLZ_WT19)	08:18		09:23 (CBR_WT01)	07:24			07:14		07:43 (SAM_WT07)	06:13		17:25 (KLZ_WT21)	05:33		06:30 (SAM_WT06)
	16:52	45	12:19 (KLZ_WT19)	17:42	58	16:57 (KLZ_WT22)	18:32			20:24	96	19:01 (KLZ_WT21)	21:13	121	20:44 (KLZ_WT13)	21:55	110	19:14 (KLZ_WT21)
6	08:49		11:34 (KLZ_WT19)	08:16		09:24 (CBR_WT01)	07:21			07:12		07:40 (SAM_WT07)	06:11		17:25 (KLZ_WT21)	05:33		06:30 (SAM_WT06)
	16:54	45	12:19 (KLZ_WT19)	17:44	56	16:57 (KLZ_WT22)	18:33			20:25	102	19:01 (KLZ_WT21)	21:14	122	20:45 (KLZ_WT13)	21:56	108	19:13 (KLZ_WT21)
7	08:48		11:35 (KLZ_WT19)	08:14		09:25 (CBR_WT01)	07:19			07:10		07:39 (SAM_WT07)	06:09		17:26 (KLZ_WT21)	05:32		06:31 (SAM_WT06)
	16:55	44	12:19 (KLZ_WT19)	17:45	54	16:57 (KLZ_WT22)	18:35			20:27	107	19:03 (KLZ_WT21)	21:16	123	20:47 (KLZ_WT13)	21:56	108	19:14 (KLZ_WT21)
8	08:48		11:36 (KLZ_WT19)	08:13		09:26 (CBR_WT01)	07:17			07:08		07:38 (SAM_WT07)	06:08		17:26 (KLZ_WT21)	05:32		06:31 (SAM_WT06)
	16:56	43	12:19 (KLZ_WT19)	17:47	51	16:57 (KLZ_WT22)	18:37			20:29	113	19:05 (KLZ_WT21)	21:17	124	20:48 (KLZ_WT13)	21:57	106	19:13 (KLZ_WT21)
9	08:47		11:37 (KLZ_WT19)	08:11		09:28 (CBR_WT01)	07:15			07:05		07:38 (SAM_WT07)	06:06		06:32 (SAM_WT06)	05:31		06:33 (SAM_WT06)
	16:58	42	12:19 (KLZ_WT19)	17:49	47	16:57 (KLZ_WT22)	18:39			20:30	116	19:06 (KLZ_WT21)	21:19	134	20:49 (KLZ_WT13)	21:58	103	19:14 (KLZ_WT21)
10	08:47		11:38 (KLZ_WT19)	08:09		09:29 (CBR_WT01)	07:13			07:03		07:37 (SAM_WT07)	06:04		06:29 (SAM_WT02)	05:31		06:34 (SAM_WT06)
	16:59	41	12:19 (KLZ_WT19)	17:51	42	16:56 (KLZ_WT22)	18:40			20:32	119	19:07 (KLZ_WT21)	21:21	136	20:48 (KLZ_WT13)	21:59	101	19:14 (KLZ_WT21)
11	08:46		09:31 (CBR_WT01)	08:08		09:31 (CBR_WT01)	07:10			07:01		07:37 (SAM_WT07)	06:03		06:29 (SAM_WT06)	05:31		06:35 (SAM_WT06)
	17:00	43	12:18 (KLZ_WT19)	17:53	36	16:55 (KLZ_WT22)	18:42			20:33	121	19:08 (KLZ_WT21)	21:22	134	20:47 (KLZ_WT13)	22:00	99	19:14 (KLZ_WT21)
12	08:46		09:28 (CBR_WT01)	08:06		09:34 (CBR_WT01)	07:08			06:59		07:35 (SAM_WT07)	06:01		06:27 (SAM_WT06)	05:30		06:35 (SAM_WT06)
	17:02	47	12:17 (KLZ_WT19)	17:54	27	16:54 (KLZ_WT22)	18:44			20:35	124	19:08 (KLZ_WT21)	21:24	135	20:45 (KLZ_WT13)	22:00	99	19:14 (KLZ_WT21)
13	08:45		09:27 (CBR_WT01)	08:04		16:38 (KLZ_WT22)	07:06		07:28 (SAM_WT04)	06:57		07:35 (SAM_WT07)	05:59		06:27 (SAM_WT06)	05:30		06:36 (SAM_WT06)
	17:03	50	12:18 (KLZ_WT19)	17:56	14	16:52 (KLZ_WT22)	18:45	1	07:29 (SAM_WT04)	20:37	127	19:09 (KLZ_WT21)	21:25	129	19:16 (KLZ_WT21)	22:01	96	19:14 (KLZ_WT21)
14	08:44		09:26 (CBR_WT01)	08:02		08:26 (SAM_WT05)	07:04		07:26 (SAM_WT04)	06:55		07:35 (SAM_WT07)	05:58		06:25 (SAM_WT06)	05:30		06:38 (SAM_WT06)
	17:05	51	12:17 (KLZ_WT19)	17:58	12	16:49 (KLZ_WT22)	18:47	4	07:30 (SAM_WT04)	20:38	129	19:10 (KLZ_WT21)	21:27	130	19:15 (KLZ_WT21)	22:01	94	19:14 (KLZ_WT21)
15	08:44		09:25 (CBR_WT01)	08:00		08:24 (SAM_WT05)	07:02		07:24 (SAM_WT04)	06:52		07:35 (SAM_WT07)	05:56		06:25 (SAM_WT06)	05:30		06:39 (SAM_WT06)
	17:06	50	12:16 (KLZ_WT19)	18:00	8	08:32 (SAM_WT05)	18:49	7	07:31 (SAM_WT04)	20:40	130	19:11 (KLZ_WT21)	21:28	131	19:16 (KLZ_WT21)	22:02	91	19:14 (KLZ_WT21)
16	08:43		09:24 (CBR_WT01)	07:58		08:22 (SAM_WT05)	06:59		07:22 (SAM_WT04)	06:50		07:13 (SAM_WT08)	05:55		06:25 (SAM_WT06)	05:29		17:46 (KLZ_WT21)
	17:08	51	12:15 (KLZ_WT19)	18:02	11	08:33 (SAM_WT05)	18:50	10	07:32 (SAM_WT04)	20:42	134	19:12 (KLZ_WT21)	21:30	131	19:16 (KLZ_WT21)	22:03	88	19:14 (KLZ_WT21)
17	08:42		09:23 (CBR_WT01)	07:56		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT04)	06:48		07:11 (SAM_WT08)	05:53		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:09	49	12:13 (KLZ_WT19)	18:03	14	08:34 (SAM_WT05)	18:52	12	07:31 (SAM_WT04)	20:43	135	19:12 (KLZ_WT21)	21:31	131	19:15 (KLZ_WT21)	22:03	88	19:15 (KLZ_WT21)
18	08:41		09:23 (CBR_WT01)	07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT04)	06:46		07:09 (SAM_WT08)	05:52		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:11	45	12:11 (KLZ_WT19)	18:05	16	08:34 (SAM_WT05)	18:54	14	07:31 (SAM_WT04)	20:45	136	19:13 (KLZ_WT21)	21:33	132	21:03 (EVE_WT01)	22:03	88	19:15 (KLZ_WT21)
19	08:40		09:22 (CBR_WT01)	07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT04)	06:44		07:07 (SAM_WT08)	05:51		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:12	42	12:08 (KLZ_WT19)	18:07	19	08:35 (SAM_WT05)	18:55	16	07:31 (SAM_WT04)	20:47	139	20:20 (EVE_WT02)	21:34	132	21:04 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
20	08:39		09:22 (CBR_WT01)	07:51		08:14 (SAM_WT05)	06:50		07:16 (SAM_WT04)	06:42		07:05 (SAM_WT08)	05:49		06:24 (SAM_WT06)	05:30		17:47 (KLZ_WT21)
	17:14	29	09:51 (CBR_WT01)	18:09	21	08:35 (SAM_WT05)	18:57	14	07:30 (SAM_WT04)	20:48	140	20:22 (EVE_WT02)	21:35	135	21:06 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
21	08:38		09:21 (CBR_WT01)	07:49		08:14 (SAM_WT05)	06:48		07:16 (SAM_WT04)	06:40		07:39 (SAM_WT07)	05:48		06:14 (SAM_WT03)	05:30		17:47 (KLZ_WT21)
	17:16	30	09:51 (CBR_WT01)	18:11	23	17:44 (KLZ_WT15)	18:59	11	07:27 (SAM_WT04)	20:50	133	20:23 (EVE_WT02)	21:37	137	21:06 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
22	08:37		09:21 (CBR_WT01)	07:47		08:14 (SAM_WT05)	06:46		07:18 (SAM_WT04)	06:38		07:40 (SAM_WT07)	05:47		06:13 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:17	31	09:52 (CBR_WT01)	18:12	25	17:46 (KLZ_WT15)	19:00	7	07:25 (SAM_WT04)	20:52	134	20:25 (EVE_WT02)	21:38	138	21:07 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
23	08:36		09:21 (CBR_WT01)	07:45		08:14 (SAM_WT05)	06:44			06:36		07:43 (SAM_WT07)	05:46		06:12 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:19	32	09:53 (CBR_WT01)	18:14	26	17:48 (KLZ_WT15)	19:02			20:53	130	20:26 (EVE_WT02)	21:39	138	21:09 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
24	08:35		09:20 (CBR_WT01)	07:43		08:15 (SAM_WT05)	06:41		07:03 (SAM_WT11)	06:34		07:48 (SAM_WT07)	05:44		06:11 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:21	33	09:53 (CBR_WT01)	18:16	25	17:50 (KLZ_WT15)	19:04	4	07:07 (SAM_WT11)	20:55	121	20:28 (EVE_WT02)	21:41	137	21:10 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
25	08:34		09:20 (CBR_WT01)	07:40		08:16 (SAM_WT05)	06:39		07:01 (SAM_WT11)	06:32		17:26 (KLZ_WT21)	05:43		06:24 (SAM_WT06)	05:31		17:49 (KLZ_WT21)
	17:22	43	16:46 (KLZ_WT22)	18:18	21	17:50 (KLZ_WT15)	19:05	7	07:08 (SAM_WT11)	20:56	121	20:29 (EVE_WT02)	21:42	136	21:11 (EVE_WT01)	22:05	88	19:17 (KLZ_WT21)
26	08:32		09:21 (CBR_WT01)	07:38		08:17 (SAM_WT05)	06:37		06:59 (SAM_WT11)	06:30		17:26 (KLZ_WT21)	05:42		06:24 (SAM_WT06)	05:31		17:48 (KLZ_WT21)
	17:24	47	16:49 (KLZ_WT22)	18:19	14	08:31 (SAM_WT05)	19:07	10	07:09 (SAM_WT11)	20:58	118	20:27 (EVE_WT02)	21:43	135	21:12 (EVE_WT01)	22:05	89	19:17 (KLZ_WT21)
27	08:31		09:20 (CBR_WT01)	07:36		08:20 (SAM_WT05)	06:34		06:57 (SAM_WT11)	06:28		17:26 (KLZ_WT21)	05:41		06:25 (SAM_WT06)	05:32		17:48 (KLZ_WT21)
	17:26	51	16:50 (KLZ_WT22)	18:21	8	08:28 (SAM_WT05)	19:09	13	07:10 (SAM_WT11)	21:00	112	20:24 (EVE_WT02)	21:45	135	21:13 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
28	08:30		09:21 (CBR_WT01)	07:34			06:32		06:54 (SAM_WT11)	06:26		17:25 (KLZ_WT21)	05:40		06:25 (SAM_WT06)	05:32		06:41 (SAM_WT06)
	17:28	53	16:52 (KLZ_WT22)	18:23			19:10	25	17:32 (KLZ_WT21)	21:01	110	19:15 (KLZ_WT21)	21:46	134	21:14 (EVE_WT01)	22:05	92	19:17 (KLZ_WT21)
29	08:28		09:20 (CBR_WT01)				07:30		07:52 (SAM_WT11)	06:24		17:26 (KLZ_WT21)	05:39		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:29	56	16:53 (KLZ_WT22)				20:12	45	18:41 (KLZ_WT21)	21:03	110	19:16 (KLZ_WT21)	21:47	134	21:16 (EVE_WT01)	22:05	95	19:17 (KLZ_WT21)
30	08:27		09:21 (CBR_WT01)				07:28		07:50 (SAM_WT11)	06:22		17:26 (KLZ_WT21)	05:38		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:31	58	16:55 (KLZ_WT22)				20:14	58	18:46 (KLZ_WT21)	21:05	110	19:16 (KLZ_WT21)	21:48	131	21:15 (EVE_WT01)	22:04	98	19:18 (KLZ_WT21)
31	08:25		09:21 (CBR_WT01)				07:25		07:48 (SAM_WT11)				05:37		06:27 (SAM_WT06)			
	17:33	61	17:03 (KLZ_WT16)				20:15	67	18:50 (KLZ_WT21)				21:49	127	21:14 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1403			872			325			3484			4028			2926	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,59			0,61			0,62			0,63			0,64			0,64	
Total reduction		0,14			0,18			0,23			0,29			0,28			0,28	
Total, real		202			155			74			994			1143			806	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:39 (SAM_WT06)	06:09		06:38 (SAM_WT06)	06:57		07:36 (SAM_WT07)	07:44			07:36		08:58 (CBR_WT01)	08:26		09:13 (CBR_WT01)
	22:04	99	19:18 (KLZ_WT21)	21:34	134	20:56 (KLZ_WT13)	20:33	121	19:07 (KLZ_WT21)	19:25			17:21	45	16:26 (KLZ_WT22)	16:42	43	12:00 (KLZ_WT19)
2	05:34		06:38 (SAM_WT06)	06:10		06:40 (SAM_WT06)	06:59		07:35 (SAM_WT07)	07:46			07:38		08:57 (CBR_WT01)	08:27		11:21 (KLZ_WT19)
	22:04	101	19:18 (KLZ_WT21)	21:32	135	20:58 (KLZ_WT13)	20:31	119	19:05 (KLZ_WT21)	19:23			17:19	48	16:27 (KLZ_WT22)	16:41	41	12:02 (KLZ_WT19)
3	05:35		06:38 (SAM_WT06)	06:12		06:40 (SAM_WT02)	07:00		07:36 (SAM_WT07)	07:48			07:40		08:55 (CBR_WT01)	08:29		11:20 (KLZ_WT19)
	22:04	103	19:19 (KLZ_WT21)	21:30	136	20:59 (KLZ_WT13)	20:29	116	19:04 (KLZ_WT21)	19:21			17:17	52	16:26 (KLZ_WT22)	16:41	42	12:02 (KLZ_WT19)
4	05:36		06:38 (SAM_WT06)	06:13		06:43 (SAM_WT06)	07:02		07:35 (SAM_WT07)	07:49			07:42		08:54 (CBR_WT01)	08:30		11:21 (KLZ_WT19)
	22:03	105	19:19 (KLZ_WT21)	21:29	132	20:59 (KLZ_WT13)	20:27	113	19:02 (KLZ_WT21)	19:19			17:16	55	16:27 (KLZ_WT22)	16:40	43	12:04 (KLZ_WT19)
5	05:37		06:37 (SAM_WT06)	06:15		17:36 (KLZ_WT21)	07:03		07:36 (SAM_WT07)	07:51			07:43		08:54 (CBR_WT01)	08:31		11:20 (KLZ_WT19)
	22:03	106	19:19 (KLZ_WT21)	21:27	123	20:58 (KLZ_WT13)	20:24	107	19:00 (KLZ_WT21)	19:16			17:14	56	16:27 (KLZ_WT22)	16:40	44	12:04 (KLZ_WT19)
6	05:37		06:37 (SAM_WT06)	06:17		17:36 (KLZ_WT21)	07:05		07:37 (SAM_WT07)	07:53			07:45		08:53 (CBR_WT01)	08:33		11:20 (KLZ_WT19)
	22:02	108	19:20 (KLZ_WT21)	21:25	122	20:56 (KLZ_WT13)	20:22	102	18:58 (KLZ_WT21)	19:14			17:12	58	16:27 (KLZ_WT22)	16:39	45	12:05 (KLZ_WT19)
7	05:38		06:36 (SAM_WT06)	06:18		17:36 (KLZ_WT21)	07:06		07:38 (SAM_WT07)	07:54			07:47		08:53 (CBR_WT01)	08:34		11:21 (KLZ_WT19)
	22:02	109	19:20 (KLZ_WT21)	21:23	121	20:55 (KLZ_WT13)	20:20	96	18:56 (KLZ_WT21)	19:12			17:11	59	16:27 (KLZ_WT22)	16:39	46	12:07 (KLZ_WT19)
8	05:39		06:36 (SAM_WT06)	06:20		17:35 (KLZ_WT21)	07:08		07:39 (SAM_WT07)	07:56			07:49		08:53 (CBR_WT01)	08:35		11:21 (KLZ_WT19)
	22:01	112	19:21 (KLZ_WT21)	21:22	121	20:53 (KLZ_WT13)	20:18	89	18:53 (KLZ_WT21)	19:10			17:09	62	16:39 (KLZ_WT16)	16:39	46	12:07 (KLZ_WT19)
9	05:40		06:36 (SAM_WT06)	06:21		17:34 (KLZ_WT21)	07:10		07:41 (SAM_WT07)	07:57			07:50		08:52 (CBR_WT01)	08:36		11:21 (KLZ_WT19)
	22:00	113	19:21 (KLZ_WT21)	21:20	119	20:51 (KLZ_WT13)	20:15	80	18:51 (KLZ_WT21)	19:08			17:07	64	16:38 (KLZ_WT16)	16:38	47	12:08 (KLZ_WT19)
10	05:41		06:36 (SAM_WT06)	06:23		17:34 (KLZ_WT21)	07:11		07:41 (SAM_WT11)	07:59			07:52		08:52 (CBR_WT01)	08:37		11:21 (KLZ_WT19)
	22:00	119	21:20 (EVE_WT01)	21:18	117	20:50 (KLZ_WT13)	20:13	77	18:48 (KLZ_WT21)	19:05			17:06	62	16:36 (KLZ_WT16)	16:38	47	12:08 (KLZ_WT19)
11	05:42		06:36 (SAM_WT06)	06:24		17:34 (KLZ_WT21)	07:13		07:40 (SAM_WT11)	08:01			07:54		08:53 (CBR_WT01)	08:38		11:21 (KLZ_WT19)
	21:59	122	21:21 (EVE_WT01)	21:16	114	20:48 (KLZ_WT13)	20:11	73	18:45 (KLZ_WT21)	19:03			17:04	61	16:35 (KLZ_WT16)	16:38	48	12:09 (KLZ_WT19)
12	05:43		06:35 (SAM_WT06)	06:26		17:34 (KLZ_WT21)	07:14		07:39 (SAM_WT11)	08:02			07:56		08:52 (CBR_WT01)	08:39		11:21 (KLZ_WT19)
	21:58	125	21:22 (EVE_WT01)	21:14	112	20:46 (KLZ_WT13)	20:09	67	18:41 (KLZ_WT21)	19:01			17:03	57	16:25 (KLZ_WT22)	16:38	48	12:09 (KLZ_WT19)
13	05:44		06:35 (SAM_WT06)	06:27		17:33 (KLZ_WT21)	07:16		07:41 (SAM_WT11)	08:04			07:57		08:52 (CBR_WT01)	08:40		11:21 (KLZ_WT19)
	21:57	130	21:23 (EVE_WT01)	21:12	111	19:24 (KLZ_WT21)	20:06	59	18:38 (KLZ_WT21)	18:59			17:01	56	16:25 (KLZ_WT22)	16:38	49	12:10 (KLZ_WT19)
14	05:45		06:35 (SAM_WT06)	06:29		17:34 (KLZ_WT21)	07:17		07:42 (SAM_WT11)	08:06		08:55 (SAM_WT05)	07:59		08:53 (CBR_WT01)	08:41		11:21 (KLZ_WT19)
	21:56	131	21:24 (EVE_WT01)	21:11	110	19:24 (KLZ_WT21)	20:04	47	18:32 (KLZ_WT21)	18:57	2	08:57 (SAM_WT05)	17:00	54	16:24 (KLZ_WT22)	16:38	50	12:11 (KLZ_WT19)
15	05:46		06:35 (SAM_WT06)	06:30		17:33 (KLZ_WT21)	07:19		07:44 (SAM_WT11)	08:07		08:51 (SAM_WT05)	08:01		08:53 (CBR_WT01)	08:42		11:22 (KLZ_WT19)
	21:55	134	21:24 (EVE_WT01)	21:09	110	19:23 (KLZ_WT21)	20:02	30	18:25 (KLZ_WT21)	18:55	11	09:02 (SAM_WT05)	16:59	51	16:23 (KLZ_WT22)	16:38	50	12:12 (KLZ_WT19)
16	05:48		06:34 (SAM_WT06)	06:32		17:33 (KLZ_WT21)	07:21		07:45 (SAM_WT11)	08:09		08:48 (SAM_WT05)	08:02		08:54 (CBR_WT01)	08:43		11:22 (KLZ_WT19)
	21:54	134	21:23 (EVE_WT01)	21:07	115	20:32 (EVE_WT02)	19:59	13	07:58 (SAM_WT11)	18:52	15	09:03 (SAM_WT05)	16:57	47	16:22 (KLZ_WT22)	16:38	50	12:12 (KLZ_WT19)
17	05:49		06:34 (SAM_WT06)	06:33		17:33 (KLZ_WT21)	07:22		07:47 (SAM_WT11)	08:11		08:47 (SAM_WT05)	08:04		08:54 (CBR_WT01)	08:44		11:23 (KLZ_WT19)
	21:53	136	21:22 (EVE_WT01)	21:05	119	20:34 (EVE_WT02)	19:57	11	07:58 (SAM_WT11)	18:50	24	18:22 (KLZ_WT15)	16:56	43	16:20 (KLZ_WT22)	16:38	50	12:13 (KLZ_WT19)
18	05:50		06:34 (SAM_WT06)	06:35		17:33 (KLZ_WT21)	07:24		07:48 (SAM_WT11)	08:12		08:46 (SAM_WT05)	08:06		08:54 (CBR_WT01)	08:45		11:23 (KLZ_WT19)
	21:52	136	21:21 (EVE_WT01)	21:03	121	20:35 (EVE_WT02)	19:55	8	07:56 (SAM_WT11)	18:48	25	18:20 (KLZ_WT15)	16:55	33	09:27 (CBR_WT01)	16:39	50	12:13 (KLZ_WT19)
19	05:51		06:20 (SAM_WT03)	06:37		07:52 (SAM_WT07)	07:25		07:50 (SAM_WT11)	08:14		08:45 (SAM_WT05)	08:07		08:55 (CBR_WT01)	08:45		11:23 (KLZ_WT19)
	21:51	138	21:20 (EVE_WT01)	21:01	124	20:33 (EVE_WT02)	19:53	5	07:55 (SAM_WT11)	18:46	26	18:18 (KLZ_WT15)	16:53	32	09:27 (CBR_WT01)	16:39	51	12:14 (KLZ_WT19)
20	05:52		06:21 (SAM_WT03)	06:38		07:48 (SAM_WT07)	07:27		07:52 (SAM_WT11)	08:16		08:45 (SAM_WT05)	08:09		08:56 (CBR_WT01)	08:46		11:24 (KLZ_WT19)
	21:50	139	21:19 (EVE_WT01)	20:59	131	20:32 (EVE_WT02)	19:50	1	07:53 (SAM_WT11)	18:44	25	18:17 (KLZ_WT15)	16:52	31	09:27 (CBR_WT01)	16:39	51	12:15 (KLZ_WT19)
21	05:54		06:23 (SAM_WT03)	06:40		07:45 (SAM_WT07)	07:28		08:05 (SAM_WT04)	08:17		08:44 (SAM_WT05)	08:11		08:57 (CBR_WT01)	08:47		11:24 (KLZ_WT19)
	21:49	139	21:19 (EVE_WT01)	20:57	132	20:29 (EVE_WT02)	19:48	5	08:10 (SAM_WT04)	18:42	23	18:14 (KLZ_WT15)	16:51	30	09:27 (CBR_WT01)	16:40	51	12:15 (KLZ_WT19)
22	05:55		06:24 (SAM_WT03)	06:41		07:43 (SAM_WT07)	07:30		08:02 (SAM_WT04)	08:19		08:45 (SAM_WT05)	08:12		08:58 (CBR_WT01)	08:47		11:25 (KLZ_WT19)
	21:48	138	21:17 (EVE_WT01)	20:55	135	20:28 (EVE_WT02)	19:46	10	08:12 (SAM_WT04)	18:40	20	09:05 (SAM_WT05)	16:50	29	09:27 (CBR_WT01)	16:40	51	12:16 (KLZ_WT19)
23	05:56		06:25 (SAM_WT03)	06:43		07:09 (SAM_WT08)	07:32		08:00 (SAM_WT04)	08:21		08:47 (SAM_WT05)	08:14		08:58 (CBR_WT01)	08:48		11:25 (KLZ_WT19)
	21:47	135	21:16 (EVE_WT01)	20:52	141	20:25 (EVE_WT02)	19:44	13	08:13 (SAM_WT04)	18:38	18	09:05 (SAM_WT05)	16:49	42	11:44 (KLZ_WT19)	16:41	51	12:16 (KLZ_WT19)
24	05:58		06:34 (SAM_WT06)	06:44		07:11 (SAM_WT08)	07:33		07:59 (SAM_WT04)	08:23		08:49 (SAM_WT05)	08:16		09:00 (CBR_WT01)	08:48		11:25 (KLZ_WT19)
	21:45	133	21:14 (EVE_WT01)	20:50	138	20:24 (EVE_WT02)	19:41	15	08:14 (SAM_WT04)	18:36	16	09:05 (SAM_WT05)	16:48	46	11:48 (KLZ_WT19)	16:41	51	12:16 (KLZ_WT19)
25	05:59		06:34 (SAM_WT06)	06:46		07:12 (SAM_WT08)	07:35		07:59 (SAM_WT04)	07:24		07:51 (SAM_WT05)	08:17		09:01 (CBR_WT01)	08:48		11:27 (KLZ_WT19)
	21:44	134	21:14 (EVE_WT01)	20:48	137	19:16 (KLZ_WT21)	19:39	15	08:14 (SAM_WT04)	17:34	13	08:04 (SAM_WT05)	16:47	49	11:51 (KLZ_WT19)	16:42	50	12:17 (KLZ_WT19)
26	06:00		06:34 (SAM_WT06)	06:48		07:14 (SAM_WT08)	07:36		08:01 (SAM_WT04)	07:26		07:52 (SAM_WT05)	08:19		09:02 (CBR_WT01)	08:49		11:27 (KLZ_WT19)
	21:43	132	19:26 (KLZ_WT21)	20:46	135	19:15 (KLZ_WT21)	19:37	13	08:14 (SAM_WT04)	17:32	10	08:02 (SAM_WT05)	16:46	51	11:53 (KLZ_WT19)	16:43	50	12:17 (KLZ_WT19)
27	06:02		06:34 (SAM_WT06)	06:49		07:15 (SAM_WT08)	07:38		08:03 (SAM_WT04)	07:28		07:54 (SAM_WT05)	08:20		09:04 (CBR_WT01)	08:49		11:27 (KLZ_WT19)
	21:41	132	19:26 (KLZ_WT21)	20:44	134	19:14 (KLZ_WT21)	19:34	11	08:14 (SAM_WT04)	17:30	7	08:01 (SAM_WT05)	16:45	51	11:55 (KLZ_WT19)	16:43	50	12:17 (KLZ_WT19)
28	06:03		06:36 (SAM_WT06)	06:51		07:37 (SAM_WT07)	07:40		08:04 (SAM_WT04)	07:30		07:56 (SAM_WT05)	08:22		09:06 (CBR_WT01)	08:49		11:28 (KLZ_WT19)
	21:40	130	19:26 (KLZ_WT21)	20:42	130	19:13 (KLZ_WT21)	19:32	8	08:12 (SAM_WT04)	17:28	12	16:19 (KLZ_WT22)	16:44	51	11:57 (KLZ_WT19)	16:44	49	12:17 (KLZ_WT19)
29	06:05		06:36 (SAM_WT06)	06:52		07:36 (SAM_WT07)	07:41		08:06 (SAM_WT04)	07:31		16:07 (KLZ_WT22)	08:23		09:07 (CBR_WT01)	08:49		11:28 (KLZ_WT19)
	21:38	130	19:26 (KLZ_WT21)	20:40	129	19:11 (KLZ_WT21)	19:30	6	08:12 (SAM_WT04)	17:26	15	16:22 (KLZ_WT22)	16:43	50	11:58 (KLZ_WT19)	16:45	50	12:18 (KLZ_WT19)
30	06:06		06:36 (SAM_WT06)	06:54		07:36 (SAM_WT07)	07:43		08:07 (SAM_WT04)	07:33		09:03 (CBR_WT01)	08:25		09:10 (CBR_WT01)	08:49		11:29 (KLZ_WT19)
	21:37	130	19:26 (KLZ_WT21)	20:38	127	19:10 (KLZ_WT21)	19:28	2	08:09 (SAM_WT04)	17:25	29	16:23 (KLZ_WT22)	16:43	47	11:59 (KLZ_WT19)	16:46	49	12:18 (KLZ_WT19)
31	06:08		06:37 (SAM_WT06)	06:55		07:35 (SAM_WT07)				07:35		09:00 (CBR_WT01)				08:50		11:30 (KLZ_WT19)
	21:35	130	19:27 (KLZ_WT21)	20:35	125	19:08 (KLZ_WT21)				17:23	38	16:25 (KLZ_WT22)				16:47	48	12:18 (KLZ_WT19)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		3863			3890			1432			329			1472			1491	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,63			0,63			0,59			0,59			0,62	
Total reduction		0,28			0,29			0,27			0,21			0,15			0,14	
Total, real		1082			1117			381			69			228			204	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		13:56 (KLZ_WT19)	08:24		09:44 (CBR_WT01)	07:32		09:13 (CBR_WT01)	07:23		07:45 (SAM_WT04)	06:20		06:56 (SAM_WT11)	05:36		06:04 (SAM_WT02)
	16:48	81	15:53 (KLZ_WT10)	17:35	100	17:06 (KLZ_WT08)	18:25	139	17:50 (KLZ_WT22)	20:17	8	07:53 (SAM_WT04)	21:06	23	20:38 (EVE_WT02)	21:50	67	21:19 (EVE_WT01)
2	08:49		13:56 (KLZ_WT19)	08:22		09:36 (CBR_WT01)	07:30		09:13 (CBR_WT01)	07:21		07:43 (SAM_WT04)	06:18		06:42 (SAM_WT08)	05:36		06:04 (SAM_WT02)
	16:49	82	15:54 (KLZ_WT10)	17:36	117	17:07 (KLZ_WT08)	18:26	135	17:50 (KLZ_WT22)	20:19	12	07:55 (SAM_WT04)	21:08	26	20:40 (EVE_WT02)	21:52	72	21:20 (EVE_WT01)
3	08:49		13:55 (KLZ_WT19)	08:21		09:33 (CBR_WT01)	07:28		07:52 (SAM_WT05)	07:19		07:41 (SAM_WT04)	06:16		06:40 (SAM_WT08)	05:35		06:03 (SAM_WT02)
	16:50	84	15:54 (KLZ_WT10)	17:38	124	17:08 (KLZ_WT08)	18:28	138	17:50 (KLZ_WT22)	20:20	14	07:55 (SAM_WT04)	21:09	26	20:41 (EVE_WT02)	21:53	76	21:21 (EVE_WT01)
4	08:49		13:55 (KLZ_WT19)	08:19		09:31 (CBR_WT01)	07:26		07:50 (SAM_WT05)	07:16		07:39 (SAM_WT04)	06:15		06:39 (SAM_WT08)	05:34		06:19 (SAM_WT07)
	16:51	85	15:55 (KLZ_WT10)	17:40	131	17:09 (KLZ_WT08)	18:30	135	17:50 (KLZ_WT22)	20:22	17	07:56 (SAM_WT04)	21:11	25	20:43 (EVE_WT02)	21:54	77	21:21 (EVE_WT01)
5	08:49		13:56 (KLZ_WT19)	08:18		09:29 (CBR_WT01)	07:24		07:47 (SAM_WT05)	07:14		07:37 (SAM_WT04)	06:13		06:37 (SAM_WT08)	05:33		06:19 (SAM_WT07)
	16:52	87	15:56 (KLZ_WT10)	17:42	134	17:08 (KLZ_WT08)	18:32	127	17:48 (KLZ_WT22)	20:24	19	07:56 (SAM_WT04)	21:13	21	20:44 (EVE_WT02)	21:55	79	21:23 (EVE_WT01)
6	08:49		13:55 (KLZ_WT19)	08:16		09:26 (CBR_WT01)	07:21		07:45 (SAM_WT05)	07:12		07:35 (SAM_WT04)	06:11		06:35 (SAM_WT08)	05:33		06:17 (SAM_WT07)
	16:54	88	15:56 (KLZ_WT10)	17:44	137	17:07 (KLZ_WT08)	18:33	116	17:47 (KLZ_WT22)	20:25	20	07:55 (SAM_WT04)	21:14	13	20:44 (EVE_WT02)	21:55	83	21:23 (EVE_WT01)
7	08:48		13:55 (KLZ_WT19)	08:14		09:25 (CBR_WT01)	07:19		07:44 (SAM_WT05)	07:10		07:35 (SAM_WT04)	06:09		06:34 (SAM_WT08)	05:32		06:17 (SAM_WT07)
	16:55	89	15:57 (KLZ_WT10)	17:45	137	17:06 (KLZ_WT08)	18:35	92	17:46 (KLZ_WT22)	20:27	20	07:55 (SAM_WT04)	21:16	8	06:42 (SAM_WT08)	21:56	84	21:24 (EVE_WT01)
8	08:48		13:55 (KLZ_WT19)	08:13		09:24 (CBR_WT01)	07:17		07:43 (SAM_WT05)	07:08		07:35 (SAM_WT04)	06:08		06:32 (SAM_WT08)	05:32		06:16 (SAM_WT07)
	16:56	90	15:57 (KLZ_WT10)	17:47	133	17:04 (KLZ_WT08)	18:37	87	17:44 (KLZ_WT22)	20:28	19	07:54 (SAM_WT04)	21:17	9	06:41 (SAM_WT08)	21:57	87	21:25 (EVE_WT01)
9	08:47		13:55 (KLZ_WT19)	08:11		09:22 (CBR_WT01)	07:15		07:41 (SAM_WT05)	07:05		07:35 (SAM_WT04)	06:06		06:31 (SAM_WT08)	05:31		06:16 (SAM_WT07)
	16:58	92	15:58 (KLZ_WT10)	17:49	135	15:20 (KLZ_WT19)	18:39	78	17:40 (KLZ_WT22)	20:30	18	07:53 (SAM_WT04)	21:19	10	06:41 (SAM_WT08)	21:58	88	21:26 (EVE_WT01)
10	08:47		13:55 (KLZ_WT19)	08:09		09:21 (CBR_WT01)	07:13		07:41 (SAM_WT05)	07:03		07:36 (SAM_WT04)	06:04		06:29 (SWB_WT01_RP)	05:31		06:16 (SAM_WT07)
	16:59	92	15:58 (KLZ_WT10)	17:51	137	15:20 (KLZ_WT19)	18:40	69	09:59 (CBR_WT01)	20:32	16	07:52 (SAM_WT04)	21:20	6	06:38 (SAM_WT08)	21:59	89	21:27 (EVE_WT01)
11	08:46		13:54 (KLZ_WT19)	08:08		09:20 (CBR_WT01)	07:10		07:41 (SAM_WT05)	07:01		07:37 (SAM_WT04)	06:03		06:28 (SWB_WT01_RP)	05:31		06:16 (SAM_WT07)
	17:00	94	15:58 (KLZ_WT10)	17:53	138	15:20 (KLZ_WT19)	18:42	67	18:17 (KLZ_WT15)	20:33	12	07:49 (SAM_WT04)	21:22	1	06:29 (SWB_WT01_RP)	22:00	91	21:28 (EVE_WT01)
12	08:46		13:54 (KLZ_WT19)	08:06		09:19 (CBR_WT01)	07:08		07:41 (SAM_WT05)	06:59		07:39 (SAM_WT04)	06:01			05:30		06:16 (SAM_WT07)
	17:02	96	15:59 (KLZ_WT10)	17:54	140	15:20 (KLZ_WT19)	18:44	64	18:19 (KLZ_WT15)	20:35	7	07:46 (SAM_WT04)	21:24			22:00	90	21:27 (EVE_WT01)
13	08:45		13:54 (KLZ_WT19)	08:04		09:18 (CBR_WT01)	07:06		07:40 (SAM_WT05)	06:57			05:59			05:30		06:16 (SAM_WT07)
	17:03	97	16:00 (KLZ_WT10)	17:56	142	15:20 (KLZ_WT19)	18:45	59	18:20 (KLZ_WT15)	20:37			21:25			22:01	91	21:27 (EVE_WT01)
14	08:44		13:54 (KLZ_WT19)	08:02		09:17 (CBR_WT01)	07:04		07:40 (SAM_WT05)	06:55			05:58		20:56 (KLZ_WT13)	05:30		06:16 (SAM_WT07)
	17:05	98	16:32 (NES_WT01)	17:58	143	15:19 (KLZ_WT19)	18:47	47	18:21 (KLZ_WT15)	20:38			21:27	1	20:57 (KLZ_WT13)	22:01	90	21:27 (EVE_WT01)
15	08:44		13:54 (KLZ_WT19)	08:00		09:16 (CBR_WT01)	07:02		07:41 (SAM_WT05)	06:52			05:56		20:28 (KLZ_WT21)	05:30		06:16 (SAM_WT07)
	17:06	100	16:34 (NES_WT01)	18:00	143	15:19 (KLZ_WT19)	18:49	27	08:08 (SAM_WT05)	20:40			21:28	6	20:59 (KLZ_WT13)	22:02	90	21:26 (EVE_WT01)
16	08:43		13:54 (KLZ_WT19)	07:58		09:16 (CBR_WT01)	06:59		07:41 (SAM_WT05)	06:50		07:13 (SAM_WT11)	05:55		20:22 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:08	101	16:36 (NES_WT01)	18:02	144	15:19 (KLZ_WT19)	18:50	26	08:07 (SAM_WT05)	20:42	3	07:16 (SAM_WT11)	21:30	20	21:00 (KLZ_WT13)	22:03	89	21:26 (EVE_WT01)
17	08:42		13:53 (KLZ_WT19)	07:56		09:15 (CBR_WT01)	06:57		07:41 (SAM_WT05)	06:48		07:11 (SAM_WT11)	05:53		20:19 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:09	103	16:37 (NES_WT01)	18:03	143	15:18 (KLZ_WT19)	18:52	24	08:05 (SAM_WT05)	20:43	7	07:18 (SAM_WT11)	21:31	26	21:01 (KLZ_WT13)	22:03	87	21:02 (KLZ_WT21)
18	08:41		13:53 (KLZ_WT19)	07:55		09:15 (CBR_WT01)	06:55		07:43 (SAM_WT05)	06:46		07:09 (SAM_WT11)	05:52		20:17 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:11	100	16:00 (KLZ_WT10)	18:05	144	15:18 (KLZ_WT19)	18:54	20	08:03 (SAM_WT05)	20:45	10	07:19 (SAM_WT11)	21:32	31	21:02 (KLZ_WT13)	22:03	87	21:02 (KLZ_WT21)
19	08:40		13:53 (KLZ_WT19)	07:53		09:14 (CBR_WT01)	06:53		07:44 (SAM_WT05)	06:44		07:07 (SAM_WT11)	05:51		20:15 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:12	100	16:00 (KLZ_WT10)	18:07	143	15:17 (KLZ_WT19)	18:55	17	08:01 (SAM_WT05)	20:47	13	07:20 (SAM_WT11)	21:34	36	21:04 (KLZ_WT13)	22:04	88	21:03 (KLZ_WT21)
20	08:39		13:52 (KLZ_WT19)	07:51		09:14 (CBR_WT01)	06:50		07:47 (SAM_WT05)	06:42		07:05 (SAM_WT11)	05:49		20:14 (KLZ_WT21)	05:30		06:16 (SAM_WT07)
	17:14	100	15:59 (KLZ_WT10)	18:09	144	17:42 (KLZ_WT16)	18:57	11	07:58 (SAM_WT05)	20:48	16	07:21 (SAM_WT11)	21:35	40	21:06 (KLZ_WT13)	22:04	88	21:03 (KLZ_WT21)
21	08:38		13:52 (KLZ_WT19)	07:49		09:13 (CBR_WT01)	06:48			06:40		07:03 (SAM_WT11)	05:48		20:12 (KLZ_WT21)	05:30		06:16 (SAM_WT07)
	17:16	100	15:59 (KLZ_WT10)	18:11	143	17:44 (KLZ_WT16)	18:59			20:50	18	07:21 (SAM_WT11)	21:37	42	21:06 (KLZ_WT13)	22:04	88	21:03 (KLZ_WT21)
22	08:37		13:52 (KLZ_WT19)	07:47		09:13 (CBR_WT01)	06:46			06:38		07:01 (SAM_WT11)	05:47		20:11 (KLZ_WT21)	05:30		06:17 (SAM_WT07)
	17:17	99	15:59 (KLZ_WT10)	18:12	139	15:15 (KLZ_WT19)	19:00			20:52	21	07:22 (SAM_WT11)	21:38	44	21:06 (KLZ_WT13)	22:05	88	21:04 (KLZ_WT21)
23	08:36		13:52 (KLZ_WT19)	07:45		09:13 (CBR_WT01)	06:43			06:36		06:59 (SAM_WT11)	05:46		20:10 (KLZ_WT21)	05:30		06:17 (SAM_WT07)
	17:19	99	15:59 (KLZ_WT10)	18:14	148	17:45 (KLZ_WT22)	19:02			20:53	23	07:22 (SAM_WT11)	21:39	42	21:04 (KLZ_WT13)	22:05	88	21:04 (KLZ_WT21)
24	08:35		13:51 (KLZ_WT19)	07:43		09:13 (CBR_WT01)	06:41			06:34		06:57 (SAM_WT11)	05:44		20:10 (KLZ_WT21)	05:30		06:17 (SAM_WT07)
	17:21	96	15:57 (KLZ_WT10)	18:16	151	17:47 (KLZ_WT22)	19:04			20:55	25	07:22 (SAM_WT11)	21:41	40	20:50 (KLZ_WT21)	22:05	87	21:03 (KLZ_WT21)
25	08:33		13:52 (KLZ_WT19)	07:40		09:13 (CBR_WT01)	06:39			06:32		06:55 (SAM_WT11)	05:43		20:09 (KLZ_WT21)	05:31		06:18 (SAM_WT07)
	17:22	92	15:56 (KLZ_WT10)	18:18	151	17:48 (KLZ_WT22)	19:05			20:56	26	07:21 (SAM_WT11)	21:42	42	20:51 (KLZ_WT21)	22:05	87	21:04 (KLZ_WT21)
26	08:32		13:52 (KLZ_WT19)	07:38		09:13 (CBR_WT01)	06:37			06:30		06:54 (SAM_WT11)	05:42		20:08 (KLZ_WT21)	05:31		06:18 (SAM_WT07)
	17:24	84	15:52 (KLZ_WT10)	18:19	150	17:49 (KLZ_WT22)	19:07			20:58	27	07:21 (SAM_WT11)	21:43	44	20:52 (KLZ_WT21)	22:05	88	21:28 (EVE_WT01)
27	08:31		13:51 (KLZ_WT19)	07:36		09:12 (CBR_WT01)	06:34			06:28		06:54 (SAM_WT11)	05:41		20:08 (KLZ_WT21)	05:32		06:18 (SAM_WT07)
	17:26	84	15:15 (KLZ_WT19)	18:21	148	17:49 (KLZ_WT22)	19:09			21:00	26	07:20 (SAM_WT11)	21:45	45	20:53 (KLZ_WT21)	22:05	90	21:28 (EVE_WT01)
28	08:30		13:51 (KLZ_WT19)	07:34		09:13 (CBR_WT01)	06:32			06:26		06:54 (SAM_WT11)	05:40		20:07 (KLZ_WT21)	05:32		06:19 (SAM_WT07)
	17:28	85	15:16 (KLZ_WT19)	18:23	145	17:50 (KLZ_WT22)	19:10			21:01	26	07:20 (SAM_WT11)	21:46	46	20:53 (KLZ_WT21)	22:05	90	21:30 (EVE_WT01)
29	08:28		13:51 (KLZ_WT19)				07:30			06:24		06:55 (SAM_WT11)	05:39		06:07 (SAM_WT02)	05:33		06:19 (SAM_WT07)
	17:29	86	16:59 (KLZ_WT08)				20:12			21:03	25	07:20 (SAM_WT11)	21:47	48	20:55 (KLZ_WT21)	22:05	90	21:30 (EVE_WT01)
30	08:27		13:51 (KLZ_WT19)				07:28			06:22		06:55 (SAM_WT11)	05:38		06:06 (SAM_WT02)	05:33		06:20 (SAM_WT07)
	17:31	91	17:01 (KLZ_WT08)				20:14			21:05	25	20:37 (EVE_WT02)	21:48	50	21:17 (EVE_WT01)	22:04	90	21:31 (EVE_WT01)
31	08:25		13:51 (KLZ_WT19)				07:25		07:48 (SAM_WT04)				05:37		06:05 (SAM_WT02)			
	17:33	94	17:03 (KLZ_WT08)				20:15	4	07:52 (SAM_WT04)				21:49	59	21:18 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		2869			3884			1482			473			830			2579	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,72			0,66			0,59			0,64			0,58			0,60	
Total reduction		0,17			0,19			0,22			0,29			0,26			0,26	
Total, real		501			747			325			137			213			674	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:21 (SAM_WT07)	06:09			06:57		07:37 (SAM_WT04)	07:44		08:20 (SAM_WT05)	07:36		08:51 (CBR_WT01)	08:26		13:36 (KLZ_WT19)
	22:04	91	21:32 (EVE_WT01)	21:34			20:33	12	07:49 (SAM_WT04)	19:25	62	18:58 (KLZ_WT15)	17:21	137	14:50 (KLZ_WT19)	16:42	94	15:40 (KLZ_WT10)
2	05:34		06:20 (SAM_WT07)	06:10		06:39 (SWB_WT01_RP)	06:59		07:34 (SAM_WT04)	07:46		08:20 (SAM_WT05)	07:38		08:52 (CBR_WT01)	08:27		13:38 (KLZ_WT19)
	22:04	90	21:31 (EVE_WT01)	21:32	1	06:40 (SWB_WT01_RP)	20:31	16	07:50 (SAM_WT04)	19:23	65	18:56 (KLZ_WT15)	17:19	135	14:50 (KLZ_WT19)	16:41	92	15:41 (KLZ_WT10)
3	05:35		06:21 (SAM_WT07)	06:12		06:40 (SWB_WT01_RP)	07:00		07:33 (SAM_WT04)	07:48		08:19 (SAM_WT05)	07:40		08:53 (CBR_WT01)	08:29		13:38 (KLZ_WT19)
	22:03	89	21:31 (EVE_WT01)	21:30	9	06:50 (SAM_WT08)	20:29	18	07:51 (SAM_WT04)	19:21	68	18:54 (KLZ_WT15)	17:17	136	16:34 (KLZ_WT08)	16:41	92	15:41 (KLZ_WT10)
4	05:36		06:22 (SAM_WT07)	06:13		06:41 (SAM_WT08)	07:02		07:32 (SAM_WT04)	07:49		08:19 (SAM_WT05)	07:42		08:55 (CBR_WT01)	08:30		13:40 (KLZ_WT19)
	22:03	88	21:31 (EVE_WT01)	21:29	9	06:50 (SAM_WT08)	20:27	19	07:51 (SAM_WT04)	19:19	70	10:38 (CBR_WT01)	17:16	136	16:36 (KLZ_WT08)	16:40	90	15:42 (KLZ_WT10)
5	05:37		06:22 (SAM_WT07)	06:15		06:43 (SAM_WT08)	07:03		07:32 (SAM_WT04)	07:51		08:20 (SAM_WT05)	07:43		08:56 (CBR_WT01)	08:31		13:40 (KLZ_WT19)
	22:03	86	21:30 (EVE_WT01)	21:27	9	06:52 (SAM_WT08)	20:24	20	07:52 (SAM_WT04)	19:16	83	18:20 (KLZ_WT22)	17:14	136	16:37 (KLZ_WT08)	16:40	90	15:42 (KLZ_WT10)
6	05:37		06:23 (SAM_WT07)	06:16		06:44 (SAM_WT08)	07:05		07:31 (SAM_WT04)	07:52		08:19 (SAM_WT05)	07:45		08:59 (CBR_WT01)	08:33		13:41 (KLZ_WT19)
	22:02	85	21:30 (EVE_WT01)	21:25	11	20:53 (EVE_WT02)	20:22	20	07:51 (SAM_WT04)	19:14	89	18:21 (KLZ_WT22)	17:12	132	16:38 (KLZ_WT08)	16:39	88	15:42 (KLZ_WT10)
7	05:38		06:25 (SAM_WT07)	06:18		06:46 (SAM_WT08)	07:06		07:32 (SAM_WT04)	07:54		08:20 (SAM_WT05)	07:47		09:01 (CBR_WT01)	08:34		13:42 (KLZ_WT19)
	22:02	81	21:29 (EVE_WT01)	21:23	14	20:55 (EVE_WT02)	20:20	19	07:51 (SAM_WT04)	19:12	106	18:23 (KLZ_WT22)	17:11	129	16:39 (KLZ_WT08)	16:39	87	15:42 (KLZ_WT10)
8	05:39		06:26 (SAM_WT07)	06:20		06:47 (SAM_WT08)	07:08		07:33 (SAM_WT04)	07:56		08:22 (SAM_WT05)	07:49		09:04 (CBR_WT01)	08:35		13:43 (KLZ_WT19)
	22:01	79	21:29 (EVE_WT01)	21:22	22	20:53 (EVE_WT02)	20:18	17	07:50 (SAM_WT04)	19:10	123	18:24 (KLZ_WT22)	17:09	124	16:39 (KLZ_WT08)	16:39	85	15:43 (KLZ_WT10)
9	05:40		06:27 (SAM_WT07)	06:21		06:48 (SAM_WT08)	07:10		07:35 (SAM_WT04)	07:57		08:23 (SAM_WT05)	07:50		09:08 (CBR_WT01)	08:36		13:44 (KLZ_WT19)
	22:00	76	21:29 (EVE_WT01)	21:20	25	20:51 (EVE_WT02)	20:15	15	07:50 (SAM_WT04)	19:08	131	18:23 (KLZ_WT22)	17:07	115	16:38 (KLZ_WT08)	16:38	84	15:43 (KLZ_WT10)
10	05:41		06:11 (SAM_WT02)	06:23		06:50 (SAM_WT08)	07:11		07:36 (SAM_WT04)	07:59		08:25 (SAM_WT05)	07:52		13:22 (KLZ_WT19)	08:37		13:45 (KLZ_WT19)
	22:00	74	21:28 (EVE_WT01)	21:18	25	20:50 (EVE_WT02)	20:13	12	07:48 (SAM_WT04)	19:05	137	18:24 (KLZ_WT22)	17:06	96	16:36 (KLZ_WT08)	16:38	82	15:43 (KLZ_WT10)
11	05:42		06:12 (SAM_WT02)	06:24		07:05 (SAM_WT11)	07:13		07:38 (SAM_WT04)	08:01		08:29 (SAM_WT05)	07:54		13:22 (KLZ_WT19)	08:38		13:46 (KLZ_WT19)
	21:59	68	21:27 (EVE_WT01)	21:16	24	20:48 (EVE_WT02)	20:11	9	07:47 (SAM_WT04)	19:03	136	18:24 (KLZ_WT22)	17:04	93	16:34 (KLZ_WT08)	16:38	81	15:43 (KLZ_WT10)
12	05:43		06:13 (SAM_WT02)	06:26		07:04 (SAM_WT11)	07:14		07:39 (SAM_WT04)	08:02		09:46 (CBR_WT01)	07:56		13:22 (KLZ_WT19)	08:39		13:46 (KLZ_WT19)
	21:58	62	21:27 (EVE_WT01)	21:14	24	20:46 (EVE_WT02)	20:09	5	07:44 (SAM_WT04)	19:01	137	18:23 (KLZ_WT22)	17:03	90	16:32 (KLZ_WT08)	16:38	80	15:43 (KLZ_WT10)
13	05:44		06:14 (SAM_WT02)	06:27		07:03 (SAM_WT11)	07:16			08:04		09:46 (CBR_WT01)	07:57		13:23 (KLZ_WT19)	08:40		13:47 (KLZ_WT19)
	21:57	52	21:26 (EVE_WT01)	21:12	23	07:26 (SAM_WT11)	20:06			18:59	142	18:23 (KLZ_WT22)	17:01	86	16:31 (KLZ_WT08)	16:38	80	15:44 (KLZ_WT10)
14	05:45		06:15 (SAM_WT02)	06:29		07:02 (SAM_WT11)	07:17			08:06		09:46 (CBR_WT01)	07:59		13:23 (KLZ_WT19)	08:41		13:48 (KLZ_WT19)
	21:56	49	21:25 (EVE_WT01)	21:11	25	07:27 (SAM_WT11)	20:04			18:57	146	18:23 (KLZ_WT22)	17:00	85	14:48 (KLZ_WT19)	16:38	78	15:44 (KLZ_WT10)
15	05:46		20:16 (KLZ_WT21)	06:30		07:01 (SAM_WT11)	07:19			08:07		09:46 (CBR_WT01)	08:01		13:24 (KLZ_WT19)	08:42		13:49 (KLZ_WT19)
	21:55	47	21:03 (KLZ_WT21)	21:09	26	07:27 (SAM_WT11)	20:02			18:55	148	18:22 (KLZ_WT22)	16:59	84	14:48 (KLZ_WT19)	16:38	76	15:44 (KLZ_WT10)
16	05:48		20:17 (KLZ_WT21)	06:32		07:01 (SAM_WT11)	07:21			08:09		09:44 (CBR_WT01)	08:02		13:25 (KLZ_WT19)	08:43		13:50 (KLZ_WT19)
	21:54	45	21:02 (KLZ_WT21)	21:07	27	07:28 (SAM_WT11)	19:59			18:52	150	18:20 (KLZ_WT22)	16:57	85	15:25 (KLZ_WT10)	16:38	76	15:45 (KLZ_WT10)
17	05:49		20:18 (KLZ_WT21)	06:33		07:00 (SAM_WT11)	07:22			08:11		09:44 (CBR_WT01)	08:04		13:26 (KLZ_WT19)	08:44		13:51 (KLZ_WT19)
	21:53	44	21:02 (KLZ_WT21)	21:05	28	07:28 (SAM_WT11)	19:57			18:50	151	18:19 (KLZ_WT22)	16:56	93	15:30 (KLZ_WT10)	16:38	76	15:46 (KLZ_WT10)
18	05:50		20:18 (KLZ_WT21)	06:35		07:02 (SAM_WT11)	07:24			08:12		09:44 (CBR_WT01)	08:06		13:25 (KLZ_WT19)	08:45		13:51 (KLZ_WT19)
	21:52	43	21:01 (KLZ_WT21)	21:03	26	07:28 (SAM_WT11)	19:55			18:48	151	18:17 (KLZ_WT22)	16:55	96	15:31 (KLZ_WT10)	16:39	74	15:45 (KLZ_WT10)
19	05:51		20:19 (KLZ_WT21)	06:37		07:03 (SAM_WT11)	07:25			08:14		09:45 (CBR_WT01)	08:07		13:26 (KLZ_WT19)	08:45		13:52 (KLZ_WT19)
	21:51	41	21:00 (KLZ_WT21)	21:01	24	07:27 (SAM_WT11)	19:53			18:46	147	18:15 (KLZ_WT22)	16:53	99	15:33 (KLZ_WT10)	16:39	74	15:46 (KLZ_WT10)
20	05:52		20:20 (KLZ_WT21)	06:38		07:05 (SAM_WT11)	07:27			08:16		09:45 (CBR_WT01)	08:09		13:27 (KLZ_WT19)	08:46		13:53 (KLZ_WT19)
	21:50	39	20:59 (KLZ_WT21)	20:59	22	07:27 (SAM_WT11)	19:50			18:44	142	18:17 (KLZ_WT16)	16:52	99	15:34 (KLZ_WT10)	16:39	74	15:47 (KLZ_WT10)
21	05:54		20:21 (KLZ_WT21)	06:40		07:06 (SAM_WT11)	07:28			08:17		09:44 (CBR_WT01)	08:11		13:28 (KLZ_WT19)	08:46		13:53 (KLZ_WT19)
	21:49	44	21:16 (KLZ_WT13)	20:57	20	07:26 (SAM_WT11)	19:48			18:42	145	18:14 (KLZ_WT16)	16:51	100	15:35 (KLZ_WT10)	16:40	74	15:47 (KLZ_WT10)
22	05:55		20:22 (KLZ_WT21)	06:41		07:08 (SAM_WT11)	07:30			08:19		09:44 (CBR_WT01)	08:12		13:29 (KLZ_WT19)	08:47		13:54 (KLZ_WT19)
	21:48	44	21:17 (KLZ_WT13)	20:55	18	07:26 (SAM_WT11)	19:46			18:40	144	18:12 (KLZ_WT16)	16:50	100	15:36 (KLZ_WT10)	16:40	74	15:48 (KLZ_WT10)
23	05:56		20:23 (KLZ_WT21)	06:43		07:09 (SAM_WT11)	07:32		08:32 (SAM_WT05)	08:21		09:45 (CBR_WT01)	08:14		13:29 (KLZ_WT19)	08:48		13:54 (KLZ_WT19)
	21:46	41	21:16 (KLZ_WT13)	20:52	16	07:25 (SAM_WT11)	19:43	9	08:41 (SAM_WT05)	18:38	143	15:48 (KLZ_WT19)	16:49	100	15:36 (KLZ_WT10)	16:41	74	15:48 (KLZ_WT10)
24	05:58		20:24 (KLZ_WT21)	06:44		07:11 (SAM_WT11)	07:33		08:29 (SAM_WT05)	08:23		09:45 (CBR_WT01)	08:15		13:30 (KLZ_WT19)	08:48		13:54 (KLZ_WT19)
	21:45	38	21:14 (KLZ_WT13)	20:50	13	07:24 (SAM_WT11)	19:41	15	08:44 (SAM_WT05)	18:36	143	15:48 (KLZ_WT19)	16:48	100	15:37 (KLZ_WT10)	16:41	74	15:48 (KLZ_WT10)
25	05:59		20:27 (KLZ_WT21)	06:46		07:12 (SAM_WT11)	07:35		08:26 (SAM_WT05)	07:24		08:46 (CBR_WT01)	08:17		13:31 (KLZ_WT19)	08:48		13:55 (KLZ_WT19)
	21:44	34	21:14 (KLZ_WT13)	20:48	10	07:22 (SAM_WT11)	19:39	19	08:45 (SAM_WT05)	17:34	144	14:49 (KLZ_WT19)	16:47	103	16:15 (NES_WT01)	16:42	74	15:49 (KLZ_WT10)
26	06:00		20:28 (KLZ_WT21)	06:48		07:14 (SAM_WT11)	07:36		08:24 (SAM_WT05)	07:26		08:45 (CBR_WT01)	08:19		13:32 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:42	30	21:12 (KLZ_WT13)	20:46	7	07:21 (SAM_WT11)	19:37	23	08:47 (SAM_WT05)	17:32	144	14:48 (KLZ_WT19)	16:46	101	16:14 (NES_WT01)	16:43	75	15:49 (KLZ_WT10)
27	06:02		20:30 (KLZ_WT21)	06:49		07:15 (SAM_WT11)	07:38		08:23 (SAM_WT05)	07:28		08:46 (CBR_WT01)	08:20		13:33 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:41	24	21:11 (KLZ_WT13)	20:44	2	07:17 (SAM_WT11)	19:34	25	08:48 (SAM_WT05)	17:30	144	14:49 (KLZ_WT19)	16:45	100	16:13 (NES_WT01)	16:43	76	15:50 (KLZ_WT10)
28	06:03		20:34 (KLZ_WT21)	06:51			07:40		08:22 (SAM_WT05)	07:30		08:47 (CBR_WT01)	08:22		13:34 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:40	15	21:10 (KLZ_WT13)	20:42			19:32	26	08:48 (SAM_WT05)	17:28	142	14:49 (KLZ_WT19)	16:44	98	16:12 (NES_WT01)	16:44	77	15:50 (KLZ_WT10)
29	06:05		21:07 (KLZ_WT13)	06:52			07:41		08:21 (SAM_WT05)	07:31		08:48 (CBR_WT01)	08:23		13:34 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:38	1	21:08 (KLZ_WT13)	20:40			19:30	40	10:24 (CBR_WT01)	17:26	141	14:49 (KLZ_WT19)	16:43	98	15:40 (KLZ_WT10)	16:45	78	15:51 (KLZ_WT10)
30	06:06			06:54			07:43		08:20 (SAM_WT05)	07:33		08:49 (CBR_WT01)	08:25		13:36 (KLZ_WT19)	08:49		13:55 (KLZ_WT19)
	21:37			20:38			19:28	54	19:00 (KLZ_WT15)	17:25	141	14:50 (KLZ_WT19)	16:43	96	15:41 (KLZ_WT10)	16:46	78	15:51 (KLZ_WT10)
31	06:08			06:55		07:39 (SAM_WT04)				07:35		08:50 (CBR_WT01)				08:49		13:55 (KLZ_WT19)
	21:35			20:35	8	07:47 (SAM_WT04)				17:23	139	14:50 (KLZ_WT19)				16:47	80	15:52 (KLZ_WT10)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1600			468			393			3954			3182			2487	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,58			0,64			0,59			0,63			0,70			0,72	
Total reduction		0,25			0,29			0,25			0,22			0,18			0,16	
Total, real		407			137			98			883			584			395	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	08:49	08:24		17:05 (NES_WT01)	07:32		13:53 (CBR_WT01)	07:23		08:19 (SAM_WT05)	06:20		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:48	17:35	1	17:06 (NES_WT01)	18:25	98	17:51 (KLZ_WT10)	20:17	230	18:47 (KLZ_WT19)	21:06	110	20:38 (EVE_WT02)	21:50	47	20:50 (KLZ_WT21)
2	08:49	08:22			07:30		13:51 (CBR_WT01)	07:21		08:19 (SAM_WT05)	06:18		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:49	17:36			18:26	102	17:51 (KLZ_WT10)	20:19	226	18:46 (KLZ_WT19)	21:08	106	20:40 (EVE_WT02)	21:51	47	20:51 (KLZ_WT21)
3	08:49	08:21			07:28		13:49 (CBR_WT01)	07:19		08:19 (SAM_WT05)	06:16		06:53 (SAM_WT04)	05:35		06:03 (SAM_WT08)
	16:50	17:38			18:28	104	17:50 (KLZ_WT10)	20:20	221	18:43 (KLZ_WT19)	21:09	102	20:41 (EVE_WT02)	21:53	47	20:50 (KLZ_WT21)
4	08:49	08:19			07:26		13:47 (CBR_WT01)	07:16		08:19 (SAM_WT05)	06:15		06:53 (SAM_WT04)	05:34		06:02 (SAM_WT08)
	16:51	17:40			18:30	109	17:49 (KLZ_WT10)	20:22	216	18:41 (KLZ_WT19)	21:11	96	16:17 (CBR_WT01)	21:54	49	20:50 (KLZ_WT21)
5	08:49	08:18			07:24		13:44 (CBR_WT01)	07:14		08:19 (SAM_WT05)	06:13		06:53 (SAM_WT04)	05:33		06:02 (SAM_WT08)
	16:52	17:42			18:32	116	17:46 (KLZ_WT10)	20:24	207	18:37 (KLZ_WT19)	21:13	102	20:41 (KLZ_WT21)	21:55	49	20:50 (KLZ_WT21)
6	08:49	08:16			07:21		13:43 (CBR_WT01)	07:12		08:18 (SAM_WT05)	06:11		06:53 (SAM_WT04)	05:33		06:01 (SAM_WT08)
	16:54	17:44			18:33	125	17:48 (KLZ_WT19)	20:25	192	16:34 (CBR_WT01)	21:14	101	20:43 (KLZ_WT21)	21:55	49	20:49 (KLZ_WT21)
7	08:48	08:14			07:19		13:41 (CBR_WT01)	07:10		08:18 (SAM_WT05)	06:09		06:54 (SAM_WT04)	05:32		06:01 (SAM_WT08)
	16:55	17:45			18:35	133	17:51 (KLZ_WT19)	20:27	191	16:34 (CBR_WT01)	21:16	99	20:46 (KLZ_WT21)	21:56	48	20:49 (KLZ_WT21)
8	08:48	08:13			07:17		13:40 (CBR_WT01)	07:08		08:19 (SAM_WT05)	06:08		06:55 (SAM_WT04)	05:32		06:00 (SAM_WT08)
	16:56	17:47			18:37	145	18:12 (KLZ_WT22)	20:28	189	16:34 (CBR_WT01)	21:17	95	20:47 (KLZ_WT21)	21:57	48	20:48 (KLZ_WT21)
9	08:47	08:11			07:15		13:38 (CBR_WT01)	07:05		08:19 (SAM_WT05)	06:06		06:56 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:57	17:49			18:38	155	18:13 (KLZ_WT22)	20:30	187	16:34 (CBR_WT01)	21:19	91	20:48 (KLZ_WT21)	21:58	48	20:48 (KLZ_WT21)
10	08:47	08:09			07:13		13:36 (CBR_WT01)	07:03		08:20 (SAM_WT05)	06:04		06:57 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59	17:51			18:40	164	18:15 (KLZ_WT22)	20:32	185	16:34 (CBR_WT01)	21:20	85	20:49 (KLZ_WT21)	21:59	47	20:48 (KLZ_WT21)
11	08:46	08:08			07:10		13:35 (CBR_WT01)	07:01		08:19 (SAM_WT05)	06:03		06:58 (SAM_WT04)	05:31		05:59 (SAM_WT08)
	17:00	17:53			18:42	171	18:17 (KLZ_WT22)	20:33	182	16:32 (CBR_WT01)	21:22	79	20:50 (KLZ_WT21)	21:59	47	20:47 (KLZ_WT21)
12	08:46	08:06			07:08		13:34 (CBR_WT01)	06:59		08:20 (SAM_WT05)	06:01		06:59 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02	17:54			18:44	178	18:18 (KLZ_WT22)	20:35	179	16:32 (CBR_WT01)	21:24	71	20:54 (KLZ_WT13)	22:00	47	20:47 (KLZ_WT21)
13	08:45	08:04			07:06		13:32 (CBR_WT01)	06:57		08:21 (SAM_WT05)	05:59		07:02 (SAM_WT04)	05:30		05:59 (SAM_WT11)
	17:03	17:56			18:45	182	18:17 (KLZ_WT22)	20:37	175	16:32 (CBR_WT01)	21:25	59	20:56 (KLZ_WT13)	22:01	47	20:47 (KLZ_WT21)
14	08:44	08:02			07:04		13:31 (CBR_WT01)	06:55		08:22 (SAM_WT05)	05:58		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:05	17:58			18:47	186	18:17 (KLZ_WT22)	20:38	171	16:31 (CBR_WT01)	21:27	33	20:57 (KLZ_WT13)	22:01	47	20:47 (KLZ_WT21)
15	08:44	08:00			07:01		07:50 (SAM_WT05)	06:52		08:23 (SAM_WT05)	05:56		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:06	18:00			18:49	195	18:17 (KLZ_WT22)	20:40	167	16:31 (CBR_WT01)	21:28	31	20:51 (KLZ_WT21)	22:02	46	20:47 (KLZ_WT21)
16	08:43	07:58			06:59		07:43 (SAM_WT05)	06:50		08:25 (SAM_WT05)	05:55		20:20 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:08	18:02			18:50	210	18:17 (KLZ_WT22)	20:42	161	16:31 (CBR_WT01)	21:30	32	20:52 (KLZ_WT21)	22:02	47	20:47 (KLZ_WT21)
17	08:42	07:56			06:57		07:39 (SAM_WT05)	06:48		08:26 (SAM_WT05)	05:53		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:09	18:03			18:52	217	18:15 (KLZ_WT22)	20:43	155	16:30 (CBR_WT01)	21:31	33	20:52 (KLZ_WT21)	22:03	46	20:47 (KLZ_WT21)
18	08:41	07:54			06:55		07:36 (SAM_WT05)	06:46		08:28 (SAM_WT05)	05:52		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:11	18:05			18:54	223	18:13 (KLZ_WT22)	20:45	149	16:30 (CBR_WT01)	21:32	33	20:52 (KLZ_WT21)	22:03	46	20:47 (KLZ_WT21)
19	08:40	07:53			06:52		07:34 (SAM_WT05)	06:44		08:31 (SAM_WT05)	05:51		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:12	18:07			18:55	223	18:10 (KLZ_WT22)	20:47	139	16:29 (CBR_WT01)	21:34	33	20:52 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
20	08:39	07:51			06:50		07:32 (SAM_WT05)	06:42		07:08 (SAM_WT04)	05:49		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:14	18:09			18:57	221	17:59 (KLZ_WT19)	20:48	130	16:29 (CBR_WT01)	21:35	33	20:53 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
21	08:38	07:49		14:21 (CBR_WT01)	06:48		07:30 (SAM_WT05)	06:40		07:04 (SAM_WT04)	05:48		20:19 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:16	18:11	27	14:48 (CBR_WT01)	18:59	225	17:58 (KLZ_WT19)	20:50	129	16:28 (CBR_WT01)	21:37	33	20:52 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
22	08:37	07:47		14:15 (CBR_WT01)	06:46		07:28 (SAM_WT05)	06:38		07:01 (SAM_WT04)	05:47		20:19 (KLZ_WT21)	05:30		06:00 (SAM_WT11)
	17:17	18:12	38	14:53 (CBR_WT01)	19:00	228	17:58 (KLZ_WT19)	20:51	131	16:27 (CBR_WT01)	21:38	33	20:52 (KLZ_WT21)	22:04	45	20:48 (KLZ_WT21)
23	08:36	07:45		14:11 (CBR_WT01)	06:43		07:27 (SAM_WT05)	06:36		06:59 (SAM_WT04)	05:46		20:19 (KLZ_WT21)	05:30		06:00 (SAM_WT11)
	17:19	18:14	52	17:46 (KLZ_WT10)	19:02	231	17:58 (KLZ_WT19)	20:53	131	16:27 (CBR_WT01)	21:39	33	20:52 (KLZ_WT21)	22:05	45	20:48 (KLZ_WT21)
24	08:35	07:42		14:07 (CBR_WT01)	06:41		07:25 (SAM_WT05)	06:34		06:58 (SAM_WT04)	05:44		06:11 (SWB_WT01_RP)	05:30		06:00 (SAM_WT11)
	17:21	18:16	66	17:50 (KLZ_WT08)	19:04	233	17:56 (KLZ_WT19)	20:55	130	16:26 (CBR_WT01)	21:41	34	21:10 (EVE_WT01)	22:05	46	20:48 (KLZ_WT21)
25	08:33	07:40		14:04 (CBR_WT01)	06:39		07:24 (SAM_WT05)	06:32		06:56 (SAM_WT04)	05:43		06:10 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:22	18:18	76	17:52 (KLZ_WT08)	19:05	235	17:56 (KLZ_WT19)	20:56	129	16:25 (CBR_WT01)	21:42	35	21:11 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
26	08:32	07:38		14:01 (CBR_WT01)	06:37		07:23 (SAM_WT05)	06:30		06:55 (SAM_WT04)	05:42		06:09 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:24	18:19	85	17:54 (KLZ_WT08)	19:07	236	17:55 (KLZ_WT19)	20:58	126	16:24 (CBR_WT01)	21:43	39	21:12 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
27	08:31	07:36		13:57 (CBR_WT01)	06:34		07:23 (SAM_WT05)	06:28		06:54 (SAM_WT04)	05:41		06:08 (SAM_WT08)	05:32		06:01 (SAM_WT11)
	17:26	18:21	93	17:55 (KLZ_WT08)	19:09	237	17:55 (KLZ_WT19)	21:00	123	16:23 (CBR_WT01)	21:45	40	21:13 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
28	08:30	07:34		13:55 (CBR_WT01)	06:32		07:21 (SAM_WT05)	06:26		06:54 (SAM_WT04)	05:40		06:07 (SAM_WT08)	05:32		06:02 (SAM_WT11)
	17:28	18:23	97	17:54 (KLZ_WT08)	19:10	236	17:53 (KLZ_WT19)	21:01	119	16:22 (CBR_WT01)	21:46	42	20:51 (KLZ_WT21)	22:05	47	20:50 (KLZ_WT21)
29	08:28				07:30		08:21 (SAM_WT05)	06:24		06:54 (SAM_WT04)	05:39		06:06 (SAM_WT08)	05:33		06:02 (SAM_WT11)
	17:29				20:12	234	18:52 (KLZ_WT19)	21:03	116	16:22 (CBR_WT01)	21:47	44	20:51 (KLZ_WT21)	22:05	46	20:50 (KLZ_WT21)
30	08:27				07:28		08:20 (SAM_WT05)	06:22		06:54 (SAM_WT04)	05:38		06:06 (SAM_WT08)	05:33		06:03 (SAM_WT08)
	17:31				20:14	235	18:51 (KLZ_WT19)	21:05	112	16:21 (CBR_WT01)	21:48	44	20:51 (KLZ_WT21)	22:04	47	20:51 (KLZ_WT21)
31	08:25				07:25		08:20 (SAM_WT05)				05:37		06:05 (SAM_WT08)			
	17:33				20:15	234	18:50 (KLZ_WT19)				21:49	46	20:51 (KLZ_WT21)			
Potential sun hours	262	279			367			415			482			495		
Total, worst case			535			5821			4898			1847			1401	
Sun reduction			0,30			0,38			0,46			0,46			0,44	
Oper. time red.			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.			0,72			0,69			0,70			0,64			0,67	
Total reduction			0,21			0,26			0,32			0,29			0,29	
Total, real			113			1493			1545			530			403	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November	December
1	05:34		06:04 (SAM_WT08)	06:09		07:09 (SAM_WT04)	06:57		08:19 (SAM_WT05)	07:44		14:12 (CBR_WT01)	07:36	08:26
	22:04	47	20:52 (KLZ_WT21)	21:33	74	21:00 (KLZ_WT21)	20:33	182	16:32 (CBR_WT01)	19:25	180	18:57 (KLZ_WT22)	17:21	16:42
2	05:34		06:04 (SAM_WT08)	06:10		07:07 (SAM_WT04)	06:59		08:18 (SAM_WT05)	07:46		14:13 (CBR_WT01)	07:38	08:27
	22:04	48	20:52 (KLZ_WT21)	21:32	82	20:59 (KLZ_WT21)	20:31	184	16:31 (CBR_WT01)	19:23	176	18:56 (KLZ_WT22)	17:19	16:41
3	05:35		06:05 (SAM_WT08)	06:12		07:07 (SAM_WT04)	07:00		08:17 (SAM_WT05)	07:48		14:14 (CBR_WT01)	07:40	08:29
	22:03	48	20:53 (KLZ_WT21)	21:30	87	20:59 (KLZ_WT21)	20:29	187	16:32 (CBR_WT01)	19:21	168	18:54 (KLZ_WT22)	17:17	16:41
4	05:36		06:06 (SAM_WT08)	06:13		07:05 (SAM_WT04)	07:02		08:16 (SAM_WT05)	07:49		14:15 (CBR_WT01)	07:42	08:30
	22:03	48	20:54 (KLZ_WT21)	21:29	93	20:57 (KLZ_WT21)	20:27	189	16:31 (CBR_WT01)	19:19	160	18:52 (KLZ_WT22)	17:16	16:40
5	05:37		06:06 (SAM_WT08)	06:15		07:05 (SAM_WT04)	07:03		08:15 (SAM_WT05)	07:51		14:16 (CBR_WT01)	07:43	08:31
	22:03	48	20:54 (KLZ_WT21)	21:27	97	20:57 (KLZ_WT21)	20:24	191	16:31 (CBR_WT01)	19:16	150	18:50 (KLZ_WT22)	17:14	16:40
6	05:37		06:07 (SAM_WT08)	06:16		07:04 (SAM_WT04)	07:05		08:14 (SAM_WT05)	07:52		14:17 (CBR_WT01)	07:45	08:33
	22:02	48	20:55 (KLZ_WT21)	21:25	100	20:55 (KLZ_WT21)	20:22	192	16:30 (CBR_WT01)	19:14	136	18:28 (KLZ_WT19)	17:12	16:39
7	05:38		06:08 (SAM_WT08)	06:18		07:04 (SAM_WT04)	07:06		08:14 (SAM_WT05)	07:54		14:18 (CBR_WT01)	07:47	08:34
	22:02	48	20:56 (KLZ_WT21)	21:23	102	20:53 (KLZ_WT21)	20:20	207	18:32 (KLZ_WT19)	19:12	129	18:25 (KLZ_WT19)	17:11	16:39
8	05:39		06:09 (SAM_WT08)	06:20		07:03 (SAM_WT04)	07:08		08:13 (SAM_WT05)	07:56		14:20 (CBR_WT01)	07:49	08:35
	22:01	48	20:57 (KLZ_WT21)	21:22	102	20:50 (KLZ_WT21)	20:18	216	18:35 (KLZ_WT19)	19:10	120	18:23 (KLZ_WT19)	17:09	16:39
9	05:40		06:10 (SAM_WT08)	06:21		07:02 (SAM_WT04)	07:10		08:13 (SAM_WT05)	07:57		14:20 (CBR_WT01)	07:50	08:36
	22:00	48	20:57 (KLZ_WT21)	21:20	98	20:51 (EVE_WT02)	20:15	221	18:37 (KLZ_WT19)	19:08	114	18:22 (KLZ_WT10)	17:07	16:38
10	05:41		06:11 (SAM_WT08)	06:23		07:02 (SAM_WT04)	07:11		08:12 (SAM_WT05)	07:59		14:22 (CBR_WT01)	07:52	08:37
	22:00	48	20:58 (KLZ_WT21)	21:18	103	20:50 (EVE_WT02)	20:13	227	18:39 (KLZ_WT19)	19:05	105	18:24 (KLZ_WT10)	17:06	16:38
11	05:42		06:12 (SAM_WT08)	06:24		07:01 (SAM_WT04)	07:13		08:12 (SAM_WT05)	08:01		14:24 (CBR_WT01)	07:54	08:38
	21:59	47	20:59 (KLZ_WT21)	21:16	108	20:48 (EVE_WT02)	20:11	229	18:40 (KLZ_WT19)	19:03	103	18:25 (KLZ_WT10)	17:04	16:38
12	05:43		06:13 (SAM_WT08)	06:26		07:02 (SAM_WT04)	07:14		08:11 (SAM_WT05)	08:02		14:25 (CBR_WT01)	07:56	08:39
	21:58	46	20:59 (KLZ_WT21)	21:14	110	16:29 (CBR_WT01)	20:09	233	18:41 (KLZ_WT19)	19:01	100	18:24 (KLZ_WT10)	17:03	16:38
13	05:44		06:14 (SAM_WT08)	06:27		07:01 (SAM_WT04)	07:16		08:12 (SAM_WT05)	08:04		14:27 (CBR_WT01)	07:57	08:40
	21:57	46	21:00 (KLZ_WT21)	21:12	115	16:29 (CBR_WT01)	20:06	233	18:42 (KLZ_WT19)	18:59	97	18:25 (KLZ_WT10)	17:01	16:38
14	05:45		06:15 (SAM_WT08)	06:29		07:02 (SAM_WT04)	07:17		08:11 (SAM_WT05)	08:06		14:29 (CBR_WT01)	07:59	08:41
	21:56	44	21:00 (KLZ_WT21)	21:11	118	16:30 (CBR_WT01)	20:04	236	18:42 (KLZ_WT19)	18:57	96	18:28 (KLZ_WT08)	17:00	16:38
15	05:46		06:16 (SAM_WT08)	06:30		07:01 (SAM_WT04)	07:19		08:11 (SAM_WT05)	08:07		14:32 (CBR_WT01)	08:01	08:42
	21:55	42	21:00 (KLZ_WT21)	21:09	122	16:30 (CBR_WT01)	20:02	237	18:43 (KLZ_WT19)	18:55	89	18:27 (KLZ_WT08)	16:58	16:38
16	05:48		06:17 (SAM_WT08)	06:32		07:02 (SAM_WT04)	07:21		08:11 (SAM_WT05)	08:09		14:33 (CBR_WT01)	08:02	08:43
	21:54	42	21:01 (KLZ_WT21)	21:07	124	16:31 (CBR_WT01)	19:59	236	18:43 (KLZ_WT19)	18:52	82	18:24 (KLZ_WT08)	16:57	16:38
17	05:49		06:18 (SAM_WT08)	06:33		07:02 (SAM_WT04)	07:22		08:12 (SAM_WT05)	08:11		14:36 (CBR_WT01)	08:04	08:44
	21:53	40	21:22 (EVE_WT01)	21:05	127	16:31 (CBR_WT01)	19:57	236	18:44 (KLZ_WT19)	18:50	72	18:22 (KLZ_WT08)	16:56	16:38
18	05:50		06:19 (SAM_WT08)	06:35		07:03 (SAM_WT04)	07:24		08:11 (SAM_WT05)	08:12		14:40 (CBR_WT01)	08:06	08:44
	21:52	36	21:21 (EVE_WT01)	21:03	129	16:32 (CBR_WT01)	19:55	235	18:43 (KLZ_WT19)	18:48	60	18:19 (KLZ_WT10)	16:55	16:39
19	05:51		06:20 (SWB_WT01_RP)	06:37		07:04 (SAM_WT04)	07:25		08:12 (SAM_WT05)	08:14		14:43 (CBR_WT01)	08:07	08:45
	21:51	35	21:20 (EVE_WT01)	21:01	130	16:32 (CBR_WT01)	19:53	234	18:44 (KLZ_WT19)	18:46	45	15:28 (CBR_WT01)	16:53	16:39
20	05:52		06:21 (SWB_WT01_RP)	06:38		07:05 (SAM_WT04)	07:27		08:13 (SAM_WT05)	08:16		14:47 (CBR_WT01)	08:09	08:46
	21:50	34	21:19 (EVE_WT01)	20:59	131	16:32 (CBR_WT01)	19:50	233	18:44 (KLZ_WT19)	18:44	35	15:22 (CBR_WT01)	16:52	16:39
21	05:54		20:30 (KLZ_WT21)	06:40		07:06 (SAM_WT04)	07:28		08:14 (SAM_WT05)	08:17		14:54 (CBR_WT01)	08:11	08:46
	21:49	32	21:02 (KLZ_WT21)	20:57	130	16:32 (CBR_WT01)	19:48	228	18:43 (KLZ_WT19)	18:42	22	15:16 (CBR_WT01)	16:51	16:40
22	05:55		20:30 (KLZ_WT21)	06:41		07:09 (SAM_WT04)	07:30		08:15 (SAM_WT05)	08:19			08:12	08:47
	21:48	32	21:02 (KLZ_WT21)	20:55	129	16:33 (CBR_WT01)	19:46	227	18:44 (KLZ_WT19)	18:40			16:50	16:40
23	05:56		20:29 (KLZ_WT21)	06:43		08:39 (SAM_WT05)	07:32		08:16 (SAM_WT05)	08:21			08:14	08:47
	21:46	33	21:02 (KLZ_WT21)	20:52	128	16:32 (CBR_WT01)	19:43	222	18:43 (KLZ_WT19)	18:38			16:49	16:41
24	05:58		20:29 (KLZ_WT21)	06:44		08:35 (SAM_WT05)	07:33		08:17 (SAM_WT05)	08:23			08:15	08:48
	21:45	33	21:02 (KLZ_WT21)	20:50	141	16:33 (CBR_WT01)	19:41	219	18:52 (KLZ_WT22)	18:36			16:48	16:41
25	05:59		20:30 (KLZ_WT21)	06:46		08:31 (SAM_WT05)	07:35		08:18 (SAM_WT05)	07:24			08:17	08:48
	21:44	33	21:03 (KLZ_WT21)	20:48	149	16:32 (CBR_WT01)	19:39	222	18:55 (KLZ_WT22)	17:34			16:47	16:42
26	06:00		20:30 (KLZ_WT21)	06:48		08:29 (SAM_WT05)	07:36		08:21 (SAM_WT05)	07:26			08:19	08:49
	21:42	32	21:02 (KLZ_WT21)	20:46	156	16:33 (CBR_WT01)	19:37	219	18:57 (KLZ_WT22)	17:32			16:46	16:43
27	06:02		20:29 (KLZ_WT21)	06:49		08:26 (SAM_WT05)	07:38		08:24 (SAM_WT05)	07:28			08:20	08:49
	21:41	33	21:02 (KLZ_WT21)	20:44	162	16:32 (CBR_WT01)	19:34	212	18:58 (KLZ_WT22)	17:30			16:45	16:43
28	06:03		20:30 (KLZ_WT21)	06:51		08:25 (SAM_WT05)	07:40		08:27 (SAM_WT05)	07:29			08:22	08:49
	21:40	32	21:02 (KLZ_WT21)	20:42	167	16:33 (CBR_WT01)	19:32	204	18:58 (KLZ_WT22)	17:28			16:44	16:44
29	06:05		20:30 (KLZ_WT21)	06:52		08:23 (SAM_WT05)	07:41		14:11 (CBR_WT01)	07:31			08:23	08:49
	21:38	33	21:08 (KLZ_WT13)	20:40	171	16:32 (CBR_WT01)	19:30	187	18:58 (KLZ_WT22)	17:26			16:43	16:45
30	06:06		07:14 (SAM_WT04)	06:54		08:22 (SAM_WT05)	07:43		14:11 (CBR_WT01)	07:33			08:24	08:49
	21:37	47	21:07 (KLZ_WT13)	20:38	175	16:33 (CBR_WT01)	19:28	184	18:57 (KLZ_WT22)	17:25			16:43	16:46
31	06:08		07:11 (SAM_WT04)	06:55		08:20 (SAM_WT05)				07:35				08:49
	21:35	64	21:06 (KLZ_WT13)	20:35	179	16:32 (CBR_WT01)				17:23				16:47
Potential sun hours	498			451			380			333			269	248
Total, worst case		1295			3839			6462			2239			
Sun reduction		0,45			0,47			0,43			0,36			
Oper. time red.		0,98			0,98			0,98			0,98			
Wind dir. red.		0,62			0,70			0,69			0,71			
Total reduction		0,27			0,32			0,29			0,25			
Total, real		348			1223			1876			565			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:18 (MVN_WT01)	07:32			07:23			06:20		06:44 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:48			17:35	7	09:25 (MVN_WT01)	18:25			20:17			21:06	19	07:03 (SAM_WT05)	21:50	23	20:40 (KLZ_WT10)
2	08:49			08:22			07:30			07:21		19:39 (KLZ_WT22)	06:18		06:42 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:49			17:36			18:26			20:19	7	19:46 (KLZ_WT22)	21:08	22	07:04 (SAM_WT05)	21:51	25	20:42 (KLZ_WT10)
3	08:49			08:21		17:07 (NES_WT01)	07:28			07:19		19:36 (KLZ_WT22)	06:16		06:41 (SAM_WT05)	05:35		20:16 (KLZ_WT10)
	16:50			17:38	2	17:09 (NES_WT01)	18:28			20:20	13	19:49 (KLZ_WT22)	21:09	24	07:05 (SAM_WT05)	21:53	27	20:43 (KLZ_WT10)
4	08:49			08:19		17:08 (NES_WT01)	07:26			07:17		19:34 (KLZ_WT22)	06:15		06:40 (SAM_WT05)	05:34		20:15 (KLZ_WT10)
	16:51			17:40	3	17:11 (NES_WT01)	18:30			20:22	17	19:51 (KLZ_WT22)	21:11	25	07:05 (SAM_WT05)	21:54	28	20:43 (KLZ_WT10)
5	08:49			08:18		17:08 (NES_WT01)	07:24			07:14		19:32 (KLZ_WT22)	06:13		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT08)
	16:53			17:42	5	17:13 (NES_WT01)	18:32			20:24	21	19:53 (KLZ_WT22)	21:13	26	07:05 (SAM_WT05)	21:55	30	20:44 (KLZ_WT10)
6	08:49			08:16		17:09 (NES_WT01)	07:21			07:12		19:30 (KLZ_WT22)	06:11		06:38 (SAM_WT05)	05:33		06:01 (SAM_WT08)
	16:54			17:44	6	17:15 (NES_WT01)	18:33			20:25	23	19:53 (KLZ_WT22)	21:14	27	07:05 (SAM_WT05)	21:55	32	20:45 (KLZ_WT10)
7	08:48			08:14		17:10 (NES_WT01)	07:19			07:10		19:29 (KLZ_WT22)	06:09		06:39 (SAM_WT05)	05:32		06:01 (SAM_WT08)
	16:55			17:45	5	17:15 (NES_WT01)	18:35			20:27	24	19:53 (KLZ_WT22)	21:16	27	07:06 (SAM_WT05)	21:56	34	20:46 (KLZ_WT10)
8	08:48			08:13			07:17			07:08		19:28 (KLZ_WT22)	06:08		06:38 (SAM_WT05)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37			20:28	28	20:03 (KLZ_WT15)	21:17	27	07:05 (SAM_WT05)	21:57	35	20:46 (KLZ_WT10)
9	08:47			08:11			07:15			07:05		19:28 (KLZ_WT22)	06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:58			17:49			18:39			20:30	30	20:05 (KLZ_WT15)	21:19	30	07:06 (SAM_WT05)	21:58	36	20:47 (KLZ_WT10)
10	08:47			08:09			07:13			07:03		19:28 (KLZ_WT22)	06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40			20:32	30	20:06 (KLZ_WT15)	21:20	32	07:05 (SAM_WT05)	21:59	37	20:48 (KLZ_WT10)
11	08:46			08:08			07:10			07:01		19:28 (KLZ_WT22)	06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	17:00			17:53			18:42			20:33	31	20:08 (KLZ_WT15)	21:22	34	07:05 (SAM_WT05)	22:00	39	20:49 (KLZ_WT10)
12	08:46			08:06			07:08			06:59		19:27 (KLZ_WT22)	06:01		06:26 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44			20:35	29	20:07 (KLZ_WT15)	21:24	36	07:05 (SAM_WT05)	22:00	39	20:48 (KLZ_WT10)
13	08:45		09:14 (MVN_WT01)	08:04			07:06			06:57		19:27 (KLZ_WT22)	05:59		06:25 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:03	6	09:20 (MVN_WT01)	17:56			18:45			20:37	25	19:52 (KLZ_WT22)	21:25	37	07:05 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
14	08:44		09:13 (MVN_WT01)	08:02			07:04			06:55		19:27 (KLZ_WT22)	05:58		06:23 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:05	9	09:22 (MVN_WT01)	17:58			18:47			20:38	24	19:51 (KLZ_WT22)	21:27	37	07:03 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
15	08:44		09:12 (MVN_WT01)	08:00			07:02			06:52		19:28 (KLZ_WT22)	05:56		06:22 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:06	11	09:23 (MVN_WT01)	18:00			18:49			20:40	22	19:50 (KLZ_WT22)	21:28	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
16	08:43		09:11 (MVN_WT01)	07:58			06:59		18:25 (KLZ_WT16)	06:50		19:29 (KLZ_WT22)	05:55		06:21 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:08	13	09:24 (MVN_WT01)	18:02			18:50	1	18:26 (KLZ_WT16)	20:42	20	19:49 (KLZ_WT22)	21:30	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
17	08:42		09:10 (MVN_WT01)	07:56			06:57		18:24 (KLZ_WT16)	06:48		19:30 (KLZ_WT22)	05:53		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:09	15	09:25 (MVN_WT01)	18:03			18:52	3	18:27 (KLZ_WT16)	20:43	18	19:48 (KLZ_WT22)	21:31	37	07:01 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
18	08:41		09:10 (MVN_WT01)	07:54			06:55		18:25 (KLZ_WT16)	06:46		19:32 (KLZ_WT22)	05:52		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:11	16	09:26 (MVN_WT01)	18:05			18:54	4	18:29 (KLZ_WT16)	20:45	14	19:46 (KLZ_WT22)	21:32	34	07:00 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
19	08:40		09:10 (MVN_WT01)	07:53			06:53		18:26 (KLZ_WT16)	06:44		19:35 (KLZ_WT22)	05:51		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:12	17	09:27 (MVN_WT01)	18:07			18:55	5	18:31 (KLZ_WT16)	20:47	8	19:43 (KLZ_WT22)	21:34	33	07:00 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
20	08:39		09:09 (MVN_WT01)	07:51			06:50			06:42			05:49		06:20 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:14	18	09:27 (MVN_WT01)	18:09			18:57			20:48			21:35	28	06:58 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
21	08:38		09:09 (MVN_WT01)	07:49			06:48			06:40			05:48		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:16	19	09:28 (MVN_WT01)	18:11			18:59			20:50			21:37	25	06:56 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
22	08:37		09:09 (MVN_WT01)	07:47			06:46		18:29 (KLZ_WT08)	06:38			05:47		06:20 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:17	20	09:29 (MVN_WT01)	18:12			19:00	5	18:34 (KLZ_WT08)	20:52			21:38	15	06:35 (SAM_WT04)	22:04	43	20:52 (KLZ_WT10)
23	08:36		09:10 (MVN_WT01)	07:45			06:44		18:26 (KLZ_WT08)	06:36			05:46		06:21 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:19	20	09:30 (MVN_WT01)	18:14			19:02	10	18:36 (KLZ_WT08)	20:53			21:39	13	06:34 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
24	08:35		09:09 (MVN_WT01)	07:43			06:41		18:24 (KLZ_WT08)	06:34			05:44		06:22 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:21	20	09:29 (MVN_WT01)	18:16			19:04	13	18:37 (KLZ_WT08)	20:55			21:41	11	06:33 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
25	08:33		09:10 (MVN_WT01)	07:40			06:39		18:23 (KLZ_WT08)	06:32			05:43		06:23 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:22	20	09:30 (MVN_WT01)	18:18			19:05	15	18:38 (KLZ_WT08)	20:56			21:42	9	06:32 (SAM_WT04)	22:05	43	20:53 (KLZ_WT10)
26	08:32		09:11 (MVN_WT01)	07:38			06:37		18:22 (KLZ_WT08)	06:30			05:42		06:25 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:24	19	09:30 (MVN_WT01)	18:19			19:07	16	18:38 (KLZ_WT08)	20:58			21:43	5	06:30 (SAM_WT04)	22:05	42	20:53 (KLZ_WT10)
27	08:31		09:11 (MVN_WT01)	07:36			06:34		18:22 (KLZ_WT08)	06:28			05:41		20:25 (KLZ_WT10)	05:32		06:01 (SAM_WT08)
	17:26	18	09:29 (MVN_WT01)	18:21			19:09	16	18:38 (KLZ_WT08)	21:00			21:45	6	20:31 (KLZ_WT10)	22:05	41	20:52 (KLZ_WT10)
28	08:30		09:12 (MVN_WT01)	07:34			06:32		18:22 (KLZ_WT08)	06:26		06:49 (SAM_WT05)	05:40		20:22 (KLZ_WT10)	05:32		06:02 (SAM_WT08)
	17:28	18	09:30 (MVN_WT01)	18:23			19:10	15	18:37 (KLZ_WT08)	21:01	9	06:58 (SAM_WT05)	21:46	12	20:34 (KLZ_WT10)	22:05	41	20:53 (KLZ_WT10)
29	08:28		09:12 (MVN_WT01)				07:30		19:22 (KLZ_WT08)	06:24		06:48 (SAM_WT05)	05:39		20:21 (KLZ_WT10)	05:33		06:02 (SAM_WT08)
	17:29	17	09:29 (MVN_WT01)				20:12	14	19:36 (KLZ_WT08)	21:03	13	07:01 (SAM_WT05)	21:47	16	20:37 (KLZ_WT10)	22:05	40	20:52 (KLZ_WT10)
30	08:27		09:14 (MVN_WT01)				07:28		19:23 (KLZ_WT08)	06:22		06:46 (SAM_WT05)	05:38		20:19 (KLZ_WT10)	05:33		06:03 (SAM_WT08)
	17:31	14	09:28 (MVN_WT01)				20:14	12	19:35 (KLZ_WT08)	21:05	16	07:02 (SAM_WT05)	21:48	19	20:38 (KLZ_WT10)	22:04	40	20:53 (KLZ_WT10)
31	08:25		09:15 (MVN_WT01)				07:25		19:25 (KLZ_WT08)				05:37		20:18 (KLZ_WT10)			
	17:33	12	09:27 (MVN_WT01)				20:15	9	19:34 (KLZ_WT08)				21:49	21	20:39 (KLZ_WT10)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	302			28			138			422			763			1138		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,54			0,66			0,63			0,61			0,67			0,58		
Total reduction	0,13			0,19			0,23			0,28			0,30			0,25		
Total, real	39			5			32			116			227			286		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October	November			December
1	05:34		06:04 (SAM_WT08)	06:09		06:37 (SAM_WT04)	06:57		19:27 (KLZ_WT22)	07:44	07:36			08:26
	22:04	39	20:53 (KLZ_WT10)	21:33	35	07:15 (SAM_WT05)	20:33	32	20:07 (KLZ_WT15)	19:25	17:21			16:42
2	05:34		06:04 (SAM_WT08)	06:11		06:39 (SAM_WT04)	06:59		19:26 (KLZ_WT22)	07:46	07:38			08:27
	22:04	38	20:52 (KLZ_WT10)	21:32	34	07:16 (SAM_WT05)	20:31	30	20:04 (KLZ_WT15)	19:23	17:19			16:41
3	05:35		06:05 (SAM_WT08)	06:12		06:40 (SAM_WT04)	07:00		19:26 (KLZ_WT22)	07:48	07:40			08:29
	22:03	36	20:52 (KLZ_WT10)	21:30	31	07:16 (SAM_WT05)	20:29	30	20:03 (KLZ_WT15)	19:21	17:17			16:41
4	05:36		06:06 (SAM_WT08)	06:14		06:41 (SAM_WT04)	07:02		19:25 (KLZ_WT22)	07:49	07:42		16:39 (NES_WT01)	08:30
	22:03	35	20:52 (KLZ_WT10)	21:29	29	07:15 (SAM_WT05)	20:27	28	20:00 (KLZ_WT15)	19:19	17:16	6	16:45 (NES_WT01)	16:40
5	05:37		06:06 (SAM_WT08)	06:15		06:49 (SAM_WT05)	07:03		19:26 (KLZ_WT22)	07:51	07:43		16:38 (NES_WT01)	08:31
	22:03	34	20:51 (KLZ_WT10)	21:27	27	07:16 (SAM_WT05)	20:24	24	19:50 (KLZ_WT22)	19:16	17:14	6	16:44 (NES_WT01)	16:40
6	05:37		06:07 (SAM_WT08)	06:17		06:48 (SAM_WT05)	07:05		19:26 (KLZ_WT22)	07:52	07:45		16:38 (NES_WT01)	08:33
	22:02	33	20:51 (KLZ_WT10)	21:25	27	07:15 (SAM_WT05)	20:22	23	19:49 (KLZ_WT22)	19:14	17:12	5	16:43 (NES_WT01)	16:39
7	05:38		06:08 (SAM_WT08)	06:18		06:49 (SAM_WT05)	07:06		19:27 (KLZ_WT22)	07:54	07:47		16:38 (NES_WT01)	08:34
	22:02	31	20:51 (KLZ_WT10)	21:23	27	07:16 (SAM_WT05)	20:20	21	19:48 (KLZ_WT22)	19:12	17:11	3	16:41 (NES_WT01)	16:39
8	05:39		20:22 (KLZ_WT10)	06:20		06:49 (SAM_WT05)	07:08		19:28 (KLZ_WT22)	07:56	07:49		16:38 (NES_WT01)	08:35
	22:01	29	20:51 (KLZ_WT10)	21:22	26	07:15 (SAM_WT05)	20:18	17	19:45 (KLZ_WT22)	19:10	17:09	1	16:39 (NES_WT01)	16:39
9	05:40		20:23 (KLZ_WT10)	06:21		06:50 (SAM_WT05)	07:10		19:30 (KLZ_WT22)	07:57	07:50			08:36
	22:00	27	20:50 (KLZ_WT10)	21:20	25	07:15 (SAM_WT05)	20:15	14	19:44 (KLZ_WT22)	19:08	17:07			16:39
10	05:41		20:24 (KLZ_WT10)	06:23		06:50 (SAM_WT05)	07:11		19:32 (KLZ_WT22)	07:59	07:52		08:48 (MVN_WT01)	08:37
	22:00	26	20:50 (KLZ_WT10)	21:18	23	07:13 (SAM_WT05)	20:13	8	19:40 (KLZ_WT22)	19:05	17:06	8	08:56 (MVN_WT01)	16:38
11	05:42		20:25 (KLZ_WT10)	06:24		06:51 (SAM_WT05)	07:13			08:01	07:54		08:46 (MVN_WT01)	08:38
	21:59	24	20:49 (KLZ_WT10)	21:16	21	07:12 (SAM_WT05)	20:11			19:03	17:04	12	08:58 (MVN_WT01)	16:38
12	05:43		20:26 (KLZ_WT10)	06:26		06:53 (SAM_WT05)	07:14		19:17 (KLZ_WT08)	08:02	07:56		08:45 (MVN_WT01)	08:39
	21:58	22	20:48 (KLZ_WT10)	21:14	19	07:12 (SAM_WT05)	20:09	8	19:25 (KLZ_WT08)	19:01	17:03	14	08:59 (MVN_WT01)	16:38
13	05:44		20:27 (KLZ_WT10)	06:27		06:54 (SAM_WT05)	07:16		19:15 (KLZ_WT08)	08:04	07:57		08:44 (MVN_WT01)	08:40
	21:57	20	20:47 (KLZ_WT10)	21:12	16	07:10 (SAM_WT05)	20:06	11	19:26 (KLZ_WT08)	18:59	17:01	17	09:01 (MVN_WT01)	16:38
14	05:45		20:28 (KLZ_WT10)	06:29		06:56 (SAM_WT05)	07:17		19:13 (KLZ_WT08)	08:06	07:59		08:44 (MVN_WT01)	08:41
	21:56	18	20:46 (KLZ_WT10)	21:11	12	07:08 (SAM_WT05)	20:04	14	19:27 (KLZ_WT08)	18:57	17:00	18	09:02 (MVN_WT01)	16:38
15	05:46		20:30 (KLZ_WT10)	06:30		06:57 (SAM_WT05)	07:19		19:12 (KLZ_WT08)	08:07	08:01		08:44 (MVN_WT01)	08:42
	21:55	15	20:45 (KLZ_WT10)	21:09	8	07:05 (SAM_WT05)	20:02	15	19:27 (KLZ_WT08)	18:55	16:59	18	09:02 (MVN_WT01)	16:38
16	05:48		20:32 (KLZ_WT10)	06:32			07:21		19:11 (KLZ_WT08)	08:09	08:02		08:44 (MVN_WT01)	08:43
	21:54	10	20:42 (KLZ_WT10)	21:07			19:59	16	19:27 (KLZ_WT08)	18:52	16:57	19	09:03 (MVN_WT01)	16:38
17	05:49			06:34			07:22		19:11 (KLZ_WT08)	08:11	08:04		08:44 (MVN_WT01)	08:44
	21:53			21:05			19:57	16	19:27 (KLZ_WT08)	18:50	16:56	20	09:04 (MVN_WT01)	16:38
18	05:50		06:34 (SAM_WT04)	06:35			07:24		19:10 (KLZ_WT08)	08:12	08:06		08:43 (MVN_WT01)	08:45
	21:52	7	06:41 (SAM_WT04)	21:03			19:55	15	19:25 (KLZ_WT08)	18:48	16:55	20	09:03 (MVN_WT01)	16:39
19	05:51		06:32 (SAM_WT04)	06:37			07:25		19:11 (KLZ_WT08)	08:14	08:07		08:44 (MVN_WT01)	08:45
	21:51	10	06:42 (SAM_WT04)	21:01			19:53	14	19:25 (KLZ_WT08)	18:46	16:53	20	09:04 (MVN_WT01)	16:39
20	05:52		06:32 (SAM_WT04)	06:38			07:27		19:12 (KLZ_WT08)	08:16	08:09		08:44 (MVN_WT01)	08:46
	21:50	12	06:44 (SAM_WT04)	20:59			19:50	11	19:23 (KLZ_WT08)	18:44	16:52	20	09:04 (MVN_WT01)	16:39
21	05:54		06:31 (SAM_WT04)	06:40			07:28		19:13 (KLZ_WT08)	08:17	08:11		08:45 (MVN_WT01)	08:46
	21:49	14	06:45 (SAM_WT04)	20:57			19:48	7	19:20 (KLZ_WT08)	18:42	16:51	19	09:04 (MVN_WT01)	16:40
22	05:55		06:30 (SAM_WT04)	06:41			07:30			08:19	08:12		08:45 (MVN_WT01)	08:47
	21:48	21	07:05 (SAM_WT05)	20:55			19:46			18:40	16:50	18	09:03 (MVN_WT01)	16:40
23	05:56		06:30 (SAM_WT04)	06:43			07:32			08:21	08:14		08:46 (MVN_WT01)	08:47
	21:46	27	07:07 (SAM_WT05)	20:52			19:44			18:38	16:49	17	09:03 (MVN_WT01)	16:41
24	05:58		06:29 (SAM_WT04)	06:44		19:38 (KLZ_WT22)	07:33		19:10 (KLZ_WT16)	08:23	08:15		08:47 (MVN_WT01)	08:48
	21:45	31	07:08 (SAM_WT05)	20:50	9	19:47 (KLZ_WT22)	19:41	5	19:15 (KLZ_WT16)	18:36	16:48	17	09:04 (MVN_WT01)	16:41
25	05:59		06:29 (SAM_WT04)	06:46		19:35 (KLZ_WT22)	07:35		19:08 (KLZ_WT16)	07:24	08:17		08:48 (MVN_WT01)	08:48
	21:44	34	07:10 (SAM_WT05)	20:48	14	19:49 (KLZ_WT22)	19:39	4	19:12 (KLZ_WT16)	17:34	16:47	16	09:04 (MVN_WT01)	16:42
26	06:00		06:29 (SAM_WT04)	06:48		19:33 (KLZ_WT22)	07:36		19:07 (KLZ_WT16)	07:26	08:19		08:49 (MVN_WT01)	08:49
	21:42	36	07:11 (SAM_WT05)	20:46	18	19:51 (KLZ_WT22)	19:37	3	19:10 (KLZ_WT16)	17:32	16:46	13	09:02 (MVN_WT01)	16:43
27	06:02		06:30 (SAM_WT04)	06:49		19:31 (KLZ_WT22)	07:38		19:07 (KLZ_WT16)	07:28	08:20		08:51 (MVN_WT01)	08:49
	21:41	37	07:12 (SAM_WT05)	20:44	20	19:51 (KLZ_WT22)	19:34	1	19:08 (KLZ_WT16)	17:30	16:45	11	09:02 (MVN_WT01)	16:43
28	06:03		06:32 (SAM_WT04)	06:51		19:30 (KLZ_WT22)	07:40			07:29	08:22		08:53 (MVN_WT01)	08:49
	21:40	39	07:14 (SAM_WT05)	20:42	22	19:52 (KLZ_WT22)	19:32			17:28	16:44	9	09:02 (MVN_WT01)	16:44
29	06:05		06:33 (SAM_WT04)	06:52		19:28 (KLZ_WT22)	07:41			07:31	08:23		08:54 (MVN_WT01)	08:49
	21:38	38	07:14 (SAM_WT05)	20:40	24	19:52 (KLZ_WT22)	19:30			17:26	16:43	6	09:00 (MVN_WT01)	16:45
30	06:06		06:34 (SAM_WT04)	06:54		19:28 (KLZ_WT22)	07:43			07:33	08:25			08:49
	21:37	37	07:14 (SAM_WT05)	20:38	25	19:53 (KLZ_WT22)	19:28			17:25	16:43			16:46
31	06:08		06:36 (SAM_WT04)	06:55		19:27 (KLZ_WT22)				07:35				08:49
	21:35	36	07:15 (SAM_WT05)	20:35	29	20:07 (KLZ_WT15)				17:23				16:47
Potential sun hours	498			451			380			333	269			248
Total, worst case		816			521			367				333		
Sun reduction		0,45			0,47			0,43				0,27		
Oper. time red.		0,98			0,98			0,98				0,98		
Wind dir. red.		0,62			0,65			0,61				0,55		
Total reduction		0,27			0,30			0,26				0,14		
Total, real		221			155			95				48		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:31 (RHR_WT02)	08:24		08:50 (MVZ_WT02)	07:32		07:55 (MXS_WT01)	07:23		19:43 (KLZ_WT16)	06:20		06:44 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:48	19	09:50 (RHR_WT02)	17:35	40	17:06 (NES_WT01)	18:25	22	08:17 (MXS_WT01)	20:17	8	19:51 (KLZ_WT16)	21:06	6	06:50 (SAM_WT05)	21:50	63	20:53 (KLZ_WT22)
2	08:49		09:32 (RHR_WT02)	08:22		08:48 (MVZ_WT02)	07:30		07:53 (MXS_WT01)	07:21		19:43 (KLZ_WT16)	06:18		06:42 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:49	19	09:51 (RHR_WT02)	17:36	41	17:07 (NES_WT01)	18:26	25	08:18 (MXS_WT01)	20:19	10	19:53 (KLZ_WT16)	21:08	8	06:50 (SAM_WT05)	21:52	63	20:54 (KLZ_WT22)
3	08:49		09:31 (RHR_WT02)	08:21		08:46 (MVZ_WT02)	07:28		07:53 (MXS_WT01)	07:19		19:43 (KLZ_WT16)	06:16		06:41 (SAM_WT05)	05:35		06:03 (SAM_WT11)
	16:50	19	09:50 (RHR_WT02)	17:38	41	17:08 (NES_WT01)	18:28	26	08:19 (MXS_WT01)	20:20	12	19:55 (KLZ_WT16)	21:09	10	06:51 (SAM_WT05)	21:53	65	20:55 (KLZ_WT22)
4	08:49		09:33 (RHR_WT02)	08:19		08:46 (MVZ_WT02)	07:26		07:52 (MXS_WT01)	07:17		19:43 (KLZ_WT16)	06:15		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:51	18	09:51 (RHR_WT02)	17:40	37	17:08 (NES_WT01)	18:30	27	08:19 (MXS_WT01)	20:22	14	19:57 (KLZ_WT16)	21:11	13	20:43 (KLZ_WT15)	21:54	68	20:55 (KLZ_WT22)
5	08:49		09:34 (RHR_WT02)	08:18		08:47 (MVZ_WT02)	07:24		07:51 (MXS_WT01)	07:14		19:43 (KLZ_WT16)	06:13		06:37 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:53	17	09:51 (RHR_WT02)	17:42	27	17:07 (NES_WT01)	18:32	27	08:18 (MXS_WT01)	20:24	15	19:58 (KLZ_WT16)	21:13	16	20:44 (KLZ_WT15)	21:55	69	20:56 (KLZ_WT22)
6	08:49		09:34 (RHR_WT02)	08:16		08:49 (MVZ_WT02)	07:21		07:51 (MXS_WT01)	07:12		19:43 (KLZ_WT16)	06:11		06:36 (SAM_WT05)	05:33		06:01 (SAM_WT11)
	16:54	16	09:50 (RHR_WT02)	17:44	12	17:06 (NES_WT01)	18:33	27	08:18 (MXS_WT01)	20:25	13	19:56 (KLZ_WT16)	21:14	21	20:46 (KLZ_WT15)	21:55	72	20:57 (KLZ_WT22)
7	08:48		09:35 (RHR_WT02)	08:14			07:19		07:51 (MXS_WT01)	07:10		19:45 (KLZ_WT16)	06:09		06:34 (SAM_WT05)	05:32		06:01 (SAM_WT11)
	16:55	16	09:51 (RHR_WT02)	17:45			18:35	27	08:18 (MXS_WT01)	20:27	9	19:54 (KLZ_WT16)	21:16	24	20:47 (KLZ_WT15)	21:56	72	20:58 (KLZ_WT22)
8	08:48		09:36 (RHR_WT02)	08:13			07:17		07:51 (MXS_WT01)	07:08		19:48 (KLZ_WT16)	06:08		06:32 (SAM_WT04)	05:32		06:01 (SAM_WT11)
	16:56	14	09:50 (RHR_WT02)	17:47			18:37	27	08:18 (MXS_WT01)	20:29	2	19:50 (KLZ_WT16)	21:17	25	20:48 (KLZ_WT15)	21:57	73	20:59 (KLZ_WT22)
9	08:47		09:38 (RHR_WT02)	08:11			07:15		07:52 (MXS_WT01)	07:05			06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:58	12	09:50 (RHR_WT02)	17:49			18:39	25	08:17 (MXS_WT01)	20:30			21:19	28	20:50 (KLZ_WT15)	21:58	73	20:59 (KLZ_WT22)
10	08:47		09:39 (RHR_WT02)	08:09			07:13		07:51 (MXS_WT01)	07:03			06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:59	10	09:49 (RHR_WT02)	17:51			18:40	24	08:15 (MXS_WT01)	20:32			21:21	27	20:51 (KLZ_WT15)	21:59	75	20:59 (KLZ_WT22)
11	08:46		09:41 (RHR_WT02)	08:08			07:10		07:52 (MXS_WT01)	07:01			06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	17:00	7	09:48 (RHR_WT02)	17:53			18:42	22	08:14 (MXS_WT01)	20:33			21:22	28	20:53 (KLZ_WT15)	22:00	75	21:00 (KLZ_WT22)
12	08:46		09:14 (RHR_WT01)	08:06			07:08		07:54 (MXS_WT01)	06:59			06:01		06:26 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:02	3	09:17 (RHR_WT01)	17:54			18:44	19	08:13 (MXS_WT01)	20:35			21:24	22	20:54 (KLZ_WT15)	22:00	74	21:00 (KLZ_WT22)
13	08:45		09:14 (RHR_WT01)	08:04			07:06		07:56 (MXS_WT01)	06:57			05:59		06:25 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:03	5	09:19 (RHR_WT01)	17:56			18:45	14	08:10 (MXS_WT01)	20:37			21:25	22	20:54 (KLZ_WT15)	22:01	75	21:00 (KLZ_WT22)
14	08:44		09:13 (RHR_WT01)	08:02			07:04		07:58 (MXS_WT01)	06:55			05:58		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:05	8	09:21 (RHR_WT01)	17:58			18:47	8	08:06 (MXS_WT01)	20:38			21:27	20	20:52 (KLZ_WT15)	22:01	74	21:01 (KLZ_WT22)
15	08:44		09:12 (RHR_WT01)	08:00			07:02			06:52			05:56		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:06	10	09:22 (RHR_WT01)	18:00			18:49			20:40			21:28	18	20:52 (KLZ_WT15)	22:02	74	21:01 (KLZ_WT22)
16	08:43		09:11 (RHR_WT01)	07:58			06:59			06:50			05:55		06:25 (SAM_WT04)	05:30		06:02 (SAM_WT11)
	17:08	12	09:23 (RHR_WT01)	18:02			18:50			20:42			21:30	12	20:51 (KLZ_WT15)	22:03	75	21:02 (KLZ_WT22)
17	08:42		09:10 (MVZ_WT01)	07:56		08:20 (MVN_WT01)	06:57			06:48			05:54			05:30		06:02 (SAM_WT11)
	17:09	14	09:24 (RHR_WT01)	18:03	1	08:21 (MVN_WT01)	18:52			20:43			21:31			22:03	74	21:02 (KLZ_WT22)
18	08:41		09:09 (MVZ_WT01)	07:55		08:18 (MVN_WT01)	06:55			06:46			05:52		06:24 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:11	16	09:25 (RHR_WT01)	18:05	5	08:23 (MVN_WT01)	18:54			20:45			21:32	3	06:27 (CBR_WT01)	22:03	73	21:02 (KLZ_WT22)
19	08:40		09:08 (MVZ_WT01)	07:53		08:16 (MVN_WT01)	06:53			06:44			05:51		06:21 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:12	18	09:26 (RHR_WT01)	18:07	9	08:25 (MVN_WT01)	18:55			20:47			21:34	10	06:31 (CBR_WT01)	22:04	72	21:02 (KLZ_WT22)
20	08:39		09:06 (MVZ_WT01)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:14	20	09:26 (RHR_WT01)	18:09	11	08:25 (MVN_WT01)	18:57			20:48			21:35	14	06:33 (CBR_WT01)	22:04	73	21:03 (KLZ_WT22)
21	08:38		09:05 (MVZ_WT01)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:17 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:16	22	09:27 (RHR_WT01)	18:11	14	08:26 (MVN_WT01)	18:59			20:50			21:37	16	06:33 (CBR_WT01)	22:04	73	21:03 (KLZ_WT22)
22	08:37		09:04 (MVZ_WT01)	07:47		08:11 (MVN_WT01)	06:46			06:38			05:47		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:17	24	09:28 (RHR_WT01)	18:12	15	08:26 (MVN_WT01)	19:00			20:52			21:38	19	06:35 (CBR_WT01)	22:04	73	21:04 (KLZ_WT22)
23	08:36		09:03 (MVZ_WT01)	07:45		08:11 (MVN_WT01)	06:44			06:36			05:46		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:19	25	09:28 (RHR_WT01)	18:14	15	08:26 (MVN_WT01)	19:02			20:53			21:39	20	06:36 (CBR_WT01)	22:05	73	21:04 (KLZ_WT22)
24	08:35		09:01 (MVZ_WT01)	07:43		08:11 (MVN_WT01)	06:41			06:34			05:44		06:15 (CBR_WT01)	05:31		06:04 (SAM_WT11)
	17:21	27	09:28 (RHR_WT01)	18:16	14	08:25 (MVN_WT01)	19:04			20:55			21:41	21	06:36 (CBR_WT01)	22:05	73	21:03 (KLZ_WT22)
25	08:34		09:02 (MVZ_WT01)	07:41		08:05 (MXS_WT01)	06:39			06:32			05:43		06:15 (CBR_WT01)	05:31		06:05 (SAM_WT11)
	17:22	27	09:29 (RHR_WT01)	18:18	15	08:24 (MVN_WT01)	19:05			20:56			21:42	22	06:37 (CBR_WT01)	22:05	73	21:04 (KLZ_WT22)
26	08:32		09:03 (RHR_WT01)	07:38		08:02 (MXS_WT01)	06:37			06:30			05:42		06:09 (SAM_WT11)	05:31		06:04 (SAM_WT11)
	17:24	26	09:29 (RHR_WT01)	18:19	19	08:22 (MVN_WT01)	19:07			20:58			21:43	36	20:44 (KLZ_WT22)	22:05	74	21:04 (KLZ_WT22)
27	08:31		09:03 (RHR_WT01)	07:36		08:00 (MXS_WT01)	06:35			06:28			05:41		06:08 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:26	26	09:29 (RHR_WT01)	18:21	15	08:15 (MXS_WT01)	19:09			21:00			21:45	42	20:46 (KLZ_WT22)	22:05	74	21:04 (KLZ_WT22)
28	08:30		09:03 (RHR_WT01)	07:34		07:57 (MXS_WT01)	06:32			06:26			05:40		06:07 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:28	29	16:58 (NES_WT01)	18:23	19	08:16 (MXS_WT01)	19:10			21:01			21:46	48	20:48 (KLZ_WT22)	22:05	74	21:04 (KLZ_WT22)
29	08:28		08:54 (MVZ_WT02)				07:30			06:24			05:39		06:07 (SAM_WT11)	05:33		06:05 (SAM_WT11)
	17:29	31	16:59 (NES_WT01)				20:12			21:03			21:47	51	20:50 (KLZ_WT22)	22:05	74	21:05 (KLZ_WT22)
30	08:27		08:53 (MVZ_WT02)				07:28		19:46 (KLZ_WT16)	06:22		06:46 (SAM_WT05)	05:38		06:06 (SAM_WT11)	05:33		06:04 (SAM_WT11)
	17:31	34	17:02 (NES_WT01)				20:14	3	19:49 (KLZ_WT16)	21:05	3	06:49 (SAM_WT05)	21:48	55	20:51 (KLZ_WT22)	22:04	75	21:04 (KLZ_WT22)
31	08:25		08:51 (MVZ_WT02)				07:26		19:45 (KLZ_WT16)				05:37		06:05 (SAM_WT11)			
	17:33	37	17:03 (NES_WT01)				20:15	5	19:50 (KLZ_WT16)				21:49	59	20:52 (KLZ_WT22)			
Potential sun hours	262			279			367			414			482			495		
Total, worst case	581			350			328			86			716			2168		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,55			0,58			0,55			0,61			0,65			0,63		
Total reduction	0,13			0,17			0,20			0,28			0,29			0,27		
Total, real	77			60			67			24			206			587		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT11)	06:09		06:37 (SAM_WT04)	06:57			07:44		08:33 (MXS_WT01)	07:36			08:26		09:23 (RHR_WT02)
	22:04	74	21:04 (KLZ_WT22)	21:34	26	21:04 (KLZ_WT15)	20:33			19:25	18	08:51 (MXS_WT01)	17:21			16:42	7	09:30 (RHR_WT02)
2	05:34		06:04 (SAM_WT11)	06:11		06:39 (SAM_WT04)	06:59			07:46		08:32 (MXS_WT01)	07:38			08:27		09:22 (RHR_WT02)
	22:04	76	21:04 (KLZ_WT22)	21:32	27	21:03 (KLZ_WT15)	20:31			19:23	20	08:52 (MXS_WT01)	17:19			16:41	10	09:32 (RHR_WT02)
3	05:35		06:05 (SAM_WT11)	06:12		06:40 (SAM_WT04)	07:00			07:48		08:30 (MXS_WT01)	07:40			08:29		09:21 (RHR_WT02)
	22:03	74	21:04 (KLZ_WT22)	21:30	28	21:01 (KLZ_WT15)	20:29			19:21	23	08:53 (MXS_WT01)	17:17			16:41	12	09:33 (RHR_WT02)
4	05:36		06:06 (SAM_WT11)	06:14		06:41 (SAM_WT04)	07:02		19:46 (KLZ_WT16)	07:49		08:29 (MXS_WT01)	07:42		16:30 (NES_WT01)	08:30		09:21 (RHR_WT02)
	22:03	73	21:04 (KLZ_WT22)	21:29	25	20:59 (KLZ_WT15)	20:27	1	19:47 (KLZ_WT16)	19:19	25	08:54 (MXS_WT01)	17:16	3	16:33 (NES_WT01)	16:40	14	09:35 (RHR_WT02)
5	05:37		06:06 (SAM_WT11)	06:15		06:45 (SAM_WT05)	07:03		19:42 (KLZ_WT16)	07:51		08:28 (MXS_WT01)	07:43		08:18 (MVZ_WT02)	08:31		09:21 (RHR_WT02)
	22:03	71	21:03 (KLZ_WT22)	21:27	24	20:58 (KLZ_WT15)	20:24	9	19:51 (KLZ_WT16)	19:16	26	08:54 (MXS_WT01)	17:14	14	16:36 (NES_WT01)	16:40	15	09:36 (RHR_WT02)
6	05:38		06:07 (SAM_WT11)	06:17		06:44 (SAM_WT05)	07:05		19:39 (KLZ_WT16)	07:53		08:27 (MXS_WT01)	07:45		08:17 (MVZ_WT02)	08:33		09:20 (RHR_WT02)
	22:02	72	21:03 (KLZ_WT22)	21:25	23	20:56 (KLZ_WT15)	20:22	13	19:52 (KLZ_WT16)	19:14	27	08:54 (MXS_WT01)	17:12	29	16:37 (NES_WT01)	16:40	16	09:36 (RHR_WT02)
7	05:38		06:08 (SAM_WT11)	06:18		06:46 (SAM_WT05)	07:07		19:38 (KLZ_WT16)	07:54		08:27 (MXS_WT01)	07:47		08:16 (MVZ_WT02)	08:34		09:20 (RHR_WT02)
	22:02	70	21:03 (KLZ_WT22)	21:23	19	20:55 (KLZ_WT15)	20:20	15	19:53 (KLZ_WT16)	19:12	27	08:54 (MXS_WT01)	17:11	37	16:38 (NES_WT01)	16:39	17	09:37 (RHR_WT02)
8	05:39		06:09 (SAM_WT11)	06:20		06:47 (SAM_WT05)	07:08		19:37 (KLZ_WT16)	07:56		08:27 (MXS_WT01)	07:49		08:17 (MVZ_WT02)	08:35		09:21 (RHR_WT02)
	22:01	68	21:03 (KLZ_WT22)	21:22	16	20:53 (KLZ_WT15)	20:18	14	19:51 (KLZ_WT16)	19:10	27	08:54 (MXS_WT01)	17:09	42	16:39 (NES_WT01)	16:39	18	09:39 (RHR_WT02)
9	05:40		06:10 (SAM_WT11)	06:21		06:49 (SAM_WT05)	07:10		19:37 (KLZ_WT16)	07:57		08:26 (MXS_WT01)	07:50		08:19 (MVZ_WT02)	08:36		09:21 (RHR_WT02)
	22:00	66	21:02 (KLZ_WT22)	21:20	11	07:00 (SAM_WT05)	20:15	12	19:49 (KLZ_WT16)	19:08	27	08:53 (MXS_WT01)	17:07	42	16:38 (NES_WT01)	16:39	18	09:39 (RHR_WT02)
10	05:41		06:11 (SAM_WT11)	06:23		06:50 (SAM_WT05)	07:11		19:36 (KLZ_WT16)	07:59		08:26 (MXS_WT01)	07:52		08:21 (MVZ_WT02)	08:37		09:21 (RHR_WT02)
	22:00	65	21:02 (KLZ_WT22)	21:18	9	06:59 (SAM_WT05)	20:13	10	19:46 (KLZ_WT16)	19:05	27	08:53 (MXS_WT01)	17:06	39	16:36 (NES_WT01)	16:38	19	09:40 (RHR_WT02)
11	05:42		06:12 (SAM_WT11)	06:24		06:51 (SAM_WT05)	07:13		19:36 (KLZ_WT16)	08:01		08:27 (MXS_WT01)	07:54		08:22 (MVZ_WT02)	08:38		09:21 (RHR_WT02)
	21:59	61	21:01 (KLZ_WT22)	21:16	7	06:58 (SAM_WT05)	20:11	9	19:45 (KLZ_WT16)	19:03	25	08:52 (MXS_WT01)	17:04	37	16:34 (NES_WT01)	16:38	19	09:40 (RHR_WT02)
12	05:43		06:13 (SAM_WT11)	06:26		06:53 (SAM_WT05)	07:14		19:36 (KLZ_WT16)	08:02		08:27 (MXS_WT01)	07:56		08:24 (MVZ_WT02)	08:39		09:21 (RHR_WT02)
	21:58	60	21:01 (KLZ_WT22)	21:14	5	06:58 (SAM_WT05)	20:09	6	19:42 (KLZ_WT16)	19:01	24	08:51 (MXS_WT01)	17:03	34	16:32 (NES_WT01)	16:38	20	09:41 (RHR_WT02)
13	05:44		06:14 (SAM_WT11)	06:27		06:54 (SAM_WT05)	07:16		19:37 (KLZ_WT16)	08:04		08:29 (MXS_WT01)	07:57		08:35 (RHR_WT01)	08:40		09:21 (RHR_WT02)
	21:57	58	21:00 (KLZ_WT22)	21:12	2	06:56 (SAM_WT05)	20:06	3	19:40 (KLZ_WT16)	18:59	21	08:50 (MXS_WT01)	17:01	30	16:31 (NES_WT01)	16:38	20	09:41 (RHR_WT02)
14	05:45		06:15 (SAM_WT11)	06:29			07:17			08:06		08:31 (MXS_WT01)	07:59		08:35 (RHR_WT01)	08:41		09:22 (RHR_WT02)
	21:56	54	20:59 (KLZ_WT22)	21:11			20:04			18:57	18	08:49 (MXS_WT01)	17:00	27	16:29 (NES_WT01)	16:38	20	09:42 (RHR_WT02)
15	05:46		06:16 (SAM_WT11)	06:30			07:19			08:07		08:33 (MXS_WT01)	08:01		08:36 (RHR_WT01)	08:42		09:22 (RHR_WT02)
	21:55	50	20:58 (KLZ_WT22)	21:09			20:02			18:55	20	08:53 (MVN_WT01)	16:59	26	09:02 (RHR_WT01)	16:38	21	09:43 (RHR_WT02)
16	05:48		06:17 (SAM_WT11)	06:32			07:21			08:09		08:34 (MXS_WT01)	08:02		08:36 (RHR_WT01)	08:43		09:23 (RHR_WT02)
	21:54	44	20:56 (KLZ_WT22)	21:07			20:00			18:53	19	08:54 (MVN_WT01)	16:57	26	09:02 (RHR_WT01)	16:38	21	09:44 (RHR_WT02)
17	05:49		06:18 (SAM_WT11)	06:34			07:22			08:11		08:43 (MVN_WT01)	08:04		08:36 (MVZ_WT01)	08:44		09:23 (RHR_WT02)
	21:53	39	20:54 (KLZ_WT22)	21:05			19:57			18:50	13	08:56 (MVN_WT01)	16:56	27	09:03 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
18	05:50		06:24 (CBR_WT01)	06:35			07:24			08:12		08:42 (MVN_WT01)	08:06		08:35 (MVZ_WT01)	08:45		09:23 (RHR_WT02)
	21:52	30	20:51 (KLZ_WT22)	21:03			19:55			18:48	15	08:57 (MVN_WT01)	16:55	27	09:02 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
19	05:51		06:24 (CBR_WT01)	06:37			07:25			08:14		08:42 (MVN_WT01)	08:07		08:37 (MVZ_WT01)	08:45		09:24 (RHR_WT02)
	21:51	22	06:46 (CBR_WT01)	21:01			19:53			18:46	15	08:57 (MVN_WT01)	16:53	25	09:02 (RHR_WT01)	16:39	21	09:45 (RHR_WT02)
20	05:53		06:26 (CBR_WT01)	06:38			07:27			08:16		08:42 (MVN_WT01)	08:09		08:39 (MVZ_WT01)	08:46		09:25 (RHR_WT02)
	21:50	20	06:46 (CBR_WT01)	20:59			19:50			18:44	15	08:57 (MVN_WT01)	16:52	24	09:03 (RHR_WT01)	16:39	21	09:46 (RHR_WT02)
21	05:54		06:27 (CBR_WT01)	06:40			07:28			08:17		08:43 (MVN_WT01)	08:11		08:41 (MVZ_WT01)	08:46		09:24 (RHR_WT02)
	21:49	19	06:46 (CBR_WT01)	20:57			19:48			18:42	13	08:56 (MVN_WT01)	16:51	22	09:03 (RHR_WT01)	16:40	22	09:46 (RHR_WT02)
22	05:55		06:27 (CBR_WT01)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (MVZ_WT01)	08:47		09:25 (RHR_WT02)
	21:48	18	06:45 (CBR_WT01)	20:55			19:46			18:40	11	08:56 (MVN_WT01)	16:50	20	09:03 (RHR_WT01)	16:40	22	09:47 (RHR_WT02)
23	05:56		06:28 (CBR_WT01)	06:43			07:32			08:21		08:47 (MVN_WT01)	08:14		08:44 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:46	15	06:43 (CBR_WT01)	20:52			19:44			18:38	8	08:55 (MVN_WT01)	16:49	18	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
24	05:58		06:30 (CBR_WT01)	06:45			07:33			08:23		08:49 (MVN_WT01)	08:15		08:46 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:45	13	06:43 (CBR_WT01)	20:50			19:41			18:36	4	08:53 (MVN_WT01)	16:48	16	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
25	05:59		06:32 (CBR_WT01)	06:46			07:35			07:24			08:17		08:48 (MVZ_WT01)	08:48		09:27 (RHR_WT02)
	21:44	8	06:40 (CBR_WT01)	20:48			19:39			17:34			16:47	14	09:02 (RHR_WT01)	16:42	21	09:48 (RHR_WT02)
26	06:01			06:48			07:36			07:26			08:19		08:49 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:42			20:46			19:37			17:32			16:46	12	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
27	06:02		20:55 (KLZ_WT15)	06:49			07:38			07:28			08:20		08:51 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:41	4	20:59 (KLZ_WT15)	20:44			19:34			17:30			16:45	10	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
28	06:03		06:34 (SAM_WT04)	06:51			07:40			07:30			08:22		08:53 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:40	15	21:02 (KLZ_WT15)	20:42			19:32			17:28			16:44	8	09:01 (RHR_WT01)	16:44	21	09:49 (RHR_WT02)
29	06:05		06:33 (SAM_WT04)	06:52			07:41		08:41 (MXS_WT01)	07:31			08:23		08:54 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:38	20	21:03 (KLZ_WT15)	20:40			19:30	4	08:45 (MXS_WT01)	17:26			16:44	6	09:00 (RHR_WT01)	16:45	21	09:49 (RHR_WT02)
30	06:06		06:34 (SAM_WT04)	06:54			07:43		08:35 (MXS_WT01)	07:33			08:25		08:56 (RHR_WT01)	08:49		09:29 (RHR_WT02)
	21:37	20	21:03 (KLZ_WT15)	20:38			19:28	13	08:48 (MXS_WT01)	17:25			16:43	3	08:59 (RHR_WT01)	16:46	20	09:49 (RHR_WT02)
31	06:08		06:36 (SAM_WT04)	06:56						07:35						08:49		09:30 (RHR_WT02)
	21:35	22	21:04 (KLZ_WT15)	20:35						17:23						16:47	20	09:50 (RHR_WT02)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1301			222			109			468			618			582	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,64			0,60			0,55			0,57			0,54	
Total reduction		0,28			0,29			0,25			0,20			0,15			0,12	
Total, real		363			65			28			92			92			69	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:23 (RHR_WT03)	08:24		08:50 (MVZ_WT01)	07:32		08:04 (MVN_WT01)	07:23		19:36 (KLZ_WT16)	06:20		06:44 (CBR_WT01)	05:36		06:14 (KLZ_WT19)
	16:48	42	10:22 (ALB_WT01)	17:35	6	08:56 (MVZ_WT01)	18:25	4	08:08 (MVN_WT01)	20:17	16	19:52 (KLZ_WT16)	21:06	14	06:58 (CBR_WT01)	21:50	53	21:19 (KLZ_WT15)
2	08:49		09:23 (RHR_WT03)	08:23		08:48 (MVZ_WT01)	07:30			07:21		19:34 (KLZ_WT16)	06:18		06:42 (CBR_WT01)	05:36		06:14 (KLZ_WT19)
	16:49	41	10:22 (ALB_WT01)	17:36	7	08:55 (MVZ_WT01)	18:27			20:19	19	19:53 (KLZ_WT16)	21:08	16	06:58 (CBR_WT01)	21:52	54	21:20 (KLZ_WT15)
3	08:49		09:23 (RHR_WT03)	08:21		08:46 (MVZ_WT01)	07:28		07:51 (MXS_WT01)	07:19		19:33 (KLZ_WT16)	06:16		06:41 (CBR_WT01)	05:35		06:14 (KLZ_WT19)
	16:50	40	10:21 (ALB_WT01)	17:38	9	08:55 (MVZ_WT01)	18:28	1	07:52 (MXS_WT01)	20:20	22	19:55 (KLZ_WT16)	21:09	19	07:00 (CBR_WT01)	21:53	55	21:21 (KLZ_WT15)
4	08:49		09:24 (RHR_WT03)	08:19		08:45 (RHR_WT01)	07:26		07:49 (MXS_WT01)	07:17		19:33 (KLZ_WT16)	06:15		06:39 (SAM_WT04)	05:34		06:13 (KLZ_WT19)
	16:51	41	16:18 (NES_WT01)	17:40	10	08:55 (MVZ_WT01)	18:30	5	07:54 (MXS_WT01)	20:22	23	19:56 (KLZ_WT16)	21:11	21	07:00 (CBR_WT01)	21:54	56	21:21 (KLZ_WT15)
5	08:49		09:25 (RHR_WT03)	08:18		08:43 (RHR_WT01)	07:24		07:46 (MXS_WT01)	07:14		19:33 (KLZ_WT16)	06:13		06:40 (CBR_WT01)	05:34		06:14 (KLZ_WT19)
	16:53	38	16:19 (NES_WT01)	17:42	12	08:55 (RHR_WT01)	18:32	8	07:54 (MXS_WT01)	20:24	23	19:56 (KLZ_WT16)	21:13	19	06:59 (CBR_WT01)	21:55	56	21:22 (KLZ_WT15)
6	08:49		09:25 (RHR_WT03)	08:16		08:41 (RHR_WT01)	07:21		07:44 (MXS_WT01)	07:12		19:32 (KLZ_WT16)	06:11		06:40 (CBR_WT01)	05:33		06:14 (KLZ_WT19)
	16:54	38	16:20 (NES_WT01)	17:44	15	08:56 (RHR_WT01)	18:33	11	07:55 (MXS_WT01)	20:25	23	19:55 (KLZ_WT16)	21:14	20	07:00 (CBR_WT01)	21:56	55	21:21 (KLZ_WT15)
7	08:48		09:26 (RHR_WT03)	08:15		08:39 (RHR_WT01)	07:19		07:42 (MXS_WT01)	07:10		19:32 (KLZ_WT16)	06:09		06:40 (CBR_WT01)	05:32		06:01 (SAM_WT07)
	16:55	34	16:22 (NES_WT01)	17:45	17	08:56 (RHR_WT01)	18:35	13	07:55 (MXS_WT01)	20:27	23	19:55 (KLZ_WT16)	21:16	20	07:00 (CBR_WT01)	21:56	58	21:22 (KLZ_WT15)
8	08:48		09:26 (RHR_WT03)	08:13		08:38 (RHR_WT01)	07:17		07:40 (MXS_WT01)	07:08		19:32 (KLZ_WT16)	06:08		06:39 (CBR_WT01)	05:32		06:01 (SAM_WT07)
	16:56	33	16:23 (NES_WT01)	17:47	18	08:56 (RHR_WT01)	18:37	16	07:56 (MXS_WT01)	20:29	22	19:54 (KLZ_WT16)	21:17	20	06:59 (CBR_WT01)	21:57	58	21:23 (KLZ_WT15)
9	08:47		09:27 (RHR_WT03)	08:11		08:36 (RHR_WT01)	07:15		07:38 (MXS_WT01)	07:06		19:33 (KLZ_WT16)	06:06		06:40 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	16:58	35	16:25 (NES_WT01)	17:49	20	08:56 (RHR_WT01)	18:39	17	07:55 (MXS_WT01)	20:30	20	19:53 (KLZ_WT16)	21:19	19	06:59 (CBR_WT01)	21:58	60	21:22 (KLZ_WT15)
10	08:47		09:27 (RHR_WT03)	08:09		08:34 (MVZ_WT02)	07:13		07:37 (MXS_WT01)	07:03		19:34 (KLZ_WT16)	06:04		06:40 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	16:59	35	16:26 (NES_WT01)	17:51	21	08:55 (RHR_WT01)	18:40	17	07:54 (MXS_WT01)	20:32	18	19:52 (KLZ_WT16)	21:21	18	06:58 (CBR_WT01)	21:59	60	21:23 (KLZ_WT15)
11	08:46		09:15 (RHR_WT02)	08:08		08:32 (MVZ_WT02)	07:10		07:38 (MXS_WT01)	07:01		19:35 (KLZ_WT16)	06:03		06:41 (CBR_WT01)	05:31		06:00 (SAM_WT07)
	17:00	37	16:27 (NES_WT01)	17:53	23	08:55 (RHR_WT01)	18:42	15	07:53 (MXS_WT01)	20:33	16	19:51 (KLZ_WT16)	21:22	17	06:58 (CBR_WT01)	22:00	61	21:23 (KLZ_WT15)
12	08:46		09:14 (RHR_WT02)	08:06		08:38 (RHR_WT01)	07:08		07:39 (MXS_WT01)	06:59		19:36 (KLZ_WT16)	06:01		06:26 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:02	41	16:29 (NES_WT01)	17:55	16	08:54 (RHR_WT01)	18:44	13	07:52 (MXS_WT01)	20:35	12	19:48 (KLZ_WT16)	21:24	16	06:56 (CBR_WT01)	22:00	60	21:22 (KLZ_WT15)
13	08:45		09:14 (RHR_WT02)	08:04		08:39 (RHR_WT01)	07:06		07:40 (MXS_WT01)	06:57		19:40 (KLZ_WT16)	06:00		06:25 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:03	42	16:31 (NES_WT01)	17:56	13	08:52 (RHR_WT01)	18:45	10	07:50 (MXS_WT01)	20:37	4	19:44 (KLZ_WT16)	21:25	15	06:56 (CBR_WT01)	22:01	63	21:23 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02		08:42 (RHR_WT01)	07:04			06:55			05:58		06:23 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:05	44	16:32 (NES_WT01)	17:58	8	08:50 (RHR_WT01)	18:47			20:38			21:27	12	06:53 (CBR_WT01)	22:01	62	21:23 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00			07:02			06:52			05:56		06:22 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:06	45	16:32 (NES_WT01)	18:00			18:49			20:40			21:28	8	06:51 (CBR_WT01)	22:02	61	21:23 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58			06:59			06:50			05:55		06:21 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:08	44	16:32 (NES_WT01)	18:02			18:50			20:42			21:30	5	06:26 (SAM_WT11)	22:03	63	21:24 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:56			06:57			06:48			05:54		06:19 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:09	44	16:33 (NES_WT01)	18:04			18:52			20:43			21:31	7	06:29 (KLZ_WT19)	22:03	63	21:24 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55			06:55			06:46			05:52		06:18 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:11	42	16:33 (NES_WT01)	18:05			18:54			20:45			21:33	16	06:34 (KLZ_WT19)	22:03	63	21:24 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53			06:53			06:44			05:51		06:17 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:12	41	16:33 (NES_WT01)	18:07			18:55			20:47			21:34	20	06:37 (KLZ_WT19)	22:04	63	21:24 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51			06:50			06:42			05:49		06:20 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:14	36	16:33 (NES_WT01)	18:09			18:57			20:48			21:35	18	06:38 (KLZ_WT19)	22:04	64	21:24 (KLZ_WT15)
21	08:38		09:05 (RHR_WT02)	07:49			06:48			06:40		07:03 (SAM_WT05)	05:48		06:19 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:16	30	16:32 (NES_WT01)	18:11			18:59			20:50	2	07:05 (SAM_WT05)	21:37	21	06:40 (KLZ_WT19)	22:04	64	21:24 (KLZ_WT15)
22	08:37		09:05 (RHR_WT02)	07:47		08:10 (MVN_WT01)	06:46			06:38		07:01 (SAM_WT05)	05:47		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:17	28	16:32 (NES_WT01)	18:12	2	08:12 (MVN_WT01)	19:00			20:52	4	07:05 (SAM_WT05)	21:38	26	21:07 (KLZ_WT15)	22:05	64	21:25 (KLZ_WT15)
23	08:36		09:06 (RHR_WT02)	07:45		08:08 (MVN_WT01)	06:44			06:36		06:59 (SAM_WT05)	05:46		06:16 (KLZ_WT19)	05:30		06:00 (SAM_WT07)
	17:19	27	16:32 (NES_WT01)	18:14	5	08:13 (MVN_WT01)	19:02			20:53	6	07:05 (SAM_WT05)	21:39	32	21:09 (KLZ_WT15)	22:05	63	21:25 (KLZ_WT15)
24	08:35		09:06 (RHR_WT02)	07:43		08:06 (MVN_WT01)	06:41			06:34		06:57 (SAM_WT05)	05:44		06:16 (KLZ_WT10)	05:31		06:00 (SAM_WT07)
	17:21	21	16:30 (NES_WT01)	18:16	7	08:13 (MVN_WT01)	19:04			20:55	8	07:05 (SAM_WT05)	21:41	35	21:10 (KLZ_WT15)	22:05	63	21:25 (KLZ_WT15)
25	08:34		09:08 (RHR_WT02)	07:41		08:04 (MVN_WT01)	06:39			06:32		06:55 (SAM_WT05)	05:43		06:15 (KLZ_WT19)	05:31		06:01 (SAM_WT07)
	17:22	12	09:20 (RHR_WT02)	18:18	10	08:14 (MVN_WT01)	19:05			20:56	9	07:04 (SAM_WT05)	21:42	37	21:11 (KLZ_WT15)	22:05	63	21:26 (KLZ_WT15)
26	08:32		09:09 (RHR_WT02)	07:38		08:02 (MVN_WT01)	06:37			06:30		06:53 (SAM_WT05)	05:42		06:15 (KLZ_WT19)	05:31		06:01 (SAM_WT07)
	17:24	10	09:19 (RHR_WT02)	18:20	11	08:13 (MVN_WT01)	19:07			20:58	10	07:03 (SAM_WT05)	21:43	40	21:12 (KLZ_WT15)	22:05	63	21:26 (KLZ_WT15)
27	08:31		09:11 (RHR_WT02)	07:36		08:02 (MVN_WT01)	06:35			06:28		06:52 (SAM_WT05)	05:41		06:14 (KLZ_WT19)	05:32		06:02 (SAM_WT07)
	17:26	6	09:17 (RHR_WT02)	18:21	11	08:13 (MVN_WT01)	19:09			21:00	10	07:02 (SAM_WT05)	21:45	44	21:13 (KLZ_WT15)	22:05	62	21:26 (KLZ_WT15)
28	08:30			07:34		08:02 (MVN_WT01)	06:32			06:26		06:53 (SAM_WT05)	05:40		06:14 (KLZ_WT19)	05:32		06:02 (SAM_WT07)
	17:28			18:23	9	08:11 (MVN_WT01)	19:10			21:01	7	07:00 (SAM_WT05)	21:46	45	21:14 (KLZ_WT15)	22:05	62	21:26 (KLZ_WT15)
29	08:28						07:30		19:42 (KLZ_WT16)	06:24		06:48 (CBR_WT01)	05:39		06:15 (KLZ_WT19)	05:33		06:03 (SAM_WT07)
	17:29						20:12	5	19:47 (KLZ_WT16)	21:03	8	06:56 (CBR_WT01)	21:47	47	21:16 (KLZ_WT15)	22:05	62	21:27 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		19:39 (KLZ_WT16)	06:22		06:46 (CBR_WT01)	05:38		06:14 (KLZ_WT19)	05:33		06:03 (SAM_WT07)
	17:31	2	08:55 (MVZ_WT01)				20:14	10	19:49 (KLZ_WT16)	21:05	11	06:57 (CBR_WT01)	21:48	49	21:17 (KLZ_WT15)	22:04	61	21:27 (KLZ_WT15)
31	08:25		08:51 (MVZ_WT01)				07:26		19:37 (KLZ_WT16)				05:37		06:14 (KLZ_WT19)			
	17:33	4	08:55 (MVZ_WT01)				20:15	13	19:50 (KLZ_WT16)				21:49	51	21:18 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		933			250			158			316			747			1815	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,58			0,55			0,57			0,62			0,67			0,66	
Total reduction		0,14			0,16			0,21			0,28			0,30			0,28	
Total, real		132			41			33			89			224			515	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:
WP Kluizendok v1

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT07)	06:09		06:52 (CBR_WT01)	06:57		19:34 (KLZ_WT16)	07:44		08:18 (MXS_WT01)	07:37		08:04 (MVZ_WT02)	08:26		08:57 (RHR_WT02)
	22:04	61	21:27 (KLZ_WT15)	21:34	15	07:07 (CBR_WT01)	20:33	16	19:50 (KLZ_WT16)	19:25	12	08:30 (MXS_WT01)	17:21	21	08:25 (RHR_WT01)	16:42	36	16:09 (NES_WT01)
2	05:35		06:04 (SAM_WT07)	06:11		06:51 (CBR_WT01)	06:59		19:32 (KLZ_WT16)	07:46		08:17 (MXS_WT01)	07:38		08:06 (RHR_WT01)	08:27		09:10 (RHR_WT03)
	22:04	61	21:27 (KLZ_WT15)	21:32	17	07:08 (CBR_WT01)	20:31	18	19:50 (KLZ_WT16)	19:23	15	08:32 (MXS_WT01)	17:19	20	08:26 (RHR_WT01)	16:42	35	16:09 (NES_WT01)
3	05:35		06:05 (SAM_WT07)	06:12		06:50 (CBR_WT01)	07:00		19:31 (KLZ_WT16)	07:48		08:15 (MXS_WT01)	07:40		08:07 (RHR_WT01)	08:29		09:10 (RHR_WT03)
	22:03	59	21:27 (KLZ_WT15)	21:30	19	07:09 (CBR_WT01)	20:29	21	19:52 (KLZ_WT16)	19:21	17	08:32 (MXS_WT01)	17:17	18	08:25 (RHR_WT01)	16:41	35	16:08 (NES_WT01)
4	05:36		06:06 (SAM_WT07)	06:14		06:49 (CBR_WT01)	07:02		19:29 (KLZ_WT16)	07:49		08:15 (MXS_WT01)	07:42		08:09 (RHR_WT01)	08:30		09:11 (RHR_WT03)
	22:03	59	21:28 (KLZ_WT15)	21:29	20	07:09 (CBR_WT01)	20:27	22	19:51 (KLZ_WT16)	19:19	17	08:32 (MXS_WT01)	17:16	16	08:25 (RHR_WT01)	16:40	33	16:08 (NES_WT01)
5	05:37		06:07 (SAM_WT07)	06:15		06:50 (CBR_WT01)	07:03		19:29 (KLZ_WT16)	07:51		08:16 (MXS_WT01)	07:43		08:11 (RHR_WT01)	08:31		09:11 (RHR_WT03)
	22:03	58	21:28 (KLZ_WT15)	21:27	19	07:09 (CBR_WT01)	20:24	23	19:52 (KLZ_WT16)	19:16	17	08:33 (MXS_WT01)	17:14	14	08:25 (RHR_WT01)	16:40	32	16:07 (NES_WT01)
6	05:38		06:20 (KLZ_WT19)	06:17		06:49 (CBR_WT01)	07:05		19:28 (KLZ_WT16)	07:53		08:17 (MXS_WT01)	07:45		08:13 (RHR_WT01)	08:33		09:11 (RHR_WT03)
	22:02	56	21:28 (KLZ_WT15)	21:25	20	07:09 (CBR_WT01)	20:22	23	19:51 (KLZ_WT16)	19:14	14	08:31 (MXS_WT01)	17:12	12	08:25 (RHR_WT01)	16:40	37	16:06 (NES_WT01)
7	05:38		06:20 (KLZ_WT19)	06:18		06:50 (CBR_WT01)	07:07		19:28 (KLZ_WT16)	07:54		08:19 (MXS_WT01)	07:47		08:15 (MVZ_WT01)	08:34		09:12 (RHR_WT03)
	22:02	57	21:28 (KLZ_WT15)	21:24	20	07:10 (CBR_WT01)	20:20	23	19:51 (KLZ_WT16)	19:12	12	08:31 (MXS_WT01)	17:11	10	08:25 (MVZ_WT01)	16:39	38	16:06 (NES_WT01)
8	05:39		06:21 (KLZ_WT19)	06:20		06:49 (CBR_WT01)	07:08		19:27 (KLZ_WT16)	07:56		08:21 (MXS_WT01)	07:49		08:17 (MVZ_WT01)	08:35		09:12 (RHR_WT03)
	22:01	55	21:28 (KLZ_WT15)	21:22	20	07:09 (CBR_WT01)	20:18	23	19:50 (KLZ_WT16)	19:10	10	08:31 (MXS_WT01)	17:09	9	08:26 (MVZ_WT01)	16:39	40	16:06 (NES_WT01)
9	05:40		06:21 (KLZ_WT19)	06:21		06:49 (SAM_WT04)	07:10		19:28 (KLZ_WT16)	07:57		08:22 (MXS_WT01)	07:50		08:19 (MVZ_WT01)	08:36		09:12 (RHR_WT03)
	22:00	55	21:28 (KLZ_WT15)	21:20	20	07:09 (CBR_WT01)	20:15	21	19:49 (KLZ_WT16)	19:08	7	08:29 (MXS_WT01)	17:07	7	08:26 (MVZ_WT01)	16:39	40	10:10 (ALB_WT01)
10	05:41		06:21 (KLZ_WT19)	06:23		06:50 (CBR_WT01)	07:11		19:27 (KLZ_WT16)	07:59		08:24 (MXS_WT01)	07:52		08:21 (MVZ_WT01)	08:37		09:13 (RHR_WT03)
	22:00	55	21:28 (KLZ_WT15)	21:18	18	07:08 (CBR_WT01)	20:13	19	19:46 (KLZ_WT16)	19:05	3	08:27 (MXS_WT01)	17:06	6	08:27 (MVZ_WT01)	16:38	40	10:11 (ALB_WT01)
11	05:42		06:22 (KLZ_WT19)	06:24		06:51 (CBR_WT01)	07:13		19:28 (KLZ_WT16)	08:01			07:54		08:23 (MVZ_WT01)	08:38		09:13 (RHR_WT03)
	21:59	52	21:27 (KLZ_WT15)	21:16	16	07:07 (CBR_WT01)	20:11	17	19:45 (KLZ_WT16)	19:03			17:04	4	08:27 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
12	05:43		06:22 (KLZ_WT19)	06:26		06:53 (CBR_WT01)	07:14		19:28 (KLZ_WT16)	08:02			07:56		08:24 (MVZ_WT01)	08:39		09:13 (RHR_WT03)
	21:58	52	21:27 (KLZ_WT15)	21:14	13	07:06 (CBR_WT01)	20:09	14	19:42 (KLZ_WT16)	19:01			17:03	2	08:26 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
13	05:44		06:23 (KLZ_WT19)	06:27		06:54 (CBR_WT01)	07:16		19:30 (KLZ_WT16)	08:04		08:36 (MVN_WT01)	07:57			08:40		09:14 (RHR_WT03)
	21:57	50	21:26 (KLZ_WT15)	21:13	10	07:04 (CBR_WT01)	20:06	10	19:40 (KLZ_WT16)	18:59	7	08:43 (MVN_WT01)	17:01			16:38	42	10:13 (ALB_WT01)
14	05:45		06:23 (KLZ_WT19)	06:29		06:56 (CBR_WT01)	07:18		19:32 (KLZ_WT16)	08:06		08:34 (MVN_WT01)	07:59			08:41		09:14 (RHR_WT03)
	21:56	48	21:25 (KLZ_WT15)	21:11	7	07:03 (CBR_WT01)	20:04	5	19:37 (KLZ_WT16)	18:57	10	08:44 (MVN_WT01)	17:00			16:38	44	10:14 (ALB_WT01)
15	05:47		06:23 (KLZ_WT19)	06:30		07:01 (SAM_WT05)	07:19			08:07		08:34 (MVN_WT01)	08:01		08:44 (RHR_WT02)	08:42		09:15 (RHR_WT03)
	21:55	47	21:24 (KLZ_WT15)	21:09	7	07:08 (SAM_WT05)	20:02			18:55	11	08:45 (MVN_WT01)	16:59	6	08:50 (RHR_WT02)	16:38	44	10:15 (ALB_WT01)
16	05:48		06:24 (KLZ_WT19)	06:32		06:59 (SAM_WT05)	07:21			08:09		08:34 (MVN_WT01)	08:02		08:42 (RHR_WT02)	08:43		09:15 (RHR_WT03)
	21:54	43	21:23 (KLZ_WT15)	21:07	11	07:10 (SAM_WT05)	20:00			18:53	11	08:45 (MVN_WT01)	16:57	10	08:52 (RHR_WT02)	16:38	45	10:16 (ALB_WT01)
17	05:49		06:24 (KLZ_WT19)	06:34		07:00 (SAM_WT05)	07:22			08:11		08:36 (MVN_WT01)	08:04		08:42 (RHR_WT02)	08:44		09:16 (RHR_WT03)
	21:53	42	21:22 (KLZ_WT15)	21:05	10	07:10 (SAM_WT05)	19:57			18:50	9	08:45 (MVN_WT01)	16:56	12	08:54 (RHR_WT02)	16:39	46	10:17 (ALB_WT01)
18	05:50		06:25 (KLZ_WT10)	06:35		07:02 (SAM_WT05)	07:24			08:12		08:38 (MVN_WT01)	08:06		08:40 (RHR_WT02)	08:45		09:16 (RHR_WT03)
	21:52	38	21:21 (KLZ_WT15)	21:03	9	07:11 (SAM_WT05)	19:55			18:48	7	08:45 (MVN_WT01)	16:55	21	16:04 (NES_WT01)	16:39	44	10:16 (ALB_WT01)
19	05:51		06:25 (KLZ_WT10)	06:37		07:03 (SAM_WT05)	07:25			08:14		08:40 (MVN_WT01)	08:07		08:40 (RHR_WT02)	08:45		09:17 (RHR_WT03)
	21:51	37	21:20 (KLZ_WT15)	21:01	7	07:10 (SAM_WT05)	19:53			18:46	4	08:44 (MVN_WT01)	16:53	27	16:06 (NES_WT01)	16:39	44	10:17 (ALB_WT01)
20	05:53		06:27 (KLZ_WT10)	06:38		07:05 (SAM_WT05)	07:27			08:16		08:42 (MVN_WT01)	08:09		08:40 (RHR_WT02)	08:46		09:18 (RHR_WT03)
	21:50	33	21:20 (KLZ_WT15)	20:59	6	07:11 (SAM_WT05)	19:50			18:44	1	08:43 (MVN_WT01)	16:52	28	16:07 (NES_WT01)	16:39	45	10:18 (ALB_WT01)
21	05:54		06:27 (KLZ_WT10)	06:40		07:06 (SAM_WT05)	07:29			08:18			08:11		08:41 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	29	21:18 (KLZ_WT15)	20:57	4	07:10 (SAM_WT05)	19:48			18:42			16:51	30	16:08 (NES_WT01)	16:40	45	10:18 (ALB_WT01)
22	05:55		06:28 (KLZ_WT10)	06:41		07:08 (SAM_WT05)	07:30			08:19			08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	24	21:17 (KLZ_WT15)	20:55	1	07:09 (SAM_WT05)	19:46			18:40			16:50	36	16:09 (NES_WT01)	16:40	45	10:19 (ALB_WT01)
23	05:56		06:29 (KLZ_WT10)	06:43			07:32			08:21			08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	20	06:49 (KLZ_WT19)	20:53			19:44			18:38			16:49	41	16:09 (NES_WT01)	16:41	45	10:19 (ALB_WT01)
24	05:58		06:29 (SAM_WT11)	06:45			07:33			08:23			08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	19	06:48 (KLZ_WT19)	20:50			19:41			18:36			16:48	42	16:10 (NES_WT01)	16:41	45	10:19 (ALB_WT01)
25	05:59		06:28 (SAM_WT11)	06:46			07:35			07:24			08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	18	06:46 (KLZ_WT19)	20:48			19:39			17:34			16:47	44	16:11 (NES_WT01)	16:42	44	10:20 (ALB_WT01)
26	06:01		06:29 (SAM_WT11)	06:48			07:36			07:26			08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	14	06:43 (KLZ_WT19)	20:46			19:37			17:32			16:46	43	16:10 (NES_WT01)	16:43	46	10:21 (ALB_WT01)
27	06:02		06:30 (SAM_WT11)	06:49			07:38			07:28			08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	6	06:36 (SAM_WT11)	20:44			19:34			17:30			16:45	43	16:11 (NES_WT01)	16:43	45	10:21 (ALB_WT01)
28	06:03		06:32 (SAM_WT11)	06:51			07:40			07:30		08:11 (RHR_WT01)	08:22		08:53 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:40	5	06:37 (SAM_WT11)	20:42			19:32			17:28	9	08:20 (RHR_WT01)	16:44	44	16:12 (NES_WT01)	16:44	44	10:21 (ALB_WT01)
29	06:05		06:33 (SAM_WT11)	06:52			07:41			07:31		08:09 (RHR_WT01)	08:23		08:54 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:38	11	07:03 (CBR_WT01)	20:40			19:30			17:27	13	08:22 (RHR_WT01)	16:44	43	16:11 (NES_WT01)	16:45	44	10:21 (ALB_WT01)
30	06:06		06:34 (SAM_WT11)	06:54		19:41 (KLZ_WT16)	07:43		08:20 (MXS_WT01)	07:33		08:04 (MVZ_WT02)	08:25		08:56 (RHR_WT02)	08:49		09:22 (RHR_WT03)
	21:37	15	07:05 (CBR_WT01)	20:38	4	19:45 (KLZ_WT16)	19:28	8	08:28 (MXS_WT01)	17:25	17	08:23 (RHR_WT01)	16:43	41	16:11 (NES_WT01)	16:46	43	10:21 (ALB_WT01)
31	06:08		06:36 (SAM_WT11)	06:56		19:36 (KLZ_WT16)				07:35		08:02 (MVZ_WT02)				08:50		09:22 (RHR_WT03)
	21:35	15	07:06 (CBR_WT01)	20:35	12	19:48 (KLZ_WT16)				17:23	22	08:24 (RHR_WT01)				16:47	43	10:21 (ALB_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1194			305			263			245			650			1293	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,66			0,67			0,61			0,56			0,59			0,55	
Total reduction		0,29			0,30			0,26			0,20			0,15			0,12	
Total, real		347			93			68			49			100			156	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 15 - Hageland 14, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (ATS_WT01)	08:24			07:32		07:55 (ALB_WT01)	07:23			06:20		06:49 (KLZ_WT22)	05:37		06:07 (KLZ_WT21)
	16:48	11	09:31 (ATS_WT01)	17:35			18:25	7	08:02 (ALB_WT01)	20:17			21:06	36	07:25 (KLZ_WT16)	21:51	11	06:18 (KLZ_WT21)
2	08:50		09:20 (ATS_WT01)	08:23			07:30			07:21			06:18		06:47 (KLZ_WT22)	05:36		06:09 (KLZ_WT21)
	16:49	12	09:32 (ATS_WT01)	17:37			18:27			20:19			21:08	37	07:24 (KLZ_WT16)	21:52	9	06:18 (KLZ_WT21)
3	08:49		09:20 (ATS_WT01)	08:21			07:28			07:19			06:17		06:47 (KLZ_WT22)	05:35		06:09 (KLZ_WT21)
	16:50	12	09:32 (ATS_WT01)	17:38			18:28			20:20			21:10	37	07:24 (KLZ_WT16)	21:53	8	06:17 (KLZ_WT21)
4	08:49		09:19 (ATS_WT01)	08:20			07:26			07:17			06:15		06:46 (KLZ_WT22)	05:34		06:11 (KLZ_WT21)
	16:52	13	09:32 (ATS_WT01)	17:40			18:30			20:22			21:11	36	07:22 (KLZ_WT16)	21:54	6	06:17 (KLZ_WT21)
5	08:49		09:19 (ATS_WT01)	08:18			07:24			07:14			06:13		06:45 (KLZ_WT22)	05:34		06:12 (KLZ_WT21)
	16:53	14	09:33 (ATS_WT01)	17:42			18:32			20:24			21:13	35	07:20 (KLZ_WT16)	21:55	3	06:15 (KLZ_WT21)
6	08:49		09:19 (ATS_WT01)	08:16			07:22			07:12			06:11		06:45 (KLZ_WT22)	05:33		
	16:54	13	09:32 (ATS_WT01)	17:44			18:34			20:25			21:14	34	07:19 (KLZ_WT16)	21:56		
7	08:48		09:21 (ATS_WT01)	08:15			07:19		07:42 (RHR_WT01)	07:10			06:09		06:45 (KLZ_WT22)	05:33		
	16:55	12	09:33 (ATS_WT01)	17:46			18:35	1	07:43 (RHR_WT01)	20:27			21:16	31	07:16 (KLZ_WT16)	21:57		
8	08:48		09:21 (ATS_WT01)	08:13			07:17		07:40 (RHR_WT01)	07:08			06:08		06:44 (KLZ_WT22)	05:32		
	16:56	11	09:32 (ATS_WT01)	17:47			18:37	1	07:41 (RHR_WT01)	20:29			21:18	26	07:10 (KLZ_WT22)	21:57		
9	08:48		09:22 (ATS_WT01)	08:11			07:15			07:06			06:06		06:45 (KLZ_WT22)	05:32		
	16:58	11	09:33 (ATS_WT01)	17:49			18:39			20:30			21:19	25	07:10 (KLZ_WT22)	21:58		
10	08:47		09:23 (ATS_WT01)	08:09			07:13			07:03			06:04		06:44 (KLZ_WT22)	05:31		
	16:59	9	09:32 (ATS_WT01)	17:51			18:40			20:32			21:21	25	07:09 (KLZ_WT22)	21:59		
11	08:47		09:24 (ATS_WT01)	08:08			07:11			07:01			06:03		06:45 (KLZ_WT22)	05:31		
	17:00	7	09:31 (ATS_WT01)	17:53			18:42			20:34			21:22	25	07:10 (KLZ_WT22)	22:00		
12	08:46		09:27 (ATS_WT01)	08:06			07:08			06:59		07:22 (KLZ_WT08)	06:01		06:45 (KLZ_WT22)	05:30		
	17:02	4	09:31 (ATS_WT01)	17:55			18:44			20:35	1	07:23 (KLZ_WT08)	21:24	24	07:09 (KLZ_WT22)	22:00		
13	08:45			08:04			07:06			06:57		07:19 (KLZ_WT08)	06:00		06:46 (KLZ_WT22)	05:30		
	17:03			17:56			18:45			20:37	3	07:22 (KLZ_WT08)	21:25	23	07:09 (KLZ_WT22)	22:01		
14	08:45			08:02			07:04			06:55		07:17 (KLZ_WT08)	05:58		06:47 (KLZ_WT22)	05:30		
	17:05			17:58			18:47			20:39	4	07:21 (KLZ_WT08)	21:27	21	07:08 (KLZ_WT22)	22:02		
15	08:44			08:00			07:02			06:53		07:15 (KLZ_WT08)	05:57		06:47 (KLZ_WT22)	05:30		
	17:06			18:00			18:49			20:40	4	07:19 (KLZ_WT08)	21:28	20	07:07 (KLZ_WT22)	22:02		
16	08:43			07:59			06:59			06:50		07:13 (CBR_WT01)	05:55		06:48 (KLZ_WT22)	05:30		
	17:08			18:02			18:51			20:42	3	07:16 (CBR_WT01)	21:30	19	07:07 (KLZ_WT22)	22:03		
17	08:42			07:57			06:57			06:48		07:11 (KLZ_WT16)	05:54		06:19 (KLZ_WT23)	05:30		
	17:09			18:04			18:52			20:43	11	07:22 (KLZ_WT16)	21:31	19	07:05 (KLZ_WT22)	22:03		
18	08:41			07:55			06:55			06:46		07:09 (KLZ_WT16)	05:52		06:18 (KLZ_WT23)	05:30		
	17:11			18:05			18:54			20:45	15	07:24 (KLZ_WT16)	21:33	19	07:04 (KLZ_WT22)	22:03		
19	08:40			07:53			06:53			06:44		07:07 (KLZ_WT16)	05:51		06:17 (KLZ_WT21)	05:30		
	17:13			18:07			18:56			20:47	18	07:25 (KLZ_WT16)	21:34	17	07:03 (KLZ_WT22)	22:04		
20	08:39			07:51			06:50			06:42		07:05 (KLZ_WT16)	05:50		06:16 (KLZ_WT21)	05:30		
	17:14			18:09			18:57			20:48	21	07:26 (KLZ_WT16)	21:35	14	07:01 (KLZ_WT22)	22:04		
21	08:38			07:49			06:48			06:40		07:03 (KLZ_WT16)	05:48		06:15 (KLZ_WT21)	05:30		
	17:16			18:11			18:59			20:50	24	07:27 (KLZ_WT16)	21:37	8	06:23 (KLZ_WT23)	22:04		
22	08:37			07:47			06:46			06:38		07:02 (KLZ_WT16)	05:47		06:14 (KLZ_WT21)	05:30		
	17:17			18:13			19:01			20:52	25	07:27 (KLZ_WT16)	21:38	9	06:23 (KLZ_WT23)	22:05		
23	08:36			07:45			06:44			06:36		07:01 (KLZ_WT16)	05:46		06:12 (KLZ_WT21)	05:30		
	17:19			18:14			19:02			20:53	27	07:28 (KLZ_WT16)	21:40	10	06:22 (KLZ_WT23)	22:05		
24	08:35			07:43			06:41			06:34		07:00 (KLZ_WT16)	05:45		06:11 (KLZ_WT21)	05:31		
	17:21			18:16			19:04			20:55	28	07:28 (KLZ_WT16)	21:41	10	06:21 (KLZ_WT23)	22:05		
25	08:34			07:41			06:39			06:32		07:00 (KLZ_WT16)	05:43		06:10 (KLZ_WT21)	05:31		
	17:23			18:18			19:06			20:57	28	07:28 (KLZ_WT16)	21:42	11	06:21 (KLZ_WT23)	22:05		
26	08:32			07:39		08:02 (ALB_WT01)	06:37			06:30		06:59 (KLZ_WT16)	05:42		06:09 (KLZ_WT21)	05:31		
	17:24			18:20	3	08:05 (ALB_WT01)	19:07			20:58	28	07:27 (KLZ_WT16)	21:43	11	06:20 (KLZ_WT23)	22:05		
27	08:31			07:36		08:00 (ALB_WT01)	06:35			06:28		06:59 (KLZ_WT16)	05:41		06:08 (KLZ_WT21)	05:32		
	17:26			18:21	5	08:05 (ALB_WT01)	19:09			21:00	28	07:27 (KLZ_WT16)	21:45	11	06:19 (KLZ_WT21)	22:05		
28	08:30			07:34		07:57 (ALB_WT01)	06:32			06:26		06:56 (KLZ_WT22)	05:40		06:08 (KLZ_WT21)	05:32		
	17:28			18:23	6	08:03 (ALB_WT01)	19:11			21:01	32	07:28 (KLZ_WT16)	21:46	12	06:20 (KLZ_WT21)	22:05		
29	08:28						07:30			06:24		06:53 (KLZ_WT22)	05:39		06:07 (KLZ_WT21)	05:33		
	17:30						20:12			21:03	34	07:27 (KLZ_WT16)	21:47	13	06:20 (KLZ_WT21)	22:05		
30	08:27						07:28			06:22		06:50 (KLZ_WT22)	05:38		06:06 (KLZ_WT21)	05:33		
	17:31						20:14			21:05	36	07:26 (KLZ_WT16)	21:48	13	06:19 (KLZ_WT21)	22:04		
31	08:26						07:26						05:37		06:07 (KLZ_WT21)			
	17:33						20:15						21:49	12	06:19 (KLZ_WT21)			
Potential sun hours	262			279			367			414			482			494		
Total, worst case		129			14			9			370			643			37	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,53			0,55			0,55			0,65			0,67			0,70	
Total reduction		0,13			0,16			0,21			0,29			0,30			0,30	
Total, real		16			2			2			108			192			11	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 15 - Hageland 14, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September	October			November			December		
1	05:34			06:09		06:55 (KLZ_WT22)	06:57	07:45			07:37			08:26		09:06 (ATS_WT01)
	22:04			21:34	24	07:19 (KLZ_WT22)	20:33	19:26			17:21			16:42	7	09:13 (ATS_WT01)
2	05:35			06:11		06:55 (KLZ_WT22)	06:59	07:46			07:38			08:27		09:06 (ATS_WT01)
	22:04			21:32	25	07:20 (KLZ_WT22)	20:31	19:23			17:19			16:42	9	09:15 (ATS_WT01)
3	05:35			06:12		06:55 (KLZ_WT22)	07:00	07:48			07:40			08:29		09:06 (ATS_WT01)
	22:04			21:30	25	07:20 (KLZ_WT22)	20:29	19:21			17:18			16:41	10	09:16 (ATS_WT01)
4	05:36			06:14		06:55 (KLZ_WT22)	07:02	07:49			07:42			08:30		09:06 (ATS_WT01)
	22:03			21:29	26	07:21 (KLZ_WT22)	20:27	19:19			17:16			16:41	11	09:17 (ATS_WT01)
5	05:37			06:15		06:55 (KLZ_WT22)	07:04	07:51			07:44			08:31		09:06 (ATS_WT01)
	22:03			21:27	25	07:20 (KLZ_WT22)	20:25	19:17			17:14			16:40	12	09:18 (ATS_WT01)
6	05:38			06:17		06:54 (KLZ_WT22)	07:05	07:53		08:17 (RHR_WT01)	07:45			08:33		09:06 (ATS_WT01)
	22:02			21:25	32	07:26 (KLZ_WT16)	20:22	19:14	1	08:18 (RHR_WT01)	17:12			16:40	12	09:18 (ATS_WT01)
7	05:39		06:19 (KLZ_WT21)	06:18		06:55 (KLZ_WT22)	07:07	07:54			07:47			08:34		09:06 (ATS_WT01)
	22:02	1	06:20 (KLZ_WT21)	21:24	34	07:29 (KLZ_WT16)	20:20	19:12			17:11			16:39	14	09:20 (ATS_WT01)
8	05:39		06:18 (KLZ_WT21)	06:20		06:55 (KLZ_WT22)	07:08	07:56			07:49			08:35		09:07 (ATS_WT01)
	22:01	5	06:23 (KLZ_WT21)	21:22	35	07:30 (KLZ_WT16)	20:18	19:10			17:09			16:39	13	09:20 (ATS_WT01)
9	05:40		06:17 (KLZ_WT21)	06:21		06:56 (KLZ_WT22)	07:10	07:58			07:51			08:36		09:08 (ATS_WT01)
	22:00	7	06:24 (KLZ_WT21)	21:20	36	07:32 (KLZ_WT16)	20:16	19:08			17:08			16:39	12	09:20 (ATS_WT01)
10	05:41		06:16 (KLZ_WT21)	06:23		06:56 (KLZ_WT22)	07:11	07:59			07:52			08:37		09:09 (ATS_WT01)
	22:00	9	06:25 (KLZ_WT21)	21:18	36	07:32 (KLZ_WT16)	20:13	19:06			17:06			16:39	12	09:21 (ATS_WT01)
11	05:42		06:16 (KLZ_WT21)	06:24		06:57 (KLZ_WT22)	07:13	08:01			07:54			08:38		09:10 (ATS_WT01)
	21:59	10	06:26 (KLZ_WT21)	21:16	37	07:34 (KLZ_WT16)	20:11	19:03			17:04			16:38	11	09:21 (ATS_WT01)
12	05:43		06:15 (KLZ_WT21)	06:26		06:57 (KLZ_WT22)	07:14	08:03		08:31 (ALB_WT01)	07:56			08:39		09:11 (ATS_WT01)
	21:58	12	06:27 (KLZ_WT21)	21:15	37	07:34 (KLZ_WT16)	20:09	19:01	4	08:35 (ALB_WT01)	17:03			16:38	11	09:22 (ATS_WT01)
13	05:44		06:15 (KLZ_WT21)	06:27		06:59 (KLZ_WT22)	07:16	08:04		08:29 (ALB_WT01)	07:57			08:40		09:12 (ATS_WT01)
	21:57	12	06:27 (KLZ_WT21)	21:13	36	07:35 (KLZ_WT16)	20:06	18:59	7	08:36 (ALB_WT01)	17:02			16:38	10	09:22 (ATS_WT01)
14	05:46		06:15 (KLZ_WT21)	06:29		07:01 (KLZ_WT22)	07:18	08:06		08:31 (ALB_WT01)	07:59			08:41		09:13 (ATS_WT01)
	21:57	13	06:28 (KLZ_WT21)	21:11	34	07:35 (KLZ_WT16)	20:04	18:57	6	08:37 (ALB_WT01)	17:00			16:38	10	09:23 (ATS_WT01)
15	05:47		06:16 (KLZ_WT21)	06:31		07:04 (KLZ_WT22)	07:19	08:08		08:33 (ALB_WT01)	08:01			08:42		09:14 (ATS_WT01)
	21:56	12	06:28 (KLZ_WT21)	21:09	30	07:34 (KLZ_WT16)	20:02	18:55	4	08:37 (ALB_WT01)	16:59			16:38	9	09:23 (ATS_WT01)
16	05:48		06:17 (KLZ_WT21)	06:32		07:07 (KLZ_WT16)	07:21	08:09		08:35 (ALB_WT01)	08:03			08:43		09:15 (ATS_WT01)
	21:55	12	06:29 (KLZ_WT21)	21:07	28	07:35 (KLZ_WT16)	20:00	18:53	2	08:37 (ALB_WT01)	16:57			16:38	9	09:24 (ATS_WT01)
17	05:49		06:18 (KLZ_WT21)	06:34		07:06 (KLZ_WT16)	07:22	08:11			08:04			08:44		09:16 (ATS_WT01)
	21:54	11	06:29 (KLZ_WT21)	21:05	28	07:34 (KLZ_WT16)	19:57	18:51			16:56			16:39	8	09:24 (ATS_WT01)
18	05:50		06:19 (KLZ_WT21)	06:35		07:06 (KLZ_WT16)	07:24	08:13			08:06			08:45		09:16 (ATS_WT01)
	21:53	11	06:30 (KLZ_WT23)	21:03	28	07:34 (KLZ_WT16)	19:55	18:48			16:55			16:39	8	09:24 (ATS_WT01)
19	05:51		06:21 (KLZ_WT21)	06:37		07:06 (KLZ_WT16)	07:25	08:14			08:08			08:45		09:17 (ATS_WT01)
	21:51	10	06:31 (KLZ_WT23)	21:01	27	07:33 (KLZ_WT16)	19:53	18:46			16:54			16:39	8	09:25 (ATS_WT01)
20	05:53		06:22 (KLZ_WT21)	06:38		07:07 (KLZ_WT16)	07:27	08:16			08:09			08:46		09:18 (ATS_WT01)
	21:50	10	06:32 (KLZ_WT23)	20:59	26	07:33 (KLZ_WT16)	19:51	18:44			16:52			16:40	8	09:26 (ATS_WT01)
21	05:54		06:23 (KLZ_WT21)	06:40		07:07 (KLZ_WT16)	07:29	08:18			08:11			08:47		09:18 (ATS_WT01)
	21:49	9	06:32 (KLZ_WT23)	20:57	25	07:32 (KLZ_WT16)	19:48	18:42			16:51			16:40	8	09:26 (ATS_WT01)
22	05:55		06:24 (KLZ_WT21)	06:42		07:08 (KLZ_WT16)	07:30	08:19			08:12			08:47		09:19 (ATS_WT01)
	21:48	8	06:32 (KLZ_WT23)	20:55	24	07:32 (KLZ_WT16)	19:46	18:40			16:50			16:40	8	09:27 (ATS_WT01)
23	05:57		06:25 (KLZ_WT21)	06:43		07:09 (KLZ_WT16)	07:32	08:21			08:14			08:48		09:19 (ATS_WT01)
	21:47	9	07:08 (KLZ_WT22)	20:53	21	07:30 (KLZ_WT16)	19:44	18:38			16:49			16:41	8	09:27 (ATS_WT01)
24	05:58		06:27 (KLZ_WT21)	06:45		07:11 (KLZ_WT16)	07:33	08:23			08:16			08:48		09:19 (ATS_WT01)
	21:45	15	07:12 (KLZ_WT22)	20:51	18	07:29 (KLZ_WT16)	19:41	18:36			16:48			16:42	8	09:27 (ATS_WT01)
25	05:59		06:28 (KLZ_WT23)	06:46		07:12 (KLZ_WT16)	07:35	07:24			08:17			08:48		09:20 (ATS_WT01)
	21:44	18	07:14 (KLZ_WT22)	20:48	14	07:26 (KLZ_WT16)	19:39	17:34			16:47			16:42	8	09:28 (ATS_WT01)
26	06:01		06:29 (KLZ_WT23)	06:48		07:14 (KLZ_WT16)	07:37	07:26			08:19			08:49		09:20 (ATS_WT01)
	21:43	19	07:15 (KLZ_WT22)	20:46	10	07:24 (KLZ_WT16)	19:37	17:32			16:46			16:43	8	09:28 (ATS_WT01)
27	06:02		06:31 (KLZ_WT23)	06:49		07:15 (CBR_WT01)	07:38	07:28			08:20			08:49		09:20 (ATS_WT01)
	21:41	19	07:17 (KLZ_WT22)	20:44	3	07:18 (CBR_WT01)	19:35	17:30			16:45			16:44	9	09:29 (ATS_WT01)
28	06:03		06:58 (KLZ_WT22)	06:51		07:17 (KLZ_WT08)	07:40	07:30			08:22			08:49		09:20 (ATS_WT01)
	21:40	19	07:17 (KLZ_WT22)	20:42	4	07:21 (KLZ_WT08)	19:32	17:29			16:44			16:44	9	09:29 (ATS_WT01)
29	06:05		06:57 (KLZ_WT22)	06:53		07:18 (KLZ_WT08)	07:41	07:31			08:23			08:49		09:20 (ATS_WT01)
	21:38	21	07:18 (KLZ_WT22)	20:40	4	07:22 (KLZ_WT08)	19:30	17:27			16:44			16:45	9	09:29 (ATS_WT01)
30	06:06		06:57 (KLZ_WT22)	06:54		07:20 (KLZ_WT08)	07:43	07:33			08:25		09:08 (ATS_WT01)	08:50		09:20 (ATS_WT01)
	21:37	22	07:19 (KLZ_WT22)	20:38	3	07:23 (KLZ_WT08)	19:28	17:25			16:43	4	09:12 (ATS_WT01)	16:46	10	09:30 (ATS_WT01)
31	06:08		06:56 (KLZ_WT22)	06:56		07:21 (KLZ_WT08)		07:35						08:50		09:20 (ATS_WT01)
	21:35	23	07:19 (KLZ_WT22)	20:36	1	07:22 (KLZ_WT08)		17:23						16:47	10	09:30 (ATS_WT01)
Potential sun hours	498			451			380	333			269			248		
Total, worst case		317			736				24			4			299	
Sun reduction		0,45			0,47				0,36			0,27			0,23	
Oper. time red.		0,98			0,98				0,98			0,98			0,98	
Wind dir. red.		0,69			0,65				0,55			0,53			0,53	
Total reduction		0,30			0,30				0,20			0,14			0,12	
Total, real		95			219				5			1			35	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (ALB_WT01)	07:32			07:23		07:46 (KLZ_WT19)	06:20		06:44 (KLZ_WT21)	05:37		
	16:48			17:35	35	09:29 (KLZ_WT16)	18:25			20:17	42	08:39 (KLZ_WT22)	21:06	53	07:47 (KLZ_WT15)	21:51		
2	08:50			08:23		08:48 (ALB_WT01)	07:30			07:21		07:43 (KLZ_WT19)	06:18		06:42 (KLZ_WT21)	05:36		
	16:49			17:37	38	09:29 (KLZ_WT16)	18:27			20:19	44	08:38 (KLZ_WT22)	21:08	53	07:46 (KLZ_WT15)	21:52		
3	08:49			08:21		08:46 (ALB_WT01)	07:28			07:19		07:43 (KLZ_WT19)	06:17		06:41 (KLZ_WT21)	05:35		
	16:50			17:38	40	09:29 (KLZ_WT16)	18:28			20:20	42	08:37 (KLZ_WT22)	21:10	55	07:47 (KLZ_WT15)	21:53		
4	08:49			08:20		08:45 (RHR_WT03)	07:26			07:17		07:45 (KLZ_WT19)	06:15		06:39 (KLZ_WT21)	05:34		
	16:51			17:40	42	09:31 (KLZ_WT16)	18:30			20:22	37	08:37 (KLZ_WT22)	21:11	56	07:46 (KLZ_WT15)	21:54		
5	08:49			08:18		08:43 (RHR_WT03)	07:24			07:14		08:08 (KLZ_WT22)	06:13		06:37 (KLZ_WT23)	05:34		
	16:53			17:42	39	09:31 (KLZ_WT16)	18:32			20:24	28	08:36 (KLZ_WT22)	21:13	56	07:45 (KLZ_WT15)	21:55		
6	08:49			08:16		08:41 (RHR_WT03)	07:22			07:12		08:09 (KLZ_WT22)	06:11		06:38 (KLZ_WT23)	05:33		
	16:54			17:44	40	09:31 (KLZ_WT16)	18:34			20:25	26	08:35 (KLZ_WT22)	21:14	55	07:45 (KLZ_WT15)	21:56		
7	08:48			08:15		08:39 (RHR_WT02)	07:19			07:10		08:09 (KLZ_WT22)	06:09		06:38 (KLZ_WT23)	05:32		
	16:55			17:46	41	09:31 (KLZ_WT16)	18:35			20:27	23	08:32 (KLZ_WT22)	21:16	53	07:44 (KLZ_WT15)	21:57		
8	08:48			08:13		08:38 (RHR_WT02)	07:17			07:08		08:10 (KLZ_WT22)	06:08		06:39 (KLZ_WT21)	05:32		
	16:56			17:47	37	09:32 (KLZ_WT16)	18:37			20:29	20	08:30 (KLZ_WT22)	21:18	49	07:43 (KLZ_WT15)	21:57		
9	08:48			08:11		08:56 (KLZ_WT16)	07:15			07:06		08:12 (KLZ_WT22)	06:06		06:41 (KLZ_WT21)	05:32		
	16:58			17:49	36	09:32 (KLZ_WT16)	18:39			20:30	16	08:28 (KLZ_WT22)	21:19	45	07:43 (KLZ_WT15)	21:58		
10	08:47			08:09		08:56 (KLZ_WT16)	07:13			07:03		08:15 (KLZ_WT22)	06:04		06:42 (KLZ_WT21)	05:31		
	16:59			17:51	35	09:31 (KLZ_WT16)	18:40			20:32	10	08:25 (KLZ_WT22)	21:21	40	07:42 (KLZ_WT15)	21:59		
11	08:47			08:08		08:56 (KLZ_WT16)	07:11			07:01			06:03		07:10 (KLZ_WT15)	05:31		06:00 (KLZ_WT17)
	17:00			17:53	35	09:31 (KLZ_WT16)	18:42			20:34			21:22	31	07:41 (KLZ_WT15)	22:00	1	06:01 (KLZ_WT17)
12	08:46			08:06		08:57 (KLZ_WT16)	07:08			06:59			06:01		07:10 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:02			17:55	34	09:31 (KLZ_WT16)	18:44			20:35			21:24	29	07:39 (KLZ_WT15)	22:00	1	06:00 (KLZ_WT17)
13	08:45			08:04		08:57 (KLZ_WT16)	07:06		07:29 (KLZ_WT08)	06:57			06:00		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:03			17:56	33	09:30 (KLZ_WT16)	18:45	3	07:32 (KLZ_WT08)	20:37			21:25	27	07:39 (KLZ_WT15)	22:01	1	06:00 (KLZ_WT17)
14	08:45			08:02		08:58 (KLZ_WT16)	07:04		07:26 (KLZ_WT08)	06:55			05:58		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:05			17:58	31	09:29 (KLZ_WT16)	18:47	6	07:32 (KLZ_WT08)	20:39			21:27	25	07:37 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
15	08:44			08:00		08:58 (KLZ_WT16)	07:02		07:24 (KLZ_WT08)	06:53			05:57		07:14 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:06			18:00	30	09:28 (KLZ_WT16)	18:49	7	07:31 (KLZ_WT08)	20:40			21:28	22	07:36 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
16	08:43			07:58		08:22 (RHR_WT01)	06:59		07:23 (KLZ_WT08)	06:50		07:26 (KLZ_WT15)	05:55		07:16 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:08			18:02	29	09:27 (KLZ_WT16)	18:51	7	07:30 (KLZ_WT08)	20:42	9	07:35 (KLZ_WT15)	21:30	19	07:35 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
17	08:42			07:57		08:20 (RHR_WT01)	06:57		07:25 (KLZ_WT08)	06:48		07:22 (KLZ_WT15)	05:54		07:17 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:09			18:04	28	09:26 (KLZ_WT16)	18:52	3	07:28 (KLZ_WT08)	20:43	17	07:39 (KLZ_WT15)	21:31	15	07:32 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
18	08:41			07:55		08:18 (RHR_WT01)	06:55			06:46		07:19 (KLZ_WT15)	05:52		07:20 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:11			18:05	23	09:24 (KLZ_WT16)	18:54			20:45	22	07:41 (KLZ_WT15)	21:33	9	07:29 (KLZ_WT15)	22:04	1	06:00 (KLZ_WT17)
19	08:40			07:53		09:04 (KLZ_WT16)	06:53			06:44		07:07 (SAM_WT07)	05:51			05:30		05:59 (KLZ_WT17)
	17:13			18:07	17	09:21 (KLZ_WT16)	18:56			20:47	27	07:42 (KLZ_WT15)	21:34			22:04	1	06:00 (KLZ_WT17)
20	08:39			07:51		09:07 (KLZ_WT16)	06:50			06:42		07:05 (SAM_WT07)	05:50			05:30		05:59 (KLZ_WT17)
	17:14			18:09	11	09:18 (KLZ_WT16)	18:57			20:48	32	07:44 (KLZ_WT15)	21:35			22:04	1	06:00 (KLZ_WT17)
21	08:38			07:49			06:48			06:40		07:03 (SAM_WT07)	05:48			05:30		06:00 (KLZ_WT17)
	17:16			18:11			18:59			20:50	35	07:45 (KLZ_WT15)	21:37			22:04	1	06:01 (KLZ_WT17)
22	08:37			07:47			06:46		07:20 (KLZ_WT22)	06:38		07:12 (KLZ_WT15)	05:47			05:30		06:00 (KLZ_WT17)
	17:17			18:13			19:01	13	07:33 (KLZ_WT22)	20:52	33	07:45 (KLZ_WT15)	21:38			22:05	1	06:01 (KLZ_WT17)
23	08:36			07:45			06:44		07:17 (KLZ_WT22)	06:36		07:11 (KLZ_WT15)	05:46			05:30		06:00 (KLZ_WT17)
	17:19			18:14			19:02	18	07:35 (KLZ_WT22)	20:53	35	07:46 (KLZ_WT15)	21:40			22:05	1	06:01 (KLZ_WT17)
24	08:35			07:43			06:41		07:15 (KLZ_WT22)	06:34		07:10 (KLZ_WT15)	05:45			05:31		06:00 (KLZ_WT17)
	17:21			18:16			19:04	22	07:37 (KLZ_WT22)	20:55	36	07:46 (KLZ_WT15)	21:41			22:05	1	06:01 (KLZ_WT17)
25	08:34		09:06 (KLZ_WT16)	07:41			06:39		07:13 (KLZ_WT22)	06:32		07:09 (KLZ_WT15)	05:43			05:31		06:01 (KLZ_WT17)
	17:23	11	09:17 (KLZ_WT16)	18:18			19:06	25	07:38 (KLZ_WT22)	20:57	38	07:47 (KLZ_WT15)	21:42			22:05	1	06:02 (KLZ_WT17)
26	08:32		09:04 (KLZ_WT16)	07:39		08:02 (MVN_WT01)	06:37		07:12 (KLZ_WT22)	06:30		07:08 (KLZ_WT15)	05:42			05:31		06:01 (KLZ_WT17)
	17:24	16	09:20 (KLZ_WT16)	18:20	1	08:03 (MVN_WT01)	19:07	27	07:39 (KLZ_WT22)	20:58	39	07:47 (KLZ_WT15)	21:43			22:05	1	06:02 (KLZ_WT17)
27	08:31		09:02 (KLZ_WT16)	07:36			06:35		07:11 (KLZ_WT22)	06:28		06:51 (KLZ_WT21)	05:41			05:32		06:02 (KLZ_WT17)
	17:26	20	09:22 (KLZ_WT16)	18:21			19:09	28	07:39 (KLZ_WT22)	21:00	41	07:47 (KLZ_WT15)	21:45			22:05	1	06:03 (KLZ_WT17)
28	08:30		09:01 (KLZ_WT16)	07:34			06:32		06:55 (KLZ_WT19)	06:26		06:50 (KLZ_WT21)	05:40			05:32		06:02 (KLZ_WT17)
	17:28	23	09:24 (KLZ_WT16)	18:23			19:11	32	07:40 (KLZ_WT22)	21:01	44	07:48 (KLZ_WT15)	21:46			22:05	1	06:03 (KLZ_WT17)
29	08:28		09:00 (KLZ_WT16)				07:30		07:52 (KLZ_WT19)	06:24		06:48 (KLZ_WT21)	05:39			05:33		06:03 (KLZ_WT17)
	17:29	25	09:25 (KLZ_WT16)				20:12	36	08:39 (KLZ_WT22)	21:03	48	07:48 (KLZ_WT15)	21:47			22:05	1	06:04 (KLZ_WT17)
30	08:27		08:53 (ALB_WT01)				07:28		07:50 (KLZ_WT19)	06:22		06:46 (KLZ_WT21)	05:38			05:33		06:03 (KLZ_WT17)
	17:31	29	09:27 (KLZ_WT16)				20:14	38	08:39 (KLZ_WT22)	21:05	49	07:47 (KLZ_WT15)	21:48			22:05	1	06:04 (KLZ_WT17)
31	08:26		08:51 (ALB_WT01)				07:26		07:48 (KLZ_WT19)				05:37					
	17:33	32	09:27 (KLZ_WT16)				20:15	40	08:39 (KLZ_WT22)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case	156			655			305			793			692			20		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,55			0,55			0,61			0,63			0,65			0,71		
Total reduction	0,13			0,16			0,22			0,29			0,29			0,31		
Total, real	21			105			68			226			201			6		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December
1	05:34		06:04 (KLZ_WT17)	06:09		07:20 (KLZ_WT15)	06:57			07:45		08:09 (KLZ_WT08)	07:37		08:26 (KLZ_WT16)	08:26
	22:04	1	06:05 (KLZ_WT17)	21:34	30	07:50 (KLZ_WT15)	20:33			19:26	2	08:11 (KLZ_WT08)	17:21	35	09:01 (KLZ_WT16)	16:42
2	05:35		06:04 (KLZ_WT17)	06:11		06:55 (KLZ_WT21)	06:59		08:13 (KLZ_WT22)	07:46			07:38		08:26 (KLZ_WT16)	08:27
	22:04	1	06:05 (KLZ_WT17)	21:32	35	07:52 (KLZ_WT15)	20:31	10	08:23 (KLZ_WT22)	19:23			17:19	35	09:01 (KLZ_WT16)	16:42
3	05:35			06:12		06:52 (KLZ_WT21)	07:00		08:10 (KLZ_WT22)	07:48			07:40		08:08 (RHR_WT02)	08:29
	22:04			21:30	42	07:52 (KLZ_WT15)	20:29	16	08:26 (KLZ_WT22)	19:21			17:18	37	09:02 (KLZ_WT16)	16:41
4	05:36			06:14		06:51 (KLZ_WT21)	07:02		08:08 (KLZ_WT22)	07:49			07:42		08:09 (RHR_WT02)	08:30
	22:03			21:29	47	07:54 (KLZ_WT15)	20:27	19	08:27 (KLZ_WT22)	19:19			17:16	41	09:01 (KLZ_WT16)	16:40
5	05:37			06:15		06:49 (KLZ_WT21)	07:03		08:06 (KLZ_WT22)	07:51			07:44		08:11 (RHR_WT03)	08:31
	22:03			21:27	50	07:54 (KLZ_WT15)	20:24	23	08:29 (KLZ_WT22)	19:17			17:14	41	09:01 (KLZ_WT16)	16:40
6	05:38			06:17		06:48 (KLZ_WT21)	07:05		08:04 (KLZ_WT22)	07:53			07:45		08:13 (RHR_WT03)	08:33
	22:02			21:25	53	07:54 (KLZ_WT15)	20:22	26	08:30 (KLZ_WT22)	19:14			17:12	41	09:01 (KLZ_WT16)	16:40
7	05:38			06:18		06:47 (KLZ_WT23)	07:07		08:03 (KLZ_WT22)	07:54			07:47		08:15 (RHR_WT03)	08:34
	22:02			21:24	56	07:55 (KLZ_WT15)	20:20	28	08:31 (KLZ_WT22)	19:12			17:11	42	09:00 (KLZ_WT16)	16:39
8	05:39			06:20		06:47 (KLZ_WT21)	07:08		07:39 (KLZ_WT19)	07:56			07:49		08:17 (ALB_WT01)	08:35
	22:01			21:22	57	07:55 (KLZ_WT15)	20:18	37	08:31 (KLZ_WT22)	19:10			17:09	40	09:00 (KLZ_WT16)	16:39
9	05:40			06:21		06:49 (KLZ_WT21)	07:10		07:38 (KLZ_WT19)	07:58			07:51		08:19 (ALB_WT01)	08:36
	22:00			21:20	56	07:56 (KLZ_WT15)	20:16	42	08:32 (KLZ_WT22)	19:08			17:08	38	09:00 (KLZ_WT16)	16:39
10	05:41			06:23		06:50 (KLZ_WT21)	07:11		07:36 (KLZ_WT19)	07:59			07:52		08:21 (ALB_WT01)	08:37
	22:00			21:18	55	07:55 (KLZ_WT15)	20:13	44	08:31 (KLZ_WT22)	19:06			17:06	34	08:59 (KLZ_WT16)	16:38
11	05:42			06:24		06:52 (KLZ_WT21)	07:13		07:38 (KLZ_WT19)	08:01			07:54		08:23 (ALB_WT01)	08:38
	21:59			21:16	53	07:56 (KLZ_WT15)	20:11	42	08:31 (KLZ_WT22)	19:03			17:04	32	08:59 (KLZ_WT16)	16:38
12	05:43			06:26		06:53 (KLZ_WT21)	07:14		07:39 (KLZ_WT19)	08:03			07:56		08:31 (KLZ_WT16)	08:39
	21:58			21:15	51	07:55 (KLZ_WT15)	20:09	42	08:31 (KLZ_WT22)	19:01			17:03	27	08:58 (KLZ_WT16)	16:38
13	05:44			06:27		06:54 (KLZ_WT21)	07:16		07:41 (KLZ_WT19)	08:04			07:57		08:32 (KLZ_WT16)	08:40
	21:57			21:13	50	07:55 (KLZ_WT15)	20:06	40	08:31 (KLZ_WT22)	18:59			17:02	25	08:57 (KLZ_WT16)	16:38
14	05:45			06:29		06:56 (KLZ_WT21)	07:18		07:42 (KLZ_WT19)	08:06			07:59		08:33 (KLZ_WT16)	08:41
	21:57			21:11	46	07:55 (KLZ_WT15)	20:04	36	08:30 (KLZ_WT22)	18:57			17:00	23	08:56 (KLZ_WT16)	16:38
15	05:47			06:31		06:57 (KLZ_WT21)	07:19		07:44 (KLZ_WT19)	08:07			08:01		08:35 (KLZ_WT16)	08:42
	21:56			21:09	43	07:54 (KLZ_WT15)	20:02	32	08:29 (KLZ_WT22)	18:55			16:59	20	08:55 (KLZ_WT16)	16:38
16	05:48			06:32		07:15 (KLZ_WT15)	07:21		08:00 (KLZ_WT22)	08:09		08:35 (MVN_WT01)	08:03		08:37 (KLZ_WT16)	08:43
	21:55			21:07	39	07:54 (KLZ_WT15)	20:00	29	08:29 (KLZ_WT22)	18:53	1	08:36 (MVN_WT01)	16:57	16	08:53 (KLZ_WT16)	16:38
17	05:49			06:34		07:15 (KLZ_WT15)	07:22		08:00 (KLZ_WT22)	08:11			08:04		08:40 (KLZ_WT16)	08:44
	21:54			21:05	38	07:53 (KLZ_WT15)	19:57	27	08:27 (KLZ_WT22)	18:51			16:56	11	08:51 (KLZ_WT16)	16:39
18	05:50			06:35		07:16 (KLZ_WT15)	07:24		08:01 (KLZ_WT22)	08:13			08:06			08:45
	21:53			21:03	37	07:53 (KLZ_WT15)	19:55	25	08:26 (KLZ_WT22)	18:48			16:55			16:39
19	05:51			06:37		07:16 (KLZ_WT15)	07:25		08:02 (KLZ_WT22)	08:14			08:08			08:45
	21:51			21:01	36	07:52 (KLZ_WT15)	19:53	22	08:24 (KLZ_WT22)	18:46			16:54			16:39
20	05:53			06:38		07:17 (KLZ_WT15)	07:27		08:03 (KLZ_WT22)	08:16			08:09			08:46
	21:50			20:59	35	07:52 (KLZ_WT15)	19:51	19	08:22 (KLZ_WT22)	18:44			16:52			16:40
21	05:54			06:40		07:17 (KLZ_WT15)	07:29		08:05 (KLZ_WT22)	08:18			08:11			08:47
	21:49			20:57	33	07:50 (KLZ_WT15)	19:48	14	08:19 (KLZ_WT22)	18:42			16:51			16:40
22	05:55			06:41		07:08 (SAM_WT07)	07:30		08:10 (KLZ_WT22)	08:19		09:36 (KLZ_WT16)	08:12			08:47
	21:48			20:55	34	07:49 (KLZ_WT15)	19:46	4	08:14 (KLZ_WT22)	18:40	14	09:50 (KLZ_WT16)	16:50			16:40
23	05:57			06:43		07:09 (SAM_WT07)	07:32			08:21		09:34 (KLZ_WT16)	08:14			08:48
	21:47			20:53	31	07:47 (KLZ_WT15)	19:44			18:38	18	09:52 (KLZ_WT16)	16:49			16:41
24	05:58			06:45		07:11 (SAM_WT07)	07:33			08:23		08:49 (RHR_WT01)	08:16			08:48
	21:45			20:51	27	07:46 (KLZ_WT15)	19:41			18:36	25	09:55 (KLZ_WT16)	16:48			16:42
25	05:59		07:34 (KLZ_WT15)	06:46		07:22 (KLZ_WT15)	07:35			07:24		07:51 (RHR_WT01)	08:17			08:48
	21:44	3	07:37 (KLZ_WT15)	20:48	21	07:43 (KLZ_WT15)	19:39			17:34	27	08:56 (KLZ_WT16)	16:47			16:42
26	06:01		07:29 (KLZ_WT15)	06:48		07:25 (KLZ_WT15)	07:37			07:26		07:53 (RHR_WT01)	08:19			08:49
	21:43	12	07:41 (KLZ_WT15)	20:46	16	07:41 (KLZ_WT15)	19:37			17:32	30	08:58 (KLZ_WT16)	16:46			16:43
27	06:02		07:28 (KLZ_WT15)	06:49		07:28 (KLZ_WT15)	07:38		08:05 (KLZ_WT08)	07:28		08:28 (KLZ_WT16)	08:20			08:49
	21:41	16	07:44 (KLZ_WT15)	20:44	8	07:36 (KLZ_WT15)	19:35	7	08:12 (KLZ_WT08)	17:30	30	08:58 (KLZ_WT16)	16:45			16:44
28	06:03		07:26 (KLZ_WT15)	06:51			07:40		08:04 (KLZ_WT08)	07:30		08:27 (KLZ_WT16)	08:22			08:49
	21:40	20	07:46 (KLZ_WT15)	20:42			19:32	8	08:12 (KLZ_WT08)	17:28	32	08:59 (KLZ_WT16)	16:44			16:44
29	06:05		07:24 (KLZ_WT15)	06:52			07:41		08:06 (KLZ_WT08)	07:31		08:26 (KLZ_WT16)	08:23			08:49
	21:38	23	07:47 (KLZ_WT15)	20:40			19:30	6	08:12 (KLZ_WT08)	17:27	34	09:00 (KLZ_WT16)	16:44			16:45
30	06:06		07:23 (KLZ_WT15)	06:54			07:43		08:08 (KLZ_WT08)	07:33		08:26 (KLZ_WT16)	08:25			08:50
	21:37	26	07:49 (KLZ_WT15)	20:38			19:28	4	08:12 (KLZ_WT08)	17:25	34	09:00 (KLZ_WT16)	16:43			16:46
31	06:08		07:22 (KLZ_WT15)	06:56						07:35		08:26 (KLZ_WT16)				08:50
	21:35	28	07:50 (KLZ_WT15)	20:36						17:23	35	09:01 (KLZ_WT16)				16:47
Potential sun hours	498			451			380			333			269			248
Total, worst case		130			1079			602			282			538		
Sun reduction		0,45			0,47			0,43			0,36			0,27		
Oper. time red.		0,98			0,98			0,98			0,98			0,98		
Wind dir. red.		0,64			0,65			0,61			0,55			0,55		
Total reduction		0,28			0,30			0,26			0,19			0,14		
Total, real		37			319			155			55			77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		12:37 (KLZ_WT16)	08:24			07:32			07:23		07:46 (KLZ_WT19)	06:20			05:37		06:24 (KLZ_WT21)
	16:48	47	13:24 (KLZ_WT16)	17:35			18:25			20:17	72	09:28 (KLZ_WT22)	21:06			21:51	15	06:39 (KLZ_WT21)
2	08:50		12:38 (KLZ_WT16)	08:23			07:30			07:21		07:43 (KLZ_WT19)	06:18			05:36		06:25 (KLZ_WT21)
	16:49	46	13:24 (KLZ_WT16)	17:37			18:27			20:19	75	09:27 (KLZ_WT22)	21:08			21:52	14	06:39 (KLZ_WT21)
3	08:49		12:39 (KLZ_WT16)	08:21			07:28			07:19		07:43 (KLZ_WT19)	06:17			05:35		06:26 (KLZ_WT21)
	16:50	46	13:25 (KLZ_WT16)	17:38			18:28			20:20	75	09:27 (KLZ_WT22)	21:10			21:53	12	06:38 (KLZ_WT21)
4	08:49		12:39 (KLZ_WT16)	08:19			07:26		07:49 (KLZ_WT08)	07:17		07:43 (KLZ_WT19)	06:15			05:34		06:27 (KLZ_WT21)
	16:51	45	13:24 (KLZ_WT16)	17:40			18:30	5	07:54 (KLZ_WT08)	20:22	74	09:27 (KLZ_WT22)	21:11			21:54	10	06:37 (KLZ_WT21)
5	08:49		12:40 (KLZ_WT16)	08:18			07:24		07:47 (KLZ_WT08)	07:14		07:44 (KLZ_WT19)	06:13			05:34		06:28 (KLZ_WT21)
	16:53	44	13:24 (KLZ_WT16)	17:42			18:32	9	07:56 (KLZ_WT08)	20:24	71	09:26 (KLZ_WT22)	21:13			21:55	8	06:36 (KLZ_WT21)
6	08:49		12:41 (KLZ_WT16)	08:16		08:41 (RHR_WT01)	07:22		07:44 (KLZ_WT08)	07:12		07:44 (KLZ_WT19)	06:11		06:36 (SAM_WT06)	05:33		06:30 (KLZ_WT21)
	16:54	43	13:24 (KLZ_WT16)	17:44	2	08:43 (RHR_WT01)	18:33	12	07:56 (KLZ_WT08)	20:25	68	09:25 (KLZ_WT22)	21:14	2	06:38 (SAM_WT06)	21:56	4	06:34 (KLZ_WT21)
7	08:48		09:18 (ALB_WT01)	08:15		08:39 (RHR_WT01)	07:19		07:43 (KLZ_WT08)	07:10		07:46 (KLZ_WT19)	06:09		06:34 (SAM_WT06)	05:32		
	16:55	44	13:24 (KLZ_WT16)	17:46	3	08:42 (RHR_WT01)	18:35	14	07:57 (KLZ_WT08)	20:27	63	09:24 (KLZ_WT22)	21:16	3	06:37 (SAM_WT06)	21:56		
8	08:48		09:17 (ALB_WT01)	08:13		08:38 (RHR_WT01)	07:17		07:42 (KLZ_WT08)	07:08		08:29 (KLZ_WT22)	06:08		06:32 (KLZ_WT23)	05:32		
	16:56	43	13:23 (KLZ_WT16)	17:47	5	08:43 (RHR_WT01)	18:37	15	07:57 (KLZ_WT08)	20:29	55	09:24 (KLZ_WT22)	21:17	4	06:36 (SAM_WT06)	21:57		
9	08:48		09:17 (ALB_WT01)	08:11		08:36 (RHR_WT01)	07:15		07:42 (KLZ_WT08)	07:06		08:29 (KLZ_WT22)	06:06		06:31 (KLZ_WT21)	05:31		
	16:58	43	13:24 (KLZ_WT16)	17:49	5	08:41 (RHR_WT01)	18:39	15	07:57 (KLZ_WT08)	20:30	54	09:23 (KLZ_WT22)	21:19	6	06:37 (KLZ_WT23)	21:58		
10	08:47		09:16 (ALB_WT01)	08:09		08:34 (RHR_WT01)	07:13		07:42 (KLZ_WT08)	07:03		08:29 (KLZ_WT22)	06:04		06:29 (KLZ_WT21)	05:31		
	16:59	43	13:23 (KLZ_WT16)	17:51	6	08:40 (RHR_WT01)	18:40	13	07:55 (KLZ_WT08)	20:32	54	09:23 (KLZ_WT22)	21:21	9	06:38 (KLZ_WT23)	21:59		
11	08:46		09:15 (ALB_WT01)	08:08			07:11		07:43 (KLZ_WT08)	07:01		08:30 (KLZ_WT22)	06:03		06:28 (KLZ_WT21)	05:31		
	17:00	42	13:22 (KLZ_WT16)	17:53			18:42	11	07:54 (KLZ_WT08)	20:34	52	09:22 (KLZ_WT22)	21:22	11	06:39 (KLZ_WT21)	22:00		
12	08:46		09:15 (ALB_WT01)	08:06			07:08		07:44 (KLZ_WT08)	06:59		08:29 (KLZ_WT22)	06:01		06:26 (KLZ_WT21)	05:30		
	17:02	41	13:22 (KLZ_WT16)	17:55			18:44	8	07:52 (KLZ_WT08)	20:35	51	09:20 (KLZ_WT22)	21:24	13	06:39 (KLZ_WT21)	22:00		
13	08:45		09:14 (ALB_WT01)	08:04			07:06			06:57		08:29 (KLZ_WT22)	06:00		06:25 (KLZ_WT21)	05:30		
	17:03	39	13:21 (KLZ_WT16)	17:56			18:45			20:37	50	09:19 (KLZ_WT22)	21:25	15	06:40 (KLZ_WT21)	22:01		
14	08:45		09:13 (ALB_WT01)	08:02			07:04			06:55		08:30 (KLZ_WT22)	05:58		06:23 (KLZ_WT21)	05:30		
	17:05	38	13:20 (KLZ_WT16)	17:58			18:47			20:39	47	09:17 (KLZ_WT22)	21:27	17	06:40 (KLZ_WT21)	22:02		
15	08:44		09:12 (ALB_WT01)	08:00			07:02			06:53		08:31 (KLZ_WT22)	05:57		06:22 (KLZ_WT21)	05:30		
	17:06	35	13:18 (KLZ_WT16)	18:00			18:49			20:40	45	09:16 (KLZ_WT22)	21:28	19	06:41 (KLZ_WT21)	22:02		
16	08:43		09:12 (ALB_WT01)	07:58			06:59			06:50		08:32 (KLZ_WT22)	05:55		06:21 (KLZ_WT21)	05:30		
	17:08	29	13:15 (KLZ_WT16)	18:02			18:51			20:42	43	09:15 (KLZ_WT22)	21:30	21	06:42 (KLZ_WT21)	22:03		
17	08:42		09:10 (RHR_WT03)	07:57			06:57			06:48		08:33 (KLZ_WT22)	05:54		06:19 (KLZ_WT21)	05:30		
	17:09	17	13:10 (KLZ_WT16)	18:04			18:52			20:43	40	09:13 (KLZ_WT22)	21:31	23	06:42 (KLZ_WT21)	22:03		
18	08:41		09:09 (RHR_WT03)	07:55			06:55		07:55 (KLZ_WT22)	06:46		08:34 (KLZ_WT22)	05:52		06:18 (KLZ_WT21)	05:30		
	17:11	13	09:23 (ALB_WT01)	18:05			18:54	18	08:13 (KLZ_WT22)	20:45	37	09:11 (KLZ_WT22)	21:33	24	06:42 (KLZ_WT21)	22:03		
19	08:40		09:08 (RHR_WT03)	07:53			06:53		07:51 (KLZ_WT22)	06:44		08:35 (KLZ_WT22)	05:51		06:19 (KLZ_WT21)	05:30		
	17:13	13	09:23 (ALB_WT01)	18:07			18:56	25	08:16 (KLZ_WT22)	20:47	34	09:09 (KLZ_WT22)	21:34	23	06:42 (KLZ_WT21)	22:04		
20	08:39		09:07 (RHR_WT03)	07:51		08:14 (MVN_WT01)	06:50		07:49 (KLZ_WT22)	06:42		08:37 (KLZ_WT22)	05:49		06:19 (KLZ_WT21)	05:30		
	17:14	11	09:22 (ALB_WT01)	18:09	2	08:16 (MVN_WT01)	18:57	30	08:19 (KLZ_WT22)	20:48	30	09:07 (KLZ_WT22)	21:35	24	06:43 (KLZ_WT21)	22:04		
21	08:38		09:05 (RHR_WT03)	07:49		08:12 (MVN_WT01)	06:48		07:45 (KLZ_WT22)	06:40		08:38 (KLZ_WT22)	05:48		06:19 (KLZ_WT21)	05:30		
	17:16	7	09:12 (RHR_WT03)	18:11	3	08:15 (MVN_WT01)	18:59	35	08:20 (KLZ_WT22)	20:50	26	09:04 (KLZ_WT22)	21:37	24	06:43 (KLZ_WT21)	22:04		
22	08:37		09:04 (RHR_WT03)	07:47		08:10 (MVN_WT01)	06:46		07:08 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:18 (KLZ_WT21)	05:30		
	17:17	8	09:12 (RHR_WT03)	18:12	3	08:13 (MVN_WT01)	19:01	40	08:22 (KLZ_WT22)	20:52	22	09:01 (KLZ_WT22)	21:38	24	06:42 (KLZ_WT21)	22:05		
23	08:36		09:03 (RHR_WT03)	07:45			06:44		07:06 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		06:19 (KLZ_WT21)	05:30		
	17:19	9	09:12 (RHR_WT03)	18:14			19:02	45	08:24 (KLZ_WT22)	20:53	15	08:56 (KLZ_WT22)	21:40	23	06:42 (KLZ_WT21)	22:05		
24	08:35		09:02 (RHR_WT03)	07:43		08:06 (MXS_WT01)	06:41		07:04 (KLZ_WT10)	06:34		06:57 (SAM_WT07)	05:44		06:19 (KLZ_WT21)	05:31		
	17:21	10	09:12 (RHR_WT03)	18:16	2	08:08 (MXS_WT01)	19:04	50	08:25 (KLZ_WT22)	20:55	5	07:02 (SAM_WT07)	21:41	23	06:42 (KLZ_WT21)	22:05		
25	08:34		09:02 (RHR_WT03)	07:41		08:04 (MXS_WT01)	06:39		07:01 (KLZ_WT10)	06:32		06:55 (SAM_WT07)	05:43		06:19 (KLZ_WT21)	05:31		
	17:22	8	09:10 (RHR_WT03)	18:18	2	08:06 (MXS_WT01)	19:06	53	08:25 (KLZ_WT22)	20:57	6	07:01 (SAM_WT07)	21:42	22	06:41 (KLZ_WT21)	22:05		
26	08:32		08:59 (RHR_WT02)	07:39			06:37		07:02 (KLZ_WT10)	06:30		06:53 (SAM_WT07)	05:42		06:20 (KLZ_WT21)	05:31		
	17:24	4	09:08 (RHR_WT03)	18:20			19:07	51	08:26 (KLZ_WT22)	20:58	7	07:00 (SAM_WT07)	21:43	21	06:41 (KLZ_WT21)	22:05		
27	08:31		08:57 (RHR_WT02)	07:36			06:35		07:36 (KLZ_WT22)	06:28			05:41		06:20 (KLZ_WT21)	05:32		
	17:26	3	09:00 (RHR_WT02)	18:21			19:09	51	08:27 (KLZ_WT22)	21:00			21:45	21	06:41 (KLZ_WT21)	22:05		
28	08:30		08:56 (RHR_WT02)	07:34			06:32		06:55 (KLZ_WT19)	06:26			05:40		06:22 (KLZ_WT21)	05:32		
	17:28	4	09:00 (RHR_WT02)	18:23			19:10	57	08:27 (KLZ_WT22)	21:01			21:46	19	06:41 (KLZ_WT21)	22:05		
29	08:28		08:54 (RHR_WT02)				07:30		07:52 (KLZ_WT19)	06:24			05:39		06:22 (KLZ_WT21)	05:33		
	17:29	4	08:58 (RHR_WT02)				20:12	62	09:27 (KLZ_WT22)	21:03			21:47	19	06:41 (KLZ_WT21)	22:05		
30	08:27						07:28		07:50 (KLZ_WT19)	06:22			05:38		06:23 (KLZ_WT21)	05:33		
	17:31						20:14	65	09:27 (KLZ_WT22)	21:05			21:48	17	06:40 (KLZ_WT21)	22:04		
31	08:26						07:26		07:48 (KLZ_WT19)				05:37		06:23 (KLZ_WT21)			
	17:33						20:15	69	09:27 (KLZ_WT22)				21:49	16	06:39 (KLZ_WT21)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		779			33			753			1171			443			63	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,65			0,56			0,58			0,58			0,69			0,69	
Total reduction		0,16			0,16			0,21			0,26			0,31			0,30	
Total, real		122			5			162			309			137			19	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (KLZ_WT21)	06:57		08:28 (KLZ_WT22)	07:45		08:24 (KLZ_WT08)	07:37		08:04 (RHR_WT01)	08:26		08:57 (ALB_WT01)
	22:04			21:34	12	06:49 (KLZ_WT21)	20:33	53	09:21 (KLZ_WT22)	19:25	6	08:30 (KLZ_WT08)	17:21	6	08:10 (RHR_WT01)	16:42	42	13:04 (KLZ_WT16)
2	05:35			06:11		06:39 (KLZ_WT21)	06:59		08:27 (KLZ_WT22)	07:46		08:22 (KLZ_WT08)	07:38		08:06 (RHR_WT01)	08:27		08:59 (ALB_WT01)
	22:04			21:32	10	06:49 (KLZ_WT21)	20:31	54	09:21 (KLZ_WT22)	19:23	10	08:32 (KLZ_WT08)	17:19	5	08:11 (RHR_WT01)	16:42	43	13:06 (KLZ_WT16)
3	05:35			06:12		06:40 (KLZ_WT21)	07:00		08:27 (KLZ_WT22)	07:48		08:20 (KLZ_WT08)	07:40		08:08 (RHR_WT01)	08:29		09:00 (ALB_WT01)
	22:04			21:30	8	06:48 (KLZ_WT23)	20:29	54	09:21 (KLZ_WT22)	19:21	13	08:33 (KLZ_WT08)	17:18	4	08:12 (RHR_WT01)	16:41	43	13:07 (KLZ_WT16)
4	05:36			06:14		06:41 (KLZ_WT21)	07:02		08:26 (KLZ_WT22)	07:49		08:19 (KLZ_WT08)	07:42		08:09 (RHR_WT01)	08:30		09:02 (ALB_WT01)
	22:03			21:29	5	06:46 (KLZ_WT23)	20:27	55	09:21 (KLZ_WT22)	19:19	14	08:33 (KLZ_WT08)	17:16	3	08:12 (RHR_WT01)	16:40	43	13:08 (KLZ_WT16)
5	05:37			06:15		06:43 (KLZ_WT23)	07:03		07:43 (KLZ_WT19)	07:51		08:19 (KLZ_WT08)	07:44		08:11 (RHR_WT01)	08:31		09:03 (ALB_WT01)
	22:03			21:27	4	06:47 (SAM_WT06)	20:24	64	09:22 (KLZ_WT22)	19:17	15	08:34 (KLZ_WT08)	17:14	1	08:12 (RHR_WT01)	16:40	44	13:09 (KLZ_WT16)
6	05:38			06:17		06:44 (SAM_WT06)	07:05		07:40 (KLZ_WT19)	07:53		08:18 (KLZ_WT08)	07:45			08:33		09:04 (ALB_WT01)
	22:02			21:25	3	06:47 (SAM_WT06)	20:22	68	09:21 (KLZ_WT22)	19:14	15	08:33 (KLZ_WT08)	17:12			16:40	44	13:10 (KLZ_WT16)
7	05:38		06:35 (KLZ_WT21)	06:18		06:46 (SAM_WT06)	07:07		07:39 (KLZ_WT19)	07:54		08:19 (KLZ_WT08)	07:47			08:34		12:27 (KLZ_WT16)
	22:02	6	06:41 (KLZ_WT21)	21:24	1	06:47 (SAM_WT06)	20:20	71	09:21 (KLZ_WT22)	19:12	13	08:32 (KLZ_WT08)	17:11			16:39	44	13:11 (KLZ_WT16)
8	05:39		06:34 (KLZ_WT21)	06:20			07:08		07:37 (KLZ_WT19)	07:56		08:21 (KLZ_WT08)	07:49			08:35		12:27 (KLZ_WT16)
	22:01	9	06:43 (KLZ_WT21)	21:22			20:18	74	09:21 (KLZ_WT22)	19:10	11	08:32 (KLZ_WT08)	17:09			16:39	45	13:12 (KLZ_WT16)
9	05:40		06:33 (KLZ_WT21)	06:21			07:10		07:37 (KLZ_WT19)	07:58		08:22 (KLZ_WT08)	07:51			08:36		12:27 (KLZ_WT16)
	22:00	11	06:44 (KLZ_WT21)	21:20			20:15	75	09:21 (KLZ_WT22)	19:08	7	08:29 (KLZ_WT08)	17:08			16:39	46	13:13 (KLZ_WT16)
10	05:41		06:33 (KLZ_WT21)	06:23			07:11		07:36 (KLZ_WT19)	07:59		08:24 (KLZ_WT08)	07:52			08:37		12:27 (KLZ_WT16)
	22:00	13	06:46 (KLZ_WT21)	21:18			20:13	75	09:20 (KLZ_WT22)	19:05	2	08:26 (KLZ_WT08)	17:06			16:38	46	13:13 (KLZ_WT16)
11	05:42		06:32 (KLZ_WT21)	06:24			07:13		07:38 (KLZ_WT19)	08:01			07:54			08:38		12:27 (KLZ_WT16)
	21:59	15	06:47 (KLZ_WT21)	21:16			20:11	72	09:20 (KLZ_WT22)	19:03			17:04			16:38	47	13:14 (KLZ_WT16)
12	05:43		06:32 (KLZ_WT21)	06:26			07:14		07:39 (KLZ_WT19)	08:02			07:56			08:39		12:27 (KLZ_WT16)
	21:58	15	06:47 (KLZ_WT21)	21:14			20:09	70	09:19 (KLZ_WT22)	19:01			17:03			16:38	48	13:15 (KLZ_WT16)
13	05:44		06:31 (KLZ_WT21)	06:27			07:16		07:41 (KLZ_WT19)	08:04			07:57		08:26 (RHR_WT02)	08:40		12:27 (KLZ_WT16)
	21:57	17	06:48 (KLZ_WT21)	21:13			20:06	67	09:19 (KLZ_WT22)	18:59			17:01	4	08:30 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
14	05:45		06:31 (KLZ_WT21)	06:29			07:18		07:42 (KLZ_WT19)	08:06			07:59		08:28 (RHR_WT02)	08:41		12:27 (KLZ_WT16)
	21:56	18	06:49 (KLZ_WT21)	21:11			20:04	63	09:17 (KLZ_WT22)	18:57			17:00	4	08:32 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
15	05:47		06:30 (KLZ_WT21)	06:31			07:19		07:44 (KLZ_WT19)	08:07			08:01		08:30 (RHR_WT02)	08:42		12:28 (KLZ_WT16)
	21:56	20	06:50 (KLZ_WT21)	21:09			20:02	59	09:17 (KLZ_WT22)	18:55			16:59	3	08:33 (RHR_WT02)	16:38	49	13:17 (KLZ_WT16)
16	05:48		06:30 (KLZ_WT21)	06:32		07:02 (SAM_WT07)	07:21		07:45 (KLZ_WT19)	08:09		08:35 (MXS_WT01)	08:03		08:32 (RHR_WT02)	08:43		12:28 (KLZ_WT16)
	21:55	20	06:50 (KLZ_WT21)	21:07	3	07:05 (SAM_WT07)	20:00	52	09:15 (KLZ_WT22)	18:53	2	08:37 (MXS_WT01)	16:57	6	08:42 (RHR_WT03)	16:38	50	13:18 (KLZ_WT16)
17	05:49		06:30 (KLZ_WT21)	06:34		07:00 (SAM_WT07)	07:22		08:25 (KLZ_WT22)	08:11		08:36 (MXS_WT01)	08:04		08:36 (RHR_WT03)	08:44		12:29 (KLZ_WT16)
	21:54	21	06:51 (KLZ_WT21)	21:05	7	07:07 (SAM_WT07)	19:57	49	09:14 (KLZ_WT22)	18:50	2	08:38 (MXS_WT01)	16:56	8	08:44 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
18	05:50		06:29 (KLZ_WT21)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT10)	08:13		08:38 (MXS_WT01)	08:06		08:36 (RHR_WT03)	08:45		12:28 (KLZ_WT16)
	21:53	22	06:51 (KLZ_WT21)	21:03	6	07:08 (SAM_WT07)	19:55	54	09:14 (KLZ_WT22)	18:48	1	08:39 (MXS_WT01)	16:55	10	08:46 (RHR_WT03)	16:39	50	13:18 (KLZ_WT16)
19	05:51		06:29 (KLZ_WT21)	06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT10)	08:14			08:08		08:37 (RHR_WT03)	08:45		12:29 (KLZ_WT16)
	21:51	22	06:51 (KLZ_WT21)	21:01	5	07:08 (SAM_WT07)	19:53	51	09:12 (KLZ_WT22)	18:46			16:54	9	08:46 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
20	05:53		06:29 (KLZ_WT21)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT10)	08:16		08:42 (MVN_WT01)	08:09		08:39 (RHR_WT03)	08:46		12:30 (KLZ_WT16)
	21:50	23	06:52 (KLZ_WT21)	20:59	17	09:03 (KLZ_WT22)	19:50	45	09:10 (KLZ_WT22)	18:44	4	08:46 (MVN_WT01)	16:52	8	08:47 (RHR_WT03)	16:39	50	13:20 (KLZ_WT16)
21	05:54		06:29 (KLZ_WT21)	06:40		07:06 (SAM_WT07)	07:29		07:53 (KLZ_WT10)	08:18		08:43 (MVN_WT01)	08:11		08:41 (RHR_WT03)	08:47		12:30 (KLZ_WT16)
	21:49	23	06:52 (KLZ_WT21)	20:57	23	09:06 (KLZ_WT22)	19:48	41	09:08 (KLZ_WT22)	18:42	3	08:46 (MVN_WT01)	16:51	7	08:48 (RHR_WT03)	16:40	50	13:20 (KLZ_WT16)
22	05:55		06:29 (KLZ_WT21)	06:41		08:43 (KLZ_WT22)	07:30		08:30 (KLZ_WT22)	08:19		08:45 (MVN_WT01)	08:12		08:43 (RHR_WT03)	08:47		12:31 (KLZ_WT16)
	21:48	23	06:52 (KLZ_WT21)	20:55	26	09:09 (KLZ_WT22)	19:46	36	09:06 (KLZ_WT22)	18:40	1	08:46 (MVN_WT01)	16:50	11	08:58 (ALB_WT01)	16:40	50	13:21 (KLZ_WT16)
23	05:56		06:29 (KLZ_WT21)	06:43		08:40 (KLZ_WT22)	07:32		08:31 (KLZ_WT22)	08:21			08:14		08:44 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:47	23	06:52 (KLZ_WT21)	20:53	31	09:11 (KLZ_WT22)	19:44	32	09:03 (KLZ_WT22)	18:38			16:49	13	08:59 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
24	05:58		06:29 (KLZ_WT21)	06:45		08:39 (KLZ_WT22)	07:33		08:34 (KLZ_WT22)	08:23			08:16		08:46 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:45	24	06:53 (KLZ_WT21)	20:50	34	09:13 (KLZ_WT22)	19:41	27	09:01 (KLZ_WT22)	18:36			16:48	13	09:00 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
25	05:59		06:29 (KLZ_WT21)	06:46		08:36 (KLZ_WT22)	07:35		08:37 (KLZ_WT22)	07:24			08:17		08:48 (RHR_WT03)	08:48		12:32 (KLZ_WT16)
	21:44	24	06:53 (KLZ_WT21)	20:48	38	09:14 (KLZ_WT22)	19:39	21	08:58 (KLZ_WT22)	17:34			16:47	15	12:47 (KLZ_WT16)	16:42	50	13:22 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT21)	06:48		08:35 (KLZ_WT22)	07:37		08:42 (KLZ_WT22)	07:26			08:19		08:50 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:43	23	06:52 (KLZ_WT21)	20:46	41	09:16 (KLZ_WT22)	19:37	9	08:51 (KLZ_WT22)	17:32			16:46	29	12:53 (KLZ_WT16)	16:43	50	13:23 (KLZ_WT16)
27	06:02		06:30 (KLZ_WT21)	06:49		08:33 (KLZ_WT22)	07:38			07:28			08:20		08:51 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:41	22	06:52 (KLZ_WT21)	20:44	44	09:17 (KLZ_WT22)	19:35			17:30			16:45	35	12:57 (KLZ_WT16)	16:44	50	13:23 (KLZ_WT16)
28	06:03		06:32 (KLZ_WT21)	06:51		08:33 (KLZ_WT22)	07:40			07:30			08:22		08:53 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:40	20	06:52 (KLZ_WT21)	20:42	45	09:18 (KLZ_WT22)	19:32			17:28			16:44	37	12:59 (KLZ_WT16)	16:44	49	13:23 (KLZ_WT16)
29	06:05		06:33 (KLZ_WT21)	06:52		08:31 (KLZ_WT22)	07:41			07:31			08:23		08:54 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:38	19	06:52 (KLZ_WT21)	20:40	47	09:18 (KLZ_WT22)	19:30			17:27			16:44	39	13:01 (KLZ_WT16)	16:45	49	13:23 (KLZ_WT16)
30	06:06		06:35 (KLZ_WT21)	06:54		08:30 (KLZ_WT22)	07:43			07:33			08:25		08:56 (ALB_WT01)	08:50		12:35 (KLZ_WT16)
	21:37	17	06:52 (KLZ_WT21)	20:38	50	09:20 (KLZ_WT22)	19:28			17:25			16:43	41	13:03 (KLZ_WT16)	16:46	48	13:23 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT21)	06:56		08:29 (KLZ_WT22)				07:35						08:50		12:36 (KLZ_WT16)
	21:35	15	06:51 (KLZ_WT21)	20:35	51	09:20 (KLZ_WT22)				17:23						16:47	48	13:24 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		465			511			1391			119			311			1476	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,69			0,59			0,58			0,56			0,60			0,68	
Total reduction		0,30			0,27			0,25			0,20			0,16			0,15	
Total, real		141			138			344			24			49			220	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (RHR_WT03)	08:24		08:50 (RHR_WT01)	07:32		08:12 (KLZ_WT08)	07:23		07:46 (SAM_WT05)	06:20		18:40 (KLZ_WT15)	05:37		06:09 (KLZ_WT21)
	16:48	55	15:34 (KLZ_WT16)	17:35	7	08:57 (RHR_WT01)	18:25	17	08:29 (KLZ_WT08)	20:17	112	10:54 (KLZ_WT22)	21:06	75	19:55 (KLZ_WT15)	21:51	104	19:58 (KLZ_WT15)
2	08:50		09:20 (RHR_WT03)	08:23		08:48 (RHR_WT01)	07:30		08:13 (KLZ_WT08)	07:21		07:47 (CBR_WT01)	06:18		18:40 (KLZ_WT15)	05:36		06:10 (KLZ_WT21)
	16:49	52	15:35 (KLZ_WT16)	17:37	8	08:56 (RHR_WT01)	18:27	15	08:28 (KLZ_WT08)	20:19	110	10:53 (KLZ_WT22)	21:08	76	19:56 (KLZ_WT15)	21:52	102	19:58 (KLZ_WT15)
3	08:49		09:20 (RHR_WT03)	08:21		08:47 (RHR_WT01)	07:28		08:14 (KLZ_WT08)	07:19		07:48 (KLZ_WT19)	06:17		18:40 (KLZ_WT15)	05:35		06:10 (KLZ_WT21)
	16:50	52	15:35 (KLZ_WT16)	17:38	8	08:55 (RHR_WT01)	18:28	12	08:26 (KLZ_WT08)	20:20	107	10:52 (KLZ_WT22)	21:10	77	19:57 (KLZ_WT15)	21:53	101	19:58 (KLZ_WT15)
4	08:49		09:19 (RHR_WT03)	08:19			07:26		08:17 (KLZ_WT08)	07:17		07:49 (KLZ_WT19)	06:15		18:39 (KLZ_WT15)	05:34		06:09 (KLZ_WT21)
	16:51	52	15:35 (KLZ_WT16)	17:40			18:30	18	09:26 (KLZ_WT22)	20:22	105	10:52 (KLZ_WT22)	21:11	78	19:57 (KLZ_WT15)	21:54	101	19:57 (KLZ_WT15)
5	08:49		09:19 (RHR_WT03)	08:18			07:24		09:06 (KLZ_WT22)	07:14		07:50 (KLZ_WT19)	06:13		18:38 (KLZ_WT15)	05:34		06:10 (KLZ_WT21)
	16:53	53	15:36 (KLZ_WT16)	17:42			18:32	26	09:32 (KLZ_WT22)	20:24	102	10:51 (KLZ_WT22)	21:13	79	19:57 (KLZ_WT15)	21:55	101	19:58 (KLZ_WT15)
6	08:49		09:18 (RHR_WT03)	08:16			07:21		09:02 (KLZ_WT22)	07:12		07:50 (KLZ_WT19)	06:11		18:39 (KLZ_WT15)	05:33		06:10 (KLZ_WT21)
	16:54	53	15:35 (KLZ_WT16)	17:44			18:33	35	09:37 (KLZ_WT22)	20:25	98	10:49 (KLZ_WT22)	21:14	79	19:58 (KLZ_WT15)	21:56	100	19:57 (KLZ_WT15)
7	08:48		09:18 (RHR_WT03)	08:15			07:19		08:58 (KLZ_WT22)	07:10		07:52 (KLZ_WT19)	06:09		18:38 (KLZ_WT15)	05:32		06:10 (KLZ_WT21)
	16:55	54	15:36 (KLZ_WT16)	17:46			18:35	42	09:40 (KLZ_WT22)	20:27	94	10:49 (KLZ_WT22)	21:16	80	19:58 (KLZ_WT15)	21:56	100	19:58 (KLZ_WT15)
8	08:48		09:17 (RHR_WT03)	08:13			07:17		08:56 (KLZ_WT22)	07:08		09:24 (KLZ_WT22)	06:08		06:32 (SAM_WT06)	05:32		06:11 (KLZ_WT21)
	16:56	54	15:36 (KLZ_WT16)	17:47			18:37	47	09:43 (KLZ_WT22)	20:29	84	10:48 (KLZ_WT22)	21:17	81	19:57 (KLZ_WT15)	21:57	99	19:58 (KLZ_WT15)
9	08:48		09:17 (RHR_WT03)	08:11			07:15		08:53 (KLZ_WT22)	07:06		07:28 (SAM_WT04)	06:06		06:31 (SAM_WT06)	05:31		06:11 (KLZ_WT21)
	16:58	55	15:37 (KLZ_WT16)	17:49			18:39	52	09:45 (KLZ_WT22)	20:30	83	10:47 (KLZ_WT22)	21:19	83	19:58 (KLZ_WT15)	21:58	99	19:58 (KLZ_WT15)
10	08:47		09:17 (RHR_WT03)	08:09			07:13		08:50 (KLZ_WT22)	07:03		09:25 (KLZ_WT22)	06:04		06:29 (SAM_WT06)	05:31		06:11 (KLZ_WT21)
	16:59	55	15:37 (KLZ_WT16)	17:51			18:40	56	09:46 (KLZ_WT22)	20:32	81	10:46 (KLZ_WT22)	21:21	86	19:58 (KLZ_WT15)	21:59	99	19:58 (KLZ_WT15)
11	08:46		09:18 (RHR_WT03)	08:08			07:11		08:48 (KLZ_WT22)	07:01		09:25 (KLZ_WT22)	06:03		06:28 (SAM_WT06)	05:31		06:12 (KLZ_WT21)
	17:00	52	15:37 (KLZ_WT16)	17:53			18:42	60	09:48 (KLZ_WT22)	20:34	79	10:44 (KLZ_WT22)	21:22	86	19:58 (KLZ_WT15)	22:00	97	19:58 (KLZ_WT15)
12	08:46		09:20 (RHR_WT03)	08:06			07:08		08:46 (KLZ_WT22)	06:59		09:25 (KLZ_WT22)	06:01		06:26 (SAM_WT06)	05:30		06:11 (KLZ_WT21)
	17:02	49	15:37 (KLZ_WT16)	17:55			18:44	64	09:50 (KLZ_WT22)	20:35	77	10:42 (KLZ_WT22)	21:24	88	19:58 (KLZ_WT15)	22:00	99	19:58 (KLZ_WT15)
13	08:45		09:21 (RHR_WT03)	08:04			07:06		08:45 (KLZ_WT22)	06:57		09:25 (KLZ_WT22)	06:00		06:25 (KLZ_WT23)	05:30		06:12 (KLZ_WT21)
	17:03	46	15:37 (KLZ_WT16)	17:56			18:45	66	09:51 (KLZ_WT22)	20:37	83	19:24 (KLZ_WT15)	21:25	87	19:58 (KLZ_WT15)	22:01	97	19:58 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02			07:04		08:42 (KLZ_WT22)	06:55		09:25 (KLZ_WT22)	05:58		06:23 (KLZ_WT23)	05:30		06:12 (KLZ_WT21)
	17:05	44	15:37 (KLZ_WT16)	17:58			18:47	69	09:51 (KLZ_WT22)	20:38	98	19:32 (KLZ_WT15)	21:27	89	19:58 (KLZ_WT15)	22:02	96	19:58 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00		08:24 (MVN_WT01)	07:02		08:41 (KLZ_WT22)	06:53		09:26 (KLZ_WT22)	05:56		06:22 (KLZ_WT23)	05:30		06:12 (KLZ_WT21)
	17:06	40	15:37 (KLZ_WT16)	18:00	2	08:26 (MVN_WT01)	18:49	72	09:53 (KLZ_WT22)	20:40	103	19:36 (KLZ_WT15)	21:28	91	19:58 (KLZ_WT15)	22:02	96	19:58 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58		08:22 (MVN_WT01)	06:59		08:40 (KLZ_WT22)	06:50		07:13 (SAM_WT11)	05:55		06:21 (KLZ_WT23)	05:30		06:13 (KLZ_WT21)
	17:08	40	15:37 (KLZ_WT16)	18:02	3	08:25 (MVN_WT01)	18:50	74	09:54 (KLZ_WT22)	20:42	107	19:38 (KLZ_WT15)	21:30	94	19:59 (KLZ_WT15)	22:03	96	19:58 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:57		08:20 (MVN_WT01)	06:57		08:39 (KLZ_WT22)	06:48		07:11 (SAM_WT11)	05:54		06:19 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:09	40	15:37 (KLZ_WT16)	18:04	5	08:25 (MVN_WT01)	18:52	76	09:55 (KLZ_WT22)	20:43	112	19:41 (KLZ_WT15)	21:31	95	19:58 (KLZ_WT15)	22:03	96	19:59 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55		08:18 (MVN_WT01)	06:55		07:17 (KLZ_WT10)	06:46		07:09 (SAM_WT11)	05:52		06:18 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:11	40	15:37 (KLZ_WT16)	18:05	5	08:23 (MVN_WT01)	18:54	80	09:54 (KLZ_WT22)	20:45	113	19:43 (KLZ_WT15)	21:33	97	19:58 (KLZ_WT15)	22:03	96	19:59 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53		08:16 (MXS_WT01)	06:53		07:15 (KLZ_WT10)	06:44		09:29 (KLZ_WT22)	05:51		06:17 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:12	39	15:36 (KLZ_WT16)	18:07	5	08:21 (MXS_WT01)	18:56	84	09:55 (KLZ_WT22)	20:47	111	19:44 (KLZ_WT15)	21:34	99	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51		08:16 (MXS_WT01)	06:50		07:13 (KLZ_WT10)	06:42		09:29 (KLZ_WT22)	05:49		06:16 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:14	37	15:36 (KLZ_WT16)	18:09	9	08:25 (KLZ_WT08)	18:57	88	09:56 (KLZ_WT22)	20:48	113	19:46 (KLZ_WT15)	21:35	100	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
21	08:38		09:07 (RHR_WT02)	07:49		08:16 (KLZ_WT08)	06:48		07:10 (KLZ_WT10)	06:40		09:30 (KLZ_WT22)	05:48		06:15 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:16	34	15:35 (KLZ_WT16)	18:11	11	08:27 (KLZ_WT08)	18:59	92	09:56 (KLZ_WT22)	20:50	113	19:47 (KLZ_WT15)	21:37	101	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
22	08:37		15:07 (KLZ_WT16)	07:47		08:15 (KLZ_WT08)	06:46		07:09 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:13 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)
	17:17	27	15:34 (KLZ_WT16)	18:12	14	08:29 (KLZ_WT08)	19:01	93	09:56 (KLZ_WT22)	20:52	115	19:49 (KLZ_WT15)	21:38	102	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
23	08:36		15:09 (KLZ_WT16)	07:45		08:13 (KLZ_WT08)	06:44		07:10 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		06:12 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)
	17:19	24	15:33 (KLZ_WT16)	18:14	17	08:30 (KLZ_WT08)	19:02	91	09:56 (KLZ_WT22)	20:53	115	19:50 (KLZ_WT15)	21:40	102	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
24	08:35		15:12 (KLZ_WT16)	07:43		08:13 (KLZ_WT08)	06:41		08:31 (KLZ_WT22)	06:34		06:57 (SAM_WT07)	05:44		06:11 (KLZ_WT21)	05:31		06:14 (KLZ_WT21)
	17:21	20	15:32 (KLZ_WT16)	18:16	18	08:31 (KLZ_WT08)	19:04	86	09:57 (KLZ_WT22)	20:55	115	19:51 (KLZ_WT15)	21:41	103	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
25	08:34		15:14 (KLZ_WT16)	07:41		08:12 (KLZ_WT08)	06:39		07:01 (KLZ_WT19)	06:32		06:55 (SAM_WT07)	05:43		06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)
	17:22	16	15:30 (KLZ_WT16)	18:18	19	08:31 (KLZ_WT08)	19:05	90	09:56 (KLZ_WT22)	20:57	115	19:51 (KLZ_WT15)	21:42	104	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
26	08:32		15:19 (KLZ_WT16)	07:39		08:12 (KLZ_WT08)	06:37		06:59 (KLZ_WT19)	06:30		06:53 (SAM_WT07)	05:42		06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)
	17:24	8	15:27 (KLZ_WT16)	18:20	19	08:31 (KLZ_WT08)	19:07	95	09:56 (KLZ_WT22)	20:58	113	19:52 (KLZ_WT15)	21:43	103	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
27	08:31			07:36		08:12 (KLZ_WT08)	06:35		06:57 (KLZ_WT19)	06:28		06:51 (SAM_WT07)	05:41		06:10 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)
	17:26			18:21	19	08:31 (KLZ_WT08)	19:09	99	09:56 (KLZ_WT22)	21:00	111	19:53 (KLZ_WT15)	21:45	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
28	08:30		08:56 (RHR_WT01)	07:34		08:11 (KLZ_WT08)	06:32		06:55 (KLZ_WT19)	06:26		06:51 (SAM_WT07)	05:40		06:09 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)
	17:28	1	08:57 (RHR_WT01)	18:23	19	08:30 (KLZ_WT08)	19:10	103	09:56 (KLZ_WT22)	21:01	106	19:54 (KLZ_WT15)	21:46	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
29	08:28		08:54 (MVZ_WT01)				07:30		07:52 (KLZ_WT19)	06:24		06:53 (SAM_WT07)	05:39		06:10 (KLZ_WT21)	05:33		06:16 (KLZ_WT21)
	17:29	3	08:57 (RHR_WT01)				20:12	106	10:55 (KLZ_WT22)	21:03	95	19:55 (KLZ_WT15)	21:47	103	19:58 (KLZ_WT15)	22:05	97	20:02 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		07:50 (KLZ_WT19)	06:22		18:41 (KLZ_WT15)	05:38		06:10 (KLZ_WT21)	05:33		06:15 (KLZ_WT21)
	17:31	5	08:58 (RHR_WT01)				20:14	108	10:55 (KLZ_WT22)	21:05	74	19:55 (KLZ_WT15)	21:48	103	19:58 (KLZ_WT15)	22:04	98	20:02 (KLZ_WT15)
31	08:26		08:51 (RHR_WT01)				07:26		07:48 (CBR_WT01)				05:37		06:09 (KLZ_WT21)			
	17:33	6	08:57 (RHR_WT01)				20:15	111	10:55 (KLZ_WT22)				21:49	104	19:58 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1106			188			2127			3044			2851			2934	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,56			0,56			0,57			0,61			0,62	
Total reduction		0,17			0,16			0,21			0,26			0,27			0,27	
Total, real		186			31			442			787			778			791	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:16 (KLZ_WT21)	06:09		06:37 (SAM_WT06)	06:57		09:24 (KLZ_WT22)	07:44		09:24 (KLZ_WT22)	07:37			08:26		09:00 (RHR_WT03)
	22:04	97	20:02 (KLZ_WT15)	21:34	86	20:08 (KLZ_WT15)	20:33	79	10:43 (KLZ_WT22)	19:25	65	10:29 (KLZ_WT22)	17:21			16:42	52	15:19 (KLZ_WT16)
2	05:35		06:15 (KLZ_WT21)	06:11		06:39 (SAM_WT06)	06:59		09:23 (KLZ_WT22)	07:46		09:26 (KLZ_WT22)	07:38			08:27		09:00 (RHR_WT03)
	22:04	99	20:02 (KLZ_WT15)	21:32	86	20:09 (KLZ_WT15)	20:31	81	10:44 (KLZ_WT22)	19:23	61	10:27 (KLZ_WT22)	17:19			16:42	55	15:20 (KLZ_WT16)
3	05:35		06:16 (KLZ_WT21)	06:12		06:40 (SAM_WT06)	07:00		07:26 (SAM_WT04)	07:48		09:27 (KLZ_WT22)	07:40			08:29		09:00 (RHR_WT03)
	22:04	98	20:03 (KLZ_WT15)	21:30	84	20:08 (KLZ_WT15)	20:29	83	10:45 (KLZ_WT22)	19:21	58	10:25 (KLZ_WT22)	17:17			16:41	55	15:20 (KLZ_WT16)
4	05:36		06:16 (KLZ_WT21)	06:14		06:41 (SAM_WT06)	07:02		09:21 (KLZ_WT22)	07:49		09:29 (KLZ_WT22)	07:42			08:30		09:02 (RHR_WT03)
	22:03	99	20:03 (KLZ_WT15)	21:29	83	20:07 (KLZ_WT15)	20:27	84	10:45 (KLZ_WT22)	19:19	54	10:23 (KLZ_WT22)	17:16			16:40	54	15:21 (KLZ_WT16)
5	05:37		06:17 (KLZ_WT21)	06:15		06:43 (SAM_WT06)	07:03		07:49 (KLZ_WT19)	07:51		09:32 (KLZ_WT22)	07:44			08:31		09:03 (RHR_WT03)
	22:03	99	20:04 (KLZ_WT15)	21:27	81	20:08 (KLZ_WT15)	20:24	94	10:46 (KLZ_WT22)	19:16	49	10:21 (KLZ_WT22)	17:14			16:40	54	15:21 (KLZ_WT16)
6	05:38		06:16 (KLZ_WT21)	06:17		18:48 (KLZ_WT15)	07:05		07:46 (KLZ_WT19)	07:53		09:33 (KLZ_WT22)	07:45			08:33		09:04 (RHR_WT03)
	22:02	101	20:04 (KLZ_WT15)	21:25	79	20:07 (KLZ_WT15)	20:22	98	10:45 (KLZ_WT22)	19:14	44	10:17 (KLZ_WT22)	17:12			16:40	53	15:21 (KLZ_WT16)
7	05:38		06:16 (KLZ_WT21)	06:18		18:48 (KLZ_WT15)	07:07		07:45 (KLZ_WT19)	07:54		09:36 (KLZ_WT22)	07:47			08:34		09:06 (RHR_WT03)
	22:02	101	20:04 (KLZ_WT15)	21:24	79	20:07 (KLZ_WT15)	20:20	102	10:46 (KLZ_WT22)	19:12	38	10:14 (KLZ_WT22)	17:11			16:39	53	15:23 (KLZ_WT16)
8	05:39		06:17 (KLZ_WT21)	06:20		18:48 (KLZ_WT15)	07:08		07:43 (KLZ_WT19)	07:56		09:40 (KLZ_WT22)	07:49		08:18 (RHR_WT01)	08:35		09:07 (RHR_WT03)
	22:01	102	20:05 (KLZ_WT15)	21:22	78	20:06 (KLZ_WT15)	20:18	105	10:46 (KLZ_WT22)	19:10	31	10:11 (KLZ_WT22)	17:09	8	08:26 (RHR_WT01)	16:39	53	15:23 (KLZ_WT16)
9	05:40		06:17 (KLZ_WT21)	06:21		18:49 (KLZ_WT15)	07:10		07:42 (KLZ_WT19)	07:58		09:44 (KLZ_WT22)	07:50		08:19 (RHR_WT01)	08:36		09:08 (RHR_WT03)
	22:00	102	20:05 (KLZ_WT15)	21:20	77	20:06 (KLZ_WT15)	20:15	108	10:47 (KLZ_WT22)	19:08	21	10:05 (KLZ_WT22)	17:07	8	08:27 (RHR_WT01)	16:39	52	15:23 (KLZ_WT16)
10	05:41		06:17 (KLZ_WT21)	06:23		18:48 (KLZ_WT15)	07:11		07:40 (CBR_WT01)	07:59		08:50 (KLZ_WT08)	07:52		08:21 (RHR_WT01)	08:37		09:09 (RHR_WT03)
	22:00	102	20:05 (KLZ_WT15)	21:18	77	20:05 (KLZ_WT15)	20:13	110	10:46 (KLZ_WT22)	19:05	9	08:59 (KLZ_WT08)	17:06	7	08:28 (RHR_WT01)	16:38	52	15:24 (KLZ_WT16)
11	05:42		06:18 (KLZ_WT21)	06:24		18:49 (KLZ_WT15)	07:13		07:38 (SAM_WT05)	08:01		08:48 (KLZ_WT08)	07:54		08:23 (RHR_WT01)	08:38		09:10 (RHR_WT03)
	21:59	102	20:06 (KLZ_WT15)	21:16	76	20:05 (KLZ_WT15)	20:11	113	10:47 (KLZ_WT22)	19:03	13	09:01 (KLZ_WT08)	17:04	6	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
12	05:43		06:18 (KLZ_WT21)	06:26		18:49 (KLZ_WT15)	07:14		07:39 (CBR_WT01)	08:02		08:47 (KLZ_WT08)	07:56		08:24 (MVZ_WT01)	08:39		09:11 (RHR_WT03)
	21:58	102	20:06 (KLZ_WT15)	21:14	75	20:04 (KLZ_WT15)	20:09	110	10:46 (KLZ_WT22)	19:01	15	09:02 (KLZ_WT08)	17:03	5	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
13	05:44		06:18 (KLZ_WT21)	06:27		10:00 (KLZ_WT22)	07:16		07:41 (KLZ_WT19)	08:04		08:45 (KLZ_WT08)	07:57		08:26 (MVZ_WT01)	08:40		09:12 (RHR_WT03)
	21:57	102	20:06 (KLZ_WT15)	21:13	77	20:03 (KLZ_WT15)	20:06	108	10:46 (KLZ_WT22)	18:59	17	09:02 (KLZ_WT08)	17:01	3	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
14	05:45		06:18 (KLZ_WT21)	06:29		07:00 (SAM_WT07)	07:18		07:42 (KLZ_WT19)	08:06		08:44 (KLZ_WT08)	07:59		08:28 (RHR_WT01)	08:41		09:13 (RHR_WT03)
	21:56	104	20:07 (KLZ_WT15)	21:11	97	20:02 (KLZ_WT15)	20:04	106	10:45 (KLZ_WT22)	18:57	19	09:03 (KLZ_WT08)	17:00	1	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
15	05:47		06:19 (KLZ_WT21)	06:30		06:57 (SAM_WT07)	07:19		07:44 (KLZ_WT19)	08:07		08:44 (KLZ_WT08)	08:01			08:42		09:14 (RHR_WT03)
	21:56	103	20:07 (KLZ_WT15)	21:09	109	20:01 (KLZ_WT15)	20:02	103	10:46 (KLZ_WT22)	18:55	19	09:03 (KLZ_WT08)	16:59			16:38	57	15:26 (KLZ_WT16)
16	05:48		06:19 (KLZ_WT21)	06:32		06:59 (SAM_WT07)	07:21		07:45 (KLZ_WT19)	08:09		08:44 (KLZ_WT08)	08:02		14:52 (KLZ_WT16)	08:43		09:15 (RHR_WT03)
	21:55	103	20:07 (KLZ_WT15)	21:07	111	20:00 (KLZ_WT15)	20:00	100	10:45 (KLZ_WT22)	18:53	19	09:03 (KLZ_WT08)	16:57	8	15:00 (KLZ_WT16)	16:38	58	15:27 (KLZ_WT16)
17	05:49		06:19 (KLZ_WT21)	06:34		07:00 (SAM_WT07)	07:22		07:47 (KLZ_WT19)	08:11		08:44 (KLZ_WT08)	08:04		14:48 (KLZ_WT16)	08:44		09:16 (RHR_WT03)
	21:54	103	20:07 (KLZ_WT15)	21:05	115	19:59 (KLZ_WT15)	19:57	97	10:45 (KLZ_WT22)	18:50	18	09:02 (KLZ_WT08)	16:56	16	15:04 (KLZ_WT16)	16:39	58	15:27 (KLZ_WT16)
18	05:50		06:20 (KLZ_WT21)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT19)	08:12		08:44 (KLZ_WT08)	08:06		14:46 (KLZ_WT16)	08:45		09:16 (RHR_WT03)
	21:52	103	20:07 (KLZ_WT15)	21:03	115	19:58 (KLZ_WT15)	19:55	90	10:44 (KLZ_WT22)	18:48	18	09:02 (KLZ_WT08)	16:55	20	15:06 (KLZ_WT16)	16:39	57	15:27 (KLZ_WT16)
19	05:51		06:20 (KLZ_WT21)	06:37		07:03 (SAM_WT07)	07:25		09:17 (KLZ_WT22)	08:14		08:45 (KLZ_WT08)	08:07		14:43 (KLZ_WT16)	08:45		09:17 (RHR_WT03)
	21:51	103	20:07 (KLZ_WT15)	21:01	115	19:56 (KLZ_WT15)	19:53	86	10:43 (KLZ_WT22)	18:46	16	09:01 (KLZ_WT08)	16:53	24	15:07 (KLZ_WT16)	16:39	58	15:28 (KLZ_WT16)
20	05:53		06:22 (KLZ_WT21)	06:38		07:05 (SAM_WT07)	07:27		07:57 (KLZ_WT10)	08:16		08:46 (KLZ_WT08)	08:09		14:42 (KLZ_WT16)	08:46		09:18 (RHR_WT03)
	21:50	104	20:09 (KLZ_WT15)	20:59	114	19:55 (KLZ_WT15)	19:50	91	10:43 (KLZ_WT22)	18:44	14	09:00 (KLZ_WT08)	16:52	27	15:09 (KLZ_WT16)	16:39	58	15:29 (KLZ_WT16)
21	05:54		06:23 (KLZ_WT21)	06:40		09:36 (KLZ_WT22)	07:29		07:55 (KLZ_WT10)	08:18		08:48 (KLZ_WT08)	08:11		08:43 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	102	20:08 (KLZ_WT15)	20:57	113	19:53 (KLZ_WT15)	19:48	93	10:42 (KLZ_WT22)	18:42	9	08:57 (KLZ_WT08)	16:51	34	15:11 (KLZ_WT16)	16:40	58	15:29 (KLZ_WT16)
22	05:55		06:24 (KLZ_WT21)	06:41		09:35 (KLZ_WT22)	07:30		07:55 (KLZ_WT10)	08:19		08:45 (MXS_WT01)	08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	100	20:08 (KLZ_WT15)	20:55	113	19:52 (KLZ_WT15)	19:46	93	10:41 (KLZ_WT22)	18:40	5	08:50 (MXS_WT01)	16:50	37	15:12 (KLZ_WT16)	16:40	58	15:30 (KLZ_WT16)
23	05:56		06:25 (KLZ_WT21)	06:43		09:33 (KLZ_WT22)	07:32		07:56 (KLZ_WT10)	08:21		08:47 (MXS_WT01)	08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	100	20:08 (KLZ_WT15)	20:53	112	19:49 (KLZ_WT15)	19:44	90	10:40 (KLZ_WT22)	18:38	5	08:52 (MXS_WT01)	16:49	39	15:12 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
24	05:58		06:27 (KLZ_WT21)	06:45		09:32 (KLZ_WT22)	07:33		07:58 (KLZ_WT10)	08:23		08:49 (MVN_WT01)	08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	99	20:09 (KLZ_WT15)	20:50	112	19:48 (KLZ_WT15)	19:41	86	10:39 (KLZ_WT22)	18:36	5	08:54 (MVN_WT01)	16:48	40	15:14 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
25	05:59		06:28 (KLZ_WT21)	06:46		07:12 (SAM_WT11)	07:35		08:00 (KLZ_WT10)	07:24		07:51 (MVN_WT01)	08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	98	20:09 (KLZ_WT15)	20:48	113	19:45 (KLZ_WT15)	19:39	81	10:38 (KLZ_WT22)	17:34	5	07:56 (MVN_WT01)	16:47	40	15:15 (KLZ_WT16)	16:42	58	15:31 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT21)	06:48		07:14 (SAM_WT11)	07:36		09:20 (KLZ_WT22)	07:26		07:53 (MVN_WT01)	08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	96	20:09 (KLZ_WT15)	20:46	111	19:43 (KLZ_WT15)	19:37	77	10:37 (KLZ_WT22)	17:32	3	07:56 (MVN_WT01)	16:46	40	15:15 (KLZ_WT16)	16:43	58	15:31 (KLZ_WT16)
27	06:02		06:30 (KLZ_WT23)	06:49		07:15 (SAM_WT11)	07:38		09:21 (KLZ_WT22)	07:28		07:54 (MVN_WT01)	08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	95	20:08 (KLZ_WT15)	20:44	107	19:40 (KLZ_WT15)	19:35	75	10:36 (KLZ_WT22)	17:30	1	07:55 (MVN_WT01)	16:45	40	15:16 (KLZ_WT16)	16:43	58	15:32 (KLZ_WT16)
28	06:03		06:32 (KLZ_WT23)	06:51		09:28 (KLZ_WT22)	07:40		09:21 (KLZ_WT22)	07:30			08:22		08:53 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:40	92	20:09 (KLZ_WT15)	20:42	102	19:37 (KLZ_WT15)	19:32	73	10:34 (KLZ_WT22)	17:28			16:44	42	15:17 (KLZ_WT16)	16:44	57	15:32 (KLZ_WT16)
29	06:05		06:33 (KLZ_WT23)	06:52		09:26 (KLZ_WT22)	07:41		09:22 (KLZ_WT22)	07:31			08:23		09:01 (RHR_WT03)	08:49		09:20 (RHR_WT03)
	21:38	91	20:09 (KLZ_WT15)	20:40	96	19:32 (KLZ_WT15)	19:30	71	10:33 (KLZ_WT22)	17:27			16:44	46	15:17 (KLZ_WT16)	16:45	57	15:32 (KLZ_WT16)
30	06:06		06:34 (KLZ_WT23)	06:54		09:26 (KLZ_WT22)	07:43		09:24 (KLZ_WT22)	07:33			08:25		09:01 (RHR_WT03)	08:50		09:20 (RHR_WT03)
	21:37	87	20:08 (KLZ_WT15)	20:38	81	19:24 (KLZ_WT15)	19:28	67	10:31 (KLZ_WT22)	17:25			16:43	50	15:19 (KLZ_WT16)	16:46	56	15:33 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT23)	06:56		09:24 (KLZ_WT22)				07:35						08:50		09:20 (RHR_WT03)
	21:35	88	20:09 (KLZ_WT15)	20:35	78	10:42 (KLZ_WT22)				17:23						16:47	56	15:33 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		3077			2952			2754			631			541			1733	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,62			0,58			0,56			0,56			0,70			0,68	
Total reduction		0,27			0,26			0,24			0,20			0,18			0,15	
Total, real		838			781			657			124			99			261	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

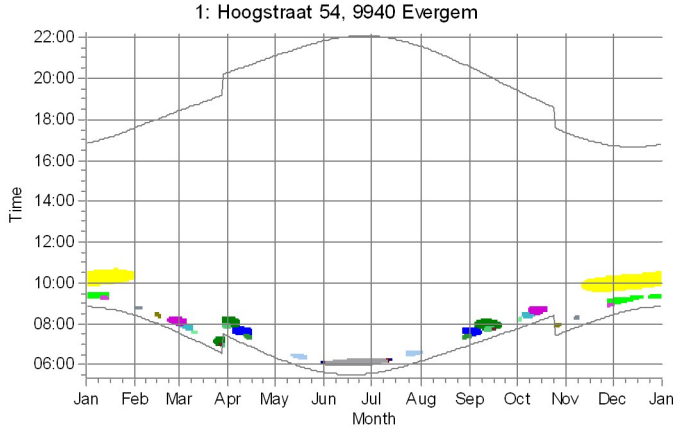
Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

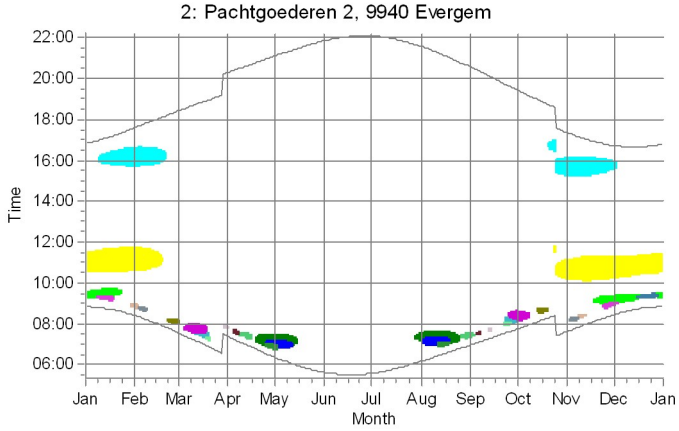
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

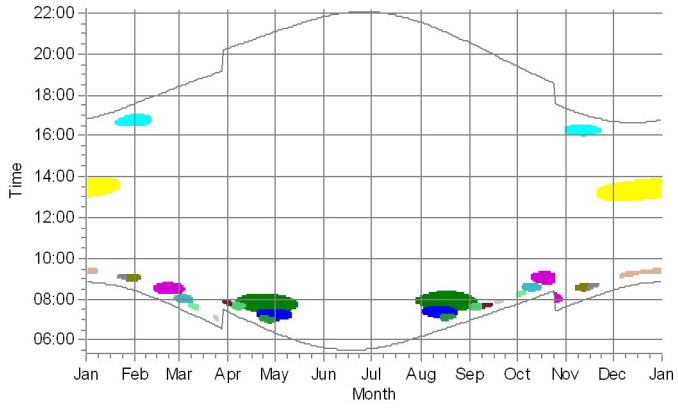
1: Hoogstraat 54, 9940 Evergem



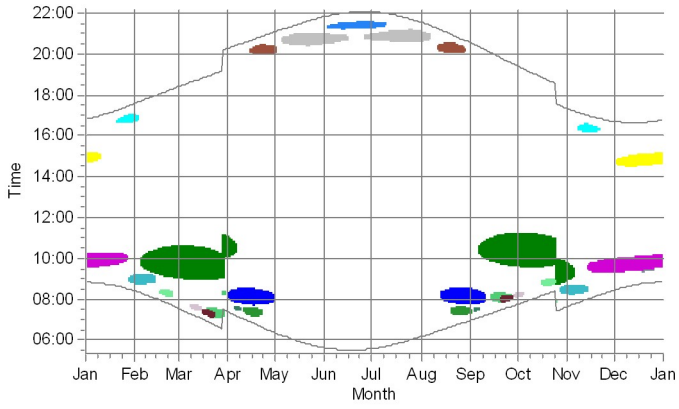
2: Pachtgoederen 2, 9940 Evergem



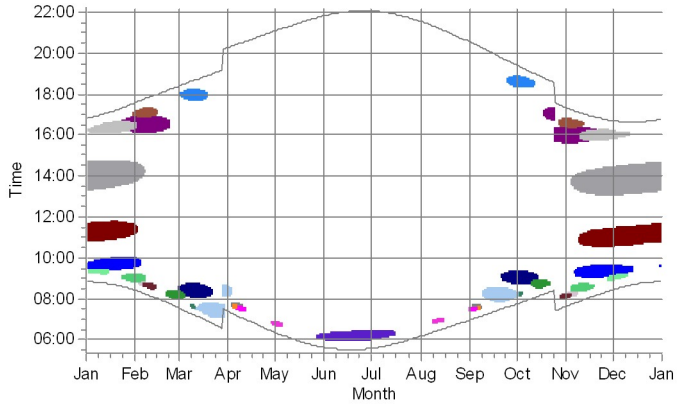
3: Pachtgoederen 2, 9940 Evergem



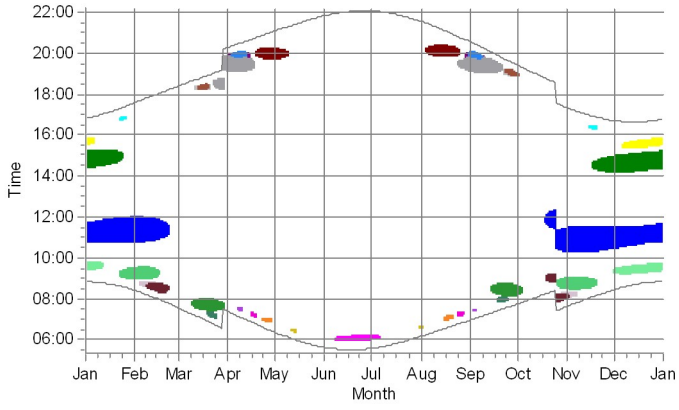
4: James Cookstraat 10, 9042 Gent



5: Pelikaanstraat 60, 9940 Evergem



6: Christoffel Columbuslaan 23, 9042 Gent



WTGs

KLZ_WT21: KLZ_WT21 Armasteel
KLZ_WT22: KLZ_WT22 Magelaanstraat
KLZ_WT23: KLZ_WT23 Stukwerkers
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)
TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)
SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!

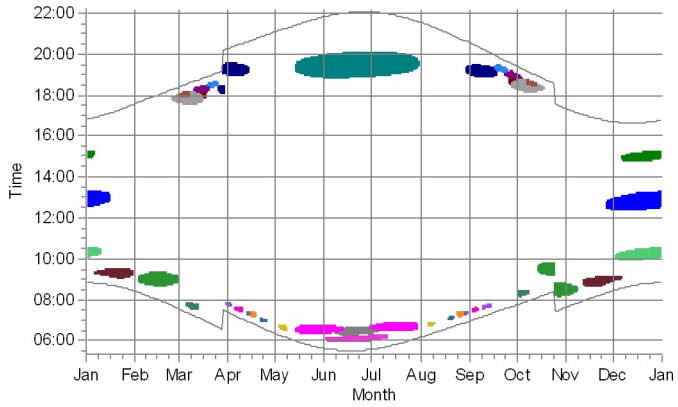
Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

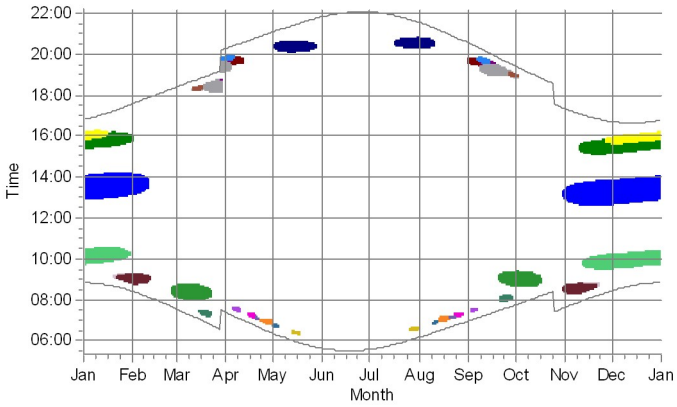
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

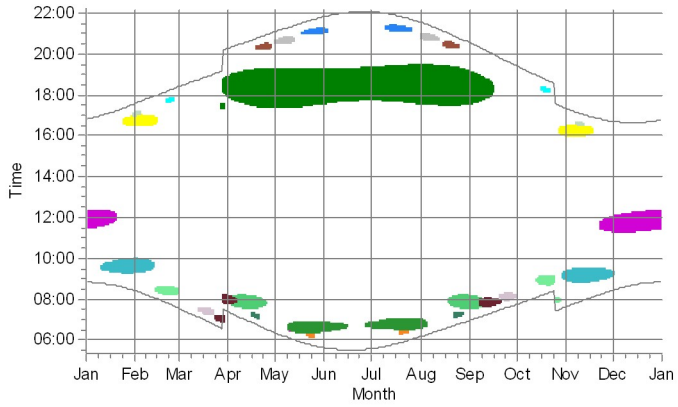
7: Christoffel Columbuslaan 23, 9042 Gent



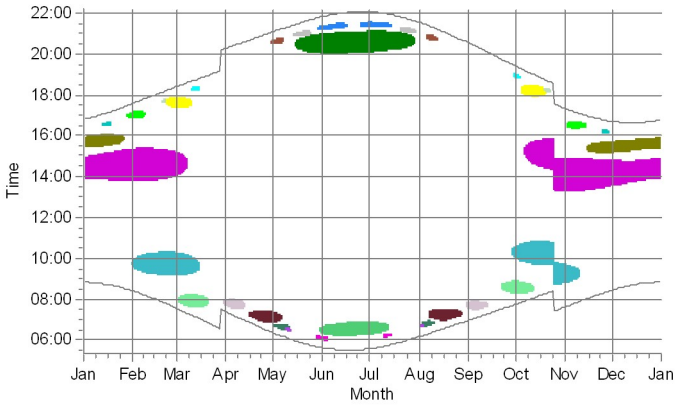
8: Christoffel Columbuslaan 17, 9042 Gent



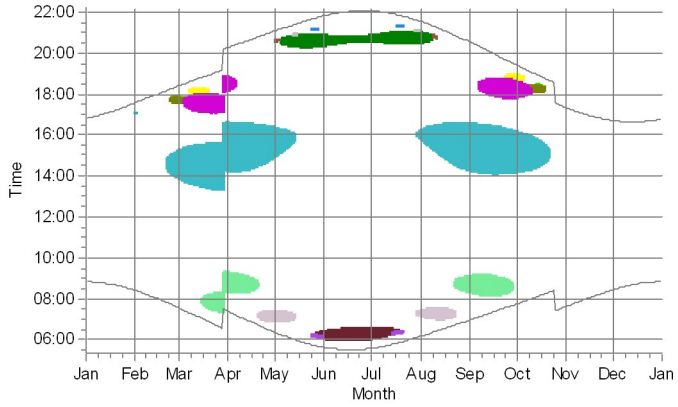
9: Willem van Rubroeckstraat 2, 9042 Gent



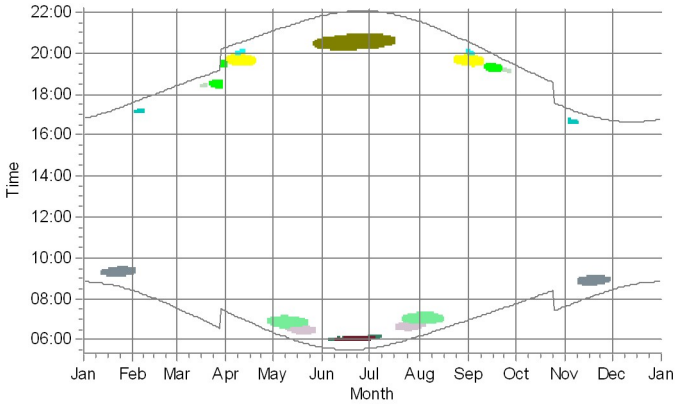
10: Willem van Rubroeckstraat 26, 9042 Gent



11: Arbedkaai 3, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

- KLZ_WT21: KLZ_WT21 Armasteel
- KLZ_WT22: KLZ_WT22 Magelaanstraat
- KLZ_WT23: KLZ_WT23 Stukwerkers
- KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
- KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
- KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
- KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
- KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
- KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)
- SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
- SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
- SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
- SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
- SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
- EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
- KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)
- SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
- SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

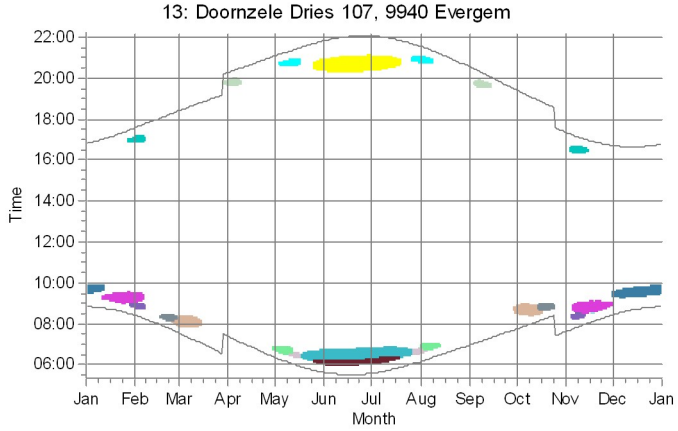
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

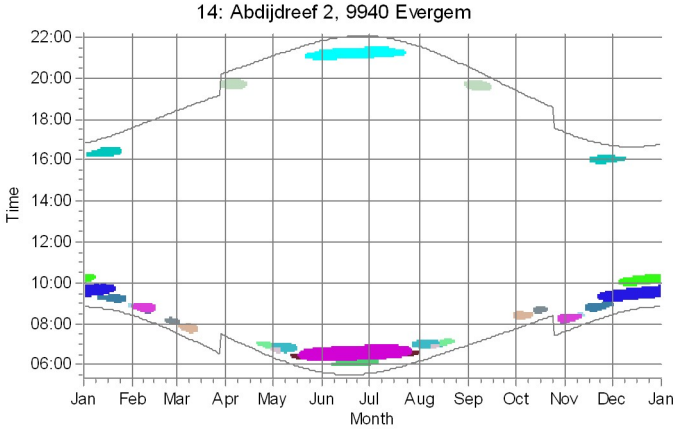
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

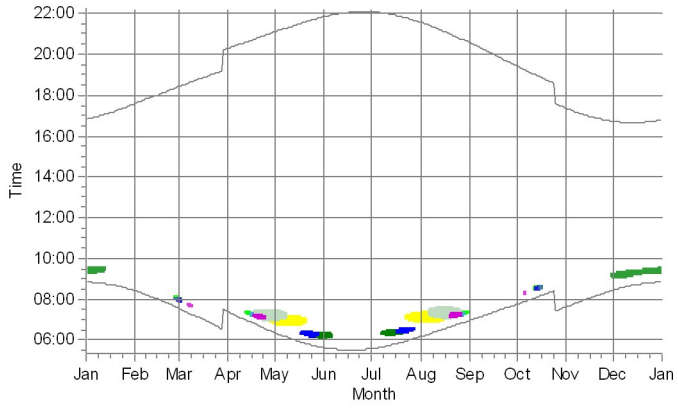
13: Doornzele Dries 107, 9940 Evergem



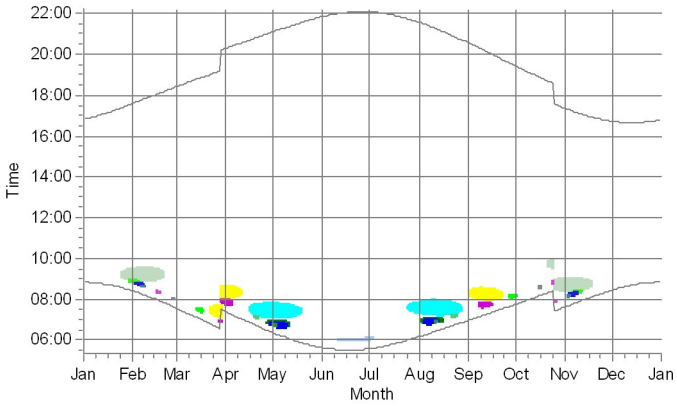
14: Abdijdreef 2, 9940 Evergem



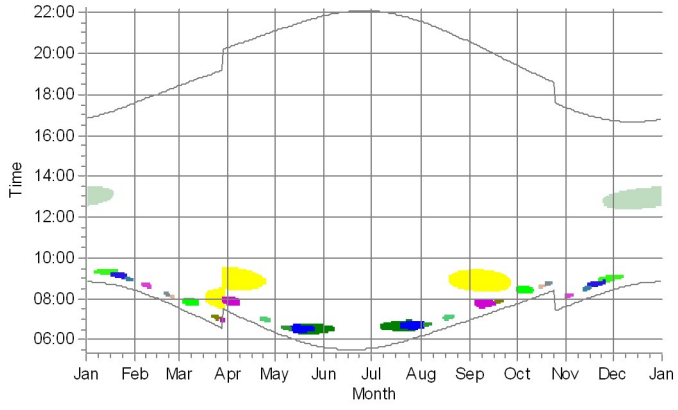
15: Hageland 14, 9940 Evergem



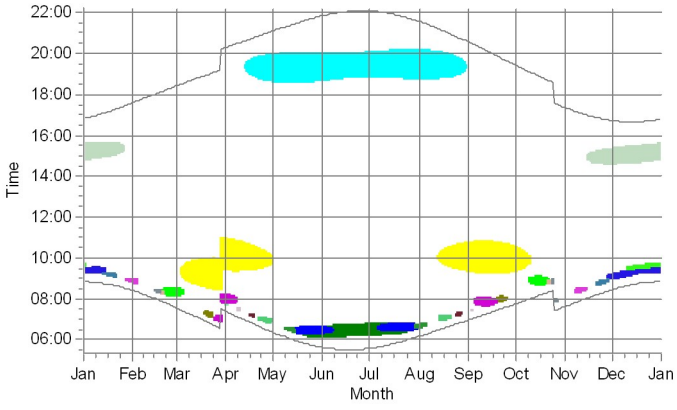
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

- KLZ_WT21: KLZ_WT21 Armasteel
- KLZ_WT22: KLZ_WT22 Magelaanstraat
- KLZ_WT23: KLZ_WT23 Stukwerkers
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)
- NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)
- MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:27-16:01/34 16:48 14:26-15:14/48	08:24 17:35	07:32 09:04-10:34/90 18:25	07:23 17:59-18:52/53 07:53-08:17/24 20:17 10:09-10:57/48	06:20 06:44-08:09/85 21:06 17:25-19:16/111	05:36 06:07-06:39/32 17:38-19:14/96 21:51 20:06-20:56/50
2	08:50 15:27-16:01/34 16:49 14:27-15:14/47	08:23 17:36	07:30 09:03-10:34/91 18:26	07:21 17:56-18:54/58 07:52-08:16/24 20:19 10:12-10:54/42	06:18 06:42-08:08/86 21:08 17:25-19:16/111	05:36 06:09-06:39/30 17:40-19:14/94 21:52 20:06-20:57/51
3	08:49 15:28-16:02/34 16:50 14:28-15:13/45	08:21 17:38	07:28 09:03-10:34/91 18:28	07:19 17:54-18:57/63 07:52-08:15/23 20:20 10:14-10:50/36	06:16 06:41-08:08/87 21:09 17:25-19:16/111	05:35 06:09-06:38/29 17:40-19:14/94 21:53 20:06-20:57/51
4	08:49 15:28-16:02/34 16:51 14:28-15:13/45	08:19 17:40	07:26 09:03-10:35/92 18:30	07:17 17:51-18:59/68 07:53-08:14/21 20:22 10:17-10:46/29	06:15 06:39-08:06/87 21:11 17:26-19:16/110	05:34 06:09-06:39/29 17:40-19:13/93 21:54 20:05-20:57/52
5	08:49 15:28-16:03/35 16:52 14:29-15:13/44	08:18 17:42	07:24 09:01-10:34/93 18:32	07:14 17:49-19:01/72 07:54-08:13/19 20:24 10:23-10:40/17	06:13 06:38-06:55/17 17:25-19:16/111 21:13 20:30-20:41/11 06:56-08:05/69	05:33 06:10-06:39/29 17:41-19:14/93 21:55 20:06-20:58/52
6	08:49 15:28-16:03/35 16:54 14:29-15:13/44	08:16 09:40-10:00/20 17:44	07:21 09:01-10:34/93 18:33	07:12 17:46-19:01/75 20:25 07:55-08:10/15	06:11 06:39-06:55/16 17:25-19:16/111 06:57-07:26/29 21:14 20:27-20:43/16 07:27-08:05/38	05:33 06:10-06:39/29 17:41-19:13/92 21:56 20:05-20:58/53
7	08:48 15:29-16:04/35 16:55 14:30-15:14/44	08:15 09:36-10:05/29 17:45	07:19 09:01-10:34/93 18:35	07:10 17:45-19:03/78 07:57-08:07/10 20:27 07:51-07:54/3	06:09 06:39-06:54/15 17:26-19:16/110 06:57-07:25/28 21:16 20:26-20:46/20 07:28-08:03/35	05:32 06:10-06:39/29 17:42-19:14/92 21:56 20:06-20:59/53
8	08:48 15:29-16:04/35 16:56 14:30-15:13/43	08:13 09:33-10:09/36 17:47	07:17 09:01-10:34/93 18:37	07:08 17:43-19:05/82 20:29 07:44-08:01/17	06:08 06:39-06:53/14 17:26-19:16/110 06:57-07:24/27 21:17 20:24-20:47/23 07:28-08:01/33	05:32 06:11-06:40/29 17:42-19:13/91 21:57 20:05-20:59/54
9	08:47 15:30-16:05/35 16:58 14:31-15:14/43	08:11 09:30-10:12/42 17:49	07:15 09:01-10:34/93 18:39	07:05 17:41-19:06/85 20:30 07:41-08:04/23	06:06 06:31-06:35/4 20:23-20:48/25 07:30-08:00/30 21:19 06:41-06:52/11 17:27-19:16/109 06:58-07:23/25	05:31 06:11-06:39/28 17:43-19:14/91 21:58 20:06-21:00/54
10	08:47 15:29-16:06/37 16:59 14:32-15:14/42	08:09 09:28-10:14/46 17:51	07:13 09:00-10:32/92 18:40	07:03 17:40-19:07/87 20:32 07:38-08:06/28	06:04 06:29-06:37/8 20:22-20:49/27 07:31-07:58/27 21:21 06:42-06:49/7 17:27-19:16/109 06:59-07:22/23	05:31 06:11-06:40/29 17:44-19:14/90 21:59 20:06-21:00/54
11	08:46 15:30-16:06/36 17:00 14:32-15:14/42	08:08 09:25-10:16/51 17:53	07:10 09:00-10:32/92 18:42	07:01 17:39-19:08/89 20:33 07:36-08:08/32	06:03 06:28-06:39/11 17:28-19:16/108 07:00-07:21/21 21:22 20:22-20:50/28 07:33-07:57/24	05:31 06:12-06:40/28 17:45-19:14/89 22:00 20:06-21:01/55
12	08:46 15:30-16:06/36 17:02 14:34-15:14/40	08:06 09:23-10:18/55 17:54	07:08 09:00-10:32/92 18:44	06:59 17:37-19:08/91 20:35 07:33-08:08/35	06:01 06:26-06:39/13 17:27-19:16/109 07:01-07:19/18 21:24 20:21-20:50/29 07:34-07:55/21	05:30 06:11-06:40/29 17:44-19:14/90 22:00 20:06-21:00/54
13	08:45 15:31-16:07/36 17:03 14:35-15:14/39	08:04 09:21-10:20/59 17:56	07:06 09:00-10:31/91 18:45	06:57 17:35-19:09/94 20:37 07:32-08:09/37	05:59 06:25-06:40/15 17:28-19:16/108 07:03-07:17/14 21:25 20:21-20:51/30 07:37-07:53/16	05:30 06:12-06:40/28 17:45-19:14/89 22:01 20:06-21:01/55
14	08:44 15:31-16:07/36 17:05 14:35-15:14/39	08:02 09:19-10:22/63 17:58	07:04 08:59-10:30/91 18:47	06:55 17:34-19:10/96 20:38 07:30-08:10/40	05:58 06:23-06:40/17 17:28-19:15/107 07:05-07:14/9 21:27 20:20-20:51/31 07:41-07:48/7	05:30 06:12-06:40/28 17:45-19:14/89 22:02 20:06-21:01/55
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17	08:42 15:32-16:08/36 17:09 14:39-15:13/34	07:56 09:15-10:26/71 18:03	06:57 08:59-10:27/88 18:52	06:48 17:31-19:12/101 20:43 07:27-08:12/45	05:53 06:19-06:42/23 17:29-19:15/106 21:31 20:19-20:52/33	05:29 06:13-06:41/28 17:47-19:15/88 22:03 20:07-21:02/55
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20	08:39 15:35-16:09/34 17:14 14:43-15:11/28	07:51 09:11-10:29/78 18:09	06:50 09:00-10:24/84 18:57	06:42 17:29-19:14/105 07:06-07:22/16 20:48 07:25-08:13/48	05:49 06:16-06:43/27 17:32-19:16/104 21:35 20:14-20:53/39	05:30 06:13-06:41/28 17:47-19:15/88 22:04 20:07-21:03/56
21	08:38 15:34-16:08/34 17:16 14:44-15:09/25	07:49 09:10-10:30/80 18:11	06:48 09:00-10:22/82 18:59	06:40 17:29-19:14/105 07:04-07:24/20 20:50 07:25-08:13/48	05:48 06:15-06:43/28 17:31-19:15/104 21:37 20:12-20:52/40	05:30 06:13-06:41/28 17:47-19:15/88 22:04 20:07-21:03/56
22	08:37 15:35-16:08/33 17:17 14:47-15:08/21	07:47 09:09-10:31/82 18:12	06:46 09:01-10:20/79 19:00	06:38 17:28-19:15/107 20:52 07:02-08:13/71	05:47 06:13-06:42/29 17:32-19:15/103 21:38 20:11-20:52/41	05:30 06:14-06:42/28 17:48-19:16/88 22:05 20:08-21:04/56
23	08:36 15:36-16:08/32 17:19 14:50-15:07/17	07:45 09:09-10:31/82 18:14	06:44 09:01-10:19/78 19:02 07:06-07:10/4	06:36 17:27-19:15/108 20:53 07:01-08:13/72	05:46 06:12-06:42/30 17:33-19:15/102 21:39 20:10-20:52/42	05:30 06:14-06:42/28 17:48-19:16/88 22:05 20:08-21:04/56
24	08:35 15:37-16:07/30 17:21 14:53-15:03/10	07:43 09:08-10:32/84 18:16	06:41 09:02-10:18/76 19:04 07:04-07:14/10	06:34 17:27-19:15/108 20:55 06:59-08:12/73	05:44 06:11-06:42/31 17:34-19:14/100 21:41 20:10-20:52/42	05:30 06:14-06:42/28 17:48-19:16/88 22:05 20:08-21:03/55
25	08:34 15:38-16:07/29 17:22	07:41 09:07-10:33/86 18:18	06:39 09:02-10:15/73 19:05 07:01-07:15/14	06:32 17:26-19:15/109 20:56 06:58-08:12/74	05:43 06:10-06:41/31 17:34-19:14/100 21:42 20:09-20:52/43	05:31 06:15-06:43/28 17:49-19:17/88 22:05 20:09-21:04/55
26	08:32 15:40-16:07/27 17:24	07:38 09:06-10:33/87 18:19	06:37 09:03-10:13/70 19:07 06:59-07:16/17	06:30 17:26-19:15/109 20:58 06:57-08:12/75	05:42 06:09-06:41/32 17:35-19:14/99 21:43 20:08-20:52/44	05:31 06:15-06:43/28 17:48-19:17/89 22:05 20:09-21:04/55
27	08:31 15:41-16:06/25 17:26	07:36 09:06-10:34/88 18:21	06:34 09:04-10:11/67 19:09 06:57-07:17/20	06:28 06:51-06:52/1 06:56-08:11/75 21:00 17:26-19:15/109	05:41 06:08-06:41/33 17:35-19:14/99 21:45 20:08-20:53/45	05:32 06:15-06:43/28 17:48-19:16/88 22:05 20:08-21:04/56
28	08:30 15:43-16:05/22 17:28	07:34 09:04-10:33/89 18:23	06:32 17:22-17:32/10 06:55-07:18/23 19:10 09:04-10:08/64	06:26 06:50-06:54/4 06:57-08:10/73 21:01 17:25-19:15/110	05:40 06:08-06:41/33 17:36-19:14/98 21:46 20:07-20:53/46	05:32 06:15-06:43/28 17:49-19:17/88 22:05 20:09-21:04/55
29	08:28 15:44-16:03/19 17:29		07:30 18:13-18:41/28 07:53-08:17/24 20:12 10:06-11:06/60	06:24 06:48-06:55/7 06:56-08:11/75 21:03 17:26-19:16/110	05:39 06:07-06:41/34 17:37-19:15/98 21:47 20:08-20:55/47	05:33 06:16-06:44/28 17:48-19:17/89 22:05 20:09-21:04/55
30	08:27 15:47-16:02/15 17:31		07:28 18:07-18:46/39 07:53-08:17/24 20:14 10:07-11:03/56	06:22 06:46-06:55/9 06:56-08:10/74 21:05 17:26-19:16/110	05:38 06:06-06:40/34 17:38-19:14/96 21:48 20:07-20:55/48	05:33 06:15-06:44/29 17:48-19:18/90 22:04 20:10-21:05/55
31	08:25 15:50-15:58/8 17:33		07:25 18:03-18:50/47 07:53-08:17/24 20:15 10:09-11:01/52		05:37 06:07-06:39/32 17:38-19:14/96 21:49 20:07-20:56/49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1855	1510	2851	4357	5669	5181

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:16-06:44/28 17:49-19:18/89	06:09 06:37-06:49/12 17:38-19:26/108 07:11-07:30/19	06:57 17:38-19:07/89	07:44 09:39-11:10/91	07:37 08:58-09:44/46	08:26 15:12-15:48/36
	22:04 20:10-21:05/55	21:34 20:31-21:00/29 07:44-08:06/22	20:33 07:35-08:07/32	19:25	17:21	16:42 14:14-14:56/42
2	05:34 06:15-06:44/29 17:48-19:18/90	06:11 06:39-06:49/10 20:31-20:59/28 07:43-08:08/25	06:59 17:38-19:05/87	07:46 09:39-11:11/92	07:38 09:00-09:41/41	08:27 15:13-15:49/36
	22:04 20:10-21:04/54	21:32 06:55-06:58/3 17:38-19:27/109 07:10-07:32/22	20:31 07:36-08:04/28	19:23	17:19	16:41 14:15-14:57/42
3	05:35 06:16-06:44/28 17:48-19:19/91	06:12 06:40-06:47/7 20:33-20:59/26 07:41-08:10/29	07:00 17:39-19:04/85	07:48 09:38-11:10/92	07:40 09:02-09:37/35	08:29 15:13-15:48/35
	22:04 20:11-21:05/54	21:30 06:52-07:01/9 17:37-19:26/109 07:09-07:33/24	20:29 07:39-08:02/23	19:21	17:17	16:41 14:15-14:57/42
4	05:36 06:16-06:45/29 17:48-19:19/91	06:14 06:41-06:44/3 20:33-20:57/24 07:39-08:10/31	07:02 17:40-19:02/82	07:49 09:38-11:11/93	07:42 09:06-09:34/28	08:30 15:14-15:49/35
	22:03 20:11-21:05/54	21:29 06:51-07:03/12 17:36-19:26/110 07:08-07:33/25	20:27 07:41-07:58/17	19:19	17:16	16:40 14:15-14:58/43
5	05:37 06:17-06:45/28 17:48-19:19/91	06:15 06:49-07:03/14 17:36-19:26/110 07:07-07:34/27	07:03 17:42-19:00/78 07:54-08:04/10	07:51 09:38-11:11/93	07:43 09:11-09:29/18	08:31 15:14-15:49/35
	22:03 20:11-21:04/53	21:27 20:35-20:57/22 07:38-08:12/34	20:24 07:48-07:52/4	19:16	17:14	16:40 14:15-14:59/44
6	05:37 06:16-06:45/29 17:48-19:20/92	06:17 06:48-07:04/16 17:36-19:26/110 07:06-07:35/29	07:05 17:42-18:58/76	07:53 09:37-11:10/93	07:45	08:33 15:14-15:49/35
	22:02 20:11-21:05/54	21:25 20:36-20:55/19 07:37-08:13/36	20:22 07:51-08:06/15	19:14	17:12	16:39 14:15-14:59/44
7	05:38 06:16-06:45/29 17:48-19:20/92	06:18 06:48-07:05/17 17:36-19:26/110	07:06 17:44-18:56/72 07:49-08:08/19	07:54 09:37-11:10/93	07:47	08:34 15:15-15:50/35
	22:02 20:12-21:05/53	21:24 20:38-20:53/15 07:06-08:14/68	20:20 10:18-10:34/16	19:12	17:11	16:39 14:16-15:00/44
8	05:39 06:17-06:46/29 17:47-19:21/94	06:20 06:47-08:15/88 17:35-19:26/111	07:08 17:45-18:53/68 07:47-08:08/21	07:56 09:37-11:10/93	07:49	08:35 15:16-15:50/34
	22:01 20:13-21:05/52	21:22 20:40-20:50/10	20:18 10:12-10:40/28	19:10	17:09	16:39 14:16-15:01/45
9	05:40 06:17-06:46/29 17:47-19:21/94	06:21 06:49-08:16/87	07:10 17:48-18:51/63 07:47-08:09/22	07:57 09:37-11:09/92	07:50	08:36 15:16-15:50/34
	22:00 20:13-21:05/52	21:20 17:34-19:25/111	20:15 10:09-10:44/35	19:08	17:07	16:38 14:16-15:01/45
10	05:41 06:16-06:46/30 17:47-19:22/95	06:23 06:50-08:16/86	07:11 17:49-18:48/59 07:45-08:09/24	07:59 09:37-11:09/92	07:52	08:37 15:16-15:50/34
	22:00 20:14-21:05/51	21:18 17:34-19:25/111	20:13 10:05-10:47/42	19:05	17:06	16:38 14:16-15:03/47
11	05:42 06:16-06:47/31 17:47-19:22/95	06:24 06:52-08:17/85	07:13 17:52-18:45/53 07:45-08:09/24	08:01 09:37-11:08/91	07:54 15:22-15:31/9	08:38 15:17-15:51/34
	21:59 20:14-21:04/50	21:16 17:34-19:24/110	20:11 10:03-10:50/47	19:03	17:04	16:38 14:16-15:04/48
12	05:43 06:15-06:47/32 17:47-19:22/95	06:26 06:53-08:18/85	07:14 17:54-18:41/47 07:44-08:09/25	08:02 09:38-11:08/90	07:56 15:18-15:33/15	08:39 15:17-15:51/34
	21:58 20:15-21:04/49	21:14 17:34-19:25/111	20:09 10:00-10:52/52	19:01	17:03	16:38 14:16-15:05/49
13	05:44 06:15-06:48/33 17:46-19:23/97	06:27 06:54-08:17/83	07:16 17:58-18:38/40 07:44-08:09/25	08:04 09:37-11:07/90	07:57 15:16-15:35/19	08:40 15:18-15:51/33
	21:57 20:15-21:04/49	21:13 17:33-19:24/111	20:06 09:58-10:54/56	18:59	17:01	16:38 14:17-15:06/49
14	05:45 06:15-06:49/34 17:46-19:23/97	06:29 06:56-07:02/6 07:04-08:18/74	07:17 18:02-18:32/30 07:43-08:08/25	08:06 09:38-11:06/88	07:59 15:14-15:37/23	08:41 15:19-15:52/33
	21:56 20:16-21:03/47	21:11 17:34-19:24/110	20:04 09:56-10:56/60	18:57	17:00	16:38 14:17-15:07/50
15	05:46 06:16-06:50/34 17:45-19:23/98	06:30 06:57-07:00/3 07:03-08:18/75	07:19 18:10-18:25/15 07:44-08:07/23	08:07 09:38-11:06/88	08:01 15:13-15:39/26	08:42 15:19-15:52/33
	21:55 20:16-21:03/47	21:09 17:33-19:23/110	20:02 09:55-10:58/63	18:55	16:59	16:38 14:18-15:07/49
16	05:48 06:17-06:50/33 17:45-19:23/98	06:32 17:33-19:23/110	07:21 09:53-10:59/66	08:09 09:38-11:04/86	08:02 15:13-15:40/27	08:43 15:20-15:53/33
	21:55 20:17-21:02/45	21:07 07:04-08:19/75	20:00 07:45-08:06/21	18:52	16:57	16:38 14:18-15:08/50
17	05:49 06:18-06:51/33 17:44-19:24/100	06:34 17:33-19:22/109	07:22 09:52-11:01/69	08:11 09:39-11:04/85	08:04 15:12-15:41/29	08:44 15:21-15:53/32
	21:54 20:18-21:02/44	21:05 07:04-08:18/74	19:57 07:47-08:05/18	18:50	16:56	16:38 14:19-15:09/50
18	05:50 06:19-06:51/32 17:44-19:24/100	06:35 17:33-19:22/109	07:24 09:50-11:02/72	08:12 09:39-11:03/84	08:06 15:11-15:41/30	08:45 15:21-15:53/32
	21:52 20:18-21:01/43	21:03 07:05-08:19/74	19:55 07:49-08:04/15	18:48	16:55 14:27-14:37/10	16:39 14:19-15:09/50
19	05:51 06:20-06:51/31 17:43-19:24/101	06:37 17:33-19:21/108	07:25 09:49-11:04/75	08:14 09:40-11:02/82	08:07 15:10-15:42/32	08:45 15:21-15:54/33
	21:51 20:19-21:01/42	21:01 07:05-08:18/73	19:53 07:50-08:01/11	18:46	16:53 14:24-14:41/17	16:39 14:19-15:10/51
20	05:52 06:22-06:52/30 17:43-19:24/101	06:38 17:33-19:20/107	07:27 09:48-11:05/77	08:16 09:41-11:02/81	08:09 15:10-15:43/33	08:46 15:22-15:54/32
	21:50 20:20-21:01/41	20:59 07:06-08:18/72	19:50 07:52-07:58/6	18:44	16:52 14:22-14:43/21	16:39 14:20-15:11/51
21	05:54 06:23-06:52/29 17:43-19:25/102	06:40 17:33-19:19/106	07:28 09:46-11:06/80	08:18 09:41-11:00/79	08:11 15:10-15:44/34	08:47 15:22-15:54/32
	21:49 20:21-21:02/41	20:57 07:07-08:18/71	19:48	18:42	16:51 14:20-14:45/25	16:40 14:20-15:11/51
22	05:55 06:24-06:52/28 17:42-19:25/103	06:41 17:33-19:19/106 07:09-07:28/19	07:30 09:46-11:07/81	08:19 09:42-10:59/77	08:12 15:11-15:45/34	08:47 15:23-15:55/32
	21:48 20:22-21:02/40	20:55 07:29-08:18/49	19:46	18:40	16:50 14:19-14:47/28	16:40 14:21-15:12/51
23	05:56 06:25-06:52/27 17:42-19:25/103	06:43 17:33-19:18/105 07:10-07:25/15	07:32 09:44-11:07/83	08:21 09:43-10:58/75	08:14 15:10-15:45/35	08:48 15:23-15:55/32
	21:47 20:23-21:02/39	20:53 07:29-08:17/48	19:44	18:38	16:49 14:18-14:48/30	16:41 14:21-15:12/51
24	05:58 06:27-06:53/26 17:41-19:25/104	06:44 17:34-19:17/103 07:14-07:22/8	07:33 09:44-11:08/84	08:23 09:44-10:57/73	08:16 15:10-15:45/35	08:48 15:23-15:55/32
	21:45 20:24-21:02/38	20:50 07:30-08:17/47	19:41	18:36	16:48 14:17-14:50/33	16:41 14:21-15:12/51
25	05:59 06:28-06:53/25 17:41-19:26/105	06:46 17:33-19:16/103	07:35 09:42-11:08/86	07:24 08:46-09:56/70	08:17 15:11-15:46/35	08:48 15:25-15:57/32
	21:44 20:27-21:03/36	20:48 07:29-08:15/46	19:39	17:34	16:47 14:17-14:51/34	16:42 14:23-15:13/50
26	06:00 06:29-06:52/23 17:40-19:26/106	06:48 17:34-19:15/101	07:36 09:42-11:09/87	07:26 08:47-09:55/68	08:19 15:10-15:46/36	08:49 15:25-15:57/32
	21:43 20:28-21:02/34	20:46 07:30-08:15/45	19:37	17:32	16:46 14:16-14:51/35	16:43 14:23-15:13/50
27	06:02 06:30-06:52/22 17:40-19:26/106	06:49 17:34-19:14/100	07:38 09:42-11:10/88	07:28 08:48-09:52/64	08:20 15:11-15:47/36	08:49 15:25-15:57/32
	21:41 20:29-21:02/33	20:44 07:30-08:14/44	19:34	17:30	16:45 14:15-14:53/38	16:43 14:23-15:13/50
28	06:03 06:32-06:52/20 17:40-19:26/106	06:51 17:35-19:13/98	07:40 09:40-11:10/90	07:30 08:49-09:51/62	08:22 15:11-15:47/36	08:49 15:25-15:58/33
	21:40 20:30-21:02/32	20:42 07:31-08:13/42	19:32	17:28	16:44 14:16-14:54/38	16:44 14:24-15:13/49
29	06:05 06:33-06:52/19 17:39-19:26/107	06:52 17:35-19:11/96	07:41 09:40-11:10/90	07:31 08:51-09:49/58	08:23 15:11-15:47/36	08:49 15:25-15:58/33
	21:38 20:30-21:02/32 07:19-07:22/3	20:40 07:31-08:11/40	19:30	17:26	16:43 14:15-14:54/39	16:45 14:24-15:13/49
30	06:06 06:35-06:52/17 17:38-19:26/108 07:15-07:26/11	06:54 17:36-19:10/94	07:43 09:39-11:10/91	07:33 08:53-09:48/55	08:25 15:12-15:48/36	08:49 15:26-15:59/33
	21:37 20:30-21:01/31 07:49-08:00/11	20:38 07:33-08:10/37	19:28	17:25	16:43 14:15-14:55/40	16:46 14:25-15:14/49
31	06:08 06:36-06:51/15 17:38-19:27/109 07:13-07:29/16	06:56 17:36-19:08/92		07:35 08:56-09:46/50		08:50 15:26-16:00/34
	21:35 20:31-21:01/30 07:47-08:04/17	20:35 07:33-08:08/35		17:23		16:47 14:25-15:14/49
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	5355	5551	2970	2520	1152	2520

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: KLZ_WT22 - KLZ_WT22 Magelaanstraat

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:53-16:10/17 14:44-15:07/23 10:34-11:26/52	08:24 16:32-16:56/24	07:32 17:27-17:50/23	07:23 08:08-10:54/166	06:20 06:49-07:07/18	05:36 20:24-20:53/29
	16:48 15:35-15:47/12 13:03-13:52/49 09:54-10:30/36	17:35 10:39-11:41/62	18:25	20:17	21:06	21:51
2	08:50 15:53-16:11/18 14:45-15:07/22 10:34-11:27/53	08:23 16:31-16:56/25	07:30 17:27-17:50/23	07:21 08:07-10:53/166	06:18 06:47-07:08/21	05:36 20:25-20:54/29
	16:49 15:36-15:47/11 13:04-13:52/48 09:54-10:31/37	17:36 10:39-11:41/62	18:27	20:19 19:39-19:46/7	21:08	21:52
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	17:33 10:38-11:41/63		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	4178	1259	3097	3551	540	1121

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: KLZ_WT22 - KLZ_WT22 Magelaanstraat

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 20:27-21:04/37 22:04	06:09 06:55-07:19/24 21:34	06:57 09:24-10:43/79 19:27-19:53/26 20:33 08:28-09:21/53	07:44 09:24-10:29/65 19:25 18:39-18:57/18	07:37 16:03-16:26/23 17:21 10:14-11:05/51	08:26 15:41-15:54/13 09:39-11:15/96 16:42 12:53-13:34/41
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18	05:50 20:44-20:51/7 21:52	06:35 09:41-10:24/43 21:03	07:24 09:18-10:44/86 19:55 08:01-09:14/73	08:12 18:03-18:17/14 18:48	08:06 10:11-11:14/63 16:55 09:40-10:09/29	08:45 15:46-16:03/17 14:35-15:01/26 10:28-11:18/50 16:39 15:26-15:42/16 12:55-13:46/51 09:47-10:22/35
19	05:51 21:51	06:37 09:39-10:26/47 21:01	07:25 09:17-10:43/86 08:02-08:24/22 19:53 08:26-09:12/46	08:14 18:06-18:15/9 18:46	08:07 10:10-11:14/64 16:53 09:38-10:09/31	08:45 15:47-16:04/17 14:36-15:02/26 10:29-11:18/49 16:39 15:27-15:43/16 12:56-13:46/50 09:48-10:23/35
20	05:53 21:50	06:38 09:38-10:28/50 20:59 08:50-09:03/13	07:27 09:18-10:43/85 08:03-08:22/19 19:50 08:28-09:10/42	08:16 18:44	08:09 09:38-11:14/96 16:52	08:46 15:48-16:05/17 14:37-15:03/26 10:30-11:19/49 16:39 15:28-15:44/16 12:57-13:47/50 09:49-10:24/35
21	05:54 21:49	06:40 09:36-10:30/54 20:57 08:45-09:06/21	07:29 09:18-10:42/84 08:05-08:19/14 19:48 08:28-09:08/40	08:18 18:42	08:11 13:04-13:19/15 16:51 09:38-11:15/97	08:47 15:47-16:05/18 14:37-15:03/26 10:30-11:19/49 16:40 15:28-15:44/16 12:57-13:47/50 09:49-10:24/35
22	05:55 21:48	06:41 09:35-10:32/57 20:55 08:43-09:09/26	07:30 09:18-10:41/83 08:10-08:14/4 19:46 08:30-09:06/36	08:19 18:40	08:12 13:01-13:22/21 16:50 09:38-11:15/97	08:47 15:48-16:06/18 14:38-15:04/26 10:31-11:20/49 16:40 15:29-15:45/16 12:58-13:48/50 09:50-10:25/35
23	05:56 07:06-07:08/2 21:47	06:43 09:33-10:33/60 20:53 08:40-09:11/31	07:32 09:18-10:40/82 19:44 08:31-09:03/32	08:21 18:38	08:14 12:59-13:24/25 16:49 09:37-11:14/97	08:48 15:48-16:06/18 14:38-15:04/26 10:31-11:20/49 16:41 15:29-15:45/16 12:58-13:48/50 09:50-10:25/35
24	05:58 07:03-07:12/9 21:45	06:45 09:32-10:35/63 19:38-19:47/9 20:50 08:39-09:13/34	07:33 09:19-10:39/80 18:50-18:52/2 19:41 08:34-09:01/27	08:23 11:32-11:45/13 18:36	08:16 12:58-13:26/28 16:48 09:38-11:15/97	08:48 15:49-16:06/17 14:38-15:04/26 10:31-11:20/49 16:41 15:29-15:45/16 12:58-13:48/50 09:50-10:25/35
25	05:59 07:01-07:14/13 21:44	06:46 09:30-10:36/66 19:35-19:49/14 20:48 08:36-09:14/38	07:35 09:20-10:38/78 18:45-18:55/10 19:39 08:37-08:58/21	07:24 10:27-10:50/23 17:34	08:17 12:57-13:28/31 16:47 09:38-11:15/97	08:48 15:50-16:07/17 14:39-15:05/26 10:32-11:22/50 16:42 15:30-15:46/16 12:59-13:49/50 09:51-10:26/35
26	06:01 06:59-07:15/16 21:43	06:48 09:30-10:38/68 19:33-19:51/18 20:46 08:35-09:16/41	07:36 09:20-10:37/77 18:43-18:57/14 19:37 08:42-08:51/9	07:26 10:24-10:54/30 17:32	08:19 12:55-13:29/34 16:46 09:38-11:14/96	08:49 15:50-16:07/17 14:39-15:05/26 10:32-11:22/50 16:43 15:31-15:46/15 13:00-13:50/50 09:51-10:27/36
27	06:02 06:59-07:17/18 21:41	06:49 09:28-10:38/70 19:31-19:51/20 20:44 08:33-09:17/44	07:38 09:21-10:36/75 19:34 18:42-18:58/16	07:28 10:21-10:56/35 17:30	08:20 15:45-15:48/3 09:38-11:15/97 16:45 12:55-13:30/35	08:49 15:50-16:08/18 14:40-15:06/26 10:32-11:22/50 16:43 15:31-15:46/15 13:00-13:50/50 09:52-10:27/35
28	06:03 06:58-07:17/19 21:40	06:51 09:28-10:40/72 19:30-19:52/22 20:42 08:33-09:18/45	07:40 09:21-10:34/73 19:32 18:40-18:58/18	07:30 16:10-16:19/9 17:28 10:19-10:58/39	08:22 15:43-15:51/8 09:39-11:15/96 16:44 12:54-13:32/38	08:49 15:51-16:08/17 14:40-15:06/26 10:32-11:23/51 16:44 15:32-15:46/14 13:00-13:50/50 09:52-10:27/35
29	06:05 06:57-07:18/21 21:38	06:52 09:26-10:40/74 19:28-19:52/24 20:40 08:31-09:18/47	07:41 09:22-10:33/71 19:30 18:40-18:58/18	07:31 16:07-16:22/15 17:27 10:17-11:00/43	08:23 15:42-15:52/10 09:38-11:15/97 16:44 12:53-13:33/40	08:49 15:51-16:08/17 14:41-15:06/25 10:33-11:23/50 16:45 15:32-15:47/15 13:01-13:50/49 09:52-10:28/36
30	06:06 06:57-07:19/22 21:37	06:54 09:26-10:42/76 19:28-19:53/25 20:38 08:30-09:20/50	07:43 09:24-10:31/67 19:28 18:39-18:57/18	07:33 16:05-16:23/18 17:25 10:16-11:02/46	08:25 15:42-15:54/12 09:39-11:15/96 16:43 12:54-13:34/40	08:50 15:51-16:09/18 14:42-15:06/24 10:33-11:24/51 16:46 15:33-15:47/14 13:02-13:51/49 09:53-10:28/35
31	06:08 06:56-07:19/23 21:35	06:56 09:24-10:42/78 19:27-19:53/26 20:35 08:29-09:20/51		07:35 16:04-16:25/21 17:23 10:15-11:04/49		08:50 15:52-16:09/17 14:43-15:06/23 10:33-11:25/52 16:47 15:34-15:47/13 13:02-13:51/49 09:53-10:29/36
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	653	1913	4443	1114	3107	5753

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 12:35-14:01/86 09:32-09:41/9	08:24 13:12-14:07/55 09:37-09:56/19	07:32	07:23	06:20 06:44-07:27/43	05:36 06:20-06:34/14
	16:48 10:49-11:38/49	17:35 10:50-11:58/68	18:25	20:17	21:06	21:50
2	08:49 12:36-14:01/85 09:32-09:42/10	08:22 13:13-14:06/53 09:38-09:54/16	07:30	07:21 08:05-08:17/12	06:18 06:42-07:27/45	05:36 06:22-06:35/13
	16:49 10:49-11:39/50	17:36 10:49-11:58/69	18:26	20:19	21:08	21:52
3	08:49 12:37-14:02/85 09:32-09:44/12	08:21 13:14-14:05/51 09:40-09:51/11	07:28	07:19 08:02-08:21/19	06:16 06:41-07:27/46	05:35 06:22-06:34/12
	16:50 10:50-11:40/50	17:38 10:49-11:58/69	18:28	20:20	21:09	21:53
4	08:49 12:37-14:02/85 09:31-09:45/14	08:19 13:16-14:05/49	07:26	07:16 07:59-08:23/24	06:15 06:39-07:26/47	05:34 06:23-06:33/10
	16:51 10:49-11:41/52	17:40 10:50-11:58/68	18:30	20:22	21:11	21:54
5	08:49 12:38-14:03/85 09:31-09:46/15	08:18 13:17-14:03/46	07:24	07:14 07:57-08:25/28	06:13 06:37-07:25/48	05:33 06:24-06:32/8
	16:52 10:49-11:42/53	17:42 10:50-11:58/68	18:32	20:24 07:37-07:44/7	21:13	21:55
6	08:49 12:39-14:03/84 09:30-09:47/17	08:16 13:19-14:02/43	07:21	07:12 07:54-08:25/31	06:11 06:38-07:25/47	05:33 06:25-06:31/6
	16:54 10:49-11:42/53	17:44 10:50-11:57/67	18:33	20:25 07:34-07:45/11	21:14	21:56
7	08:48 12:40-14:04/84 09:30-09:48/18	08:14 13:21-14:00/39	07:19	07:10 07:53-08:26/33	06:09 06:38-06:49/11	05:32 06:28-06:29/1
	16:55 10:49-11:43/54	17:45 10:51-11:57/66	18:35	20:27 07:32-07:46/14	21:16 06:50-07:23/33	21:56
8	08:48 12:41-14:04/83 09:29-09:49/20	08:13 13:24-13:58/34	07:17	07:08 07:52-08:27/35	06:08 06:32-06:35/3 06:50-07:21/31	05:32
	16:56 10:49-11:44/55	17:47 10:52-11:57/65	18:37	20:29 07:30-07:46/16	21:17 06:39-06:47/8	21:57
9	08:47 12:43-14:05/82 09:29-09:51/22	08:11 13:27-13:56/29	07:15	07:05 07:51-08:28/37	06:06 06:31-06:37/6 07:07-07:20/13	05:31
	16:57 10:49-11:45/56	17:49 10:52-11:56/64	18:38	20:30 07:29-07:47/18	21:19 06:42-06:46/4 06:52-07:05/13	21:58
10	08:47 12:44-14:05/81 09:29-09:51/22	08:09 13:31-13:52/21	07:13	07:03 07:50-08:28/38	06:04 06:29-06:38/9 06:53-07:02/9	05:31
	16:59 10:49-11:46/57	17:51 10:53-11:56/63	18:40	20:32 07:29-07:47/18	21:21 07:09-07:17/8	21:59
11	08:46 12:45-14:06/81 09:28-09:52/24	08:08 10:53-11:55/62	07:10	07:01 07:49-08:28/39	06:03 06:28-06:39/11	05:31
	17:00 10:49-11:46/57	17:53	18:42	20:33 07:29-07:46/17	21:22 06:56-07:00/4	22:00
12	08:46 12:47-14:06/79 09:29-09:54/25	08:06 10:54-11:54/60	07:08	06:59 07:48-08:28/40	06:01 06:26-06:39/13	05:30
	17:02 10:49-11:48/59	17:54	18:44	20:35 07:28-07:45/17	21:24	22:00
13	08:45 12:49-14:07/78 09:29-09:54/25	08:04 10:54-11:53/59	07:06	06:57 07:47-08:28/41	05:59 06:25-06:40/15	05:30
	17:03 10:49-11:49/60	17:56	18:45	20:37 07:29-07:44/15	21:25	22:01
14	08:44 12:51-14:07/76 09:29-09:55/26	08:02 10:55-11:51/56	07:04	06:55 07:47-08:28/41	05:58 06:23-06:40/17	05:30
	17:05 10:49-11:49/60	17:58	18:47	20:38 07:30-07:42/12	21:27	22:01
15	08:44 12:54-14:08/74 09:29-09:56/27	08:00 10:56-11:50/54	07:02	06:52 07:47-08:27/40	05:56 06:22-06:40/18	05:30
	17:06 10:49-11:50/61	18:00	18:49	20:40 07:31-07:40/9	21:28	22:02
16	08:43 13:02-14:08/66 09:29-09:56/27	07:58 10:57-11:49/52	06:59	06:50 07:47-08:27/40	05:55 06:21-06:40/19	05:29
	17:08 10:49-11:51/62	18:02	18:50	20:42	21:30	22:03
17	08:42 13:02-14:08/66 09:29-09:57/28	07:56 10:59-11:47/48	06:57	06:48 07:46-08:27/41	05:53 06:19-06:39/20	05:29
	17:09 10:49-11:51/62	18:03	18:52	20:43	21:31	22:03
18	08:41 13:03-14:09/66 09:29-09:57/28	07:55 11:00-11:45/45	06:55	06:46 07:47-08:26/39	05:52 06:18-06:39/21	05:29
	17:11 10:49-11:52/63	18:05	18:54	20:45	21:33	22:03
19	08:40 13:03-14:09/66 09:29-09:58/29	07:53 11:02-11:42/40	06:53	06:44 07:47-08:25/38	05:51 06:17-06:39/22	05:29
	17:12 10:49-11:53/64	18:07	18:55	20:47	21:34	22:04
20	08:39 13:04-14:09/65 09:29-09:59/30	07:51 11:04-11:40/36	06:50	06:42 07:47-08:25/38	05:49 06:16-06:39/23	05:30
	17:14 10:49-11:54/65	18:09	18:57	20:48 07:12-07:21/9	21:35	22:04
21	08:38 13:04-14:09/65 09:29-09:58/29	07:49 11:07-11:36/29	06:48	06:40 07:47-08:24/37	05:48 06:15-06:38/23	05:30
	17:16 10:48-11:54/66	18:11	18:59	20:50 07:09-07:24/15	21:37	22:04
22	08:37 13:04-14:09/65 09:29-09:59/30	07:47 11:11-11:31/20	06:46	06:38 07:48-08:23/35	05:47 06:14-06:37/23	05:30
	17:17 10:48-11:54/66	18:12	19:00	20:52 07:07-07:25/18	21:38	22:05
23	08:36 13:05-14:09/64 09:30-09:59/29	07:45	06:43	06:36 07:48-08:21/33	05:46 06:12-06:36/24	05:30
	17:19 10:48-11:55/67	18:14	19:02	20:53 07:05-07:26/21	21:39	22:05
24	08:35 13:05-14:09/64 09:31-10:00/29	07:43	06:41	06:34 07:49-08:20/31	05:44 06:12-06:36/24	05:30
	17:21 10:48-11:55/67	18:16	19:04	20:55 07:04-07:27/23	21:41	22:05
25	08:34 13:06-14:09/63 09:30-09:59/29	07:40	06:39	06:32 07:50-08:18/28	05:43 06:12-06:36/24	05:31
	17:22 10:48-11:56/68	18:18	19:05	20:56 06:55-07:27/32	21:42	22:05
26	08:32 13:07-14:09/62 09:31-10:00/29	07:38	06:37	06:30 07:51-08:16/25	05:42 06:13-06:36/23	05:31
	17:24 10:49-11:57/68	18:19	19:07	20:58 06:53-07:28/35	21:43	22:05
27	08:31 13:07-14:09/62 09:31-09:59/28	07:36	06:34	06:28 07:52-08:14/22	05:41 06:15-06:36/21	05:32
	17:26 10:48-11:57/69	18:21	19:09	21:00 06:51-07:28/37	21:45	22:05
28	08:30 13:08-14:09/61 09:32-09:59/27	07:34	06:32	06:26 07:54-08:12/18	05:40 06:18-06:36/18	05:32
	17:28 10:49-11:57/68	18:23	19:10	21:01 06:51-07:28/37	21:46	22:05
29	08:28 13:09-14:08/59 09:33-09:58/25		07:30	06:24 06:48-06:49/1 06:50-07:28/38	05:39 06:19-06:36/17	05:33
	17:29 10:48-11:57/69		20:12	21:03 07:58-08:09/11	21:47	22:05
30	08:27 13:10-14:08/58 09:34-09:58/24		07:28	06:22 06:46-07:28/42	05:38 06:20-06:36/16	05:33
	17:31 10:49-11:58/69		20:14	21:05	21:48	22:04
31	08:25 13:11-14:07/56 09:35-09:57/22		07:25		05:37 06:20-06:35/15	
	17:33 10:49-11:58/69		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	4853	1694	0	1356	835	64

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 06:37-06:49/12 21:34	06:57 07:48-08:27/39 20:33 07:28-07:45/17	07:44 19:25	07:36 13:00-13:22/22 17:21 10:22-11:25/63	08:26 12:27-13:48/81 09:11-09:34/23 16:42 10:31-11:29/58
2	05:34 22:04	06:10 06:39-06:49/10 07:05-07:12/7 21:32 07:23-07:25/2	06:59 07:48-08:26/38 20:31 07:27-07:45/18	07:46 19:23	07:38 12:56-13:26/30 17:19 10:22-11:26/64	08:27 12:27-13:48/81 09:12-09:34/22 16:41 10:32-11:29/57
3	05:35 22:03	06:12 06:40-06:48/8 07:02-07:14/12 21:30 07:18-07:29/11	07:00 07:49-08:26/37 20:29 07:27-07:45/18	07:48 19:21	07:40 12:52-13:28/36 17:17 10:21-11:26/65	08:29 12:26-13:48/82 09:12-09:34/22 16:41 10:32-11:28/56
4	05:36 22:03	06:13 06:41-06:46/5 07:16-07:30/14 21:29 06:51-06:57/6 07:01-07:15/14	07:02 07:49-08:24/35 20:27 07:27-07:43/16	07:49 19:19	07:42 12:50-13:30/40 17:16 10:20-11:27/67	08:30 12:26-13:49/83 09:14-09:34/20 16:40 10:34-11:29/55
5	05:37 22:03	06:15 06:43-06:45/2 07:00-07:32/32 21:27 06:49-06:58/9	07:03 07:50-08:23/33 20:24 07:29-07:43/14	07:51 19:16	07:43 12:48-13:32/44 17:14 10:20-11:27/67	08:31 12:25-13:49/84 09:15-09:34/19 16:40 10:34-11:29/55
6	05:37 06:32-06:37/5 22:02	06:16 06:48-07:33/45 21:25	07:05 07:50-08:21/31 20:22 07:30-07:41/11	07:52 19:14	07:45 12:47-13:33/46 17:12 10:20-11:28/68	08:33 12:25-13:49/84 09:16-09:33/17 16:39 10:35-11:28/53
7	05:38 06:31-06:38/7 22:02	06:18 06:47-07:34/47 21:23	07:06 07:52-08:20/28 20:20 07:32-07:40/8	07:54 19:12	07:47 12:46-13:35/49 09:16-09:17/1 17:11 10:20-11:28/68	08:34 12:25-13:50/85 09:18-09:33/15 16:39 10:36-11:29/53
8	05:39 06:30-06:40/10 22:01	06:20 06:47-07:35/48 21:22	07:08 07:53-08:17/24 20:18 07:33-07:35/2	07:56 19:10	07:49 12:45-13:36/51 09:11-09:23/12 17:09 10:20-11:28/68	08:35 12:25-13:50/85 09:19-09:33/14 16:39 10:37-11:29/52
9	05:40 06:30-06:41/11 22:00	06:21 06:49-07:36/47 21:20	07:10 07:55-08:15/20 20:15	07:57 19:08	07:50 12:44-13:37/53 09:09-09:25/16 17:07 10:20-11:29/69	08:36 12:25-13:50/85 09:20-09:32/12 16:38 10:38-11:29/51
10	05:41 06:29-06:42/13 22:00	06:23 06:50-07:36/46 21:18	07:11 07:58-08:11/13 20:13	07:59 19:05	07:52 12:43-13:38/55 09:08-09:27/19 17:06 10:20-11:29/69	08:37 12:25-13:51/86 09:21-09:31/10 16:38 10:38-11:28/50
11	05:42 06:29-06:42/13 21:59	06:24 06:52-07:35/43 21:16	07:13 20:11	08:01 19:03	07:54 12:42-13:39/57 09:07-09:29/22 17:04 10:21-11:29/68	08:38 12:25-13:51/86 09:22-09:31/9 16:38 10:39-11:28/49
12	05:43 06:29-06:43/14 21:58	06:26 06:53-07:36/43 21:14	07:14 20:09	08:02 19:01	07:56 12:41-13:39/58 09:05-09:29/24 17:03 10:20-11:29/69	08:39 12:25-13:51/86 09:24-09:30/6 16:38 10:40-11:28/48
13	05:44 06:28-06:44/16 21:57	06:27 06:54-07:36/42 21:12	07:16 20:06	08:04 18:59	07:57 12:41-13:40/59 09:05-09:30/25 17:01 10:20-11:29/69	08:40 12:25-13:51/86 16:38 10:40-11:29/49
14	05:45 06:28-06:44/16 21:56	06:29 08:05-08:18/13 21:11 06:58-07:36/38	07:17 20:04	08:06 18:57	07:59 12:40-13:41/61 09:04-09:31/27 17:00 10:21-11:29/68	08:41 12:25-13:52/87 16:38 10:41-11:29/48
15	05:46 06:28-06:45/17 21:55	06:30 08:01-08:20/19 21:09 06:58-07:35/37	07:19 20:02	08:07 18:55	08:01 12:40-13:42/62 09:04-09:32/28 16:59 10:21-11:29/68	08:42 12:26-13:52/86 16:38 10:42-11:29/47
16	05:48 06:27-06:45/18 21:54	06:32 07:59-08:22/23 21:07 06:59-07:35/36	07:21 19:59	08:09 18:52	08:02 12:40-13:42/62 09:04-09:32/28 16:57 10:22-11:30/68	08:43 12:26-13:53/87 16:38 10:43-11:30/47
17	05:49 06:23-06:46/23 21:53	06:33 07:57-08:23/26 21:05 07:00-07:34/34	07:22 19:57	08:11 18:50	08:04 12:40-13:43/63 09:04-09:33/29 16:56 10:22-11:30/68	08:44 12:27-13:54/87 16:38 10:44-11:30/46
18	05:50 06:22-06:46/24 21:52	06:35 07:56-08:25/29 21:03 07:02-07:34/32	07:24 19:55	08:12 18:48	08:06 12:39-13:43/64 09:05-09:34/29 16:55 10:22-11:29/67	08:45 12:26-13:53/87 16:39 10:44-11:30/46
19	05:51 06:22-06:46/24 21:51	06:37 07:54-08:26/32 21:01 07:10-07:32/22	07:25 19:53	08:14 11:47-11:57/10 18:46	08:07 12:39-13:43/64 09:04-09:33/29 16:53 10:22-11:29/67	08:45 12:27-13:54/87 16:39 10:45-11:30/45
20	05:52 06:22-06:47/25 21:50	06:38 07:54-08:27/33 20:59 07:11-07:32/21	07:27 19:50	08:16 11:41-12:04/23 18:44	08:09 12:39-13:44/65 09:04-09:34/30 16:52 10:23-11:29/66	08:46 12:28-13:55/87 16:39 10:46-11:31/45
21	05:54 06:23-06:47/24 21:49	06:40 07:52-08:27/35 20:57 07:12-07:30/18	07:28 19:48	08:17 11:37-12:08/31 18:42	08:11 12:40-13:45/65 09:05-09:34/29 16:51 10:24-11:30/66	08:47 12:28-13:55/87 16:40 10:46-11:31/45
22	05:55 06:24-06:48/24 21:48	06:41 07:52-08:29/37 20:55 07:14-07:28/14	07:30 19:46	08:19 11:34-12:11/37 18:40	08:12 12:40-13:45/65 09:05-09:35/30 16:50 10:25-11:30/65	08:47 12:29-13:56/87 16:40 10:47-11:32/45
23	05:56 06:25-06:48/23 21:47	06:43 07:51-08:28/37 20:52 07:16-07:25/9	07:32 19:43	08:21 11:32-12:14/42 18:38	08:14 12:39-13:45/66 09:05-09:34/29 16:49 10:25-11:29/64	08:48 12:29-13:56/87 16:41 10:47-11:32/45
24	05:58 06:27-06:50/23 21:45	06:44 07:50-08:29/39 20:50	07:33 19:41	08:23 11:30-12:16/46 18:36	08:16 12:40-13:46/66 09:06-09:35/29 16:48 10:26-11:29/63	08:48 12:29-13:56/87 16:41 10:47-11:32/45
25	05:59 06:28-06:50/22 21:44	06:46 07:49-08:29/40 20:48	07:35 19:39	07:24 10:29-11:18/49 17:34	08:17 12:40-13:46/66 09:07-09:35/28 16:47 10:27-11:30/63	08:48 12:30-13:57/87 16:42 10:48-11:33/45
26	06:00 06:29-06:50/21 21:42	06:48 07:49-08:29/40 20:46	07:36 19:37	07:26 10:28-11:19/51 17:32	08:19 12:40-13:46/66 09:07-09:34/27 16:46 10:27-11:29/62	08:49 12:31-13:57/86 16:43 10:48-11:34/46
27	06:02 06:30-06:50/20 21:41	06:49 07:48-08:29/41 20:44	07:38 19:34	07:28 10:26-11:20/54 17:30	08:20 12:33-13:47/74 09:08-09:35/27 16:45 10:28-11:29/61	08:49 12:31-13:58/87 16:43 10:48-11:34/46
28	06:03 06:32-06:51/19 21:40	06:51 07:49-08:29/40 20:42 07:33-07:42/9	07:40 19:32	07:30 10:25-11:21/56 17:28	08:22 12:31-13:47/76 09:09-09:35/26 16:44 10:29-11:29/60	08:49 12:32-13:58/86 16:44 10:48-11:35/47
29	06:05 06:33-06:50/17 21:38	06:52 07:48-08:28/40 20:40 07:31-07:43/12	07:41 19:30	07:31 10:24-11:23/59 17:26	08:23 12:29-13:47/78 09:09-09:34/25 16:43 10:29-11:29/60	08:49 12:32-13:59/87 16:45 10:48-11:36/48
30	06:06 06:34-06:51/17 21:37	06:54 07:48-08:29/41 20:38 07:30-07:45/15	07:43 19:28	07:33 10:23-11:24/61 17:25	08:25 12:28-13:48/80 09:10-09:35/25 16:43 10:30-11:29/59	08:49 12:33-13:59/86 16:46 10:48-11:36/48
31	06:08 06:36-06:50/14 21:35	06:55 07:48-08:27/39 20:35 07:28-07:45/17		07:35 13:08-13:16/8 17:23 10:23-11:25/62		08:50 12:34-14:00/86 09:34-09:38/4 16:47 10:49-11:37/48
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	460	1423	402	589	4306	4366

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:37-09:40/3	08:24 08:50-08:54/4	07:32 07:55-08:02/7	07:23	06:20	05:37
	16:48 10:05-10:22/17	17:35	18:25	20:17	21:06	21:50
2	08:49 10:07-10:22/15	08:22 08:48-08:54/6	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 10:07-10:21/14	08:21 08:46-08:53/7	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:08-10:21/13	08:19 08:46-08:53/7	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:10-10:20/10	08:18	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 10:11-10:19/8	08:16	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:20/2	08:14	07:19	07:10	06:09	05:32
	16:55 10:15-10:17/2	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:17-09:21/4	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:16-09:22/6	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:22/7	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:14-09:23/9	08:04	07:06	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:24/11	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:12-09:24/12	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:12-09:24/12	07:56	06:57	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:13-09:23/10	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:15-09:23/8	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:17-09:22/5	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:05/3	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:05/5	06:35	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:03/6	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:54/1		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	195	38	7	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-09:04/7
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	08:59-09:05/6
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40		08:29	09:00-09:04/4
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42		08:30	09:02-09:05/3
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43		08:31	09:03-09:05/2
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:53		07:45	08:18-08:20/2	08:33	09:04-09:05/1
	22:02	21:25	20:22	19:14		17:12		16:40	09:58-10:05/7
7	05:38	06:18	07:07	07:54		07:47	08:16-08:23/7	08:34	09:57-10:07/10
	22:02	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:24/7	08:35	09:57-10:09/12
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:25/6	08:36	09:56-10:10/14
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:25/4	08:37	09:56-10:11/15
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:26/3	08:38	09:27-09:30/3
	21:59	21:16	20:11	19:03		17:04		16:38	09:56-10:12/16
12	05:43	06:26	07:14	08:02	08:31-08:35/4	07:56		08:39	09:26-09:31/5
	21:58	21:14	20:09	19:01		17:03		16:38	09:56-10:12/16
13	05:44	06:27	07:16	08:04	08:29-08:36/7	07:57		08:40	09:26-09:32/6
	21:57	21:12	20:06	18:59		17:01		16:38	09:56-10:13/17
14	05:45	06:29	07:17	08:06	08:31-08:37/6	07:59		08:41	09:26-09:33/7
	21:56	21:11	20:04	18:57		17:00		16:38	09:56-10:14/18
15	05:47	06:30	07:19	08:07	08:33-08:37/4	08:01		08:42	09:26-09:34/8
	21:55	21:09	20:02	18:55		16:59		16:38	09:56-10:15/19
16	05:48	06:32	07:21	08:09	08:35-08:37/2	08:02		08:43	09:26-09:35/9
	21:54	21:07	20:00	18:53		16:57		16:38	09:57-10:16/19
17	05:49	06:34	07:22	08:11		08:04		08:44	09:27-09:36/9
	21:53	21:05	19:57	18:50		16:56		16:39	09:57-10:17/20
18	05:50	06:35	07:24	08:12		08:06		08:44	09:27-09:36/9
	21:52	21:03	19:55	18:48		16:55		16:39	09:57-10:16/19
19	05:51	06:37	07:25	08:14		08:07		08:45	09:27-09:37/10
	21:51	21:01	19:53	18:46		16:53		16:39	09:58-10:17/19
20	05:53	06:38	07:27	08:16		08:09		08:46	09:28-09:38/10
	21:50	20:59	19:50	18:44		16:52		16:39	09:58-10:18/20
21	05:54	06:40	07:28	08:17		08:11		08:46	09:28-09:38/10
	21:49	20:57	19:48	18:42		16:51		16:40	09:58-10:18/20
22	05:55	06:41	07:30	08:19		08:12	08:53-08:58/5	08:47	09:29-09:39/10
	21:48	20:55	19:46	18:40		16:50		16:40	09:59-10:19/20
23	05:56	06:43	07:32	08:21		08:14	08:51-08:59/8	08:47	09:29-09:39/10
	21:46	20:52	19:44	18:38		16:49		16:41	09:59-10:19/20
24	05:58	06:45	07:33	08:23		08:15	08:50-09:00/10	08:48	09:29-09:39/10
	21:45	20:50	19:41	18:36		16:48		16:41	09:59-10:19/20
25	05:59	06:46	07:35	07:24		08:17	08:50-09:02/12	08:48	09:30-09:40/10
	21:44	20:48	19:39	17:34		16:47		16:42	10:01-10:20/19
26	06:01	06:48	07:36	07:26		08:19	08:50-09:02/12	08:49	09:31-09:40/9
	21:42	20:46	19:37	17:32		16:46		16:43	10:01-10:21/20
27	06:02	06:49	07:38	07:28		08:20	08:51-09:03/12	08:49	09:31-09:40/9
	21:41	20:44	19:34	17:30		16:45		16:43	10:02-10:21/19
28	06:03	06:51	07:40	07:29		08:22	08:53-09:04/11	08:49	09:32-09:40/8
	21:40	20:42	19:32	17:28		16:44		16:44	10:02-10:21/19
29	06:05	06:52	07:41	07:31		08:23	08:54-09:03/9	08:49	09:33-09:40/7
	21:38	20:40	19:30	17:27		16:44		16:45	10:03-10:21/18
30	06:06	06:54	07:43	07:33		08:24	08:56-09:04/8	08:49	09:34-09:40/6
	21:37	20:38	19:28	17:25		16:43		16:46	10:03-10:21/18
31	06:08	06:56		07:35				08:49	09:35-09:40/5
	21:35	20:35		17:23				16:47	10:04-10:21/17
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	23		116		644	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: ATS_WT01 - NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:20-09:31/11	08:24	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:44	07:36	08:26 09:06-09:13/7
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49 09:20-09:32/12	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 09:06-09:15/9
	16:49	17:37	18:27	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49 09:20-09:32/12	08:21	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29 09:06-09:16/10
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:18	16:41
4	08:49 09:19-09:32/13	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30 09:06-09:17/11
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:41
5	08:49 09:19-09:33/14	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31 09:06-09:18/12
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49 09:19-09:32/13	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33 09:06-09:18/12
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48 09:21-09:33/12	08:14	07:19	07:10	06:09	05:33	05:39	06:18	07:07	07:54	07:47	08:34 09:06-09:20/14
	16:55	17:46	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:21-09:32/11	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35 09:07-09:20/13
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:22-09:33/11	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:57	07:50	08:36 09:08-09:20/12
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:08	16:39
10	08:47 09:23-09:32/9	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:09-09:21/12
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46 09:24-09:31/7	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:10-09:21/11
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:27-09:31/4	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39 09:11-09:22/11
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40 09:12-09:22/10
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41 09:13-09:23/10
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42 09:14-09:23/9
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43 09:15-09:24/9
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	20:00	18:53	16:57	16:38
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44 09:16-09:24/8
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:44 09:16-09:24/8
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:25/8
	17:13	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39
20	08:39	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09	08:46 09:18-09:26/8
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:17	08:11	08:46 09:18-09:26/8
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47 09:19-09:27/8
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14	08:47 09:19-09:27/8
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:15	08:48 09:19-09:27/8
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42
25	08:33	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48 09:20-09:28/8
	17:23	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49 09:20-09:28/8
	17:24	18:20	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:29/9
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:44
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49 09:20-09:29/9
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49 09:20-09:29/9
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 09:08-09:12/4	08:49 09:20-09:30/10
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49 09:20-09:30/10
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	129	0	0	0	0	0	0	0	0	0	4	299

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 09:22-09:57/35 17:35 08:50-09:07/17	07:32 13:53-15:15/82 07:55-08:08/13 18:25 09:13-10:12/59	07:23 07:46-08:01/15 20:17 14:16-16:35/139	06:20 06:44-06:58/14 21:06 15:01-16:20/79	05:36 06:13-06:40/27 21:50
2	08:49 16:49	08:22 09:22-09:56/34 17:36 08:48-09:07/19	07:30 13:51-15:17/86 07:53-08:09/16 18:26 09:13-10:12/59	07:21 07:43-07:59/16 20:19 14:16-16:35/139	06:18 06:42-06:58/16 21:08 15:04-16:19/75	05:36 06:14-06:41/27 21:51
3	08:49 16:50	08:21 09:22-09:56/34 17:38 08:48-09:08/20	07:28 13:49-15:19/90 07:51-08:09/18 18:28 09:14-10:11/57	07:19 07:44-07:57/13 20:20 14:16-16:35/139	06:16 06:41-07:00/19 21:09 15:06-16:17/71	05:35 06:14-06:40/26 21:53
4	08:49 16:51	08:19 09:23-10:00/37 17:40 08:48-09:09/21	07:26 13:47-15:21/94 07:49-08:09/20 18:30 09:15-10:10/55	07:16 07:46-07:50/4 20:22 14:16-16:35/139	06:15 06:40-07:00/20 21:11 15:10-16:17/67	05:34 06:13-06:40/27 21:54
5	08:49 16:52	08:18 09:23-10:02/39 17:42 08:48-09:09/21	07:24 13:44-15:21/97 07:47-08:07/20 18:32 09:14-10:08/54	07:14 14:16-16:35/139 20:24	06:13 06:40-06:59/19 21:13 15:13-16:16/63	05:33 06:14-06:41/27 21:55
6	08:49 16:54	08:16 09:24-10:04/40 17:44 08:47-09:09/22	07:21 13:43-15:23/100 07:44-08:07/23 18:33 09:15-10:07/52	07:12 14:16-16:34/138 20:25	06:11 06:40-07:00/20 21:14 15:16-16:14/58	05:33 06:14-06:41/27 21:55
7	08:48 16:55	08:14 09:25-10:05/40 17:45 08:47-09:09/22	07:19 13:41-15:24/103 07:43-08:05/22 18:35 09:16-10:06/50	07:10 14:16-16:34/138 20:27	06:09 06:40-07:00/20 21:16 15:20-16:13/53	05:32 06:14-06:41/27 21:56
8	08:48 16:56	08:13 09:24-10:07/43 17:47 08:49-09:09/20	07:17 13:40-15:26/106 07:54-08:04/10 18:37 09:17-10:04/47 07:45-07:51/6	07:08 14:16-16:34/138 20:28	06:08 06:39-06:59/20 21:17 15:23-16:11/48	05:32 06:15-06:42/27 21:57
9	08:47 16:58	08:11 09:22-10:08/46 17:49 08:49-09:09/20	07:15 13:38-15:26/108 18:38 09:18-10:01/43	07:05 14:17-16:34/137 20:30	06:06 06:40-06:59/19 21:19 15:26-16:10/44	05:31 06:15-06:41/26 21:58
10	08:47 16:59	08:09 09:21-10:09/48 17:51 08:49-09:08/19	07:13 13:36-15:27/111 18:40 09:19-09:59/40	07:03 14:17-16:34/137 20:32	06:04 06:40-06:58/18 21:20 15:30-16:08/38	05:31 06:15-06:42/27 21:59
11	08:46 09:31-09:35/4 17:00	08:08 09:20-10:10/50 17:53 08:50-09:07/17	07:10 13:35-15:28/113 18:42 09:21-09:57/36	07:01 14:17-16:32/135 20:33	06:03 06:41-06:58/17 21:22 15:34-16:07/33	05:31 06:16-06:42/26 21:59
12	08:46 09:28-09:38/10 17:02	08:06 09:19-10:11/52 17:54 08:51-09:06/15	07:08 13:34-15:30/116 07:31-07:35/4 18:44 09:23-09:54/31	06:59 14:18-16:32/134 20:35	06:01 06:41-06:56/15 21:24 15:38-16:04/26	05:30 06:15-06:41/26 22:00
13	08:45 09:27-09:41/14 17:03	08:04 09:18-10:12/54 17:56 08:53-09:03/10	07:06 13:32-15:30/118 07:29-07:36/7 18:45 09:25-09:50/25	06:57 14:19-16:32/133 20:37	05:59 06:43-06:56/13 21:25 15:43-16:00/17	05:30 06:15-06:42/27 22:01
14	08:44 09:26-09:43/17 17:05	08:02 09:17-10:13/56 17:58	07:04 13:31-15:31/120 07:26-07:36/10 18:47 09:29-09:45/16	06:55 14:20-16:31/131 20:38	05:58 06:44-06:53/9 21:27	05:30 06:16-06:42/26 22:01
15	08:44 09:25-09:44/19 17:06	08:00 09:16-10:13/57 18:00	07:01 13:30-15:31/121 18:49 07:24-07:36/12	06:52 07:15-07:17/2 20:40 14:21-16:31/130	05:56 06:47-06:51/4 21:28	05:30 06:16-06:42/26 22:02
16	08:43 09:24-09:46/22 17:08	07:58 09:16-10:14/58 18:02	06:59 13:29-15:32/123 18:50 07:22-07:36/14	06:50 07:13-07:16/3 20:42 14:23-16:31/128	05:55 21:30	05:29 06:16-06:43/27 22:02
17	08:42 09:23-09:47/24 17:09	07:56 09:15-10:14/59 18:03	06:57 13:27-15:32/125 18:52 07:22-07:35/13	06:48 07:11-07:15/4 20:43 14:24-16:30/126	05:53 21:31	05:29 06:17-06:43/26 22:03
18	08:41 09:23-09:48/25 17:11	07:54 09:15-10:15/60 18:05	06:55 13:26-15:33/127 18:54 07:22-07:33/11	06:46 14:26-16:30/124 20:45	05:52 06:24-06:27/3 21:32	05:29 06:17-06:43/26 22:03
19	08:40 09:22-09:50/28 17:12	07:53 09:14-10:15/61 18:07	06:53 13:25-15:34/129 18:55 07:23-07:32/9	06:44 14:28-16:29/121 20:47	05:51 06:21-06:31/10 21:34	05:29 06:17-06:43/26 22:04
20	08:39 09:22-09:51/29 17:14	07:51 09:14-10:15/61 18:09	06:50 13:25-15:34/129 18:57	06:42 14:30-16:29/119 20:48	05:49 06:19-06:33/14 21:35	05:30 06:17-06:43/26 22:04
21	08:38 09:21-09:51/30 17:16	07:49 14:21-14:48/27 18:11 09:13-10:15/62	06:48 13:23-15:34/131 18:59	06:40 14:32-16:28/116 20:50	05:48 06:17-06:33/16 21:37	05:30 06:17-06:43/26 22:04
22	08:37 09:21-09:52/31 17:17	07:47 14:15-14:53/38 18:12 09:13-10:15/62	06:46 13:22-15:34/132 19:00	06:38 14:34-16:27/113 20:51	05:47 06:16-06:35/19 21:38	05:30 06:18-06:44/26 22:04
23	08:36 09:21-09:53/32 17:19	07:45 14:11-14:58/47 18:14 09:13-10:15/62	06:43 13:22-15:35/133 19:02	06:36 14:37-16:27/110 20:53	05:46 06:16-06:36/20 21:39	05:30 06:18-06:44/26 22:05
24	08:35 09:20-09:53/33 17:21	07:42 14:07-15:02/55 18:16 09:13-10:15/62	06:41 13:20-15:34/134 19:04	06:34 14:39-16:26/107 20:55	05:44 06:15-06:36/21 21:41	05:30 06:18-06:44/26 22:05
25	08:33 09:20-09:54/34 17:22	07:40 14:04-15:05/61 18:18 09:13-10:15/62	06:39 13:20-15:35/135 19:05	06:32 14:42-16:25/103 20:56	05:43 06:15-06:37/22 21:42	05:31 06:19-06:45/26 22:05
26	08:32 09:21-09:55/34 17:24	07:38 14:01-15:08/67 08:02-08:04/2 18:19 09:13-10:15/62	06:37 13:19-15:35/136 19:07	06:30 14:45-16:24/99 20:58	05:42 06:14-06:37/23 21:43	05:31 06:19-06:45/26 22:05
27	08:31 09:20-09:55/35 17:26	07:36 13:57-15:10/73 08:00-08:07/7 18:21 09:12-10:13/61	06:34 06:57-07:01/4 19:09 13:19-15:36/137	06:28 14:48-16:23/95 21:00	05:41 06:14-06:38/24 21:45	05:32 06:18-06:44/26 22:05
28	08:30 09:21-09:56/35 17:28	07:34 13:55-15:13/78 07:57-08:07/10 18:23 09:13-10:13/60	06:32 06:55-07:02/7 19:10 13:18-15:35/137	06:26 14:51-16:22/91 21:01	05:40 06:13-06:38/25 21:46	05:32 06:19-06:45/26 22:05
29	08:28 09:20-09:55/35 17:29 08:54-09:02/8		07:30 07:52-08:01/9 20:12 14:18-16:35/137	06:24 06:48-06:56/8 21:03 14:55-16:22/87	05:39 06:14-06:39/25 21:47	05:33 06:20-06:46/26 22:05
30	08:27 09:21-09:56/35 17:31 08:53-09:04/11		07:28 07:50-08:01/11 20:14 14:17-16:35/138	06:22 06:46-06:57/11 21:05 14:58-16:21/83	05:38 06:14-06:40/26 21:48	05:33 06:19-06:46/27 22:04
31	08:25 09:21-09:56/35 17:33 08:51-09:05/14		07:25 07:48-08:01/13 20:15 14:17-16:36/139		05:37 06:14-06:40/26 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	594	2165	4583	3744	1189	791

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:20-06:46/26 22:04	06:09 06:52-07:07/15 21:33 15:46-16:15/29	06:57 14:17-16:32/135 20:33	07:44 14:12-16:09/117 08:09-08:15/6 19:25 10:03-10:32/29	07:36 08:51-09:39/48 17:21 08:19-08:38/19	08:26 09:13-09:17/4 16:42
2	05:34 06:19-06:46/27 22:04	06:10 06:51-07:08/17 21:32 15:42-16:17/35	06:59 14:15-16:31/136 20:31	07:46 14:13-16:08/115 08:11-08:13/2 19:23 10:01-10:35/34	07:38 08:52-09:38/46 17:19 08:18-08:39/21	08:27 16:41
3	05:35 06:20-06:46/26 22:03	06:12 06:50-07:09/19 21:30 15:39-16:19/40	07:00 14:15-16:32/137 20:29	07:48 14:14-16:06/112 19:21 09:58-10:36/38	07:40 08:53-09:36/43 17:17 08:17-08:38/21	08:29 16:41
4	05:36 06:20-06:47/27 22:03	06:13 06:49-07:09/20 21:29 15:35-16:21/46	07:02 14:13-16:31/138 20:27	07:49 14:15-16:05/110 19:19 09:56-10:38/42	07:42 08:54-09:34/40 17:16 08:17-08:39/22	08:30 16:40
5	05:37 06:20-06:46/26 22:03	06:15 06:50-07:09/19 21:27 15:32-16:22/50	07:03 14:13-16:31/138 20:24	07:51 14:16-16:03/107 08:32-08:39/7 19:16 09:55-10:40/45 08:23-08:27/4	07:43 08:54-09:33/39 17:14 08:17-08:39/22	08:31 16:40
6	05:37 06:20-06:47/27 22:02	06:16 06:49-07:09/20 21:25 15:28-16:23/55	07:05 14:12-16:30/138 20:22	07:52 14:17-16:01/104 08:29-08:41/12 19:14 09:53-10:41/48 08:20-08:28/8	07:45 08:53-09:31/38 17:12 08:18-08:39/21	08:33 16:39
7	05:38 06:20-06:47/27 22:02	06:18 06:50-07:10/20 21:23 15:25-16:25/60	07:06 14:11-16:30/139 20:20	07:54 14:18-16:00/102 08:19-08:42/23 19:12 09:52-10:42/50	07:47 08:53-09:29/36 17:11 08:18-08:39/21	08:34 16:39
8	05:39 06:21-06:47/26 22:01	06:20 06:49-07:09/20 21:22 15:21-16:25/64	07:08 07:40-07:44/4 20:18 14:10-16:29/139	07:56 14:20-15:58/98 08:21-08:43/22 19:10 09:51-10:44/53	07:49 08:53-09:27/34 17:09 08:19-08:39/20	08:35 16:39
9	05:40 06:21-06:48/27 22:00	06:21 06:50-07:09/19 21:20 15:18-16:26/68	07:10 07:38-07:51/13 20:15 14:10-16:29/139	07:57 14:20-15:56/96 08:22-08:43/21 19:08 09:49-10:44/55	07:50 08:52-09:27/35 17:07 08:19-08:38/19	08:36 16:38
10	05:41 06:21-06:48/27 22:00	06:23 06:50-07:08/18 21:18 15:15-16:27/72	07:11 07:36-07:52/16 20:13 14:09-16:28/139	07:59 14:22-15:54/92 08:24-08:43/19 19:05 09:48-10:45/57	07:52 08:52-09:27/35 17:06 08:21-08:38/17	08:37 16:38
11	05:42 06:22-06:48/26 21:59	06:24 06:51-07:07/16 21:16 15:11-16:27/76	07:13 07:38-07:53/15 20:11 14:09-16:28/139	08:01 14:24-15:52/88 08:26-08:43/17 19:03 09:48-10:46/58	07:54 08:53-09:28/35 17:04 08:23-08:37/14	08:38 16:38
12	05:43 06:22-06:48/26 21:58	06:26 06:53-07:06/13 21:14 15:08-16:29/81	07:14 07:39-07:52/13 20:09 14:08-16:27/139	08:02 14:25-15:49/84 08:28-08:42/14 19:01 09:46-10:45/59	07:56 08:52-09:27/35 17:03 08:24-08:35/11	08:39 16:38
13	05:44 06:22-06:48/26 21:57	06:27 06:54-07:04/10 21:12 15:04-16:29/85	07:16 07:41-07:53/12 20:06 14:09-16:27/138	08:04 14:27-15:47/80 08:29-08:41/12 18:59 09:46-10:46/60	07:57 08:52-09:27/35 17:01 08:26-08:33/7	08:40 16:38
14	05:45 06:22-06:48/26 21:56	06:29 06:56-07:03/7 21:11 15:01-16:30/89	07:17 07:42-07:52/10 20:04 14:08-16:26/138	08:06 14:29-15:45/76 08:31-08:40/9 18:57 09:46-10:46/60	07:59 08:53-09:28/35 17:00	08:41 16:38
15	05:46 06:23-06:48/25 21:55	06:30 14:57-16:30/93 21:09	07:19 07:44-07:51/7 20:02 14:08-16:25/137	08:07 14:32-15:42/70 08:33-08:38/5 18:55 09:46-10:47/61	08:01 08:53-09:28/35 16:59	08:42 16:38
16	05:48 06:23-06:48/25 21:54	06:32 14:55-16:31/96 21:07	07:21 07:45-07:49/4 19:59 14:07-16:24/137	08:09 14:33-15:39/66 18:52 09:44-10:46/62	08:02 08:54-09:28/34 16:57	08:43 16:38
17	05:49 06:23-06:47/24 21:53	06:33 14:51-16:31/100 21:05	07:22 14:08-16:24/136 19:57	08:11 14:36-15:35/59 18:50 09:44-10:46/62	08:04 08:54-09:28/34 16:56	08:44 16:38
18	05:50 06:24-06:47/23 21:52	06:35 14:48-16:32/104 21:03	07:24 14:07-16:22/135 19:55	08:12 14:40-15:32/52 18:48 09:44-10:47/63	08:06 08:54-09:27/33 16:55	08:44 16:39
19	05:51 06:24-06:46/22 21:51	06:37 14:44-16:32/108 21:01	07:25 14:08-16:22/134 19:53	08:14 14:43-15:28/45 18:46 09:45-10:47/62	08:07 08:55-09:27/32 16:53	08:45 16:39
20	05:52 06:26-06:46/20 21:50	06:38 14:42-16:32/110 20:59	07:27 14:08-16:22/134 19:50	08:16 14:47-15:22/35 18:44 09:45-10:47/62	08:09 08:56-09:27/31 16:52	08:46 16:39
21	05:54 06:27-06:46/19 21:49	06:40 14:39-16:32/113 20:57	07:28 14:08-16:20/132 19:48	08:17 14:54-15:16/22 18:42 09:44-10:46/62	08:11 08:57-09:27/30 16:51	08:46 16:40
22	05:55 06:27-06:45/18 21:48	06:41 14:36-16:33/117 20:55	07:30 14:08-16:20/132 19:46	08:19 09:44-10:45/61 18:40	08:12 08:58-09:27/29 16:50	08:47 16:40
23	05:56 06:28-06:43/15 21:46	06:43 14:33-16:32/119 20:52	07:32 14:08-16:18/130 19:43	08:21 09:45-10:45/60 18:38	08:14 08:58-09:26/28 16:49	08:47 16:41
24	05:58 06:30-06:43/13 21:45	06:44 14:31-16:33/122 20:50	07:33 14:09-16:17/128 19:41 08:08-08:14/6	08:23 09:45-10:45/60 18:36	08:15 09:00-09:26/26 16:48	08:48 16:41
25	05:59 06:32-06:40/8 21:44	06:46 07:14-07:15/1 20:48 14:28-16:32/124	07:35 14:09-16:16/127 19:39 08:05-08:16/11	07:24 08:46-09:45/59 17:34	08:17 09:01-09:25/24 16:47	08:48 16:42
26	06:00 21:42	06:48 07:14-07:18/4 20:46 14:27-16:33/126	07:36 14:09-16:15/126 19:37 08:04-08:17/13	07:26 08:45-09:43/58 17:32	08:19 09:02-09:24/22 16:46	08:49 16:43
27	06:02 21:41	06:49 07:15-07:18/3 20:44 14:24-16:32/128	07:38 14:10-16:14/124 19:34 08:03-08:18/15	07:28 08:46-09:43/57 17:30	08:20 09:04-09:24/20 16:45	08:49 16:43
28	06:03 21:40	06:51 07:17-07:19/2 20:42 14:23-16:33/130	07:40 14:10-16:12/122 19:32 08:04-08:17/13	07:29 08:47-09:42/55 17:28 08:25-08:30/5	08:22 09:06-09:23/17 16:44	08:49 16:44
29	06:05 06:56-07:03/7 21:38	06:52 14:21-16:32/131 20:40	07:41 14:11-16:12/121 08:06-08:17/11 19:30 10:12-10:24/12	07:31 08:48-09:41/53 17:26 08:22-08:34/12	08:23 09:07-09:21/14 16:43	08:49 16:45
30	06:06 06:53-07:05/12 21:37 15:58-16:06/8	06:54 14:20-16:33/133 20:38	07:43 14:11-16:10/119 08:08-08:16/8 19:28 10:06-10:28/22	07:33 08:49-09:41/52 17:25 08:21-08:35/14	08:24 09:10-09:20/10 16:43	08:49 16:46
31	06:08 06:53-07:06/13 21:35 15:51-16:12/21	06:55 14:18-16:32/134 20:35	 	07:35 08:50-09:40/50 17:23 08:20-08:37/17	 	08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	643	3081	4211	3646	1188	4

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 18:25	07:23 19:46-19:51/5 20:17	06:20 21:06	05:36 21:15-21:19/4 21:51 21:06-21:13/7
2	08:50 16:49	08:23 17:36	07:30 17:59-18:01/2 18:27	07:21 19:46-19:53/7 20:19	06:18 21:08	05:36 21:16-21:20/4 21:52 21:08-21:13/5
3	08:50 16:50	08:21 17:38	07:28 17:54-18:03/9 18:28	07:19 19:46-19:55/9 20:20	06:16 21:10	05:35 21:16-21:21/5 21:53
4	08:49 16:51	08:20 17:40	07:26 17:52-18:05/13 18:30	07:17 19:48-19:57/9 20:22	06:15 21:11	05:34 21:16-21:21/5 21:54
5	08:49 16:53	08:18 17:42	07:24 17:49-18:06/17 18:32	07:14 19:50-19:58/8 20:24	06:13 21:13	05:34 21:17-21:23/6 21:55
6	08:49 16:54	08:16 17:44	07:22 17:48-18:08/20 18:33	07:12 19:52-19:59/7 20:25	06:11 21:14	05:33 21:17-21:23/6 21:56
7	08:48 16:55	08:15 17:45	07:19 17:48-18:10/22 18:35	07:10 19:51-20:01/10 20:27	06:09 21:16	05:32 21:18-21:24/6 21:57
8	08:48 16:56	08:13 17:47	07:17 17:47-18:12/25 18:37	07:08 19:52-20:03/11 20:29	06:08 21:18	05:32 21:18-21:25/7 21:57
9	08:48 16:58	08:11 17:49	07:15 17:47-18:12/25 18:39	07:06 19:52-20:05/13 20:30	06:06 21:19	05:31 21:18-21:26/8 21:58
10	08:47 16:59	08:09 17:51	07:13 17:46-18:12/26 18:40	07:03 19:53-20:06/13 20:32	06:04 21:21	05:31 21:18-21:27/9 21:59
11	08:47 17:00	08:08 17:53	07:11 17:46-18:12/26 18:42	07:01 19:53-20:03/10 20:34	06:03 21:22	05:31 21:18-21:28/10 22:00
12	08:46 17:02	08:06 17:55	07:08 17:46-18:11/25 18:44	06:59 19:55-20:01/6 20:35	06:01 21:24	05:30 21:17-21:27/10 22:00
13	08:45 17:03	08:04 17:56	07:06 17:46-18:11/25 18:45	06:57 20:37	05:59 21:25	05:30 21:17-21:28/11 22:01
14	08:45 17:05	08:02 17:58	07:04 17:46-18:09/23 18:47	06:55 20:39	05:58 21:27	05:30 21:18-21:29/11 22:02
15	08:44 17:06	08:00 18:00	07:02 17:47-18:08/21 18:49	06:53 20:40	05:56 21:28	05:30 21:18-21:29/11 22:02
16	08:43 17:08	07:58 18:02	06:59 17:49-18:07/18 18:50	06:50 20:42	05:55 21:30	05:30 21:18-21:30/12 22:03
17	08:42 17:09	07:57 18:04	06:57 17:50-18:04/14 18:52	06:48 20:43	05:54 21:31	05:29 21:18-21:30/12 22:03
18	08:41 17:11	07:55 18:05	06:55 17:53-18:01/8 18:54	06:46 20:45	05:52 21:02-21:03/1 21:33	05:29 21:18-21:31/13 22:04
19	08:40 17:12	07:53 18:07	06:53 18:29-18:31/2 18:56	06:44 20:47	05:51 21:02-21:04/2 21:34	05:30 21:18-21:31/13 22:04
20	08:39 17:14	07:51 18:09	06:50 18:29-18:32/3 18:57	06:42 20:48	05:49 21:02-21:06/4 21:36	05:30 21:18-21:31/13 22:04
21	08:38 17:16	07:49 18:11	06:48 18:27-18:33/6 18:59	06:40 20:50	05:48 21:01-21:06/5 21:37	05:30 21:18-21:31/13 22:04
22	08:37 17:17	07:47 18:12	06:46 18:27-18:35/8 19:01	06:38 20:52	05:47 21:01-21:07/6 21:38	05:30 21:19-21:32/13 22:05
23	08:36 17:19	07:45 18:14	06:44 18:28-18:37/9 19:02	06:36 20:53	05:46 21:01-21:09/8 21:40	05:30 21:19-21:32/13 22:05
24	08:35 17:21	07:43 18:16	06:41 18:28-18:38/10 19:04	06:34 20:55	05:44 21:01-21:10/9 21:41	05:30 21:19-21:32/13 22:05
25	08:34 17:22	07:41 18:18	06:39 18:30-18:36/6 19:06	06:32 20:57	05:43 21:01-21:11/10 21:42	05:31 21:20-21:33/13 22:05
26	08:32 17:24	07:39 18:20	06:37 19:07	06:30 20:58	05:42 21:02-21:12/10 21:44	05:31 21:20-21:32/12 22:05
27	08:31 17:26	07:36 18:21	06:35 19:09	06:28 21:00	05:41 21:02-21:13/11 21:45	05:32 21:20-21:32/12 22:05
28	08:30 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:02-21:14/12 21:46	05:32 21:21-21:32/11 22:05
29	08:28 17:29		07:30 20:12	06:24 21:03	05:39 21:04-21:16/12 21:47	05:33 21:21-21:32/11 22:05
30	08:27 17:31		07:28 19:47-19:49/2 20:14	06:22 21:05	05:38 21:16-21:17/1 21:48 21:04-21:15/11	05:33 21:21-21:32/11 22:05
31	08:26 17:33		07:26 19:47-19:50/3 20:15		05:37 21:15-21:18/3 21:50 21:05-21:14/9	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	0	0	368	108	114	310

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 21:22-21:32/10	06:09	06:57 19:53-20:03/10	07:45 18:25-18:50/25	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 21:22-21:31/9	06:11	06:59 19:51-20:03/12	07:46 18:25-18:50/25	07:38	08:28
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 21:23-21:31/8	06:12	07:00 19:50-20:03/13	07:48 18:23-18:49/26	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 21:24-21:31/7	06:14	07:02 19:49-20:00/11	07:49 18:24-18:49/25	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 21:23-21:30/7	06:15	07:03 19:49-19:58/9	07:51 18:24-18:49/25	07:44	08:32
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 21:23-21:30/7	06:17	07:05 19:48-19:55/7	07:53 18:23-18:47/24	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 21:23-21:29/6	06:18	07:07 19:46-19:54/8	07:54 18:24-18:45/21	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 21:23-21:29/6	06:20	07:08 19:42-19:51/9	07:56 18:25-18:43/18	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 21:24-21:29/5	06:21	07:10 19:41-19:49/8	07:58 18:25-18:40/15	07:51	08:36
	22:01	21:20	20:16	19:08	17:07	16:39
10	05:41 21:24-21:28/4	06:23	07:11 19:39-19:46/7	07:59 18:27-18:38/11	07:52	08:37
	22:00 21:16-21:20/4	21:18	20:13	19:05	17:06	16:38
11	05:42 21:24-21:27/3	06:24	07:13 19:39-19:45/6	08:01 18:30-18:36/6	07:54	08:39
	21:59 21:15-21:21/6	21:16	20:11	19:03	17:04	16:38
12	05:43 21:24-21:27/3	06:26	07:14 19:38-19:42/4	08:02	07:56	08:40
	21:58 21:14-21:22/8	21:15	20:09	19:01	17:03	16:38
13	05:44 21:24-21:26/2	06:27	07:16 19:39-19:40/1	08:04	07:57	08:41
	21:57 21:13-21:23/10	21:13	20:06	18:59	17:01	16:38
14	05:45 21:13-21:25/12	06:29	07:18	08:06	07:59	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 21:12-21:24/12	06:30	07:19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 21:12-21:23/11	06:32	07:21	08:09	08:03	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 21:11-21:22/11	06:34	07:22	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 21:11-21:21/10	06:35	07:24 19:18-19:23/5	08:13	08:06	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 21:11-21:20/9	06:37	07:25 19:16-19:26/10	08:14	08:08	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 21:10-21:19/9	06:38	07:27 19:15-19:24/9	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:11-21:19/8	06:40	07:29 19:13-19:21/8	08:18	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 21:11-21:17/6	06:41	07:30 19:13-19:20/7	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 21:11-21:16/5	06:43	07:32 19:12-19:17/5	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 21:11-21:14/3	06:45	07:33 19:13-19:15/2	08:23	08:16	08:48
	21:45	20:51	19:41	18:36	16:48	16:41
25	05:59 21:12-21:14/2	06:46	07:35 18:38-18:41/3	07:24	08:17	08:49
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:33-18:46/13	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:31-18:48/17	07:28	08:20	08:49
	21:41	20:44	19:35	17:30	16:45	16:43
28	06:03	06:51	07:40 18:29-18:48/19	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 18:27-18:50/23	07:31	08:23	08:50
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 18:26-18:49/23	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:55-20:01/6		07:35		08:50
	21:35	20:36		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	203	6	249	221	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 16:59-17:05/6 17:35	07:32 17:57-17:59/2 18:25	07:23 20:17	06:20 20:36-20:38/2 21:06	05:36 21:51
2	08:50 16:49	08:23 16:58-17:07/9 17:36	07:30 17:57-18:01/4 18:27	07:21 20:19	06:18 20:35-20:40/5 21:08	05:36 21:52
3	08:50 16:50	08:21 16:57-17:09/12 17:38	07:28 17:57-18:03/6 18:28	07:19 20:20	06:16 20:35-20:41/6 21:10	05:35 21:53
4	08:49 16:51	08:20 16:57-17:11/14 17:40	07:26 17:58-18:05/7 18:30	07:17 20:22	06:15 20:36-20:43/7 21:11	05:34 21:54
5	08:49 16:53	08:18 16:56-17:13/17 17:42	07:24 17:58-18:06/8 18:32	07:14 20:24	06:13 20:37-20:44/7 21:13	05:34 21:55
6	08:49 16:54	08:16 16:56-17:15/19 17:44	07:22 18:00-18:05/5 18:33	07:12 20:25	06:11 20:38-20:44/6 21:14	05:33 21:56
7	08:48 16:55	08:15 16:56-17:16/20 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:57
8	08:48 16:56	08:13 16:57-17:18/21 17:47	07:17 18:37	07:08 20:29	06:08 21:18	05:32 21:57
9	08:48 16:58	08:11 16:57-17:17/20 17:49	07:15 18:39	07:06 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 16:57-17:17/20 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 21:59
11	08:47 17:00	08:08 16:58-17:16/18 17:53	07:11 18:42	07:01 20:34	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 16:59-17:15/16 17:55	07:08 18:16-18:19/3 18:44	06:59 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 17:01-17:13/12 17:56	07:06 18:15-18:20/5 18:45	06:57 20:37	06:00 21:25	05:30 22:01
14	08:45 17:05	08:02 17:03-17:11/8 17:58	07:04 18:16-18:22/6 18:47	06:55 20:39	05:58 21:27	05:30 22:02
15	08:44 17:06	08:00 18:00	07:02 18:16-18:24/8 18:49	06:53 20:09-20:14/5 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 18:02	06:59 18:16-18:26/10 18:50	06:50 20:07-20:15/8 20:42	05:55 21:30	05:30 22:03
17	08:42 17:09	07:57 18:04	06:57 18:16-18:27/11 18:52	06:48 20:06-20:17/11 20:43	05:54 21:31	05:30 22:03
18	08:41 17:11	07:55 18:05	06:55 18:17-18:28/11 18:54	06:46 20:04-20:19/15 20:45	05:52 21:33	05:30 22:04
19	08:40 17:12	07:53 18:07	06:53 18:19-18:26/7 18:56	06:44 20:04-20:20/16 20:47	05:51 21:34	05:30 22:04
20	08:39 17:14	07:51 18:09	06:50 18:57	06:42 20:03-20:22/19 20:48	05:49 21:35	05:30 22:04
21	08:38 17:16	07:49 18:11	06:48 18:59	06:40 20:02-20:23/21 20:50	05:48 21:37	05:30 22:04
22	08:37 17:17	07:47 18:12	06:46 19:01	06:38 20:02-20:25/23 20:52	05:47 21:38	05:30 22:05
23	08:36 17:19	07:45 18:14	06:44 19:02	06:36 20:02-20:26/24 20:53	05:46 21:40	05:30 22:05
24	08:35 17:21	07:43 18:16	06:41 19:04	06:34 20:02-20:28/26 20:55	05:44 21:41	05:30 22:05
25	08:34 17:22	07:41 18:18	06:39 19:06	06:32 20:02-20:29/27 20:57	05:43 21:42	05:31 22:05
26	08:32 17:24	07:39 18:20	06:37 19:07	06:30 20:02-20:27/25 20:58	05:42 21:44	05:31 22:05
27	08:31 17:26	07:36 18:21	06:35 19:09	06:28 20:03-20:24/21 21:00	05:41 21:45	05:32 22:05
28	08:30 17:28	07:34 18:23	06:32 19:10	06:26 20:04-20:20/16 21:01	05:40 21:46	05:32 22:05
29	08:28 17:29		07:30 20:12	06:24 20:06-20:20/14 21:03	05:39 21:47	05:33 22:05
30	08:27 17:31		07:28 20:14	06:22 20:36-20:37/1 21:05 20:08-20:17/9	05:38 21:48	05:33 22:05
31	08:26 16:59-17:03/4 17:33		07:26 20:15		05:37 21:50	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	4	212	93	281	33	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December
1	05:34	06:09		06:57		07:45	18:55-18:58/3	07:37	16:27-16:47/20	08:26
	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59		07:46	18:55-18:56/1	07:38	16:27-16:47/20	08:28
	22:04	21:32		20:31		19:23		17:19		16:42
3	05:35	06:12		07:00		07:48		07:40	16:26-16:47/21	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02		07:49		07:42	16:25-16:46/21	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03		07:51		07:44	16:26-16:44/18	08:32
	22:03	21:27		20:24		19:17		17:14		16:40
6	05:38	06:17	20:50-20:53/3	07:05		07:53		07:45	16:26-16:42/16	08:33
	22:02	21:25		20:22		19:14		17:12		16:40
7	05:38	06:18	20:48-20:55/7	07:07		07:54		07:47	16:27-16:41/14	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20	20:46-20:53/7	07:08		07:56	18:35-18:42/7	07:49	16:27-16:39/12	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21	20:45-20:51/6	07:10		07:58	18:32-18:40/8	07:51	16:28-16:38/10	08:36
	22:00	21:20		20:16		19:08		17:07		16:39
10	05:41	06:23	20:45-20:50/5	07:11		07:59	18:32-18:38/6	07:52	16:30-16:36/6	08:37
	22:00	21:18		20:13		19:05		17:06		16:38
11	05:42	06:24	20:44-20:48/4	07:13		08:01	18:31-18:36/5	07:54	16:31-16:35/4	08:38
	21:59	21:16		20:11		19:03		17:04		16:38
12	05:43	06:26	20:44-20:46/2	07:14		08:02	18:30-18:33/3	07:56		08:40
	21:58	21:15	20:19-20:22/3	20:09		19:01		17:03		16:38
13	05:44	06:27	20:15-20:25/10	07:16		08:04		07:57		08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29	20:13-20:28/15	07:18		08:06		07:59		08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30	20:11-20:28/17	07:19		08:07		08:01		08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32	20:10-20:32/22	07:21		08:09		08:03		08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34	20:09-20:34/25	07:22		08:11		08:04		08:44
	21:54	21:05		19:57		18:50		16:56		16:39
18	05:50	06:35	20:09-20:35/26	07:24		08:13		08:06		08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37	20:07-20:33/26	07:25		08:14		08:08		08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:53	06:38	20:08-20:32/24	07:27		08:16		08:09		08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40	20:07-20:29/22	07:29		08:18		08:11		08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41	20:07-20:28/21	07:30		08:19		08:12		08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43	20:07-20:25/18	07:32		08:21		08:14		08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45	20:07-20:24/17	07:33	19:04-19:08/4	08:23		08:16		08:48
	21:45	20:51		19:41		18:36		16:48		16:41
25	05:59	06:46	20:07-20:21/14	07:35	19:00-19:10/10	07:24		08:17		08:49
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:01	06:48	20:09-20:20/11	07:37	18:59-19:10/11	07:26		08:19		08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49	20:09-20:17/8	07:38	18:58-19:08/10	07:28		08:20		08:49
	21:41	20:44		19:35		17:30		16:45		16:43
28	06:03	06:51	20:11-20:15/4	07:40	18:57-19:05/8	07:30	16:32-16:41/9	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52		07:41	18:57-19:03/6	07:31	16:30-16:43/13	08:23		08:50
	21:38	20:40		19:30		17:27		16:44		16:45
30	06:06	06:54		07:43	18:55-19:00/5	07:33	16:28-16:45/17	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56				07:35	16:28-16:46/18			08:50
	21:35	20:36				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	317		54		90		162		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:24-06:41/17	05:34 06:37-06:41/4	06:09	06:57 07:26-07:29/3	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04 06:04-06:10/6	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35 06:25-06:41/16	05:34 06:35-06:41/6	06:10	06:59 07:24-07:30/6	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04 06:04-06:09/5	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:25-06:40/15	05:35 06:35-06:43/8	06:12	07:00 07:26-07:31/5	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04 06:05-06:09/4	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:25-06:40/15	05:36 06:35-06:44/9	06:13	07:02 07:27-07:31/4	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03 06:06-06:09/3	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:27-06:40/13	05:36 06:33-06:44/11	06:15	07:03 07:29-07:30/1	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03 06:06-06:07/1	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:27-06:39/12	05:37 06:33-06:45/12	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:33/1	06:09	05:32 06:28-06:39/11	05:38 06:33-06:46/13	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08 07:30-07:34/4	06:07	05:32 06:28-06:38/10	05:39 06:33-06:47/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57 06:00-06:02/2	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05 07:28-07:33/5	06:06	05:31 06:29-06:38/9	05:40 06:33-06:48/15	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58 06:00-06:03/3	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03 07:26-07:32/6	06:04	05:31 06:31-06:37/6	05:41 06:33-06:48/15	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59 06:00-06:04/4	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01 07:27-07:30/3	06:02	05:30 06:31-06:36/5	05:42 06:32-06:49/17	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00 05:59-06:04/5	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:33-06:35/2	05:43 06:32-06:49/17	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00 05:59-06:05/6	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:06/7	05:44 06:32-06:50/18	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:29-06:34/5	05:30 05:59-06:06/7	05:45 06:32-06:50/18	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:27-06:37/10	05:29 05:59-06:07/8	05:46 06:32-06:51/19	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:26-06:38/12	05:29 05:59-06:07/8	05:47 06:32-06:51/19	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:24-06:39/15	05:29 05:59-06:07/8	05:49 06:31-06:51/20	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52 06:24-06:40/16	05:29 05:59-06:07/8	05:50 06:31-06:51/20	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51 06:23-06:40/17	05:29 05:59-06:08/9	05:51 06:31-06:51/20	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49 06:23-06:41/18	05:29 05:59-06:08/9	05:52 06:31-06:51/20	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48 06:22-06:41/19	05:30 05:59-06:08/9	05:54 06:32-06:52/20	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47 06:22-06:41/19	05:30 06:00-06:09/9	05:55 06:32-06:51/19	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45 06:22-06:41/19	05:30 06:00-06:09/9	05:56 06:32-06:51/19	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44 06:22-06:42/20	05:30 06:00-06:09/9	05:58 06:33-06:50/17	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43 06:22-06:42/20	05:31 06:01-06:09/8	05:59 06:34-06:51/17	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42 06:22-06:42/20	05:31 06:01-06:09/8	06:00 06:34-06:50/16	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41 06:22-06:42/20	05:31 06:01-06:09/8	06:02 06:35-06:49/14	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:22-06:41/19	05:32 06:02-06:09/7	06:03 06:37-06:48/11	06:51	07:40	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:22-06:41/19	05:32 06:02-06:09/7	06:05 06:38-06:46/8	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:23-06:42/19	05:33 06:03-06:09/6	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:24-06:41/17		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	19	304	295	455	0	19	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34 06:25-06:37/12	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35	05:34 06:26-06:36/10	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35 06:27-06:36/9	06:12	07:00 07:31-07:38/7	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16 07:39-07:42/3	06:14	05:34	05:36 06:29-06:35/6	06:13	07:02 07:29-07:38/9	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14 07:37-07:43/6	06:13	05:33	05:36	06:15	07:03 07:29-07:39/10	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12 07:34-07:42/8	06:11	05:33	05:37	06:16	07:05 07:30-07:38/8	07:52	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:42/10	06:09	05:32	05:38	06:18	07:06 07:32-07:38/6	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08 07:32-07:41/9	06:07	05:32 06:24-06:27/3	05:39	06:19	07:08 07:33-07:37/4	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05 07:33-07:40/7	06:06	05:31 06:22-06:30/8	05:40	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:22-06:31/9	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:20-06:32/12	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:20-06:33/13	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:20-06:34/14	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 06:20-06:34/14	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 06:20-06:35/15	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 06:20-06:36/16	05:47	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 06:20-06:36/16	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29 06:20-06:36/16	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29 06:20-06:37/17	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 06:20-06:37/17	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30 06:20-06:37/17	05:54	06:40	07:28	08:17	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:21-06:38/17	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:21-06:38/17	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30 06:21-06:38/17	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31 06:21-06:37/16	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:22-06:38/16	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31 06:22-06:37/15	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32 06:23-06:38/15	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32 06:23-06:37/14	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33 06:24-06:37/13	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	43	0	327	37	0	44	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 18:54-19:56/62	05:34 18:58-20:06/68	06:09	06:57	07:44	07:37	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:23	07:30	07:21	06:18	05:36 18:55-19:57/62	05:34 18:58-20:05/67	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 18:54-19:57/63	05:35 18:59-20:06/67	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:15	05:34 18:54-19:58/64	05:36 18:59-20:06/67	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 18:54-19:59/65	05:37 18:59-20:05/66	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 18:54-19:59/65	05:37 19:00-20:05/65	06:16	07:05	07:53	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:15	07:19	07:10	06:09	05:32 18:54-20:00/66	05:38 19:00-20:05/65	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48	08:13	07:17	07:08	06:08	05:32 18:53-20:00/67	05:39 19:01-20:05/64	06:20	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 18:54-20:00/66	05:40 19:02-20:05/63	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 18:54-20:01/67	05:41 19:02-20:05/63	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:03	05:30 18:53-20:01/68	05:42 19:03-20:04/61	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 18:54-20:01/67	05:43 19:03-20:04/61	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 18:54-20:02/68	05:44 19:04-20:04/60	06:27	07:16 08:13-08:17/4	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58 19:16-19:30/14	05:30 18:54-20:02/68	05:45 19:04-20:03/59	06:29	07:17 08:09-08:20/11	08:06	07:59	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:52	05:56 19:12-19:35/23	05:30 18:54-20:03/69	05:46 19:05-20:02/57	06:30	07:19 08:07-08:22/15	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 19:10-19:38/28	05:29 18:54-20:03/69	05:47 19:06-20:02/56	06:32	07:21 08:05-08:22/17	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 19:07-19:39/32	05:29 18:55-20:03/68	05:49 19:06-20:01/55	06:33	07:22 08:04-08:23/19	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55 07:24-07:32/8	06:46	05:52 19:05-19:41/36	05:29 18:55-20:04/69	05:50 19:07-20:00/53	06:35	07:24 08:03-08:23/20	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53 07:21-07:35/14	06:44	05:51 19:04-19:43/39	05:29 18:55-20:04/69	05:51 19:08-19:59/51	06:37	07:25 08:03-08:23/20	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50 07:20-07:36/16	06:42	05:49 19:03-19:45/42	05:29 18:55-20:04/69	05:52 19:08-19:58/50	06:38	07:27 08:03-08:23/20	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48 07:18-07:36/18	06:40	05:48 19:01-19:45/44	05:30 18:55-20:04/69	05:54 19:10-19:58/48	06:40	07:28 08:02-08:22/20	08:17	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46 07:17-07:36/19	06:38	05:47 19:00-19:47/47	05:30 18:56-20:05/69	05:55 19:11-19:57/46	06:41	07:30 08:03-08:22/19	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44 07:16-07:37/21	06:36	05:45 18:59-19:48/49	05:30 18:56-20:05/69	05:56 19:12-19:55/43	06:43	07:32 08:03-08:20/17	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41 07:16-07:37/21	06:34	05:44 18:58-19:49/51	05:30 18:56-20:05/69	05:58 19:13-19:54/41	06:44	07:33 08:04-08:19/15	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:41	06:39 07:15-07:35/20	06:32	05:43 18:58-19:50/52	05:31 18:56-20:05/69	05:59 19:15-19:53/38	06:46	07:35 08:06-08:16/10	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37 07:16-07:35/19	06:30	05:42 18:57-19:51/54	05:31 18:57-20:05/68	06:00 19:16-19:51/35	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34 07:16-07:34/18	06:28	05:41 18:57-19:52/55	05:31 18:56-20:05/69	06:02 19:18-19:49/31	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32 07:16-07:32/16	06:26	05:40 18:56-19:52/56	05:32 18:57-20:06/69	06:03 19:21-19:47/26	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30 08:18-08:30/12	06:24	05:39 18:55-19:53/58	05:32 18:57-20:05/68	06:05 19:24-19:44/20	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28 08:21-08:27/6	06:22	05:38 18:56-19:55/59	05:33 18:58-20:06/68	06:06 19:28-19:38/10	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37 18:55-19:55/60		06:08	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	208	0	799	2018	1556	0	207	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32	08:20-08:33/13	07:23	19:02-19:30/28	06:20		05:36	06:04-06:06/2
	16:48	17:35	18:25		20:17		21:06		21:51	
2	08:50	08:23	07:30	08:18-08:35/17	07:21	19:02-19:31/29	06:18	20:20-20:26/6	05:36	06:04-06:07/3
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28	08:16-08:37/21	07:19	19:01-19:31/30	06:16	20:17-20:29/12	05:35	06:03-06:06/3
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26	08:14-08:39/25	07:17	19:01-19:31/30	06:15	20:16-20:31/15	05:34	06:02-06:06/4
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24	08:11-08:39/28	07:14	19:01-19:31/30	06:13	20:14-20:32/18	05:33	06:02-06:06/4
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21	08:10-08:40/30	07:12	19:01-19:30/29	06:11	20:13-20:33/20	05:33	06:01-06:05/4
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19	08:09-08:41/32	07:10	19:01-19:29/28	06:09	20:12-20:34/22	05:32	06:01-06:05/4
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	08:09-08:41/32	07:08	19:02-19:28/26	06:08	20:11-20:34/23	05:32	06:02-06:05/3
	16:56	17:47	18:37		20:29		21:17		21:57	
9	08:48	08:11	07:15	08:08-08:41/33	07:05	19:02-19:28/26	06:06	20:11-20:35/24	05:31	
	16:57	17:49	18:39		20:30		21:19		21:58	
10	08:47	08:09	07:13	08:07-08:41/34	07:03	19:03-19:26/23	06:04	20:10-20:35/25	05:31	
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:46	08:08	07:10	08:07-08:41/34	07:01	19:04-19:24/20	06:03	20:11-20:36/25	05:31	
	17:00	17:53	18:42		20:33		21:22		22:00	
12	08:46	08:06	07:08	08:07-08:40/33	06:59	19:06-19:22/16	06:01	20:10-20:36/26	05:30	
	17:02	17:54	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	08:07-08:40/33	06:57	19:08-19:20/12	05:59	20:11-20:36/25	05:30	
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	08:07-08:39/32	06:55		05:58	20:10-20:36/26	05:30	
	17:05	17:58	18:47		20:38		21:27		22:02	
15	08:44	08:00	07:02	08:07-08:38/31	06:52		05:56	20:11-20:36/25	05:30	
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	08:08-08:37/29	06:50		05:55	20:11-20:36/25	05:29	
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	08:08-08:35/27	06:48		05:53	20:11-20:35/24	05:29	
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	08:09-08:33/24	06:46		05:52	20:12-20:35/23	05:29	
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:53	08:11-08:31/20	06:44		05:51	20:12-20:35/23	05:29	
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50	08:13-08:29/16	06:42		05:49	20:13-20:34/21	05:30	
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48	08:15-08:24/9	06:40		05:48	20:13-20:33/20	05:30	
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46		06:38		05:47	20:14-20:32/18	05:30	
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:44		06:36		05:46	20:16-20:32/16	05:30	
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41		06:34		05:44	20:17-20:31/14	05:30	
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:41	06:39		06:32		05:43	20:18-20:30/12	05:31	
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37	18:15-18:22/7	06:30		05:42	20:20-20:28/8	05:31	
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34	18:11-18:25/14	06:28		05:41	20:22-20:26/4	05:32	
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32	18:08-18:26/18	06:26		05:40		05:32	
	17:28	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	19:06-19:28/22	06:24		05:39		05:33	
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	19:05-19:30/25	06:22		05:38		05:33	
	17:31		20:14		21:05		21:48		22:04	
31	08:26		07:25	19:04-19:31/27			05:37	06:05-06:06/1		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	666		327		501		27	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 20:21-20:46/25	06:57 19:04-19:24/20	07:44 08:46-09:19/33	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:10 20:20-20:45/25	06:59 19:01-19:24/23	07:46 08:46-09:19/33	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12 20:21-20:46/25	07:00 19:00-19:26/26	07:48 08:45-09:19/34	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:13 20:21-20:45/24	07:02 18:59-19:25/26	07:49 08:45-09:18/33	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:11/4	06:15 20:22-20:45/23	07:03 18:58-19:26/28	07:51 08:46-09:18/32	07:44	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:11/4	06:16 20:22-20:43/21	07:05 18:57-19:26/29	07:53 08:45-09:17/32	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:12/4	06:18 20:23-20:43/20	07:06 18:57-19:26/29	07:54 08:46-09:16/30	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20 20:24-20:41/17	07:08 18:55-19:25/30	07:56 08:47-09:15/28	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21 20:25-20:39/14	07:10 18:56-19:25/29	07:57 08:47-09:13/26	07:50	08:36
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:14/3	06:23 20:27-20:37/10	07:11 18:55-19:24/29	07:59 08:49-09:12/23	07:52	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:14/2	06:24	07:13 18:55-19:23/28	08:01 08:51-09:11/20	07:54	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:15/2	06:26	07:14 18:55-19:22/27	08:02 08:53-09:09/16	07:56	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:15/1	06:27	07:16 18:56-19:21/25	08:04 08:56-09:04/8	07:57	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 18:56-19:19/23	08:06	07:59	08:41
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 18:58-19:17/19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 18:59-19:14/15	08:09	08:02	08:43
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49 20:30-20:37/7	06:33	07:22 19:02-19:11/9	08:11	08:04	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 20:28-20:39/11	06:35	07:24	08:12	08:06	08:45
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51 20:27-20:40/13	06:37	07:25	08:14	08:07	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 20:26-20:41/15	06:38	07:27	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 20:26-20:43/17	06:40	07:28	08:18	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 20:24-20:43/19	06:41	07:30 09:03-09:07/4	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 20:23-20:44/21	06:43	07:32 08:57-09:11/14	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 20:22-20:44/22	06:44	07:33 08:55-09:14/19	08:23	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 20:23-20:45/22	06:46	07:35 08:52-09:15/23	07:24	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 20:22-20:45/23	06:48	07:36 08:51-09:17/26	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 20:21-20:46/25	06:49	07:38 08:50-09:18/28	07:28	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 20:22-20:46/24	06:51	07:40 08:48-09:18/30	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 20:21-20:46/25	06:52	07:41 08:48-09:19/31	07:31	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 20:20-20:46/26	06:54 19:09-19:21/12	07:43 08:46-09:19/33	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 20:21-20:47/26	06:55 19:05-19:22/17		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	323	233	623	348	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:51-11:38/47	08:24 11:17-11:28/11	07:32	07:23 19:39-19:49/10	06:20 19:47-20:12/25	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50 10:51-11:38/47	08:23	07:30	07:21 19:38-19:51/13	06:18 19:47-20:11/24	05:36 06:04-06:06/2
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 10:52-11:39/47	08:21	07:28	07:19 19:37-19:52/15	06:16 19:47-20:10/23	05:35 06:03-06:06/3
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49 10:52-11:39/47	08:19	07:26	07:17 19:36-19:53/17	06:15 19:49-20:10/21	05:34 06:02-06:06/4
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:52-11:40/48	08:18	07:24	07:14 19:36-19:53/17	06:13 19:50-20:09/19	05:33 06:02-06:06/4
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 10:52-11:40/48	08:16	07:21 17:59-18:02/3	07:12 19:34-19:52/18	06:11 19:50-20:07/17	05:33 06:01-06:06/5
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 10:53-11:41/48	08:15	07:19 17:56-18:06/10	07:10 19:35-19:51/16	06:09 19:53-20:06/13	05:32 06:01-06:07/6
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 10:53-11:41/48	08:13	07:17 17:54-18:08/14	07:08 19:35-19:51/16	06:08 19:54-20:04/10	05:32 06:01-06:07/6
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:48 10:54-11:42/48	08:11	07:15 17:52-18:08/16	07:05 19:36-19:50/14	06:06	05:31 06:00-06:07/7
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 10:54-11:42/48	08:09	07:13 17:51-18:09/18	07:03 19:38-19:48/10	06:04	05:31 06:00-06:07/7
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 10:54-11:42/48	08:08	07:10 17:51-18:09/18	07:01 19:39-19:44/5	06:03	05:31 06:00-06:08/8
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46 10:56-11:43/47	08:06	07:08 17:51-18:09/18	06:59	06:01	05:30 05:59-06:07/8
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 10:56-11:43/47	08:04	07:06 17:50-18:08/18	06:57	05:59	05:30 05:59-06:07/8
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 10:56-11:43/47	08:02	07:04 17:51-18:08/17	06:55	05:58	05:30 05:59-06:08/9
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44 10:57-11:43/46	08:00	07:02 17:52-18:07/15	06:52	05:56	05:30 05:59-06:08/9
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 10:57-11:43/46	07:58	06:59 17:53-18:06/13	06:50	05:55	05:29 05:59-06:08/9
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 10:58-11:44/46	07:57	06:57 17:55-18:02/7	06:48	05:53	05:29 05:59-06:08/9
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 10:58-11:44/46	07:55	06:55	06:46	05:52	05:29 05:59-06:08/9
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 10:59-11:44/45	07:53	06:53	06:44 19:56-20:06/10	05:51	05:29 05:59-06:08/9
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 11:00-11:44/44	07:51	06:50	06:42 19:53-20:09/16	05:49	05:30 05:59-06:08/9
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 11:00-11:43/43	07:49	06:48	06:40 19:52-20:10/18	05:48	05:30 05:59-06:08/9
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 11:01-11:43/42	07:47	06:46	06:38 19:50-20:11/21	05:47	05:30 06:00-06:09/9
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 11:02-11:43/41	07:45	06:44	06:36 19:49-20:12/23	05:46	05:30 06:00-06:09/9
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 11:03-11:43/40	07:43	06:41	06:34 19:48-20:13/25	05:44	05:30 06:00-06:09/9
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 11:03-11:41/38	07:41	06:39	06:32 19:47-20:13/26	05:43	05:31 06:01-06:10/9
	17:22	18:18	19:05	20:57	21:42	22:05
26	08:32 11:05-11:41/36	07:38	06:37	06:30 19:47-20:13/26	05:42	05:31 06:01-06:10/9
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 11:06-11:39/33	07:36	06:35	06:28 19:46-20:13/27	05:41	05:32 06:02-06:11/9
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 11:07-11:39/32	07:34	06:32	06:26 19:46-20:13/27	05:40	05:32 06:02-06:11/9
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 11:08-11:37/29		07:30	06:24 19:47-20:13/26	05:39	05:33 06:03-06:11/8
	17:29		20:12	21:03	21:47	22:05
30	08:27 11:11-11:35/24		07:28	06:22 19:47-20:13/26	05:38	05:33 06:03-06:11/8
	17:31		20:14	21:05	21:48	22:04
31	08:26 11:13-11:32/19		07:25 19:44-19:47/3		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1315	11	170	422	152	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:12/8 22:04	06:09 21:34	06:57 19:39-19:44/5 20:33	07:44 18:30-18:48/18 19:25	07:37 17:21	08:26 10:36-11:24/48 16:42
2	05:34 06:04-06:12/8 22:04	06:10 21:32	06:59 19:36-19:46/10 20:31	07:46 18:30-18:48/18 19:23	07:38 17:19	08:27 10:37-11:25/48 16:41
3	05:35 06:05-06:12/7 22:04	06:12 21:30	07:00 19:34-19:48/14 20:29	07:48 18:29-18:47/18 19:21	07:40 17:17	08:29 10:37-11:25/48 16:41
4	05:36 06:06-06:13/7 22:03	06:13 20:07-20:11/4 21:29	07:02 19:32-19:48/16 20:27	07:49 18:30-18:46/16 19:19	07:42 17:16	08:30 10:38-11:26/48 16:40
5	05:37 06:07-06:13/6 22:03	06:15 20:04-20:15/11 21:27	07:03 19:32-19:48/16 20:24	07:51 18:30-18:45/15 19:16	07:44 17:14	08:31 10:38-11:26/48 16:40
6	05:37 06:07-06:12/5 22:02	06:17 20:01-20:16/15 21:25	07:05 19:31-19:48/17 20:22	07:53 18:31-18:43/12 19:14	07:45 17:12	08:33 10:38-11:26/48 16:39
7	05:38 06:08-06:13/5 22:02	06:18 20:00-20:18/18 21:24	07:06 19:31-19:48/17 20:20	07:54 18:33-18:41/8 19:12	07:47 17:11	08:34 10:39-11:27/48 16:39
8	05:39 06:09-06:13/4 22:01	06:20 19:59-20:19/20 21:22	07:08 19:30-19:47/17 20:18	07:56 19:10	07:49 17:09	08:35 10:40-11:27/47 16:39
9	05:40 06:10-06:13/3 22:00	06:21 19:57-20:19/22 21:20	07:10 19:31-19:46/15 20:15	07:57 19:08	07:50 17:07	08:36 10:40-11:27/47 16:38
10	05:41 06:11-06:13/2 22:00	06:23 19:57-20:20/23 21:18	07:11 19:31-19:44/13 20:13	07:59 19:05	07:52 10:48-10:59/11 17:06	08:37 10:40-11:28/48 16:38
11	05:42 06:12-06:13/1 21:59	06:24 19:55-20:20/25 21:16	07:13 19:32-19:43/11 20:11	08:01 19:03	07:54 10:45-11:04/19 17:04	08:38 10:41-11:28/47 16:38
12	05:43 21:58	06:26 19:55-20:21/26 21:14	07:14 19:34-19:39/5 20:09	08:02 19:01	07:56 10:42-11:06/24 17:03	08:39 10:41-11:28/47 16:38
13	05:44 21:57	06:27 19:54-20:20/26 21:13	07:16 20:06	08:04 18:59	07:57 10:40-11:09/29 17:01	08:40 10:42-11:29/47 16:38
14	05:45 21:56	06:29 19:54-20:21/27 21:11	07:17 20:04	08:06 18:57	07:59 10:39-11:11/32 17:00	08:41 10:42-11:29/47 16:38
15	05:46 21:56	06:30 19:54-20:20/26 21:09	07:19 20:02	08:07 18:55	08:01 10:38-11:12/34 16:59	08:42 10:43-11:30/47 16:38
16	05:48 21:55	06:32 19:54-20:20/26 21:07	07:21 20:00	08:09 18:52	08:02 10:38-11:14/36 16:57	08:43 10:44-11:30/46 16:38
17	05:49 21:54	06:34 19:53-20:19/26 21:05	07:22 19:57	08:11 18:50	08:04 10:37-11:15/38 16:56	08:44 10:44-11:31/47 16:38
18	05:50 21:52	06:35 19:54-20:19/25 21:03	07:24 19:55	08:12 18:48	08:06 10:37-11:17/40 16:55	08:45 10:44-11:30/46 16:39
19	05:51 21:51	06:37 19:54-20:18/24 21:01	07:25 19:53	08:14 18:46	08:07 10:36-11:17/41 16:53	08:45 10:45-11:31/46 16:39
20	05:52 21:50	06:38 19:55-20:18/23 20:59	07:27 19:50	08:16 18:44	08:09 10:36-11:18/42 16:52	08:46 10:46-11:32/46 16:39
21	05:54 21:49	06:40 19:55-20:16/21 20:57	07:28 19:48	08:18 18:42	08:11 10:36-11:19/43 16:51	08:47 10:46-11:32/46 16:40
22	05:55 21:48	06:41 19:56-20:14/18 20:55	07:30 19:46	08:19 18:40	08:12 10:36-11:20/44 16:50	08:47 10:47-11:33/46 16:40
23	05:56 21:47	06:43 19:57-20:12/15 20:53	07:32 19:44	08:21 18:38	08:14 10:35-11:20/45 16:49	08:48 10:47-11:33/46 16:41
24	05:58 21:45	06:44 20:00-20:10/10 20:50	07:33 19:41	08:23 18:36	08:16 10:35-11:21/46 16:48	08:48 10:47-11:33/46 16:41
25	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 10:36-11:22/46 16:47	08:48 10:48-11:34/46 16:42
26	06:00 21:43	06:48 20:46	07:36 18:39-18:44/5 19:37	07:26 17:32	08:19 10:35-11:22/47 16:46	08:49 10:48-11:35/47 16:43
27	06:02 21:41	06:49 20:44	07:38 18:36-18:47/11 19:34	07:28 17:30	08:20 10:36-11:22/46 16:45	08:49 10:48-11:35/47 16:43
28	06:03 21:40	06:51 20:42	07:40 18:33-18:47/14 19:32	07:30 17:28	08:22 10:36-11:23/47 16:44	08:49 10:49-11:35/46 16:44
29	06:05 21:38	06:52 20:40	07:41 18:32-18:48/16 19:30	07:31 17:26	08:23 10:36-11:23/47 16:43	08:49 10:49-11:36/47 16:45
30	06:06 21:37	06:54 20:38	07:43 18:30-18:48/18 19:28	07:33 17:25	08:25 10:37-11:24/47 16:43	08:50 10:50-11:36/46 16:46
31	06:08 21:35	06:55 20:35		07:35 17:23		08:50 10:50-11:37/47 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	56	431	220	105	804	1454

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:20-09:31/11	08:24 16:56-17:06/10	07:32 08:12-08:29/17	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:32/12	08:23 16:55-17:07/12	07:30 08:13-08:28/15	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 09:20-09:33/13	08:21 16:55-17:08/13	07:28 08:14-08:26/12	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:19-09:33/14	08:19 16:56-17:09/13	07:26 08:17-08:23/6	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:54/5	20:22	21:11	21:54
5	08:49 09:19-09:34/15	08:18 16:56-17:08/12	07:24 07:47-07:56/9	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 09:18-09:35/17	08:16 16:57-17:07/10	07:21 07:44-07:56/12	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 09:18-09:36/18	08:15 16:58-17:06/8	07:19 07:43-07:57/14	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:36/19	08:13 17:03-17:04/1	07:17 07:42-07:57/15	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:18-09:37/19	08:11	07:15 07:42-07:57/15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:18-09:38/20	08:09	07:13 07:42-07:55/13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 09:18-09:38/20	08:08	07:10 07:43-07:54/11	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 09:20-09:39/19	08:06	07:08 07:44-07:52/8	06:59 07:22-07:23/1	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:21-09:39/18	08:04	07:06 07:29-07:32/3	06:57 07:19-07:22/3	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:22-09:40/18	08:02	07:04 07:26-07:32/6	06:55 07:17-07:21/4	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:22-09:40/18	08:00	07:02 07:24-07:31/7	06:52 07:15-07:19/4	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:23-09:40/17	07:58	06:59 07:23-07:30/7	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 09:24-09:40/16	07:56	06:57 07:25-07:28/3	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:24-09:40/16	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 09:25-09:40/15	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:26-09:40/14	07:51 08:19-08:25/6	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:27-09:38/11	07:49 08:16-08:27/11	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:29-09:37/8	07:47 08:15-08:29/14	06:46 18:29-18:34/5	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 09:32-09:35/3	07:45 08:13-08:30/17	06:44 18:26-18:36/10	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:13-08:31/18	06:41 18:24-18:37/13	06:34	05:44	05:31
	17:21	18:16 17:48-17:50/2	19:04	20:55	21:41	22:05
25	08:34	07:41 08:12-08:31/19	06:39 18:23-18:38/15	06:32	05:43	05:31
	17:22	18:18 17:48-17:52/4	19:05	20:56	21:42	22:05
26	08:32	07:38 08:12-08:31/19	06:37 18:22-18:38/16	06:30	05:42	05:31
	17:24	18:19 17:48-17:54/6	19:07	20:58	21:43	22:05
27	08:31	07:36 08:12-08:31/19	06:35 18:22-18:38/16	06:28	05:41	05:32
	17:26	18:21 17:47-17:55/8	19:09	21:00	21:45	22:05
28	08:30	07:34 08:11-08:30/19	06:32 18:22-18:37/15	06:26	05:40	05:32
	17:28	18:23 17:49-17:54/5	19:10	21:01	21:46	22:05
29	08:28 16:58-16:59/1		07:30 19:22-19:36/14	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:57-17:01/4		07:28 19:23-19:35/12	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 16:56-17:03/7		07:26 19:25-19:34/9		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	363	246	303	12	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57		07:44	08:24-08:30/6	07:37		08:26	09:00-09:20/20
	22:04	21:34		20:33		19:25	08:09-08:11/2	17:21		16:42	
2	05:34	06:11		06:59		07:46	08:22-08:32/10	07:38		08:27	09:01-09:21/20
	22:04	21:32		20:31		19:23		17:19		16:42	
3	05:35	06:12		07:00		07:48	08:20-08:33/13	07:40	16:30-16:34/4	08:29	09:01-09:20/19
	22:03	21:30		20:29		19:21		17:17		16:41	
4	05:36	06:14		07:02		07:49	08:19-08:33/14	07:42	16:28-16:36/8	08:30	09:02-09:21/19
	22:03	21:29		20:27		19:19		17:16		16:40	
5	05:37	06:15		07:03		07:51	08:19-08:34/15	07:43	16:27-16:37/10	08:31	09:03-09:21/18
	22:03	21:27		20:24		19:16		17:14		16:40	
6	05:38	06:17		07:05		07:53	08:18-08:33/15	07:45	16:26-16:38/12	08:33	09:04-09:21/17
	22:02	21:25		20:22		19:14		17:12		16:40	
7	05:38	06:18		07:07		07:54	08:19-08:32/13	07:47	16:26-16:39/13	08:34	09:06-09:21/15
	22:02	21:24		20:20		19:12		17:11		16:39	
8	05:39	06:20		07:08		07:56	08:21-08:32/11	07:49	16:26-16:39/13	08:35	09:07-09:21/14
	22:01	21:22		20:18		19:10		17:09		16:39	
9	05:40	06:21		07:10		07:57	08:22-08:29/7	07:50	16:26-16:38/12	08:36	09:08-09:21/13
	22:00	21:20		20:15		19:08		17:07		16:39	
10	05:41	06:23		07:11		07:59	08:50-08:59/9	07:52	16:27-16:36/9	08:37	09:09-09:21/12
	22:00	21:18		20:13		19:05	08:24-08:26/2	17:06		16:38	
11	05:42	06:24		07:13		08:01	08:48-09:01/13	07:54	16:27-16:34/7	08:38	09:10-09:21/11
	21:59	21:16		20:11		19:03		17:04		16:38	
12	05:43	06:26		07:14	19:17-19:25/8	08:02	08:47-09:02/15	07:56	16:28-16:32/4	08:39	09:11-09:21/10
	21:58	21:14		20:09		19:01		17:03		16:38	
13	05:44	06:27		07:16	19:15-19:26/11	08:04	08:45-09:02/17	07:57	16:30-16:31/1	08:40	09:12-09:21/9
	21:57	21:13		20:06		18:59	18:24-18:25/1	17:01		16:38	
14	05:45	06:29		07:18	19:13-19:27/14	08:06	08:44-09:03/19	07:59		08:41	09:13-09:21/8
	21:56	21:11		20:04		18:57	18:21-18:28/7	17:00		16:38	
15	05:47	06:30		07:19	19:12-19:27/15	08:07	08:44-09:03/19	08:01		08:42	09:14-09:21/7
	21:55	21:09		20:02		18:55	18:20-18:27/7	16:59		16:38	
16	05:48	06:32		07:21	19:11-19:27/16	08:09	08:44-09:03/19	08:02		08:43	09:15-09:21/6
	21:54	21:07		20:00		18:53	18:19-18:24/5	16:57		16:38	
17	05:49	06:34		07:22	19:11-19:27/16	08:11	08:44-09:02/18	08:04		08:44	09:16-09:21/5
	21:53	21:05		19:57		18:50	18:19-18:22/3	16:56		16:39	
18	05:50	06:35		07:24	19:10-19:25/15	08:12	08:44-09:02/18	08:06		08:45	09:16-09:20/4
	21:52	21:03		19:55		18:48		16:55		16:39	
19	05:51	06:37		07:25	19:11-19:25/14	08:14	08:45-09:01/16	08:07	09:05-09:09/4	08:45	09:17-09:18/1
	21:51	21:01		19:53		18:46		16:53		16:39	
20	05:53	06:38		07:27	19:12-19:23/11	08:16	08:46-09:00/14	08:09	09:04-09:12/8	08:46	
	21:50	20:59		19:50		18:44		16:52		16:39	
21	05:54	06:40		07:29	19:13-19:20/7	08:18	08:48-08:57/9	08:11	09:03-09:14/11	08:47	
	21:49	20:57		19:48		18:42		16:51		16:40	
22	05:55	06:41		07:30		08:19		08:12	09:02-09:16/14	08:47	
	21:48	20:55		19:46		18:40		16:50		16:40	
23	05:56	06:43		07:32		08:21		08:14	09:01-09:16/15	08:48	
	21:47	20:53		19:44		18:38		16:49		16:41	
24	05:58	06:45		07:33		08:23		08:16	09:01-09:17/16	08:48	09:19-09:20/1
	21:45	20:50		19:41		18:36		16:48		16:41	
25	05:59	06:46		07:35		07:24		08:17	09:02-09:18/16	08:48	09:22-09:24/2
	21:44	20:48		19:39		17:34		16:47		16:42	09:20-09:21/1
26	06:01	06:48		07:36		07:26		08:19	09:01-09:18/17	08:49	09:20-09:25/5
	21:43	20:46		19:37		17:32		16:46		16:43	
27	06:02	06:49		07:38	08:05-08:12/7	07:28		08:20	09:02-09:19/17	08:49	09:20-09:26/6
	21:41	20:44		19:34		17:30		16:45		16:43	
28	06:03	06:51	07:17-07:21/4	07:40	08:04-08:12/8	07:30		08:22	09:02-09:20/18	08:49	09:20-09:26/6
	21:40	20:42		19:32		17:28		16:44		16:44	
29	06:05	06:52	07:18-07:22/4	07:41	08:06-08:12/6	07:31		08:23	09:01-09:19/18	08:49	09:20-09:27/7
	21:38	20:40		19:30		17:27		16:44		16:45	
30	06:06	06:54	07:20-07:23/3	07:43	08:08-08:12/4	07:33		08:25	09:01-09:20/19	08:49	09:20-09:28/8
	21:37	20:38		19:28		17:25		16:43		16:46	
31	06:08	06:56	07:21-07:22/1			07:35				08:50	09:20-09:29/9
	21:35	20:35				17:23				16:47	
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	12		152		317		266		273	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:29-15:53/24	08:24 08:57-09:09/12	07:32 17:35-17:51/16	07:23	06:20	05:36 06:16-06:35/19
	16:48	17:35	18:25	20:17	21:06	21:50 20:17-20:40/23
2	08:49 15:30-15:54/24	08:22 08:58-09:08/10	07:30 17:35-17:51/16	07:21	06:18	05:36 06:17-06:36/19
	16:49	17:36	18:26	20:19	21:08	21:52 20:17-20:42/25
3	08:49 15:29-15:54/25	08:21 08:59-09:06/7	07:28 17:36-17:50/14	07:19	06:16	05:35 06:16-06:35/19
	16:50	17:38	18:28	20:20	21:09	21:53 20:16-20:43/27
4	08:49 15:30-15:55/25	08:19	07:26 17:37-17:49/12	07:17	06:15	05:34 06:16-06:35/19
	16:51	17:40	18:30	20:22	21:11	21:54 20:15-20:43/28
5	08:49 15:30-15:56/26	08:18	07:24 17:39-17:46/7	07:14	06:13	05:34 06:17-06:35/18
	16:53	17:42	18:32	20:24	21:13	21:55 20:15-20:44/29
6	08:49 15:30-15:56/26	08:16	07:21	07:12	06:11	05:33 06:17-06:35/18
	16:54	17:44	18:33	20:25	21:14	21:55 20:14-20:45/31
7	08:48 15:31-15:57/26	08:14	07:19	07:10	06:09	05:32 06:18-06:35/17
	16:55	17:45	18:35	20:27	21:16	21:56 20:14-20:46/32
8	08:48 15:31-15:57/26	08:13	07:17	07:08	06:08	05:32 06:19-06:36/17
	16:56	17:47	18:37	20:29	21:17	21:57 20:13-20:46/33
9	08:47 15:32-15:58/26	08:11	07:15	07:05	06:06	05:31 06:18-06:35/17
	16:58	17:49	18:39	20:30	21:19	21:58 20:14-20:47/33
10	08:47 15:32-15:58/26	08:09	07:13	07:03	06:04	05:31 06:19-06:35/16
	16:59	17:51	18:40	20:32	21:21	21:59 20:14-20:48/34
11	08:46 15:32-15:58/26	08:08	07:10	07:01	06:03	05:31 06:20-06:35/15
	17:00	17:53	18:42	20:33	21:22	22:00 20:14-20:49/35
12	08:46 15:32-15:59/27	08:06	07:08	06:59	06:01	05:30 06:19-06:35/16
	17:02	17:54	18:44	20:35	21:24	22:00 20:13-20:48/35
13	08:45 15:33-16:00/27	08:04	07:06	06:57	05:59	05:30 06:20-06:35/15
	17:03	17:56	18:45	20:37	21:25	22:01 20:13-20:49/36
14	08:44 15:34-16:00/26	08:02 08:26-08:28/2	07:04	06:55	05:58	05:30 06:20-06:35/15
	17:05	17:58	18:47	20:38	21:27	22:01 20:14-20:49/35
15	08:44 15:34-16:00/26	08:00 08:24-08:27/3	07:02	06:52	05:56	05:30 06:21-06:35/14
	17:06	18:00	18:49	20:40	21:28	22:02 20:14-20:50/36
16	08:43 15:35-16:00/25	07:58 08:22-08:26/4	06:59	06:50	05:55	05:30 06:21-06:35/14
	17:08	18:02	18:50	20:42	21:30	22:03 20:14-20:50/36
17	08:42 15:35-16:00/25	07:56	06:57	06:48	05:53	05:29 06:22-06:35/13
	17:09	18:03	18:52	20:43	21:31	22:03 20:14-20:51/37
18	08:41 15:36-16:00/24	07:55	06:55 07:17-07:19/2	06:46	05:52	05:29 06:22-06:35/13
	17:11	18:05	18:54	20:45	21:32	22:03 20:14-20:51/37
19	08:40 15:37-16:00/23	07:53	06:53 07:15-07:20/5	06:44	05:51 06:21-06:29/8	05:30 06:22-06:35/13
	17:12	18:07	18:55	20:47	21:34	22:04 20:14-20:51/37
20	08:39 15:37-15:59/22	07:51	06:50 07:13-07:20/7	06:42	05:49 06:20-06:30/10	05:30 06:22-06:35/13
	17:14	18:09	18:57	20:48	21:35	22:04 20:14-20:51/37
21	08:38 15:38-15:59/21	07:49	06:48 07:10-07:19/9	06:40	05:48 06:19-06:32/13	05:30 06:22-06:35/13
	17:16	18:11	18:59	20:50	21:37	22:04 20:14-20:51/37
22	08:37 15:40-15:59/19	07:47 08:10-08:11/1	06:46 07:08-07:18/10	06:38	05:47 06:17-06:32/15	05:30 06:23-06:36/13
	17:17	18:12	19:00	20:52	21:38	22:04 20:15-20:52/37
23	08:36 15:41-15:59/18	07:45 17:41-17:46/5	06:44 07:10-07:17/7	06:36	05:46 06:17-06:32/15	05:30 06:23-06:36/13
	17:19 09:03-09:04/1	18:14 08:08-08:12/4	19:02 07:06-07:09/3	20:53	21:39	22:05 20:15-20:52/37
24	08:35 15:43-15:57/14	07:43 17:39-17:49/10	06:41 07:04-07:09/5	06:34	05:44 06:16-06:33/17	05:30 06:23-06:36/13
	17:21 09:02-09:06/4	18:16 08:06-08:12/6	19:04	20:55	21:41	22:05 20:15-20:52/37
25	08:34 15:46-15:56/10	07:40 17:37-17:51/14	06:39 07:01-07:07/6	06:32	05:43 06:16-06:34/18	05:31 06:24-06:37/13
	17:22 09:00-09:06/6	18:18 08:04-08:12/8	19:05	20:56	21:42	22:05 20:16-20:53/37
26	08:32 15:51-15:52/1	07:38 17:36-17:52/16	06:37 07:02-07:04/2	06:30	05:42 06:16-06:34/18	05:31 06:23-06:37/14
	17:24 08:59-09:08/9	18:19 08:02-08:12/10	19:07	20:58	21:43	22:05 20:16-20:53/37
27	08:31 08:57-09:08/11	07:36 17:35-17:51/16	06:34	06:28	05:41 06:15-06:34/19	05:32 06:24-06:38/14
	17:26	18:21 08:03-08:11/8	19:09	21:00	21:45 20:25-20:31/6	22:05 20:16-20:52/36
28	08:30 08:56-09:09/13	07:34 17:35-17:51/16	06:32	06:26	05:40 06:15-06:34/19	05:32 06:24-06:38/14
	17:28	18:23 08:04-08:08/4	19:10	21:01	21:46 20:22-20:34/12	22:05 20:17-20:53/36
29	08:28 08:55-09:09/14		07:30	06:24	05:39 06:16-06:35/19	05:33 06:24-06:39/15
	17:29		20:12	21:03	21:47 20:21-20:37/16	22:05 20:16-20:52/36
30	08:27 08:55-09:09/14		07:28	06:22	05:38 06:16-06:35/19	05:33 06:24-06:39/15
	17:31		20:14	21:05	21:48 20:19-20:38/19	22:04 20:17-20:53/36
31	08:25 08:56-09:09/13		07:25		05:37 06:16-06:35/19	
	17:33		20:15		21:49 20:18-20:39/21	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	673	156	121	0	283	1479

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:24-06:40/16	06:09	06:57	07:44	07:36	08:26 15:14-15:40/26
	22:04 20:18-20:53/35	21:34	20:33	19:25	17:21	16:42
2	05:34 06:23-06:39/16	06:11	06:59	07:46	07:38	08:27 15:15-15:41/26
	22:04 20:18-20:52/34	21:32	20:31	19:23	17:19	16:41
3	05:35 06:24-06:40/16	06:12	07:00	07:48	07:40	08:29 15:15-15:41/26
	22:03 20:19-20:52/33	21:30	20:29	19:21	17:17	16:41
4	05:36 06:24-06:41/17	06:14	07:02	07:49	07:42	08:30 15:16-15:42/26
	22:03 20:20-20:52/32	21:29	20:27	19:19	17:16	16:40
5	05:37 06:24-06:41/17	06:15	07:03	07:51	07:43	08:31 15:16-15:42/26
	22:03 20:19-20:51/32	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:41/18	06:17	07:05	07:53	07:45	08:33 15:16-15:42/26
	22:02 20:20-20:51/31	21:25	20:22	19:14	17:12	16:39
7	05:38 06:24-06:42/18	06:18	07:06	07:54	07:47	08:34 15:16-15:42/26
	22:02 20:21-20:51/30	21:23	20:20	19:12	17:11	16:39
8	05:39 06:24-06:42/18	06:20	07:08	07:56 18:17-18:20/3	07:49 08:29-08:37/8	08:35 15:18-15:43/25
	22:01 20:22-20:51/29	21:22	20:18	19:10	17:09	16:39
9	05:40 06:24-06:43/19	06:21	07:10	07:57 18:12-18:22/10	07:50 08:28-08:39/11	08:36 15:18-15:43/25
	22:00 20:23-20:50/27	21:20	20:15	19:08	17:07	16:39
10	05:41 06:24-06:43/19	06:23	07:11	07:59 18:11-18:24/13	07:52 08:28-08:40/12	08:37 15:19-15:43/24
	22:00 20:24-20:50/26	21:18	20:13	19:05	17:06	16:38
11	05:42 06:24-06:43/19	06:24	07:13	08:01 18:10-18:25/15	07:54 08:27-08:41/14	08:38 15:19-15:43/24
	21:59 20:25-20:49/24	21:16	20:11	19:03	17:04	16:38
12	05:43 06:24-06:44/20	06:26	07:14	08:02 18:08-18:24/16	07:56 08:26-08:40/14	08:39 15:20-15:43/23
	21:58 20:26-20:48/22	21:14	20:09	19:01	17:03	16:38
13	05:44 06:24-06:44/20	06:27	07:16	08:04 18:08-18:25/17	07:57 08:27-08:41/14	08:40 15:20-15:44/24
	21:57 20:27-20:47/20	21:12	20:06	18:59	17:01	16:38
14	05:45 06:24-06:44/20	06:29	07:17	08:06 18:08-18:25/17	07:59 08:28-08:41/13	08:41 15:21-15:44/23
	21:56 20:28-20:46/18	21:11	20:04	18:57 08:36-08:42/6	17:00	16:38
15	05:46 06:25-06:44/19	06:30	07:19	08:07 18:08-18:24/16	08:01 08:30-08:41/11	08:42 15:22-15:44/22
	21:55 20:30-20:45/15	21:09	20:02	18:55 08:34-08:44/10	16:59	16:38
16	05:48 06:25-06:44/19	06:32	07:21	08:09 18:08-18:22/14	08:02 15:23-15:25/2	08:43 15:22-15:45/23
	21:54 20:32-20:42/10	21:07	20:00	18:52 08:35-08:44/9	16:57 08:32-08:41/9	16:38
17	05:49 06:25-06:44/19	06:34	07:22	08:11 18:09-18:21/12	08:04 15:19-15:30/11	08:44 15:23-15:46/23
	21:53	21:05	19:57	18:50 08:36-08:44/8	16:56 08:34-08:40/6	16:38
18	05:50 06:25-06:43/18	06:35	07:24 07:49-07:55/6	08:12 18:11-18:19/8	08:06 15:17-15:31/14	08:45 15:23-15:45/22
	21:52	21:03	19:55	18:48 08:38-08:44/6	16:55 08:36-08:40/4	16:39
19	05:51 06:25-06:43/18	06:37	07:25 07:50-07:55/5	08:14 08:40-08:43/3	08:07 15:15-15:33/18	08:45 15:24-15:46/22
	21:51	21:01	19:53	18:46	16:53 08:37-08:38/1	16:39
20	05:52 06:27-06:43/16	06:38	07:27 07:57-08:03/6	08:16	08:09 15:15-15:34/19	08:46 15:25-15:47/22
	21:50	20:59	19:50 07:52-07:55/3	18:44	16:52	16:39
21	05:54 06:27-06:43/16	06:40	07:28 07:55-08:04/9	08:17	08:11 15:14-15:35/21	08:46 15:25-15:47/22
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:28-06:42/14	06:41	07:30 07:55-08:05/10	08:19	08:12 15:14-15:36/22	08:47 15:26-15:48/22
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:41/12	06:43	07:32 07:56-08:04/8	08:21	08:14 15:13-15:36/23	08:48 15:26-15:48/22
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:40/9	06:44	07:33 07:58-08:04/6	08:23	08:15 15:13-15:37/24	08:48 15:26-15:48/22
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:38/5	06:46	07:35 08:00-08:03/3	07:24	08:17 15:13-15:38/25	08:48 15:27-15:49/22
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:57/4	08:19 15:13-15:38/25	08:49 15:27-15:49/22
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 07:54-07:57/3	08:20 15:13-15:39/26	08:49 15:27-15:50/23
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 07:56-07:58/2	08:22 15:14-15:40/26	08:49 15:27-15:50/23
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23 15:13-15:40/27	08:49 15:28-15:51/23
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25 15:14-15:41/27	08:49 15:28-15:51/23
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:49 15:28-15:52/24
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	836	0	57	192	427	732

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50	08:24 16:12-16:51/39	07:32	07:23 19:38-19:51/13	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:51
2	08:50	08:23 16:11-16:51/40	07:30	07:21 19:39-19:53/14	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49	08:21 16:11-16:52/41	07:28	07:19 19:41-19:55/14	06:16	05:35
	16:50	17:38	18:28	20:20	21:10	21:53
4	08:49	08:19 16:11-16:53/42	07:26	07:17 19:47-19:57/10	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49	08:18 16:11-16:53/42	07:24	07:14 19:46-19:58/12	06:13	05:33
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49	08:16 16:10-16:53/43	07:21	07:12 19:44-19:59/15	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48	08:15 16:10-16:53/43	07:19	07:10 19:44-20:01/17	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:57
8	08:48	08:13 16:11-16:54/43	07:17	07:08 19:44-20:03/19	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:48	08:11 16:11-16:54/43	07:15	07:05 19:44-20:03/19	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09 16:11-16:54/43	07:13	07:03 19:44-20:03/19	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:47	08:08 16:11-16:53/42	07:11 18:14-18:17/3	07:01 19:44-20:01/17	06:03	05:31
	17:00	17:53	18:42	20:34	21:22	22:00
12	08:46	08:06 16:12-16:53/41	07:08 18:13-18:19/6	06:59 19:45-19:59/14	06:01	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45	08:04 16:12-16:52/40	07:06 18:11-18:20/9	06:57 19:47-19:58/11	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:45	08:02 16:13-16:52/39	07:04 18:11-18:22/11	06:55 19:50-19:54/4	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:02
15	08:44	08:00 16:13-16:51/38	07:02 18:11-18:24/13	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 16:14-16:50/36	06:59 18:11-18:26/15	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42	07:57 16:15-16:49/34	06:57 18:11-18:25/14	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:55 16:17-16:48/31	06:55 18:13-18:24/11	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:33	22:04
19	08:40	07:53 16:18-16:47/29	06:53 18:15-18:22/7	06:44	05:51	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 16:21-16:45/24	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 16:22-16:33/11	07:49 16:23-16:43/20	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 16:20-16:36/16	07:47 16:26-16:40/14	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 16:19-16:39/20	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 16:18-16:41/23	07:43	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 16:16-16:42/26	07:41	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:57	21:42	22:05
26	08:32 16:15-16:44/29	07:39	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 16:14-16:45/31	07:36	06:35 18:40-18:44/4	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 16:14-16:47/33	07:34	06:32 18:38-18:45/7	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 16:13-16:48/35		07:30 19:38-19:47/9	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:13-16:49/36		07:28 19:38-19:49/11	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:05
31	08:26 16:12-16:50/38		07:26 19:38-19:50/12		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	298	807	132	198	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:44-20:01/17	07:44 18:52-18:58/6	07:37 15:41-16:23/42	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:11	06:59 19:42-20:01/19	07:46 18:52-18:56/4	07:38 15:41-16:23/42	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:42-20:01/19	07:48 18:53-18:54/1	07:40 15:41-16:24/43	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02 19:41-20:00/19	07:49	07:42 15:40-16:23/43	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03 19:41-19:58/17	07:51	07:44 15:40-16:23/43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05 19:40-19:55/15	07:53	07:45 15:41-16:23/42	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:07 19:41-19:54/13	07:54	07:47 15:41-16:22/41	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08 19:41-19:51/10	07:56	07:49 15:42-16:22/40	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10 19:35-19:49/14	07:57	07:51 15:42-16:22/40	08:36
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11 19:32-19:46/14	07:59	07:52 15:43-16:22/39	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 19:31-19:44/13	08:01	07:54 15:44-16:21/37	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:29-19:42/13	08:02	07:56 15:44-16:20/36	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:29-19:40/11	08:04	07:57 15:45-16:19/34	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:18 19:28-19:37/9	08:06	07:59 15:46-16:19/33	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 19:29-19:35/6	08:07	08:01 15:47-16:18/31	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 19:28-19:33/5	08:09	08:03 15:48-16:17/29	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49	06:34	07:22 19:30-19:31/1	08:11	08:04 15:50-16:16/26	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12	08:06 15:52-16:15/23	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14 17:02-17:07/5	08:08 15:53-16:13/20	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 16:56-17:12/16	08:09 15:55-16:11/16	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29	08:18 16:53-17:14/21	08:11 15:58-16:09/11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 16:50-17:16/26	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 16:48-17:18/30	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 18:59-19:04/5	08:23 16:47-17:19/32	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:56-19:06/10	07:24 15:46-16:20/34	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:54-19:07/13	07:26 15:45-16:21/36	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:53-19:08/15	07:28 15:43-16:21/38	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:52-19:05/13	07:30 15:42-16:21/39	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:50-19:56/6	07:41 18:52-19:03/11	07:31 15:42-16:22/40	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:48-19:59/11	07:43 18:51-19:00/9	07:33 15:41-16:23/42	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:45-19:59/14		07:35 15:41-16:23/42		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	0	31	291	412	711	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 17:51-17:59/8 18:25	07:23 20:17	06:20 20:36-20:38/2 21:06	05:36 20:33-20:56/23 21:51
2	08:50 16:14-16:15/1 16:49	08:23 17:36	07:30 17:52-18:01/9 18:27	07:21 20:19	06:18 20:35-20:40/5 21:08	05:36 20:35-20:56/21 21:52
3	08:49 16:13-16:17/4 16:50	08:21 17:38	07:28 17:53-18:01/8 18:28	07:19 20:20	06:16 20:34-20:41/7 21:10	05:35 20:35-20:56/21 21:53
4	08:49 16:12-16:17/5 16:51	08:19 17:40	07:26 18:30	07:17 20:22	06:15 20:34-20:43/9 21:11	05:34 20:35-20:55/20 21:54
5	08:49 16:12-16:19/7 16:53	08:18 17:42	07:24 18:32	07:14 20:24	06:13 20:34-20:44/10 21:13	05:34 20:37-20:55/18 21:55
6	08:49 16:11-16:20/9 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 20:34-20:45/11 21:14	05:33 20:37-20:54/17 21:56
7	08:48 16:11-16:22/11 16:55	08:15 17:45	07:19 18:35	07:10 20:27	06:09 20:34-20:47/13 21:16	05:32 20:38-20:54/16 21:57
8	08:48 16:10-16:23/13 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 20:34-20:48/14 21:18	05:32 20:38-20:53/15 21:57
9	08:48 16:11-16:25/14 16:58	08:11 17:49	07:15 18:39	07:06 20:30	06:06 20:34-20:50/16 21:19	05:31 20:40-20:53/13 21:58
10	08:47 16:10-16:26/16 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 20:32-20:51/19 21:21	05:31 20:41-20:53/12 21:59
11	08:47 16:10-16:27/17 17:00	08:08 17:53	07:11 18:15-18:17/2 18:42	07:01 20:34	06:03 20:32-20:53/21 21:22	05:31 20:42-20:53/11 22:00
12	08:46 16:11-16:29/18 17:02	08:06 17:55	07:08 18:15-18:19/4 18:44	06:59 20:35	06:01 20:31-20:54/23 21:24	05:30 20:42-20:52/10 22:00
13	08:45 16:11-16:31/20 17:03	08:04 17:56	07:06 18:14-18:20/6 18:45	06:57 20:37	05:59 20:30-20:56/26 21:25	05:30 20:43-20:51/8 22:01
14	08:45 16:10-16:32/22 17:05	08:02 17:58	07:04 18:14-18:22/8 18:47	06:55 20:38	05:58 20:29-20:57/28 21:27	05:30 20:45-20:51/6 22:02
15	08:44 16:10-16:34/24 17:06	08:00 18:00	07:02 18:14-18:24/10 18:49	06:52 20:40	05:56 20:29-20:59/30 21:28	05:30 20:46-20:50/4 22:02
16	08:43 16:11-16:35/24 17:08	07:58 18:02	06:59 18:14-18:26/12 18:50	06:50 20:42	05:55 20:29-21:00/31 21:30	05:30 22:03
17	08:42 16:11-16:35/24 17:09	07:57 18:04	06:57 18:14-18:27/13 18:52	06:48 20:43	05:54 20:29-21:01/32 21:31	05:29 22:03
18	08:41 16:11-16:36/25 17:11	07:55 18:05	06:55 18:14-18:28/14 18:54	06:46 20:45	05:52 20:29-21:02/33 21:33	05:29 22:04
19	08:40 16:11-16:36/25 17:12	07:53 18:07	06:53 18:16-18:27/11 18:55	06:44 20:47	05:51 20:29-21:04/35 21:34	05:30 22:04
20	08:39 16:12-16:37/25 17:14	07:51 18:09	06:50 18:18-18:25/7 18:57	06:42 20:48	05:49 20:29-21:06/37 21:35	05:30 22:04
21	08:38 16:11-16:36/25 17:16	07:49 18:11	06:48 18:59	06:40 20:50	05:48 20:28-21:06/38 21:37	05:30 22:04
22	08:37 16:12-16:37/25 17:17	07:47 18:12	06:46 19:00	06:38 20:52	05:47 20:59-21:06/7 21:38 20:29-20:58/29	05:30 22:05
23	08:36 16:13-16:37/24 17:19	07:45 18:14	06:44 19:02	06:36 20:53	05:46 21:01-21:04/3 21:40 20:29-20:58/29	05:30 22:05
24	08:35 16:14-16:37/23 17:21	07:43 18:16	06:41 19:04	06:34 20:55	05:44 20:29-20:58/29 21:41	05:30 22:05
25	08:34 16:14-16:37/23 17:22	07:41 18:18	06:39 19:05	06:32 20:57	05:43 20:30-20:58/28 21:42	05:31 22:05
26	08:32 16:15-16:37/22 17:24	07:39 17:52-17:54/2 18:20	06:37 19:07	06:30 20:58	05:42 20:30-20:58/28 21:43	05:31 22:05
27	08:31 16:15-16:36/21 17:26	07:36 17:52-17:56/4 18:21	06:35 19:09	06:28 21:00	05:41 20:31-20:57/26 21:45	05:32 20:49-20:51/2 22:05
28	08:30 16:17-16:36/19 17:28	07:34 17:51-17:57/6 18:23	06:32 19:10	06:26 21:01	05:40 20:31-20:57/26 21:46	05:32 20:48-20:53/5 22:05
29	08:28 16:18-16:34/16 17:29		07:30 20:12	06:24 21:03	05:39 20:32-20:58/26 21:47	05:33 20:47-20:54/7 22:05
30	08:27 16:20-16:34/14 17:31		07:28 20:14	06:22 21:05	05:38 20:33-20:57/24 21:48	05:33 20:47-20:55/8 22:05
31	08:26 16:22-16:31/9 17:33		07:26 20:15		05:37 20:33-20:57/24 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	525	12	112	0	719	237

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 20:47-20:57/10 22:04	06:09 20:41-21:04/23 21:34	06:57 20:33	07:44 18:54-18:58/4 19:25	07:37 17:21	08:26 15:52-16:09/17 16:42
2	05:34 20:45-20:57/12 22:04	06:11 20:43-21:03/20 21:32	06:59 20:31	07:46 18:54-18:56/2 19:23	07:38 17:19	08:27 15:54-16:09/15 16:41
3	05:35 20:45-20:58/13 22:04	06:12 20:43-21:01/18 21:30	07:00 20:29	07:48 19:21	07:40 17:17	08:29 15:54-16:08/14 16:41
4	05:36 20:45-20:59/14 22:03	06:14 20:44-20:59/15 21:29	07:02 20:27	07:49 19:19	07:42 17:16	08:30 15:56-16:08/12 16:40
5	05:37 20:44-20:59/15 22:03	06:15 20:45-20:58/13 21:27	07:03 20:24	07:51 19:16	07:44 17:14	08:31 15:56-16:07/11 16:40
6	05:37 20:44-21:00/16 22:02	06:17 20:44-20:56/12 21:25	07:05 20:22	07:53 19:14	07:45 17:12	08:33 15:57-16:06/9 16:39
7	05:38 20:43-21:01/18 22:02	06:18 20:44-20:55/11 21:24	07:07 20:20	07:54 19:12	07:47 17:11	08:34 15:59-16:06/7 16:39
8	05:39 20:43-21:02/19 22:01	06:20 20:43-20:53/10 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 16:00-16:05/5 16:39
9	05:40 20:43-21:03/20 22:00	06:21 20:43-20:51/8 21:20	07:10 20:15	07:58 19:08	07:51 17:07	08:36 16:01-16:05/4 16:39
10	05:41 20:42-21:04/22 22:00	06:23 20:44-20:50/6 21:18	07:11 20:13	07:59 18:29-18:34/5 19:05	07:52 17:06	08:37 16:03-16:05/2 16:38
11	05:42 20:42-21:04/22 21:59	06:24 20:44-20:48/4 21:16	07:13 20:11	08:01 18:26-18:36/10 19:03	07:54 15:54-16:03/9 17:04	08:38 16:38
12	05:43 20:42-21:05/23 21:58	06:26 20:45-20:46/1 21:14	07:14 20:09	08:02 18:24-18:33/9 19:01	07:56 15:51-16:05/14 17:03	08:39 16:38
13	05:44 20:41-21:05/24 21:57	06:27 21:13	07:16 20:06	08:04 18:24-18:31/7 18:59	07:57 15:50-16:06/16 17:01	08:40 16:38
14	05:45 20:41-21:06/25 21:57	06:29 21:11	07:18 20:04	08:06 18:24-18:29/5 18:57	07:59 15:49-16:08/19 17:00	08:41 16:38
15	05:46 20:41-21:06/25 21:56	06:30 21:09	07:19 20:02	08:07 18:24-18:27/3 18:55	08:01 15:48-16:09/21 16:59	08:42 16:38
16	05:48 20:40-21:07/27 21:55	06:32 21:07	07:21 20:00	08:09 18:53	08:03 15:48-16:10/22 16:57	08:43 16:38
17	05:49 20:40-21:07/27 21:54	06:34 21:05	07:22 19:57	08:11 18:50	08:04 15:48-16:11/23 16:56	08:44 16:38
18	05:50 20:39-21:07/28 21:53	06:35 21:03	07:24 19:55	08:12 18:48	08:06 15:48-16:11/23 16:55	08:45 16:39
19	05:51 20:39-21:07/28 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:08 15:47-16:11/24 16:53	08:45 16:39
20	05:52 20:40-21:08/28 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 15:47-16:12/25 16:52	08:46 16:39
21	05:54 21:10-21:16/6 21:49 20:39-21:08/29	06:40 20:57	07:29 19:48	08:18 18:42	08:11 15:47-16:12/25 16:51	08:47 16:40
22	05:55 21:09-21:17/8 21:48 20:39-21:08/29	06:41 20:55	07:30 19:46	08:19 18:40	08:12 15:48-16:13/25 16:50	08:47 16:40
23	05:56 20:39-21:16/37 21:47	06:43 20:53	07:32 19:02-19:08/6 19:44	08:21 18:38	08:14 15:47-16:12/25 16:49	08:48 16:41
24	05:58 20:39-21:14/35 21:45	06:45 20:50	07:33 19:00-19:10/10 19:41	08:23 18:36	08:16 15:48-16:13/25 16:48	08:48 16:41
25	05:59 20:39-21:14/35 21:44	06:46 20:48	07:35 18:57-19:11/14 19:39	07:24 17:34	08:17 15:49-16:13/24 16:47	08:48 16:42
26	06:00 20:39-21:12/33 21:43	06:48 20:46	07:36 18:57-19:10/13 19:37	07:26 17:32	08:19 15:49-16:13/24 16:46	08:49 16:43
27	06:02 20:39-21:11/32 21:41	06:49 20:44	07:38 18:56-19:08/12 19:34	07:28 17:30	08:20 15:49-16:13/24 16:45	08:49 16:43
28	06:03 20:40-21:10/30 21:40	06:51 20:42	07:40 18:55-19:05/10 19:32	07:30 17:28	08:22 15:51-16:12/21 16:44	08:49 16:44
29	06:05 20:40-21:08/28 21:38	06:52 20:40	07:41 18:55-19:03/8 19:30	07:31 17:27	08:23 15:51-16:11/20 16:44	08:49 16:45
30	06:06 20:40-21:07/27 21:37	06:54 20:38	07:43 18:54-19:00/6 19:28	07:33 17:25	08:25 15:52-16:10/18 16:43	08:50 16:46
31	06:08 20:41-21:06/25 21:35	06:56 20:35		07:35 17:23		08:50 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	770	141	79	45	427	96

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 15:46-16:59/73 17:35	07:32 18:25	07:23 20:17	06:20 18:40-19:55/75 21:06 07:06-07:47/41	05:37 18:43-19:58/75 21:51 20:58-21:19/21
2	08:50 16:49	08:23 15:46-16:58/72 17:37	07:30 18:27	07:21 20:19	06:18 18:40-19:56/76 21:08 07:06-07:46/40	05:36 18:45-19:58/73 21:52 20:59-21:20/21
3	08:49 16:50	08:21 15:46-16:58/72 17:38	07:28 18:28	07:19 20:20	06:17 18:40-19:57/77 21:10 07:07-07:47/40	05:35 18:45-19:58/73 21:53 20:59-21:21/22
4	08:49 16:51	08:19 15:47-16:58/71 17:40	07:26 18:30	07:17 20:22	06:15 18:39-19:57/78 20:42-20:43/1 21:11 07:07-07:46/39	05:34 18:45-19:57/72 21:54 20:58-21:21/23
5	08:49 16:53	08:18 15:47-16:58/71 17:42	07:24 18:32	07:14 20:24	06:13 18:38-19:57/79 20:41-20:44/3 21:13 07:07-07:45/38	05:34 18:46-19:58/72 21:55 20:59-21:22/23
6	08:49 16:54	08:16 15:47-16:57/70 17:44	07:22 18:33	07:12 20:25	06:11 18:39-19:58/79 20:40-20:46/6 21:14 07:07-07:45/38	05:33 18:46-19:57/71 21:56 20:59-21:21/22
7	08:48 16:55	08:15 16:36-16:56/20 17:46 15:47-16:35/48	07:19 18:35	07:10 20:27	06:09 18:38-19:58/80 20:39-20:47/8 21:16 07:07-07:44/37	05:32 18:47-19:58/71 21:56 20:59-21:22/23
8	08:48 16:56	08:13 16:38-16:56/18 17:47 15:48-16:35/47	07:17 18:37	07:08 20:01-20:03/2 20:29	06:08 18:38-19:57/79 20:39-20:48/9 21:17 07:08-07:43/35	05:32 18:48-19:58/70 21:57 21:00-21:23/23
9	08:48 16:58	08:11 16:40-16:54/14 17:49 15:49-16:35/46	07:15 18:39	07:06 20:01-20:05/4 20:30	06:06 18:38-19:58/80 20:39-20:50/11 21:19 07:09-07:43/34	05:31 18:47-19:58/71 21:58 20:59-21:22/23
10	08:47 15:58-16:08/10 16:59	08:09 16:42-16:51/9 17:51 15:49-16:34/45	07:13 18:40	07:03 20:02-20:06/4 20:32	06:04 18:37-19:58/81 20:39-20:51/12 21:21 07:09-07:42/33	05:31 18:48-19:58/70 21:59 21:00-21:23/23
11	08:46 15:56-16:11/15 17:00	08:08 15:50-16:34/44 17:53	07:11 18:15-18:17/2 18:42	07:01 20:03-20:08/5 20:34	06:03 18:38-19:58/80 20:39-20:53/14 21:22 07:10-07:41/31	05:31 18:49-19:58/69 22:00 21:00-21:23/23
12	08:46 15:55-16:14/19 17:02	08:06 15:50-16:33/43 17:55	07:08 18:15-18:19/4 18:44	06:59 20:04-20:07/3 20:35	06:01 18:37-19:58/81 20:39-20:54/15 21:24 07:10-07:39/29	05:30 18:48-19:58/70 22:00 21:00-21:22/22
13	08:45 15:54-16:15/21 17:03	08:04 15:51-16:32/41 17:56	07:06 18:15-18:20/5 18:45	06:57 19:17-19:24/7 20:37	06:00 18:38-19:58/80 20:40-20:54/14 21:25 07:12-07:39/27	05:30 18:49-19:58/69 22:01 21:00-21:23/23
14	08:45 15:53-16:17/24 17:05	08:02 15:52-16:31/39 17:58	07:04 18:18-18:21/3 18:47	06:55 19:09-19:32/23 20:39	05:58 18:37-19:58/81 20:41-20:52/11 21:27 07:12-07:37/25	05:30 18:50-19:58/68 22:02 21:01-21:23/22
15	08:44 15:52-16:19/27 17:06	08:00 15:53-16:30/37 18:00	07:02 18:49	06:53 19:05-19:36/31 20:40	05:57 18:38-19:58/80 20:42-20:52/10 21:28 07:14-07:36/22	05:30 18:50-19:58/68 22:02 21:01-21:23/22
16	08:43 15:51-16:20/29 17:08	07:58 15:55-16:29/34 18:02	06:59 18:51	06:50 19:02-19:38/36 20:42 07:26-07:35/9	05:55 18:38-19:59/81 20:44-20:51/7 21:30 07:16-07:35/19	05:30 18:50-19:58/68 22:03 21:01-21:24/23
17	08:42 15:50-16:22/32 17:09	07:57 15:57-16:27/30 18:04	06:57 18:52	06:48 18:59-19:41/42 20:43 07:22-07:39/17	05:54 18:38-19:58/80 21:31 07:17-07:32/15	05:30 18:51-19:59/68 22:03 21:02-21:24/22
18	08:41 15:50-16:23/33 17:11	07:55 15:59-16:26/27 18:05	06:55 18:54	06:46 18:57-19:43/46 20:45 07:19-07:41/22	05:52 18:38-19:58/80 21:33 07:20-07:29/9	05:30 18:51-19:59/68 22:03 21:02-21:24/22
19	08:40 15:49-16:25/36 17:12	07:53 16:02-16:23/21 18:07	06:53 18:56	06:44 18:55-19:44/49 20:47 07:17-07:42/25	05:51 18:39-19:59/80 21:34	05:30 18:51-19:59/68 22:04 21:02-21:24/22
20	08:39 16:39-16:43/4 17:14 15:49-16:26/37	07:51 16:05-16:20/15 18:09	06:50 18:57	06:42 18:53-19:46/53 20:48 07:15-07:44/29	05:49 18:39-19:59/80 21:35	05:30 18:51-19:59/68 22:04 21:02-21:24/22
21	08:38 16:36-16:44/8 17:16 15:48-16:26/38	07:49 17:42-17:44/2 18:11	06:48 18:59	06:40 18:51-19:47/56 20:50 07:13-07:45/32	05:48 18:40-19:59/79 21:37	05:30 18:51-19:59/68 22:04 21:02-21:24/22
22	08:37 16:35-16:46/11 17:17 15:48-16:28/40	07:47 17:42-17:46/4 18:12	06:46 19:01	06:38 18:49-19:49/60 20:52 07:12-07:45/33	05:47 18:39-19:58/79 21:38 21:04-21:07/3	05:30 18:52-20:00/68 22:05 21:03-21:25/22
23	08:36 16:35-16:48/13 17:19 15:48-16:29/41	07:45 17:42-17:48/6 18:14	06:44 19:02	06:36 18:48-19:50/62 20:53 07:11-07:46/35	05:46 18:40-19:58/78 21:40 21:02-21:09/7	05:30 18:52-20:00/68 22:05 21:03-21:25/22
24	08:35 16:34-16:50/16 17:21 15:48-16:30/42	07:43 17:43-17:50/7 18:16	06:41 19:04	06:34 18:47-19:51/64 20:55 07:10-07:46/36	05:44 18:40-19:58/78 21:41 21:01-21:10/9	05:31 18:52-20:00/68 22:05 21:03-21:25/22
25	08:34 16:33-16:51/18 17:22 15:47-16:30/43	07:41 17:45-17:50/5 18:18	06:39 19:06	06:32 18:45-19:51/66 20:57 07:09-07:47/38	05:43 18:40-19:58/78 21:42 21:01-21:11/10	05:31 18:53-20:01/68 22:05 21:04-21:26/22
26	08:32 16:33-16:54/21 17:24 15:47-16:32/45	07:39 18:20	06:37 19:07	06:30 18:44-19:52/68 20:58 07:08-07:47/39	05:42 18:41-19:58/77 21:43 21:00-21:12/12	05:31 18:52-20:00/68 22:05 21:04-21:26/22
27	08:31 15:46-16:55/69 17:26	07:36 18:21	06:35 19:09	06:28 18:43-19:53/70 21:00 07:07-07:47/40	05:41 18:41-19:58/77 21:45 20:59-21:13/14	05:32 18:53-20:01/68 22:05 21:04-21:26/22
28	08:30 15:46-16:57/71 17:28	07:34 18:23	06:32 19:10	06:26 18:43-19:54/71 21:01 07:08-07:48/40	05:40 18:42-19:58/76 21:46 20:59-21:14/15	05:32 18:53-20:01/68 22:05 21:04-21:26/22
29	08:28 15:46-16:59/73 17:29		07:30 20:12	06:24 18:42-19:55/73 21:03 07:07-07:48/41	05:39 18:43-19:58/75 21:47 20:59-21:16/17	05:33 18:53-20:02/69 22:05 21:05-21:27/22
30	08:27 15:46-16:59/73 17:31		07:28 20:14	06:22 18:41-19:55/74 21:05 07:07-07:47/40	05:38 18:43-19:58/75 21:48 20:59-21:17/18	05:33 18:53-20:02/69 22:04 21:04-21:27/23
31	08:26 15:46-16:58/72 17:33		07:26 20:15		05:37 18:43-19:58/75 21:49 20:59-21:18/19	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	981	1031	14	1445	3231	2752

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:53-20:02/69	06:09 18:48-20:08/80 20:50-21:04/14	06:57 20:01-20:07/6	07:45 18:54-18:58/4	07:37 16:11-16:22/11	08:26 15:38-15:53/15
	22:04 21:05-21:27/22	21:34 07:20-07:50/30	20:33	19:25	17:21 15:19-16:04/45	16:42
2	05:35 18:52-20:02/70	06:11 18:48-20:09/81 20:50-21:03/13	06:59 20:00-20:04/4	07:46 18:54-18:56/2	07:38 16:09-16:24/15	08:27 15:41-15:52/11
	22:04 21:04-21:27/23	21:32 07:20-07:52/32	20:31	19:23	17:19 15:18-16:05/47	16:42
3	05:35 18:53-20:03/70	06:12 18:48-20:08/80 20:49-21:01/12	07:00 19:59-20:03/4	07:48 18:53-18:54/1	07:40 16:08-16:26/18	08:29
	22:04 21:05-21:27/22	21:30 07:19-07:52/33	20:29	19:21	17:18 15:18-16:05/47	16:41
4	05:36 18:53-20:03/70	06:14 18:47-20:07/80 20:49-20:59/10	07:02 19:58-20:00/2	07:49	07:42 15:17-16:26/69	08:30
	22:03 21:05-21:28/23	21:29 07:19-07:54/35	20:27	19:19	17:16	16:40
5	05:37 18:53-20:04/71	06:15 18:48-20:08/80 20:49-20:58/9	07:03	07:51	07:44 15:17-16:27/70	08:31
	22:03 21:06-21:28/22	21:27 07:18-07:54/36	20:24	19:17	17:14	16:40
6	05:38 18:52-20:04/72	06:17 18:48-20:07/79 20:49-20:56/7	07:05	07:53	07:45 15:17-16:28/71	08:33
	22:02 21:05-21:28/23	21:25 07:17-07:54/37	20:22	19:14	17:12	16:40
7	05:38 18:52-20:04/72	06:18 18:48-20:07/79 20:50-20:55/5	07:07	07:54	07:47 15:17-16:28/71	08:34
	22:02 21:05-21:28/23	21:24 07:17-07:55/38	20:20	19:12	17:11	16:39
8	05:39 18:52-20:05/73	06:20 18:48-20:06/78 20:50-20:53/3	07:08	07:56	07:49 15:17-16:29/72	08:35
	22:01 21:06-21:28/22	21:22 07:16-07:55/39	20:18	19:10	17:09	16:39
9	05:40 18:52-20:05/73	06:21 18:49-20:06/77	07:10	07:58	07:51 15:17-16:29/72	08:36
	22:00 21:06-21:28/22	21:20 07:16-07:56/40	20:15	19:08	17:08	16:39
10	05:41 18:52-20:05/73	06:23 18:48-20:05/77	07:11	07:59	07:52 15:17-16:30/73	08:37
	22:00 21:06-21:28/22	21:18 07:15-07:55/40	20:13	19:05	17:06	16:38
11	05:42 18:52-20:06/74	06:24 18:49-20:05/76	07:13	08:01	07:54 15:18-16:30/72	08:38
	21:59 21:07-21:27/20	21:16 07:16-07:56/40	20:11	19:03	17:04	16:38
12	05:43 18:52-20:06/74	06:26 18:49-20:04/75	07:14	08:02	07:56 15:17-16:30/73	08:39
	21:58 21:07-21:27/20	21:14 07:15-07:55/40	20:09	19:01	17:03	16:38
13	05:44 18:52-20:06/74	06:27 18:49-20:03/74	07:16	08:04	07:57 15:18-16:31/73	08:40
	21:57 21:07-21:26/19	21:13 07:14-07:55/41	20:06	18:59	17:01	16:38
14	05:45 18:51-20:07/76	06:29 18:50-20:02/72	07:18	08:06	07:59 15:18-16:29/71	08:41
	21:56 21:08-21:25/17	21:11 07:15-07:55/40	20:04	18:57	17:00	16:38
15	05:47 18:51-20:07/76	06:31 18:50-20:01/71	07:19	08:07	08:01 15:19-16:28/69	08:42
	21:56 21:08-21:24/16	21:09 07:14-07:54/40	20:02	18:55	16:59	16:38
16	05:48 18:51-20:07/76	06:32 18:51-20:00/69	07:21	08:09	08:03 16:06-16:27/21	08:43
	21:55 21:09-21:23/14	21:07 07:15-07:54/39	20:00	18:53	16:57 15:20-16:05/45	16:38
17	05:49 18:51-20:07/76	06:34 18:51-19:59/68	07:22	08:11 18:15-18:22/7	08:04 16:07-16:25/18	08:44
	21:54 21:09-21:22/13	21:05 07:15-07:53/38	19:57	18:50	16:56 15:21-16:04/43	16:39
18	05:50 18:50-20:07/77	06:35 18:52-19:58/66	07:24	08:13 18:14-18:20/6	08:06 16:08-16:24/16	08:45
	21:53 21:10-21:21/11	21:03 07:16-07:53/37	19:55	18:48	16:55 15:22-16:04/42	16:39
19	05:51 18:50-20:07/77	06:37 18:53-19:56/63	07:25	08:14 18:13-18:18/5	08:08 16:09-16:22/13	08:45
	21:51 21:10-21:20/10	21:01 07:16-07:52/36	19:53	18:46	16:54 15:22-16:03/41	16:39
20	05:53 18:50-20:09/79	06:38 18:54-19:55/61	07:27	08:16 18:13-18:17/4	08:09 16:10-16:21/11	08:46
	21:50 21:12-21:20/8	20:59 07:17-07:52/35	19:50	18:44	16:52 15:23-16:03/40	16:39
21	05:54 18:50-20:08/78	06:40 18:54-19:53/59	07:29	08:18 18:12-18:14/2	08:11 16:12-16:20/8	08:47
	21:49 21:13-21:18/5	20:57 07:17-07:50/33	19:48	18:42 16:40-16:46/6	16:51 15:24-16:02/38	16:40
22	05:55 18:50-20:08/78	06:41 18:56-19:52/56	07:30	08:19 16:34-16:51/17	08:12 16:15-16:19/4	08:47
	21:48 21:15-21:17/2	20:55 07:18-07:49/31	19:46	18:40	16:50 15:25-16:02/37	16:40
23	05:56 18:49-20:08/79	06:43 18:57-19:49/52	07:32	08:21 16:31-16:54/23	08:14 15:26-16:01/35	08:48
	21:47	20:53 07:19-07:47/28	19:44	18:38	16:49	16:41
24	05:58 18:50-20:09/79	06:45 18:59-19:48/49	07:33	08:23 16:29-16:57/28	08:16 15:27-16:00/33	08:48
	21:45	20:50 07:21-07:46/25	19:41	18:36	16:48	16:41
25	05:59 18:49-20:09/80	06:46 19:00-19:45/45	07:35	07:24 15:27-15:58/31	08:17 15:28-16:00/32	08:48
	21:44 07:34-07:37/3	20:48 07:22-07:43/21	19:39	17:34	16:47	16:42
26	06:01 18:49-20:09/80	06:48 19:02-19:43/41	07:37	07:26 15:25-16:00/35	08:19 15:29-15:58/29	08:49
	21:43 07:29-07:41/12	20:46 07:25-07:41/16	19:37	17:32	16:46	16:43
27	06:02 18:48-20:08/80 20:55-20:59/4	06:49 19:04-19:40/36	07:38	07:28 15:23-16:00/37	08:20 15:31-15:58/27	08:49
	21:41 07:28-07:44/16	20:44 07:28-07:36/8	19:35	17:30	16:45	16:44
28	06:03 18:49-20:09/80 20:54-21:02/8	06:51 19:07-19:37/30	07:40	07:30 15:22-16:01/39	08:22 15:33-15:57/24	08:49
	21:40 07:26-07:46/20	20:42	19:32	17:28	16:44	16:44
29	06:05 18:48-20:09/81 20:52-21:03/11	06:52 19:10-19:32/22	07:41	07:31 15:21-16:02/41	08:23 15:34-15:56/22	08:49
	21:38 07:24-07:47/23	20:40	19:30	17:27	16:44	16:45
30	06:06 18:48-20:08/80 20:51-21:03/12	06:54 19:19-19:24/5	07:43 18:56-19:00/4	07:33 15:20-16:03/43	08:25 15:36-15:55/19	08:50
	21:37 07:23-07:49/26	20:38	19:28	17:25	16:43	16:46
31	06:08 18:48-20:09/81 20:50-21:04/14	06:56 20:04-20:07/3		07:35 15:19-16:04/45		08:50
	21:35 07:22-07:50/28	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	2904	2865	20	376	1637	26

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 14:50-15:34/44	08:24 08:58-09:29/31	07:32	07:23 19:36-19:52/16	06:20 07:00-07:25/25	05:37
	16:48 12:37-13:24/47	17:35 17:03-17:05/2	18:25	20:17	21:06	21:51
2	08:50 14:51-15:35/44	08:23 08:57-09:29/32	07:30	07:21 19:34-19:53/19	06:18 07:00-07:24/24	05:36
	16:49 12:38-13:24/46	17:37 17:04-17:07/3	18:27	20:19	21:08	21:52
3	08:49 14:52-15:35/43	08:21 08:56-09:29/33	07:28	07:19 19:33-19:55/22	06:17 07:02-07:24/22	05:35
	16:50 12:39-13:25/46	17:38 17:06-17:07/1	18:28	20:20	21:10	21:53
4	08:49 14:52-15:35/43	08:19 08:57-09:31/34	07:26	07:17 19:33-19:57/24	06:15 07:02-07:22/20	05:34
	16:51 12:39-13:24/45	17:40	18:30	20:22	21:11	21:54
5	08:49 14:53-15:36/43	08:18 08:56-09:31/35	07:24	07:14 19:33-19:58/25	06:13 07:03-07:20/17	05:34
	16:53 12:40-13:24/44	17:42	18:32	20:24	21:13	21:55
6	08:49 14:53-15:35/42	08:16 08:56-09:31/35	07:22	07:12 19:32-19:56/24	06:11 07:06-07:19/13	05:33
	16:54 12:41-13:24/43	17:44	18:33	20:25	21:14	21:56
7	08:48 14:54-15:36/42	08:15 08:55-09:31/36	07:19	07:10 19:32-19:55/23	06:09 07:08-07:16/8	05:32
	16:55 12:42-13:24/42	17:46	18:35	20:27	21:16	21:56
8	08:48 14:54-15:36/42	08:13 08:56-09:32/36	07:17	07:08 19:32-19:54/22	06:08	05:32
	16:56 12:43-13:23/40	17:47	18:37	20:29	21:17	21:57
9	08:48 14:55-15:37/42	08:11 08:56-09:32/36	07:15	07:06 19:33-19:53/20	06:06	05:32
	16:58 12:45-13:24/39	17:49	18:39	20:30	21:19	21:58
10	08:47 14:55-15:37/42	08:09 08:56-09:31/35	07:13	07:03 19:34-19:52/18	06:04	05:31
	16:59 12:46-13:23/37	17:51	18:40	20:32	21:21	21:59
11	08:46 14:56-15:37/41	08:08 08:56-09:31/35	07:11	07:01 19:35-19:51/16	06:03	05:31
	17:00 12:47-13:22/35	17:53	18:42	20:34	21:22	22:00
12	08:46 14:57-15:37/40	08:06 08:57-09:31/34	07:08	06:59 19:36-19:48/12	06:01	05:30
	17:02 12:49-13:22/33	17:55	18:44	20:35	21:24	22:00
13	08:45 14:58-15:37/39	08:04 08:57-09:30/33	07:06	06:57 19:40-19:44/4	06:00	05:30
	17:03 12:51-13:21/30	17:56	18:45	20:37	21:25	22:01
14	08:44 14:58-15:37/39	08:02 08:58-09:29/31	07:04	06:55	05:58	05:30
	17:05 12:53-13:20/27	17:58	18:47	20:38	21:27	22:02
15	08:44 14:59-15:37/38	08:00 08:58-09:28/30	07:02	06:53	05:57	05:30
	17:06 12:55-13:18/23	18:00	18:49	20:40	21:28	22:02
16	08:43 15:00-15:37/37	07:58 08:59-09:27/28	06:59 18:25-18:26/1	06:50	05:55	05:30
	17:08 12:58-13:15/17	18:02	18:51	20:42	21:30	22:03
17	08:42 15:01-15:37/36	07:57 09:00-09:26/26	06:57 18:24-18:27/3	06:48 07:11-07:22/11	05:54	05:30
	17:09 13:07-13:10/3	18:04	18:52	20:43	21:31	22:03
18	08:41 15:02-15:37/35	07:55 09:02-09:24/22	06:55 18:25-18:29/4	06:46 07:09-07:24/15	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 15:03-15:36/33	07:53 09:04-09:21/17	06:53 18:26-18:31/5	06:44 07:07-07:25/18	05:51	05:30
	17:13	18:07	18:56	20:47	21:34	22:04
20	08:39 15:05-15:36/31	07:51 09:07-09:18/11	06:50	06:42 07:05-07:26/21	05:49	05:30
	17:14	18:09 17:40-17:42/2	18:57	20:48	21:35	22:04
21	08:38 15:05-15:35/30	07:49 17:42-17:44/2	06:48	06:40 07:03-07:27/24	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 15:07-15:34/27	07:47	06:46	06:38 07:02-07:27/25	05:47	05:30
	17:17	18:13	19:01	20:52	21:38	22:05
23	08:36 15:09-15:33/24	07:45	06:44	06:36 07:01-07:28/27	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 15:12-15:32/20	07:43	06:41	06:34 07:00-07:28/28	05:45	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 15:14-15:30/16	07:41	06:39	06:32 07:00-07:28/28	05:43	05:31
	17:23 09:06-09:17/11	18:18	19:06	20:57	21:42	22:05
26	08:32 15:19-15:27/8	07:39	06:37	06:30 06:59-07:27/28	05:42	05:31
	17:24 09:04-09:20/16	18:20	19:07	20:58	21:43	22:05
27	08:31 09:02-09:22/20	07:36	06:35	06:28 06:59-07:27/28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 09:01-09:24/23	07:34	06:32	06:26 07:00-07:28/28	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:00-09:25/25		07:30 19:42-19:47/5	06:24 07:00-07:27/27	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 08:59-09:27/28		07:28 19:39-19:49/10	06:22 07:00-07:26/26	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:26 08:58-09:27/29		07:26 19:37-19:50/13		05:37	
	17:33 17:01-17:03/2		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1672	620	41	579	129	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57	19:34-19:50/16	07:45		07:37	08:26-09:01/35	08:26	14:38-15:19/41
	22:04	21:34		20:33		19:25		17:21		16:42	12:29-13:04/35
2	05:35	06:11		06:59	19:32-19:50/18	07:46		07:38	08:26-09:01/35	08:27	14:38-15:20/42
	22:04	21:32		20:31		19:23		17:19		16:42	12:29-13:06/37
3	05:35	06:12		07:00	19:31-19:52/21	07:48		07:40	08:26-09:02/36	08:29	14:38-15:20/42
	22:04	21:30		20:29		19:21		17:18		16:41	12:28-13:07/39
4	05:36	06:14		07:02	19:29-19:51/22	07:49		07:42	08:25-09:01/36	08:30	14:39-15:21/42
	22:03	21:29		20:27		19:19		17:16		16:40	12:28-13:08/40
5	05:37	06:15		07:03	19:29-19:52/23	07:51		07:44	08:25-09:01/36	08:31	14:39-15:21/42
	22:03	21:27		20:24		19:17		17:14		16:40	12:27-13:09/42
6	05:38	06:17	07:16-07:26/10	07:05	19:28-19:52/24	07:53		07:45	08:26-09:01/35	08:33	14:39-15:21/42
	22:02	21:25		20:22		19:14		17:12		16:40	12:27-13:10/43
7	05:38	06:18	07:14-07:29/15	07:07	19:28-19:53/25	07:54		07:47	08:26-09:00/34	08:34	14:40-15:23/43
	22:02	21:24		20:20		19:12		17:11		16:39	12:27-13:11/44
8	05:39	06:20	07:12-07:30/18	07:08	19:27-19:51/24	07:56		07:49	08:27-09:00/33	08:35	14:40-15:23/43
	22:01	21:22		20:18		19:10		17:09	16:36-16:39/3	16:39	12:27-13:12/45
9	05:40	06:21	07:12-07:32/20	07:10	19:28-19:49/21	07:58		07:50	08:28-09:00/32	08:36	14:40-15:23/43
	22:00	21:20		20:15		19:08		17:08	16:34-16:38/4	16:39	12:27-13:13/46
10	05:41	06:23	07:10-07:32/22	07:11	19:27-19:46/19	07:59		07:52	08:29-08:59/30	08:37	14:40-15:24/44
	22:00	21:18		20:13		19:05		17:06	16:33-16:36/3	16:38	12:27-13:13/46
11	05:42	06:24	07:10-07:34/24	07:13	19:28-19:45/17	08:01		07:54	08:30-08:59/29	08:38	14:40-15:24/44
	21:59	21:16		20:11		19:03		17:04	16:33-16:35/2	16:38	12:27-13:14/47
12	05:43	06:26	07:08-07:34/26	07:14	19:28-19:42/14	08:02		07:56	08:31-08:58/27	08:39	14:41-15:24/43
	21:58	21:14		20:09		19:01		17:03		16:38	12:27-13:15/48
13	05:44	06:27	07:08-07:35/27	07:16	19:30-19:40/10	08:04		07:57	08:32-08:57/25	08:40	14:41-15:25/44
	21:57	21:13		20:06		18:59		17:01		16:38	12:27-13:16/49
14	05:45	06:29	07:07-07:35/28	07:18	19:32-19:37/5	08:06		07:59	08:33-08:56/23	08:41	14:42-15:25/43
	21:56	21:11		20:04		18:57		17:00		16:38	12:27-13:16/49
15	05:47	06:31	07:06-07:34/28	07:19		08:07		08:01	08:35-08:55/20	08:42	14:42-15:26/44
	21:56	21:09		20:02		18:55		16:59		16:38	12:28-13:17/49
16	05:48	06:32	07:07-07:35/28	07:21		08:09		08:02	14:52-15:00/8	08:43	14:43-15:27/44
	21:55	21:07		20:00		18:53		16:57	08:37-08:53/16	16:38	12:28-13:18/50
17	05:49	06:34	07:06-07:34/28	07:22		08:11		08:04	14:48-15:04/16	08:44	14:43-15:27/44
	21:54	21:05		19:57		18:50		16:56	08:40-08:51/11	16:39	12:29-13:19/50
18	05:50	06:35	07:06-07:34/28	07:24		08:12		08:06	14:46-15:06/20	08:45	14:43-15:27/44
	21:52	21:03		19:55		18:48		16:55		16:39	12:28-13:18/50
19	05:51	06:37	07:06-07:33/27	07:25		08:14		08:07	14:43-15:07/24	08:45	14:44-15:28/44
	21:51	21:01		19:53		18:46		16:54		16:39	12:29-13:19/50
20	05:53	06:38	07:07-07:33/26	07:27		08:16	18:15-18:17/2	08:09	14:42-15:09/27	08:46	14:45-15:29/44
	21:50	20:59		19:50		18:44		16:52		16:40	12:30-13:20/50
21	05:54	06:40	07:07-07:32/25	07:29		08:18	18:11-18:14/3	08:11	14:41-15:11/30	08:47	14:45-15:29/44
	21:49	20:57		19:48		18:42		16:51		16:40	12:30-13:20/50
22	05:55	06:41	07:08-07:32/24	07:30		08:19	09:36-09:50/14	08:12	14:41-15:12/31	08:47	14:46-15:30/44
	21:48	20:55		19:46		18:40	18:10-18:12/2	16:50		16:40	12:31-13:21/50
23	05:57	06:43	07:09-07:30/21	07:32		08:21	09:34-09:52/18	08:14	14:39-15:12/33	08:48	14:46-15:30/44
	21:47	20:53		19:44		18:38		16:49		16:41	12:31-13:21/50
24	05:58	06:45	07:11-07:29/18	07:33	19:10-19:15/5	08:23	09:32-09:55/23	08:16	14:39-15:14/35	08:48	14:46-15:30/44
	21:45	20:50		19:41		18:36		16:48		16:41	12:31-13:21/50
25	05:59	06:46	07:12-07:26/14	07:35	19:08-19:12/4	07:24	08:31-08:56/25	08:17	14:39-15:15/36	08:48	14:47-15:31/44
	21:44	20:48		19:39		17:34		16:47	12:46-12:47/1	16:42	12:32-13:22/50
26	06:01	06:48	07:14-07:24/10	07:37	19:07-19:10/3	07:26	08:29-08:58/29	08:19	14:38-15:15/37	08:49	14:47-15:31/44
	21:43	20:46		19:37		17:32		16:46	12:36-12:53/17	16:43	12:33-13:23/50
27	06:02	06:49		07:38	19:07-19:08/1	07:28	08:28-08:58/30	08:20	14:38-15:16/38	08:49	14:48-15:32/44
	21:41	20:44		19:35		17:30		16:45	12:34-12:57/23	16:44	12:33-13:23/50
28	06:03	06:51		07:40		07:30	08:27-08:59/32	08:22	14:38-15:17/39	08:49	14:48-15:32/44
	21:40	20:42		19:32		17:28		16:44	12:33-12:59/26	16:44	12:34-13:23/49
29	06:05	06:52		07:41		07:31	08:26-09:00/34	08:23	14:38-15:17/39	08:49	14:48-15:32/44
	21:38	20:40		19:30		17:27		16:44	12:31-13:01/30	16:45	12:34-13:23/49
30	06:06	06:54	19:41-19:45/4	07:43		07:33	08:26-09:00/34	08:25	14:38-15:19/41	08:50	14:49-15:33/44
	21:37	20:38		19:28		17:25		16:43	12:30-13:03/33	16:46	12:35-13:23/48
31	06:08	06:56	19:36-19:48/12			07:35	08:26-09:01/35			08:50	14:49-15:33/44
	21:35	20:35				17:23				16:47	12:36-13:24/48
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	483		272		281		1089		2799	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	08:12-08:31/19	06:20		05:36	
	16:48	17:35	18:25		20:17		21:06		21:51	
2	08:50	08:22	07:30		07:21	08:15-08:28/13	06:18		05:36	
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28		07:19		06:16		05:35	
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26		07:16		06:15		05:34	
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24		07:14		06:13		05:33	
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21		07:12		06:11		05:33	
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19		07:10		06:09		05:32	
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17		07:08		06:08		05:32	
	16:56	17:47	18:37		20:29		21:17		21:57	
9	08:47	08:11	07:15		07:05		06:06		05:31	
	16:57	17:49	18:38		20:30		21:19		21:58	
10	08:47	08:09	07:13		07:03		06:04		05:31	
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:46	08:08	07:10		07:01		06:03	06:28-06:29/1	05:30	06:00-06:01/1
	17:00	17:53	18:42		20:33		21:22		22:00	
12	08:46	08:06	07:08	07:31-07:32/1	06:59		06:01	06:26-06:29/3	05:30	05:59-06:00/1
	17:02	17:54	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	07:29-07:37/8	06:57		05:59	06:25-06:29/4	05:30	05:59-06:00/1
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	07:26-07:38/12	06:55		05:58	06:23-06:28/5	05:30	05:59-06:00/1
	17:05	17:58	18:47		20:38		21:27		22:02	
15	08:44	08:00	07:02	07:24-07:40/16	06:52		05:56	06:22-06:28/6	05:30	05:59-06:00/1
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:22-07:42/20	06:50		05:55	06:21-06:28/7	05:29	05:59-06:00/1
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	07:19-07:42/23	06:48		05:53	06:19-06:27/8	05:29	05:59-06:00/1
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	07:17-07:43/26	06:46		05:52	06:18-06:26/8	05:29	05:59-06:00/1
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:53	07:15-07:43/28	06:44		05:51	06:17-06:25/8	05:29	05:59-06:00/1
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50	07:13-07:44/31	06:42		05:49	06:19-06:24/5	05:29	05:59-06:00/1
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48	07:10-07:43/33	06:40		05:48		05:30	06:00-06:01/1
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46	07:08-07:43/35	06:38		05:47		05:30	06:00-06:01/1
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:43	07:08-07:43/35	06:36		05:45		05:30	06:00-06:01/1
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41	07:08-07:43/35	06:34		05:44		05:30	06:00-06:01/1
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:40	06:39	07:08-07:42/34	06:32		05:43		05:31	06:01-06:02/1
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37	07:08-07:41/33	06:30		05:42		05:31	06:01-06:02/1
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34	07:08-07:40/32	06:28		05:41		05:31	06:02-06:03/1
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32	07:08-07:39/31	06:26		05:40		05:32	06:02-06:03/1
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	08:09-08:37/28	06:24		05:39		05:32	06:03-06:04/1
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	08:10-08:36/26	06:22		05:38		05:33	06:03-06:04/1
	17:31		20:14		21:05		21:48		22:04	
31	08:25		07:25	08:12-08:34/22			05:37			
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	509		32		55		20	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34	06:04-06:05/1	06:09	06:37-06:39/2	06:57		07:44	08:09-08:14/5	07:36	08:26
	22:04		21:34		20:33		19:25		17:21	16:42
2	05:34	06:04-06:05/1	06:10		06:59		07:46		07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35		06:12		07:00		07:48		07:40	08:29
	22:04		21:30		20:29		19:21		17:17	16:41
4	05:36		06:13		07:02		07:49		07:42	08:30
	22:03		21:29		20:27		19:19		17:16	16:40
5	05:37		06:15		07:03		07:51		07:43	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37		06:16		07:05		07:52		07:45	08:33
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38		06:18		07:06		07:54		07:47	08:34
	22:02		21:24		20:20		19:12		17:11	16:39
8	05:39		06:19		07:08		07:56		07:49	08:35
	22:01		21:22		20:18		19:10		17:09	16:39
9	05:40		06:21		07:10		07:57		07:50	08:36
	22:00		21:20		20:15		19:08		17:07	16:38
10	05:41		06:23		07:11	08:09-08:21/12	07:59		07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42		06:24		07:13	08:06-08:24/18	08:01		07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43		06:26		07:14	08:03-08:25/22	08:02		07:56	08:39
	21:58		21:14		20:09		19:01		17:03	16:38
13	05:44		06:27		07:16	08:02-08:27/25	08:04		07:57	08:40
	21:57		21:12		20:06		18:59		17:01	16:38
14	05:45		06:29		07:17	08:00-08:28/28	08:06		07:59	08:41
	21:56		21:11		20:04		18:57		17:00	16:38
15	05:46		06:30		07:19	07:59-08:29/30	08:07		08:01	08:42
	21:56		21:09		20:02		18:55		16:58	16:38
16	05:47		06:32		07:21	07:57-08:29/32	08:09		08:02	08:43
	21:55		21:07		19:59		18:52		16:57	16:38
17	05:49		06:33		07:22	07:56-08:29/33	08:11		08:04	08:44
	21:54		21:05		19:57		18:50		16:56	16:38
18	05:50		06:35		07:24	07:55-08:29/34	08:12		08:06	08:45
	21:52		21:03		19:55		18:48		16:55	16:39
19	05:51		06:37		07:25	07:55-08:29/34	08:14		08:07	08:45
	21:51		21:01		19:53		18:46		16:53	16:39
20	05:52		06:38		07:27	07:55-08:30/35	08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54		06:40		07:28	07:54-08:29/35	08:17		08:11	08:47
	21:49		20:57		19:48		18:42		16:51	16:40
22	05:55		06:41		07:30	07:55-08:29/34	08:19		08:12	08:47
	21:48		20:55		19:46		18:40		16:50	16:40
23	05:56		06:43		07:32	07:56-08:27/31	08:21		08:14	08:48
	21:47		20:52		19:43		18:38		16:49	16:41
24	05:58	06:29-06:35/6	06:44		07:33	07:58-08:27/29	08:23		08:16	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59	06:28-06:36/8	06:46		07:35	07:59-08:25/26	07:24		08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00	06:29-06:37/8	06:48		07:36	08:01-08:25/24	07:26		08:19	08:49
	21:43		20:46		19:37		17:32		16:46	16:43
27	06:02	06:30-06:38/8	06:49		07:38	08:03-08:24/21	07:28		08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03	06:32-06:39/7	06:51		07:40	08:04-08:22/18	07:30		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:05	06:33-06:39/6	06:52		07:41	08:06-08:20/14	07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06	06:34-06:39/5	06:54		07:43	08:07-08:17/10	07:33		08:25	08:50
	21:37		20:38		19:28		17:25		16:43	16:46
31	06:07	06:36-06:39/3	06:55				07:35			08:50
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	53		2		545		5		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: KLZ_WT19 - VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 13:56-14:53/57 09:36-10:09/33 16:48 11:31-12:19/48	08:24 13:51-15:19/88 17:35	07:32 14:09-15:06/57 07:58-08:14/16 18:25 08:22-08:39/17	07:23 07:46-08:10/24 20:17 18:12-18:47/35	06:20 21:06	05:36 06:14-06:46/32 21:50
2	08:49 13:56-14:54/58 09:37-10:10/33 16:49 11:31-12:19/48	08:22 13:51-15:19/88 17:36	07:30 14:11-15:04/53 07:59-08:13/14 18:26 08:24-08:37/13	07:21 07:43-08:09/26 20:19 18:14-18:46/32	06:18 21:08	05:36 06:14-06:47/33 21:52
3	08:49 13:55-14:54/59 09:37-10:10/33 16:50 11:31-12:19/48	08:21 13:51-15:19/88 17:38	07:28 14:15-15:02/47 08:00-08:12/12 18:28 08:29-08:31/2	07:19 07:43-08:08/25 20:20 18:16-18:43/27	06:16 21:09	05:35 06:14-06:47/33 21:53
4	08:49 13:55-14:55/60 09:37-10:10/33 16:51 11:32-12:19/47	08:19 13:51-15:20/89 17:40	07:26 17:34-17:39/5 08:02-08:10/8 18:30 14:18-14:59/41	07:17 07:43-08:07/24 20:22 18:19-18:41/22	06:15 21:11	05:34 06:13-06:46/33 21:54
5	08:49 13:56-14:57/61 09:38-10:11/33 16:53 11:34-12:19/45	08:18 13:51-15:20/89 17:42	07:24 17:27-17:45/18 07:46-07:50/4 18:32 14:22-14:55/33	07:14 07:44-08:06/22 20:24 18:23-18:37/14	06:13 21:13	05:34 06:14-06:47/33 21:55
6	08:49 13:55-14:57/62 09:38-10:11/33 16:54 11:34-12:19/45	08:16 13:51-15:20/89 17:44	07:21 17:23-17:48/25 07:44-07:53/9 18:33 14:28-14:50/22	07:12 07:44-08:03/19 20:25	06:11 21:14	05:33 06:14-06:47/33 21:55
7	08:48 13:55-14:58/63 09:38-10:12/34 16:55 11:35-12:19/44	08:14 13:51-15:20/89 17:45	07:19 17:21-17:51/30 18:35 07:42-07:55/13	07:10 07:46-08:01/15 20:27	06:09 21:16	05:32 06:14-06:48/34 21:56
8	08:48 13:55-14:59/64 09:38-10:12/34 16:56 11:36-12:19/43	08:13 13:52-15:21/89 17:47	07:17 17:19-17:53/34 18:37 07:40-07:56/16	07:08 20:29	06:08 21:17	05:32 06:15-06:48/33 21:57
9	08:47 13:55-15:01/66 09:39-10:13/34 16:58 11:37-12:19/42	08:11 13:51-15:20/89 17:49	07:15 17:16-17:53/37 18:39 07:38-07:57/19	07:05 20:30	06:06 21:19	05:31 06:14-06:48/34 21:58
10	08:47 13:55-15:01/66 09:40-10:13/33 16:59 11:38-12:19/41	08:09 13:51-15:20/89 17:51	07:13 17:15-17:55/40 18:40 07:35-07:56/21	07:03 20:32	06:04 21:20	05:31 06:15-06:48/33 21:59
11	08:46 13:54-15:02/68 09:40-10:13/33 17:00 11:39-12:18/39	08:08 13:52-15:20/88 17:53	07:10 17:14-17:56/42 18:42 07:34-07:56/22	07:01 20:33	06:03 21:22	05:31 06:15-06:49/34 22:00
12	08:46 13:54-15:03/69 09:41-10:14/33 17:02 11:40-12:17/37	08:06 13:52-15:20/88 17:54	07:08 17:13-17:57/44 18:44 07:34-07:56/22	06:59 20:35	06:01 21:24	05:30 06:15-06:48/33 22:00
13	08:45 13:54-15:04/70 09:41-10:14/33 17:03 11:42-12:18/36	08:04 13:52-15:20/88 17:56 08:28-08:36/8	07:06 17:11-17:57/46 18:45 07:34-07:56/22	06:57 20:37	05:59 21:25	05:30 06:15-06:49/34 22:01
14	08:44 13:54-15:05/71 09:42-10:14/32 17:05 11:43-12:17/34	08:02 13:52-15:19/87 17:58 08:26-08:39/13	07:04 17:10-17:58/48 18:47 07:34-07:54/20	06:55 20:38	05:58 21:27	05:30 06:15-06:49/34 22:01
15	08:44 13:54-15:06/72 09:42-10:14/32 17:06 11:45-12:16/31	08:00 13:53-15:19/86 18:00 08:24-08:41/17	07:02 17:10-17:59/49 18:49 07:35-07:54/19	06:52 20:40	05:56 21:28	05:30 06:16-06:49/33 22:02
16	08:43 13:54-15:07/73 09:43-10:14/31 17:08 11:46-12:15/29	07:58 13:53-15:19/86 18:02 08:22-08:42/20	06:59 17:09-17:59/50 18:50 07:36-07:52/16	06:50 20:42	05:55 21:30	05:30 06:16-06:49/33 22:02
17	08:42 13:53-15:08/75 09:44-10:14/30 17:09 11:48-12:13/25	07:56 13:54-15:18/84 18:03 08:21-08:43/22	06:57 17:08-17:59/51 18:52 07:37-07:51/14	06:48 07:11-07:14/3 20:43	05:53 06:28-06:29/1 21:31	05:29 06:16-06:50/34 22:03
18	08:41 13:53-15:09/76 09:44-10:14/30 17:11 11:51-12:11/20	07:55 13:54-15:18/84 18:05 08:20-08:44/24	06:55 17:07-17:59/52 18:54 07:39-07:47/8	06:46 07:09-07:14/5 20:45	05:52 06:23-06:34/11 21:32	05:29 06:16-06:50/34 22:03
19	08:40 13:53-15:10/77 09:45-10:14/29 17:12 11:54-12:08/14	07:53 13:55-15:17/82 18:07 08:19-08:45/26	06:53 17:07-17:59/52 18:55	06:44 07:07-07:14/7 20:47	05:51 06:21-06:37/16 21:34	05:29 06:16-06:50/34 22:04
20	08:39 13:52-15:10/78 17:14 09:46-10:14/28	07:51 13:56-15:17/81 18:09 08:18-08:45/27	06:50 17:07-17:59/52 18:57	06:42 07:05-07:13/8 20:48	05:49 06:20-06:38/18 21:35	05:30 06:16-06:50/34 22:04
21	08:38 13:52-15:11/79 17:16 09:46-10:13/27	07:49 13:57-15:16/79 18:11 08:18-08:45/27	06:48 17:06-17:58/52 18:59	06:40 07:03-07:12/9 20:50	05:48 06:19-06:40/21 21:37	05:30 06:16-06:50/34 22:04
22	08:37 13:52-15:12/80 17:17 09:48-10:12/24	07:47 13:58-15:15/77 08:10-08:12/2 18:12 08:18-08:45/27	06:46 17:07-17:58/51 19:00	06:38 07:02-07:11/9 20:52	05:47 06:17-06:40/23 21:38	05:30 06:17-06:51/34 22:04
23	08:36 13:52-15:13/81 17:19 09:49-10:12/23	07:45 13:59-15:14/75 08:08-08:14/6 18:14 08:18-08:45/27	06:44 17:07-17:58/51 19:02	06:36 07:04-07:08/4 20:53	05:46 06:16-06:41/25 21:39	05:30 06:17-06:51/34 22:05
24	08:35 13:51-15:13/82 17:21 09:51-10:11/20	07:43 14:00-15:14/74 08:06-08:15/9 18:16 08:18-08:45/27	06:41 17:06-17:56/50 19:04	06:34 20:55	05:44 06:16-06:42/26 21:41	05:30 06:17-06:51/34 22:05
25	08:33 13:52-15:14/82 17:22 09:52-10:09/17	07:40 14:02-15:13/71 08:04-08:15/11 18:18 08:19-08:44/25	06:39 07:01-07:04/3 19:05 17:07-17:56/49	06:32 20:56	05:43 06:15-06:42/27 21:42	05:31 06:18-06:52/34 22:05
26	08:32 13:52-15:15/83 17:24 09:55-10:07/12	07:38 14:03-15:11/68 08:02-08:16/14 18:19 08:19-08:44/25	06:37 06:59-07:07/8 19:07 17:07-17:55/48	06:30 20:58	05:42 06:15-06:43/28 21:43	05:31 06:18-06:52/34 22:05
27	08:31 13:51-15:15/84 17:26 09:58-10:03/5	07:36 14:04-15:09/65 08:00-08:16/16 18:21 08:20-08:43/23	06:34 06:57-07:09/12 19:09 17:08-17:55/47	06:28 21:00	05:41 06:14-06:44/30 21:45	05:32 06:19-06:52/33 22:05
28	08:30 13:51-15:16/85 17:28	07:34 14:06-15:08/62 07:57-08:15/18 18:23 08:20-08:41/21	06:32 06:55-07:10/15 19:10 17:08-17:53/45	06:26 21:01	05:40 06:14-06:44/30 21:46	05:32 06:18-06:52/34 22:05
29	08:28 13:51-15:16/85 17:29		07:30 07:52-08:10/18 20:12 18:09-18:52/43	06:24 21:03	05:39 06:15-06:45/30 21:47	05:33 06:19-06:53/34 22:05
30	08:27 13:51-15:18/87 17:31		07:28 07:50-08:10/20 20:14 18:10-18:51/41	06:22 21:05	05:38 06:14-06:45/31 21:48	05:33 06:19-06:52/33 22:04
31	08:25 13:51-15:18/87 17:33		07:25 07:48-08:10/22 20:15 18:11-18:50/39		05:37 06:14-06:46/32 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	3748	2747	1849	330	349	1006

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: KLZ_WT19 - VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250,0 m) (71)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:19-06:53/34 22:04	06:09 21:34	06:57 20:33	07:44 17:51-18:36/45 19:25 08:13-08:35/22	07:36 13:21-14:50/89 17:21	08:26 13:36-14:44/68 09:22-09:55/33 16:42 11:21-12:00/39
2	05:34 06:19-06:53/34 22:04	06:11 21:32	06:59 20:31	07:46 17:52-18:36/44 19:23 08:13-08:35/22	07:38 13:21-14:50/89 17:19	08:27 13:38-14:44/66 09:23-09:56/33 16:41 11:21-12:02/41
3	05:35 06:19-06:53/34 22:03	06:12 21:30	07:00 20:29	07:48 17:52-18:33/41 19:21 08:12-08:34/22	07:40 13:20-14:49/89 17:17	08:29 13:38-14:44/66 09:23-09:56/33 16:41 11:20-12:02/42
4	05:36 06:20-06:54/34 22:03	06:13 21:29	07:02 20:27	07:49 17:54-18:32/38 19:19 08:14-08:34/20	07:42 13:20-14:49/89 17:16	08:30 13:40-14:44/64 09:23-09:57/34 16:40 11:21-12:04/43
5	05:37 06:20-06:54/34 22:03	06:15 21:27	07:03 07:43-07:58/15 20:24	07:51 17:55-18:30/35 19:16 08:16-08:33/17	07:43 13:20-14:49/89 17:14	08:31 13:40-14:44/64 09:24-09:57/33 16:40 11:20-12:04/44
6	05:37 06:20-06:53/33 22:02	06:17 21:25	07:05 07:40-07:59/19 20:22	07:52 17:56-18:28/32 19:14 08:17-08:31/14	07:45 13:21-14:49/88 17:12	08:33 13:41-14:43/62 09:24-09:57/33 16:39 11:20-12:05/45
7	05:38 06:20-06:54/34 22:02	06:18 21:23	07:06 07:39-08:01/22 20:20 18:18-18:32/14	07:54 17:58-18:25/27 08:19-08:30/11 19:12 15:09-15:22/13	07:47 13:21-14:49/88 17:11	08:34 13:42-14:43/61 09:25-09:58/33 16:39 11:21-12:07/46
8	05:39 06:21-06:54/33 22:01	06:20 21:22	07:08 07:37-08:01/24 20:18 18:13-18:35/22	07:56 18:01-18:23/22 08:21-08:28/7 19:10 15:01-15:29/28	07:49 13:21-14:49/88 17:09	08:35 13:43-14:43/60 09:25-09:58/33 16:39 11:21-12:07/46
9	05:40 06:21-06:54/33 22:00	06:21 21:20	07:10 07:37-08:02/25 20:15 18:10-18:37/27	07:57 18:04-18:18/14 08:38-08:41/3 19:08 14:55-15:32/37	07:50 13:22-14:49/87 17:07	08:36 13:44-14:43/59 09:25-09:58/33 16:39 11:21-12:08/47
10	05:41 06:21-06:54/33 22:00	06:23 21:18	07:11 07:36-08:02/26 20:13 18:07-18:39/32	07:59 14:51-15:35/44 19:05 08:35-08:45/10	07:52 13:22-14:49/87 17:06	08:37 13:45-14:43/58 09:26-09:59/33 16:38 11:21-12:08/47
11	05:42 06:22-06:54/32 21:59	06:24 21:16	07:13 07:38-08:02/24 20:11 18:06-18:40/34	08:01 14:47-15:37/50 08:33-08:47/14 19:03 09:00-09:09/9	07:54 13:22-14:48/86 17:04	08:38 13:46-14:43/57 09:26-09:59/33 16:38 11:21-12:09/48
12	05:43 06:22-06:54/32 21:58	06:26 21:14	07:14 07:39-08:01/22 20:09 18:03-18:41/38	08:02 14:43-15:38/55 08:32-08:48/16 19:01 08:57-09:12/15	07:56 13:22-14:48/86 17:03	08:39 13:46-14:43/57 09:27-09:59/32 16:38 11:21-12:09/48
13	05:44 06:23-06:54/31 21:57	06:27 21:12	07:16 07:41-08:01/20 20:06 18:02-18:42/40	08:04 14:41-15:40/59 08:31-08:48/17 18:59 08:54-09:13/19	07:57 13:23-14:48/85 17:01	08:40 13:47-14:43/56 09:27-10:00/33 16:38 11:21-12:10/49
14	05:45 06:23-06:54/31 21:56	06:29 21:11	07:17 07:42-08:00/18 20:04 17:59-18:42/43	08:06 14:39-15:42/63 08:31-08:48/17 18:57 08:53-09:14/21	07:59 13:23-14:48/85 17:00	08:41 13:48-14:43/55 09:28-10:00/32 16:38 11:21-12:11/50
15	05:46 06:23-06:54/31 21:55	06:30 21:09	07:19 07:44-07:59/15 20:02 17:58-18:43/45	08:07 14:37-15:43/66 08:33-08:48/15 18:55 08:52-09:15/23	08:01 13:24-14:48/84 16:59 09:31-09:37/6	08:42 13:49-14:43/54 09:28-10:01/33 16:38 11:22-12:12/50
16	05:48 06:24-06:53/29 21:54	06:32 21:07	07:21 07:45-07:57/12 19:59 17:57-18:43/46	08:09 14:34-15:43/69 08:35-08:48/13 18:52 08:51-09:16/25	08:02 13:25-14:48/83 16:57 09:28-09:41/13	08:43 13:50-14:43/53 09:29-10:01/32 16:38 11:22-12:12/50
17	05:49 06:24-06:53/29 21:53	06:34 21:05	07:22 07:47-07:56/9 19:57 17:56-18:44/48	08:11 14:32-15:44/72 08:36-08:46/10 18:50 08:50-09:16/26	08:04 13:26-14:48/82 16:56 09:26-09:43/17	08:44 13:51-14:44/53 09:30-10:02/32 16:38 11:23-12:13/50
18	05:50 06:25-06:52/27 21:52	06:35 21:03	07:24 07:49-07:53/4 19:55 17:54-18:43/49	08:12 14:31-15:45/74 08:38-08:46/8 18:48 08:49-09:16/27	08:06 13:25-14:47/82 16:55 09:24-09:44/20	08:45 13:51-14:43/52 09:29-10:02/33 16:39 11:23-12:13/50
19	05:51 06:25-06:52/27 21:51	06:37 21:01	07:25 17:54-18:44/50 19:53	08:14 14:30-15:46/76 08:40-08:45/5 18:46 08:49-09:17/28	08:07 13:26-14:47/81 16:53 09:23-09:46/23	08:45 13:52-14:44/52 09:30-10:02/32 16:39 11:23-12:14/51
20	05:52 06:27-06:52/25 21:50	06:38 07:09-07:15/6 20:59	07:27 17:53-18:44/51 19:50	08:16 14:29-15:47/78 18:44 08:49-09:17/28	08:09 13:27-14:47/80 16:52 09:23-09:47/24	08:46 13:53-14:45/52 09:31-10:03/32 16:39 11:24-12:15/51
21	05:54 06:27-06:51/24 21:49	06:40 07:07-07:16/9 20:57	07:28 17:52-18:43/51 19:48	08:17 14:27-15:47/80 18:42 08:49-09:16/27	08:11 13:28-14:47/79 16:51 09:22-09:49/27	08:46 13:53-14:45/52 09:31-10:03/32 16:40 11:24-12:15/51
22	05:55 06:28-06:50/22 21:48	06:41 07:08-07:17/9 20:55	07:30 17:52-18:44/52 19:46	08:19 14:26-15:47/81 18:40 08:49-09:15/26	08:12 13:29-14:47/78 16:50 09:22-09:50/28	08:47 13:54-14:46/52 09:32-10:04/32 16:40 11:25-12:16/51
23	05:56 06:29-06:49/20 21:46	06:43 07:09-07:17/8 20:52	07:32 17:51-18:43/52 19:44	08:21 14:25-15:48/83 18:38 08:50-09:15/25	08:14 13:29-14:46/77 09:21-09:50/29 16:49 11:30-11:44/14	08:48 13:54-14:46/52 09:32-10:04/32 16:41 11:25-12:16/51
24	05:58 06:31-06:48/17 21:45	06:44 07:11-07:18/7 20:50	07:33 17:51-18:43/52 19:41	08:23 14:25-15:48/83 18:36 08:50-09:14/24	08:15 13:30-14:46/76 09:21-09:51/30 16:48 11:28-11:48/20	08:48 13:54-14:46/52 09:32-10:04/32 16:41 11:25-12:16/51
25	05:59 06:33-06:46/13 21:44	06:46 07:12-07:17/5 20:48	07:35 17:50-18:42/52 19:39 08:24-08:27/3	07:24 13:24-14:49/85 17:34 07:51-08:14/23	08:17 13:31-14:46/75 09:22-09:52/30 16:47 11:26-11:51/25	08:48 13:55-14:47/52 09:33-10:05/32 16:42 11:27-12:17/50
26	06:00 06:35-06:43/8 21:42	06:48 07:14-07:17/3 20:46	07:36 17:50-18:41/51 19:37 08:20-08:31/11	07:26 13:22-14:48/86 17:32 07:53-08:12/19	08:19 13:32-14:45/73 09:21-09:52/31 16:46 11:24-11:53/29	08:49 13:55-14:48/53 09:34-10:06/32 16:43 11:27-12:17/50
27	06:02 21:41	06:49 20:44	07:38 17:51-18:41/50 19:34 08:18-08:33/15	07:28 13:22-14:49/87 17:30 07:54-08:10/16	08:20 13:33-14:45/72 09:21-09:53/32 16:45 11:24-11:55/31	08:49 13:55-14:48/53 09:34-10:06/32 16:43 11:27-12:17/50
28	06:03 21:40	06:51 20:42	07:40 17:50-18:40/50 19:32 08:16-08:34/18	07:30 13:22-14:49/87 17:28 07:56-08:08/12	08:22 13:34-14:45/71 09:22-09:54/32 16:44 11:23-11:57/34	08:49 13:55-14:49/54 09:34-10:06/32 16:44 11:28-12:17/49
29	06:05 21:38	06:52 20:40	07:41 17:51-18:39/48 19:30 08:15-08:35/20	07:31 13:21-14:49/88 17:26 07:59-08:04/5	08:23 13:34-14:45/71 09:21-09:54/33 16:43 11:22-11:58/36	08:49 13:55-14:50/55 09:34-10:07/33 16:45 11:28-12:18/50
30	06:06 21:37	06:54 20:38	07:43 17:50-18:37/47 19:28 08:14-08:36/22	07:33 13:21-14:50/89 17:25	08:25 13:36-14:45/69 09:22-09:55/33 16:43 11:22-11:59/37	08:49 13:55-14:50/55 09:35-10:07/32 16:46 11:29-12:18/49
31	06:08 21:35	06:55 20:35		07:35 13:21-14:50/89 17:23		08:49 13:55-14:51/56 09:35-10:08/33 16:47 11:30-12:18/48
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	734	47	1388	2681	3092	4251

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 13:21-14:39/78 16:48	08:24 13:49-14:35/46 17:35	07:32 17:40-17:59/19 18:25	07:23 19:11-19:50/39 20:17	06:20 21:06	05:36 21:51
2	08:50 13:21-14:40/79 16:49	08:23 13:51-14:32/41 17:36	07:30 17:39-18:01/22 18:26	07:21 19:11-19:50/39 20:19	06:18 21:08	05:36 21:52
3	08:49 13:22-14:40/78 16:50	08:21 13:54-14:30/36 17:38	07:28 17:39-18:03/24 18:28	07:19 19:10-19:51/41 20:20	06:16 21:10	05:35 06:03-06:05/2 21:53
4	08:49 13:22-14:40/78 16:51	08:19 13:58-14:28/30 17:40	07:26 17:38-18:05/27 18:30	07:17 19:10-19:51/41 20:22	06:15 21:11	05:34 06:02-06:06/4 21:54
5	08:49 13:23-14:41/78 16:52	08:18 14:03-14:24/21 17:42	07:24 17:37-18:06/29 18:32	07:14 19:10-19:50/40 20:24	06:13 21:13	05:33 06:02-06:07/5 21:55
6	08:49 13:23-14:41/78 16:54	08:16 14:12-14:15/3 17:44	07:21 17:37-18:07/30 18:33	07:12 19:09-19:49/40 20:25	06:11 21:14	05:33 06:01-06:07/6 21:56
7	08:48 13:24-14:41/77 16:55	08:15 17:45	07:19 17:37-18:07/30 18:35	07:10 19:09-19:49/40 20:27	06:09 21:16	05:32 06:01-06:08/7 21:56
8	08:48 13:24-14:41/77 16:56	08:13 17:47	07:17 17:37-18:07/30 18:37	07:08 19:10-19:48/38 20:29	06:08 21:17	05:32 06:01-06:10/9 21:57
9	08:48 13:25-14:42/77 16:58	08:11 17:49	07:15 17:37-18:06/29 18:39	07:05 19:10-19:48/38 20:30	06:06 21:19	05:31 06:00-06:09/9 21:58
10	08:47 13:25-14:42/77 16:59	08:09 17:51	07:13 17:37-18:05/28 18:40	07:03 19:11-19:47/36 20:32	06:04 21:21	05:31 06:00-06:10/10 21:59
11	08:46 13:26-14:42/76 17:00	08:08 17:53	07:10 17:38-18:04/26 18:42	07:01 19:11-19:45/34 20:34	06:03 21:22	05:31 06:00-06:11/11 22:00
12	08:46 13:27-14:43/76 17:02	08:06 17:54	07:08 17:39-18:03/24 18:44	06:59 19:11-19:44/33 20:35	06:01 21:24	05:30 05:59-06:11/12 22:00
13	08:45 13:28-14:43/75 17:03	08:04 17:56	07:06 17:40-18:01/21 18:45	06:57 19:13-19:43/30 20:37	05:59 21:25	05:30 05:59-06:11/12 22:01
14	08:45 13:28-14:43/75 17:05	08:02 17:58	07:04 17:42-17:59/17 18:47	06:55 19:14-19:41/27 20:38	05:58 21:27	05:30 05:59-06:12/13 22:02
15	08:44 13:29-14:43/74 17:06	08:00 18:00	07:02 17:45-17:56/11 18:49	06:52 19:16-19:40/24 20:40	05:56 21:28	05:30 05:59-06:12/13 22:02
16	08:43 13:29-14:43/74 17:08	07:58 18:02	06:59 18:50	06:50 19:18-19:37/19 20:42	05:55 21:30	05:30 05:59-06:13/14 22:03
17	08:42 13:30-14:43/73 17:09	07:57 18:03	06:57 18:21-18:27/6 18:52	06:48 19:20-19:34/14 20:43	05:53 21:31	05:29 05:59-06:13/14 22:03
18	08:41 13:31-14:43/72 17:11	07:55 18:05	06:55 18:19-18:29/10 18:54	06:46 20:45	05:52 21:33	05:29 05:59-06:13/14 22:03
19	08:40 13:32-14:43/71 17:12	07:53 18:07	06:53 18:17-18:31/14 18:55	06:44 20:47	05:51 21:34	05:29 05:59-06:13/14 22:04
20	08:39 13:33-14:43/70 17:14	07:51 18:09	06:50 18:16-18:32/16 18:57	06:42 20:48	05:49 21:35	05:30 05:59-06:13/14 22:04
21	08:38 13:33-14:42/69 17:16	07:49 18:11	06:48 18:14-18:33/19 18:59	06:40 20:50	05:48 21:37	05:30 05:59-06:14/15 22:04
22	08:37 13:34-14:42/68 17:17	07:47 18:12	06:46 18:13-18:35/22 19:00	06:38 20:52	05:47 21:38	05:30 06:00-06:14/14 22:05
23	08:36 13:36-14:42/66 17:19	07:45 18:14	06:44 18:13-18:37/24 19:02	06:36 20:53	05:46 21:40	05:30 06:00-06:14/14 22:05
24	08:35 13:37-14:42/65 17:21	07:43 18:16	06:41 18:12-18:38/26 19:04	06:34 20:55	05:44 21:41	05:30 06:00-06:14/14 22:05
25	08:34 13:37-14:41/64 17:22	07:41 17:48-17:52/4 18:18	06:39 18:11-18:40/29 19:05	06:32 20:57	05:43 21:42	05:31 06:01-06:15/14 22:05
26	08:32 13:39-14:41/62 17:24	07:38 17:46-17:54/8 18:19	06:37 18:12-18:42/30 19:07	06:30 20:58	05:42 21:43	05:31 06:01-06:15/14 22:05
27	08:31 13:40-14:39/59 17:26	07:36 17:44-17:56/12 18:21	06:35 18:12-18:44/32 19:09	06:28 21:00	05:41 21:45	05:32 06:02-06:15/13 22:05
28	08:30 13:42-14:39/57 17:28	07:34 17:41-17:57/16 18:23	06:32 18:11-18:45/34 19:10	06:26 21:01	05:40 21:46	05:32 06:02-06:15/13 22:05
29	08:28 13:43-14:38/55 17:29		07:30 19:12-19:47/35 20:12	06:24 21:03	05:39 21:47	05:33 06:03-06:16/13 22:05
30	08:27 13:45-14:37/52 17:31		07:28 19:12-19:49/37 20:14	06:22 21:05	05:38 21:48	05:33 06:03-06:15/12 22:04
31	08:26 13:46-14:35/49 17:33		07:26 19:13-19:50/37 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	2179	217	738	573	0	319

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:15/11	06:09	06:57 19:10-19:45/35	07:44 18:19-18:42/23	07:37	08:26 13:08-14:24/76
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:15/11	06:11	06:59 19:09-19:45/36	07:46 18:17-18:43/26	07:38	08:27 13:09-14:25/76
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:15/10	06:12	07:00 19:08-19:46/38	07:48 18:16-18:43/27	07:40	08:29 13:08-14:25/77
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:15/9	06:14	07:02 19:07-19:45/38	07:49 18:15-18:43/28	07:42	08:30 13:09-14:26/77
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:15/8	06:15	07:03 19:07-19:46/39	07:51 18:14-18:44/30	07:44 13:39-13:47/8	08:31 13:09-14:26/77
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:14/7	06:17	07:05 19:05-19:45/40	07:53 18:13-18:43/30	07:45 13:32-13:54/22	08:33 13:09-14:27/78
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:14/6	06:18	07:07 19:05-19:46/41	07:54 18:13-18:43/30	07:47 13:27-13:58/31	08:34 13:10-14:28/78
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20	07:08 19:04-19:45/41	07:56 18:13-18:43/30	07:49 13:24-14:01/37	08:35 13:10-14:28/78
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21	07:10 19:05-19:45/40	07:57 18:12-18:40/28	07:50 13:22-14:03/41	08:36 13:10-14:28/78
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:12/1	06:23	07:11 19:04-19:44/40	07:59 18:13-18:38/25	07:52 13:20-14:06/46	08:37 13:10-14:29/79
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 19:04-19:43/39	08:01 18:13-18:36/23	07:54 13:18-14:07/49	08:38 13:11-14:29/78
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:04-19:42/38	08:02 18:13-18:33/20	07:56 13:16-14:08/52	08:39 13:11-14:30/79
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:04-19:40/36	08:04 18:14-18:31/17	07:57 13:15-14:10/55	08:40 13:11-14:30/79
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 19:02-19:37/35	08:06 18:15-18:29/14	07:59 13:14-14:11/57	08:41 13:12-14:31/79
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 19:02-19:35/33	08:07 18:17-18:27/10	08:01 13:13-14:12/59	08:42 13:12-14:31/79
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 19:00-19:33/33	08:09 18:18-18:24/6	08:02 13:12-14:14/62	08:43 13:13-14:32/79
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49	06:34	07:22 19:00-19:31/31	08:11 18:21-18:22/1	08:04 13:11-14:15/64	08:44 13:14-14:33/79
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 18:59-19:28/29	08:12	08:06 13:11-14:16/65	08:45 13:13-14:32/79
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 18:59-19:26/27	08:14	08:08 13:10-14:16/66	08:45 13:14-14:33/79
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 18:59-19:24/25	08:16	08:09 13:09-14:17/68	08:46 13:15-14:34/79
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29 18:59-19:21/22	08:18	08:11 13:09-14:18/69	08:47 13:15-14:34/79
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 19:00-19:20/20	08:19	08:12 13:09-14:19/70	08:47 13:16-14:35/79
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 18:59-19:17/18	08:21	08:14 13:08-14:19/71	08:48 13:16-14:35/79
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 19:01-19:15/14	08:23	08:16 13:08-14:20/72	08:48 13:16-14:35/79
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 19:29-19:31/2	07:35 19:01-19:12/11	07:24	08:17 13:08-14:21/73	08:48 13:17-14:36/79
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 19:23-19:37/14	07:36 19:03-19:10/7	07:26	08:19 13:08-14:21/73	08:49 13:18-14:37/79
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 19:19-19:39/20	07:38 19:07-19:08/1	07:28	08:20 13:08-14:22/74	08:49 13:18-14:37/79
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51 19:17-19:42/25	07:40 18:27-18:36/9	07:30	08:22 13:08-14:23/75	08:49 13:18-14:37/79
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:15-19:42/27	07:41 18:23-18:39/16	07:31	08:23 13:08-14:23/75	08:49 13:19-14:38/79
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:13-19:44/31	07:43 18:20-18:40/20	07:33	08:25 13:08-14:24/76	08:50 13:19-14:38/79
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:11-19:44/33		07:35		08:50 13:20-14:38/78
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	70	152	852	368	1510	2431

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 09:18-09:25/7	07:32 08:04-08:08/4	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49	08:22 08:48-08:49/1	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49	08:21 08:46-08:48/2	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49	08:19 08:45-08:46/1	07:26	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49	08:18 08:43-08:46/3	07:23	07:14	06:13	05:33
	16:52	17:42	18:32	20:23	21:12	21:54
6	08:48	08:16 08:41-08:45/4	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13 08:41-08:42/1	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:07	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:20/6	08:04	07:06	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:22/9	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:26	22:01
15	08:43 09:12-09:23/11	08:00 08:24-08:26/2	07:01	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:24/13	07:58 08:22-08:25/3	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56 08:20-08:25/5	06:57	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:10-09:26/16	07:54 08:18-08:23/5	06:55	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:27/17	07:52 08:16-08:25/9	06:52	06:44	05:51	05:29
	17:12	18:07	18:55	20:46	21:34	22:04
20	08:39 09:09-09:27/18	07:50 08:14-08:25/11	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:09-09:28/19	07:48 08:12-08:26/14	06:48	06:40	05:48	05:30
	17:16 09:05-09:06/1	18:11	18:59	20:50	21:37	22:04
22	08:37 09:09-09:29/20	07:46 08:10-08:26/16	06:46	06:38	05:47	05:30
	17:17 09:04-09:07/3	18:12	19:00	20:51	21:38	22:04
23	08:36 09:10-09:30/20	07:44 08:08-08:26/18	06:43	06:36	05:46	05:30
	17:19 09:03-09:07/4	18:14	19:02	20:53	21:39	22:04
24	08:35 09:09-09:29/20	07:42 08:06-08:25/19	06:41	06:34	05:44	05:30
	17:21 09:02-09:08/6	18:16	19:04	20:55	21:41	22:05
25	08:33 09:10-09:30/20	07:40 08:04-08:24/20	06:39	06:32	05:43	05:31
	17:22 09:00-09:07/7	18:18	19:05	20:56	21:42	22:05
26	08:32 09:11-09:30/19	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24 09:00-09:06/6	18:19 08:14-08:22/8	19:07	20:58	21:43	22:05
27	08:31 09:11-09:29/18	07:36 08:02-08:13/11	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:44	22:05
28	08:29 09:12-09:30/18	07:34 08:02-08:11/9	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:12-09:29/17		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 09:14-09:28/14		07:28	06:22	05:38	05:33
	17:31		20:14	21:04	21:48	22:04
31	08:25 09:15-09:27/12		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	329	185	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:10	06:59	07:46		07:38		08:27	
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:10-08:12/2	08:29	
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:13	07:02	07:49		07:42	08:09-08:14/5	08:30	
	22:03	21:28	20:26	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:15/4	08:31	
	22:02	21:27	20:24	19:16		17:14		16:40	
6	05:37	06:16	07:05	07:52		07:45	08:13-08:15/2	08:32	
	22:02	21:25	20:22	19:14		17:12		16:39	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:17/2	08:34	
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:19/2	08:35	
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	
	22:00	21:20	20:15	19:07		17:07		16:38	
10	05:41	06:23	07:11	07:59		07:52	08:48-08:56/8	08:37	
	21:59	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:46-08:58/12	08:38	
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:55	08:45-08:59/14	08:39	
	21:58	21:14	20:08	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04	08:36-08:43/7	07:57	08:44-09:01/17	08:40	
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06	08:34-08:44/10	07:59	08:44-09:02/18	08:41	
	21:56	21:10	20:04	18:57		17:00		16:38	
15	05:46	06:30	07:19	08:07	08:34-08:45/11	08:01	08:44-09:02/18	08:42	
	21:55	21:08	20:02	18:55	08:47-08:53/6	16:59		16:38	
16	05:48	06:32	07:21	08:09	08:34-08:54/20	08:02	08:44-09:03/19	08:43	
	21:54	21:07	19:59	18:52		16:57	08:33-08:39/6	16:38	
17	05:49	06:33	07:22	08:11	08:36-08:56/20	08:04	08:44-09:04/20	08:44	
	21:53	21:05	19:57	18:50		16:56	08:34-08:41/7	16:38	
18	05:50	06:35	07:24	08:12	08:38-08:57/19	08:06	08:43-09:03/20	08:44	
	21:52	21:03	19:55	18:48		16:55	08:36-08:42/6	16:39	
19	05:51	06:37	07:25	08:14	08:40-08:57/17	08:07	08:44-09:04/20	08:45	09:24-09:26/2
	21:51	21:01	19:53	18:46		16:53	08:37-08:41/4	16:39	
20	05:52	06:38	07:27	08:16	08:42-08:57/15	08:09	08:44-09:04/20	08:46	09:25-09:27/2
	21:50	20:59	19:50	18:44		16:52	08:39-08:42/3	16:39	
21	05:54	06:40	07:28	08:17	08:43-08:56/13	08:11	08:45-09:04/19	08:46	09:25-09:27/2
	21:49	20:56	19:48	18:42		16:51	08:41-08:42/1	16:40	
22	05:55	06:41	07:30	08:19	08:45-08:56/11	08:12	08:45-09:03/18	08:47	09:26-09:28/2
	21:48	20:54	19:46	18:40		16:50		16:40	
23	05:56	06:43	07:32	08:21	08:47-08:55/8	08:14	08:46-09:03/17	08:47	09:26-09:28/2
	21:46	20:52	19:43	18:38		16:49		16:41	
24	05:58	06:44	07:33	08:22	08:49-08:54/5	08:15	08:47-09:04/17	08:48	09:26-09:28/2
	21:45	20:50	19:41	18:36		16:48		16:41	
25	05:59	06:46	07:35	07:24	07:51-07:56/5	08:17	08:48-09:04/16	08:48	09:28-09:29/1
	21:44	20:48	19:39	17:34		16:47		16:42	
26	06:00	06:48	07:36	07:26	07:53-07:56/3	08:18	08:49-09:02/13	08:49	
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28	07:54-07:55/1	08:20	08:51-09:02/11	08:49	
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:39	07:29		08:21	08:53-09:02/9	08:49	
	21:39	20:42	19:32	17:28		16:44		16:44	
29	06:05	06:52	07:41	07:31		08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:43		16:45	
30	06:06	06:54	07:43	07:33		08:24		08:49	
	21:36	20:37	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35				08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	171		356		13	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: MVZ_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January		February		March	April	May	June	July	August	September	October	November		December
1	08:49		08:24	08:50-08:56/6	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36		08:26
	16:48		17:35		18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21		16:42
2	08:49		08:22	08:48-08:55/7	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38		08:27
	16:49		17:36		18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19		16:41
3	08:49		08:21	08:46-08:55/9	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40		08:29
	16:50		17:38		18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17		16:41
4	08:49		08:19	08:46-08:55/9	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42		08:30
	16:51		17:40		18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16		16:40
5	08:49		08:18	08:47-08:53/6	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43		08:31
	16:53		17:42		18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14		16:40
6	08:48		08:16		07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45	08:16-08:23/7	08:32
	16:54		17:44		18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12		16:39
7	08:48		08:14		07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:15-08:25/10	08:34
	16:55		17:45		18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11		16:39
8	08:48		08:13		07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:17-08:26/9	08:35
	16:56		17:47		18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09		16:39
9	08:47		08:11		07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:19-08:26/7	08:36
	16:58		17:49		18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07		16:39
10	08:47		08:09		07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:21-08:27/6	08:37
	16:59		17:51		18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06		16:38
11	08:46		08:07		07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:23-08:27/4	08:38
	17:00		17:53		18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04		16:38
12	08:46		08:06		07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55	08:24-08:26/2	08:39
	17:02		17:54		18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03		16:38
13	08:45		08:04		07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:26-08:27/1	08:40
	17:03		17:56		18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01		16:38
14	08:44		08:02		07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:38-08:45/7	08:41
	17:05		17:58		18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00		16:38
15	08:43		08:00		07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01	08:37-08:47/10	08:42
	17:06		18:00		18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59		16:38
16	08:43		07:58		06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:37-08:48/11	08:43
	17:08		18:02		18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57		16:38
17	08:42	09:10-09:12/2	07:56		06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:36-08:49/13	08:44
	17:09		18:03		18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56		16:38
18	08:41	09:09-09:13/4	07:54		06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:35-08:49/14	08:44
	17:11		18:05		18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55		16:39
19	08:40	09:08-09:14/6	07:52		06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:37-08:50/13	08:45
	17:12		18:07		18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53		16:39
20	08:39	09:06-09:14/8	07:50		06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09	08:39-08:50/11	08:46
	17:14		18:09		18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52		16:39
21	08:38	09:05-09:14/9	07:48		06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11	08:41-08:50/9	08:46
	17:16		18:11		18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51		16:40
22	08:37	09:04-09:15/11	07:46		06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:43-08:51/8	08:47
	17:17		18:12		19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50		16:40
23	08:36	09:03-09:16/13	07:44		06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14	08:44-08:50/6	08:47
	17:19		18:14		19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49		16:41
24	08:35	09:01-09:15/14	07:42		06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15	08:46-08:50/4	08:48
	17:21		18:16		19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48		16:41
25	08:33	09:02-09:15/13	07:40		06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48-08:50/2	08:48
	17:22		18:18		19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47		16:42
26	08:32	09:04-09:15/11	07:38		06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18		08:49
	17:24		18:19		19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46		16:43
27	08:31	09:04-09:14/10	07:36		06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20		08:49
	17:26		18:21		19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45		16:43
28	08:29	09:06-09:13/7	07:34		06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:21		08:49
	17:28		18:23		19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44		16:44
29	08:28	08:54-08:55/1			07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23		08:49
	17:29				20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43		16:45
30	08:27	08:53-08:55/2			07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24		08:49
	17:31				20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43		16:46
31	08:25	08:51-08:55/4			07:25		05:37		06:08	06:55		07:35			08:49
	17:33				20:15		21:49		21:35	20:35		17:23			16:47
Potential sun hours	262		279		367	414	482	494	498	451	380	333	269		248
Sum of minutes with flicker	115		37		0	0	0	0	0	0	0	0	154		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: MVZ_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 16:48	08:24 08:50-08:57/7 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:36 21:50	05:34 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 08:04-08:10/6 17:21	08:26 16:42
2	08:49 16:49	08:22 08:48-08:57/9 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51	05:34 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 08:06-08:11/5 17:19	08:27 16:41
3	08:49 16:50	08:21 08:46-08:56/10 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52	05:35 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:07-08:10/3 17:17	08:29 16:41
4	08:49 16:51	08:19 08:46-08:56/10 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53	05:36 22:03	06:13 21:28	07:02 20:26	07:49 19:19	07:42 08:09-08:10/1 17:16	08:30 16:40
5	08:49 16:53	08:18 08:47-08:55/8 17:42	07:23 18:32	07:14 20:23	06:13 21:12	05:34 21:54	05:37 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 08:18-08:23/5 17:14	08:31 16:40
6	08:48 16:54	08:16 08:49-08:53/4 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 21:55	05:37 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 08:17-08:25/8 17:12	08:32 16:39
7	08:48 16:55	08:14 08:39-08:40/1 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:56	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 08:16-08:26/10 17:11	08:34 16:39
8	08:48 16:56	08:13 08:38-08:41/3 17:47	07:17 18:37	07:08 20:28	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 08:17-08:27/10 17:09	08:35 16:39
9	08:47 16:58	08:11 08:36-08:41/5 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58	05:40 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 08:19-08:28/9 17:07	08:36 16:39
10	08:47 16:59	08:09 08:34-08:40/6 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59	05:41 21:59	06:23 21:18	07:11 20:13	07:59 19:05	07:52 08:21-08:28/7 17:06	08:37 16:38
11	08:46 17:00	08:07 08:32-08:39/7 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 08:22-08:27/5 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:23	05:30 22:00	05:43 21:58	06:26 21:14	07:14 20:08	08:02 19:01	07:55 08:24-08:27/3 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01	05:44 21:57	06:27 21:12	07:16 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:26	05:30 22:01	05:45 21:56	06:29 21:10	07:17 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:43 17:06	08:00 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02	05:46 21:55	06:30 21:08	07:19 20:02	08:07 18:55	08:01 16:59	08:42 16:38
16	08:43 17:08	07:58 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02	05:48 21:54	06:32 21:07	07:21 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03	05:49 21:53	06:33 21:05	07:22 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:54 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:29 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 16:55	08:44 16:39
19	08:40 17:12	07:52 18:07	06:52 18:55	06:44 20:46	05:51 21:34	05:30 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:50 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04	05:52 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:16	07:48 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:56	07:28 19:48	08:17 18:42	08:11 16:51	08:46 16:40
22	08:37 17:17	07:46 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04	05:55 21:48	06:41 20:54	07:30 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:04	05:56 21:46	06:43 20:52	07:32 19:43	08:21 18:38	08:14 16:49	08:47 16:41
24	08:35 17:21	07:42 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05	05:58 21:45	06:44 20:50	07:33 19:41	08:22 18:36	08:15 16:48	08:48 16:41
25	08:33 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:00 21:42	06:48 20:46	07:36 19:37	07:26 17:32	08:18 16:46	08:48 16:43
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 21:44	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:29 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:39	06:51 20:42	07:39 19:32	07:29 17:28	08:21 16:44	08:49 16:44
29	08:28 08:54-08:55/1 17:29		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04	06:05 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 08:53-08:56/3 17:31		07:28 20:14	06:22 21:04	05:38 21:48	05:33 22:04	06:06 21:36	06:54 20:37	07:43 19:28	07:33 08:04-08:06/2 17:25	08:24 16:43	08:49 16:46
31	08:25 08:51-08:56/5 17:33		07:25 20:15		05:37 21:49		06:08 21:35	06:55 20:35		07:35 08:02-08:09/7 17:23		08:49 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	9	70	0	0	0	0	0	0	0	9	72	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:26/6	08:24 08:50-08:54/4	07:32 07:55-08:17/22	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:27/7	08:22 08:48-08:52/4	07:30 07:53-08:18/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:27/7	08:21	07:28 07:51-07:52/1	07:19	06:16	05:35
	16:50	17:38	18:28 07:53-08:19/26	20:20	21:09	21:53
4	08:49 09:19-09:26/7	08:19	07:26 07:49-08:19/30	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:20-09:26/6	08:18	07:24 07:46-08:18/32	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:20-09:25/5	08:16	07:21 07:44-08:18/34	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:23-09:24/1	08:14	07:19 07:42-08:18/36	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13	07:17 07:40-08:18/38	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15 07:38-08:17/39	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13 07:37-08:15/38	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08	07:10 07:38-08:14/36	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08 07:39-07:52/13	06:59	06:01	05:30
	17:02	17:54	18:44 07:54-08:13/19	20:35	21:24	22:00
13	08:45	08:04	07:06 07:40-07:50/10	06:57	05:59	05:30
	17:03	17:56	18:45 07:56-08:10/14	20:37	21:25	22:01
14	08:44	08:02	07:04 07:58-08:06/8	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:23/3	06:57	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:22/4	06:55	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40	07:53 08:16-08:21/5	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 08:16-08:19/3	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:15/15	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:16/19	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	44	75	421	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:18-08:30/12	07:36	08:26
	22:04	21:33	20:33	19:25 08:33-08:51/18	17:21	16:42
2	05:34	06:11	06:59	07:46 08:17-08:52/35	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:15-08:53/38	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:15-08:54/39	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:54/38	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05	07:52 08:17-08:54/37	07:45	08:33 09:06-09:11/5
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:54/35	07:47	08:34 09:07-09:13/6
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:54/33	07:49	08:35 09:07-09:14/7
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:53/31	07:50 08:19-08:23/4	08:36 09:08-09:15/7
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:24-08:53/29	07:52 08:21-08:25/4	08:37 09:09-09:16/7
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:27-08:52/25	07:54 08:23-08:26/3	08:38 09:10-09:16/6
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 08:27-08:51/24	07:56 08:24-08:26/2	08:39 09:11-09:17/6
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:29-08:50/21	07:57	08:40 09:12-09:18/6
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 08:31-08:49/18	07:59	08:41 09:13-09:18/5
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07 08:33-08:47/14	08:01	08:42 09:14-09:19/5
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21	08:09 08:34-08:43/9	08:02	08:43 09:15-09:20/5
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04	08:44 09:16-09:20/4
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 08:38-08:39/1	08:06	08:44 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:21/4
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09	08:46 09:18-09:22/4
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17	08:11	08:46 09:18-09:22/4
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:45-08:50/5	08:12	08:47 09:19-09:23/4
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:47-08:52/5	08:14	08:47 09:19-09:23/4
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 08:49-08:53/4	08:15	08:48 09:19-09:23/4
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 07:51-07:54/3	08:17	08:48 09:20-09:24/4
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:54/1	08:19	08:49 09:20-09:24/4
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:25/5
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:29	08:22	08:49 09:20-09:25/5
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:41-08:45/4	07:31	08:23	08:49 09:20-09:25/5
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43 08:20-08:28/8	07:33	08:24	08:49 09:20-09:25/5
	21:37	20:38	19:28 08:35-08:48/13	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:20-09:26/6
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	25	477	13	131

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: NES_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24 16:55-17:06/11	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:45	07:37	08:26 15:57-16:09/12
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:26	17:21	16:42
2	08:50	08:23 16:55-17:07/12	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 15:58-16:09/11
	16:49	17:37	18:27	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49	08:21 16:55-17:09/14	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29 15:58-16:08/10
	16:50	17:38	18:28	20:20	21:10	21:53	22:04	21:30	20:29	19:21	17:18	16:41
4	08:49 16:16-16:18/2	08:19 16:56-17:11/15	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42 16:30-16:33/3	08:30 16:00-16:08/8
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16 16:39-16:45/6	16:41
5	08:49 16:16-16:19/3	08:18 16:57-17:07/10	07:24	07:14	06:13	05:34	05:37	06:15	07:04	07:51	07:44 16:27-16:36/9	08:31 16:00-16:07/7
	16:53	17:42 17:08-17:13/5	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:17	17:14 16:38-16:44/6	16:40
6	08:49 16:15-16:20/5	08:16 16:58-17:06/8	07:22	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45 16:26-16:37/11	08:33 16:01-16:06/5
	16:54	17:44 17:09-17:15/6	18:34	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12 16:38-16:43/5	16:40
7	08:48 16:15-16:22/7	08:15 17:10-17:15/5	07:19	07:10	06:10	05:33	05:39	06:18	07:07	07:54	07:47 16:26-16:41/15	08:34 16:03-16:06/3
	16:55	17:46	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48 16:15-16:23/8	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 16:25-16:39/14	08:35 16:04-16:06/2
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 16:15-16:25/10	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:58	07:50 16:25-16:38/13	08:36
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:16	19:08	17:08	16:39
10	08:47 16:15-16:26/11	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 16:26-16:36/10	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:06	17:06	16:39
11	08:46 16:14-16:27/13	08:08	07:11	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 16:25-16:34/9	08:38
	17:01	17:53	18:42	20:34	21:22	22:00	21:59	21:16	20:11	19:03	17:05	16:38
12	08:46 16:14-16:29/15	08:06	07:08	06:59	06:01	05:31	05:43	06:26	07:14	08:02	07:56 16:26-16:32/6	08:39
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 16:15-16:31/16	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57 16:27-16:31/4	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:02	16:38
14	08:44 16:15-16:32/17	08:02	07:04	06:55	05:58	05:30	05:46	06:29	07:18	08:06	07:59 16:28-16:29/1	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44 16:15-16:34/19	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43 16:16-16:32/16	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43
	17:08 16:33-16:36/3	18:02	18:51	20:42	21:30	22:03	21:55	21:07	20:00	18:53	16:57	16:38
17	08:42 16:16-16:33/17	07:57	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44
	17:09 16:34-16:37/3	18:04	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:51	16:56	16:39
18	08:41 16:17-16:33/16	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 15:57-16:04/7	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 16:17-16:33/16	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 15:55-16:06/11	08:45
	17:13	18:07	18:56	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39
20	08:39 16:18-16:33/15	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09 15:55-16:07/12	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40
21	08:38 16:18-16:32/14	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:18	08:11 15:54-16:08/14	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37 16:20-16:32/12	07:47	06:46	06:38	05:47	05:30	05:55	06:42	07:30	08:19	08:12 15:54-16:09/15	08:47
	17:18	18:13	19:01	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36 16:21-16:32/11	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14 15:53-16:09/16	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35 16:23-16:30/7	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:16 15:54-16:10/16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 15:54-16:11/17	08:48
	17:23	18:18	19:06	20:57	21:42	22:05	21:44	20:48	19:39	17:34	16:47 16:12-16:15/3	16:42
26	08:32	07:39	06:37	06:30	05:42	05:31	06:01	06:48	07:37	07:26	08:19 15:54-16:10/16	08:49
	17:24	18:20	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46 16:11-16:14/3	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 15:55-16:13/18	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:35	17:30	16:45	16:44
28	08:30 16:56-16:58/2	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22 15:55-16:12/17	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:29	16:44	16:44
29	08:28 16:55-16:59/4		07:30	06:24	05:39	05:33	06:05	06:53	07:41	07:31	08:23 15:55-16:11/16	08:49
	17:30		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:27	16:44	16:45
30	08:27 16:55-17:02/7		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25 15:56-16:11/15	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:26 16:54-17:03/9		07:26		05:37		06:08	06:56		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	278	86	0	0	0	0	0	0	0	0	308	58

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 08:50-08:57/7	07:32	07:23	06:20	05:36
	16:48	17:35 09:06-09:28/22	18:25	20:17	21:06	21:50
2	08:49	08:22 08:48-08:56/8	07:30	07:21	06:18	05:36
	16:49	17:36 09:07-09:27/20	18:26	20:19	21:08	21:51
3	08:49	08:21 08:46-08:55/9	07:28	07:19	06:16	05:35
	16:50	17:38 09:08-09:26/18	18:28	20:20	21:09	21:52
4	08:49	08:19 08:45-08:55/10	07:26	07:16	06:15	05:34
	16:51	17:40 09:10-09:25/15	18:30	20:22	21:11	21:53
5	08:49	08:18 08:43-08:55/12	07:24	07:14	06:13	05:34
	16:53	17:42 09:13-09:22/9	18:32	20:24	21:13	21:54
6	08:49	08:16 08:41-08:56/15	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48	08:14 08:39-08:56/17	07:19 07:42-07:43/1	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13 08:38-08:56/18	07:17 07:40-07:41/1	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:17-09:18/1	08:11 08:36-08:56/20	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47 09:16-09:18/2	08:09 08:34-08:55/21	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:18/3	08:07 08:37-08:55/18	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:14-09:19/5	08:06 08:38-08:54/16	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:19/5	08:04 08:39-08:52/13	07:06	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:21/8	08:02 08:42-08:50/8	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:22/10	08:00	07:01	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:23/12	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:24/14	07:56 08:20-08:22/2	06:57	06:48	05:53	05:30
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:25/16	07:54 08:18-08:19/1	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:08-09:26/18	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:06-09:26/20	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:27/22	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:04-09:28/24	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:28/25	07:45	06:43	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:02-09:28/26	07:42	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:02-09:29/27	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 09:03-09:29/26	07:38	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 09:03-09:29/26	07:36	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 08:56-08:57/1	07:34	06:32	06:26	05:40	05:32
	17:28 09:03-09:30/27	18:23	19:10	21:01	21:46	22:05
29	08:28 08:54-08:57/3		07:30	06:24	05:39	05:33
	17:29 09:03-09:29/26		20:12	21:03	21:47	22:04
30	08:27 08:53-08:58/5		07:28	06:22	05:38	05:33
	17:31 09:05-09:29/24		20:14	21:05	21:48	22:04
31	08:25 08:51-08:57/6		07:25		05:37	
	17:33 09:05-09:28/23		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	405	280	2	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36	08:04-08:25/21	08:26	08:57-09:00/3
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:11	06:59	07:46		07:38	08:06-08:26/20	08:27	08:59-09:01/2
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:07-08:25/18	08:29	09:00-09:01/1
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:25/16	08:30	
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:25/14	08:31	
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52	08:17-08:18/1	07:45	08:13-08:25/12	08:32	
	22:02	21:25	20:22	19:14		17:12	08:42-08:52/10	16:39	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:25/10	08:34	
	22:01	21:23	20:20	19:12		17:11	08:40-08:55/15	16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:26/9	08:35	
	22:01	21:22	20:18	19:10		17:09	08:39-08:57/18	16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:27/8	08:36	
	22:00	21:20	20:15	19:08		17:07	08:38-08:58/20	16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:28/7	08:37	
	22:00	21:18	20:13	19:05		17:06	08:37-08:59/22	16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:29/6	08:38	
	21:59	21:16	20:11	19:03		17:04	08:36-08:59/23	16:38	
12	05:43	06:26	07:14	08:02		07:55	08:24-08:29/5	08:39	
	21:58	21:14	20:09	19:01		17:03	08:35-09:00/25	16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:29/3	08:40	
	21:57	21:12	20:06	18:59		17:01	08:35-09:01/26	16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:29/1	08:41	
	21:56	21:10	20:04	18:57		17:00	08:35-09:01/26	16:38	
15	05:46	06:30	07:19	08:07		08:01	08:36-09:02/26	08:42	
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09		08:02	08:36-09:02/26	08:43	
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-09:03/27	08:44	
	21:53	21:05	19:57	18:50		16:56		16:38	
18	05:50	06:35	07:24	08:12		08:06	08:36-09:02/26	08:44	
	21:52	21:03	19:55	18:48		16:55		16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-09:02/25	08:45	
	21:51	21:01	19:53	18:46		16:53		16:39	
20	05:52	06:38	07:27	08:16		08:09	08:39-09:03/24	08:46	
	21:50	20:59	19:50	18:44		16:52		16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-09:03/22	08:46	
	21:49	20:57	19:48	18:42		16:51		16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-09:03/20	08:47	
	21:48	20:54	19:46	18:40		16:50		16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-09:02/18	08:47	
	21:46	20:52	19:43	18:38		16:49		16:41	
24	05:58	06:44	07:33	08:23	08:49-08:51/2	08:15	08:46-09:02/16	08:48	
	21:45	20:50	19:41	18:36		16:48		16:41	
25	05:59	06:46	07:35	07:24	07:51-07:53/2	08:17	08:48-09:02/14	08:48	
	21:44	20:48	19:39	17:34		16:47		16:42	
26	06:00	06:48	07:36	07:26	07:53-07:54/1	08:19	08:49-09:01/12	08:49	
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28		08:20	08:51-09:01/10	08:49	
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:40	07:29	08:11-08:20/9	08:22	08:53-09:01/8	08:49	
	21:40	20:42	19:32	17:28		16:44		16:44	
29	06:05	06:52	07:41	07:31	08:09-08:22/13	08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:44		16:45	
30	06:06	06:54	07:43	07:33	08:08-08:23/15	08:24	08:56-09:00/4	08:49	
	21:37	20:38	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35	08:07-08:24/17			08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	60		619		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:31-09:50/19	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26 08:57-08:58/1
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42 09:23-09:30/7
2	08:49 09:32-09:51/19	08:22	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27 09:22-09:32/10
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49 09:31-09:50/19	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40 08:08-08:09/1	08:29 09:21-09:33/12
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49 09:33-09:51/18	08:19	07:26	07:16	06:15	05:34	05:36	06:14	07:02	07:49	07:42 08:09-08:10/1	08:30 09:21-09:35/14
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49 09:34-09:51/17	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31 09:21-09:36/15
	16:53	17:42	18:32	20:24	21:13	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:49 09:34-09:50/16	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:52	07:45	08:32 09:20-09:36/16
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48 09:35-09:51/16	08:14 08:39-08:40/1	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34 09:20-09:37/17
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:36-09:50/14	08:13 08:38-08:39/1	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35 09:21-09:39/18
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:38-09:50/12	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36 09:21-09:39/18
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47 09:39-09:49/10	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:21-09:40/19
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46 09:15-09:16/1	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:21-09:40/19
	17:00 09:41-09:48/7	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:14-09:17/3	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55	08:39 09:21-09:41/20
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 09:14-09:18/4	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:30/4	08:40 09:21-09:41/20
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:13-09:19/6	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:28-08:32/4	08:41 09:22-09:42/20
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44 09:12-09:20/8	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:30-08:33/3	08:42 09:22-09:43/21
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59 08:44-08:50/6	16:38
16	08:43 09:11-09:20/9	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:35-08:36/1	08:02 08:32-08:34/2	08:43 09:23-09:44/21
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57 08:42-08:52/10	16:38 09:17-09:19/2
17	08:42 09:10-09:21/11	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04 08:42-08:54/12	08:44 09:23-09:44/21
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39 09:17-09:20/3
18	08:41 09:09-09:21/12	07:54	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 08:40-08:54/14	08:44 09:23-09:44/21
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39 09:16-09:21/5
19	08:40 09:08-09:22/14	07:52	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:40-08:56/16	08:45 09:24-09:45/21
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39 09:17-09:22/5
20	08:39 09:07-09:22/15	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09 08:40-08:56/16	08:46 09:25-09:46/21
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39 09:18-09:23/5
21	08:38 09:05-09:21/16	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:57/16	08:46 09:24-09:46/22
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40 09:18-09:23/5
22	08:37 09:05-09:21/16	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:58/15	08:47 09:25-09:47/22
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40 09:19-09:24/5
23	08:36 09:06-09:22/16	07:45	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:58/14	08:47 09:26-09:47/21
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41 09:19-09:24/5
24	08:35 09:06-09:20/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:15 08:46-08:58/12	08:48 09:26-09:47/21
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41 09:19-09:24/5
25	08:33 09:08-09:20/12	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:59/11	08:48 09:27-09:48/21
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42 09:20-09:25/5
26	08:32 08:59-09:01/2	07:38 08:02-08:03/1	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18 08:49-08:58/9	08:49 09:27-09:48/21
	17:24 09:09-09:19/10	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43 09:20-09:25/5
27	08:31 08:57-09:00/3	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 08:51-08:59/8	08:49 09:27-09:48/21
	17:26 09:11-09:17/6	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43 09:21-09:24/3
28	08:30 08:56-09:00/4	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22 08:53-08:59/6	08:49 09:28-09:49/21
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44 09:23-09:24/1
29	08:28 08:54-08:58/4		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 08:54-08:59/5	08:49 09:28-09:49/21
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 08:56-08:59/3	08:49 09:29-09:49/20
	17:31		20:14	21:04	21:48	22:04	21:37	20:37	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:55		07:35		08:49 09:30-09:50/20
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	353	3	0	0	0	0	0	0	0	1	188	637

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:48/28	08:24	07:32 07:55-07:59/4	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:49/29	08:22	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:49/29	08:21 08:46-08:47/1	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49 09:19-09:50/31	08:19 08:45-08:48/3	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49 09:19-09:50/31	08:18 08:43-08:47/4	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:18-09:50/32	08:16 08:41-08:46/5	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:51/33	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:51/34	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:17-09:52/35	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:17-09:51/34	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:18-09:51/33	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:20-09:51/31	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 09:21-09:28/7	08:04	07:06	06:57	05:59	05:30
	17:03 09:30-09:52/22	17:56	18:45	20:37	21:25	22:01
14	08:44 09:23-09:27/4	08:02	07:04	06:55	05:58	05:30
	17:05 09:31-09:52/21	17:58	18:47	20:38	21:27	22:01
15	08:44 09:31-09:51/20	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:32-09:51/19	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:54	05:30
	17:09 09:34-09:50/16	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:12/3	07:54	06:55	06:46	05:52	05:30
	17:11 09:35-09:49/14	18:05	18:54	20:45	21:32	22:03
19	08:40 09:08-09:13/5	07:53	06:53	06:44	05:51	05:30
	17:12 09:37-09:48/11	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:13/6	07:51	06:50	06:42	05:49	05:30
	17:14 09:40-09:46/6	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:12/7	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:04-09:12/8	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:12/9	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:02-09:12/10	07:43	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:02-09:10/8	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 09:06-09:08/2	07:38 08:02-08:04/2	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:03/3	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:01/4	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	580	27	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	09:00-09:33/33
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	09:00-09:34/34
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40		08:29	09:00-09:35/35
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:14/5	08:30	09:02-09:36/34
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:16/5	08:31	09:03-09:36/33
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52		07:45	08:13-08:17/4	08:33	09:04-09:36/32
	22:02	21:25	20:22	19:14		17:12		16:40	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:18/3	08:34	09:06-09:37/31
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:18/1	08:35	09:07-09:38/31
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	09:08-09:38/30
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52		08:37	09:09-09:38/29
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54		08:38	09:10-09:39/29
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:56		08:39	09:11-09:39/28
	21:58	21:14	20:09	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04	08:29-08:33/4	07:57		08:40	09:12-09:39/27
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06	08:31-08:35/4	07:59		08:41	09:13-09:40/27
	21:56	21:11	20:04	18:57		17:00		16:38	
15	05:47	06:30	07:19	08:07	08:33-08:36/3	08:01		08:42	09:14-09:40/26
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09	08:35-08:36/1	08:02	08:38-08:42/4	08:43	09:15-09:41/26
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-08:44/8	08:44	09:16-09:42/26
	21:53	21:05	19:57	18:50		16:56		16:39	
18	05:50	06:35	07:24	08:12		08:06	08:36-08:46/10	08:44	09:16-09:41/25
	21:52	21:03	19:55	18:48		16:55		16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-08:46/9	08:45	09:17-09:42/25
	21:51	21:01	19:53	18:46		16:53		16:39	
20	05:53	06:38	07:27	08:16		08:09	08:39-08:47/8	08:46	09:18-09:43/25
	21:50	20:59	19:50	18:44		16:52		16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-08:48/7	08:46	09:18-09:43/25
	21:49	20:57	19:48	18:42		16:51		16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-08:49/6	08:47	09:19-09:44/25
	21:48	20:55	19:46	18:40		16:50	09:16-09:22/6	16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-08:49/5	08:47	09:19-09:44/25
	21:46	20:52	19:44	18:38		16:49	09:13-09:24/11	16:41	
24	05:58	06:45	07:33	08:23		08:15	08:46-08:49/3	08:48	09:19-09:44/25
	21:45	20:50	19:41	18:36		16:48	09:12-09:26/14	16:41	
25	05:59	06:46	07:35	07:24		08:17	08:48-08:50/2	08:48	09:20-09:45/25
	21:44	20:48	19:39	17:34		16:47	09:12-09:28/16	16:42	
26	06:01	06:48	07:36	07:26		08:19	09:11-09:29/18	08:49	09:20-09:46/26
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28		08:20	09:11-09:30/19	08:49	09:20-09:46/26
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:40	07:29		08:22	09:04-09:06/2	08:49	09:20-09:46/26
	21:40	20:42	19:32	17:28		16:44	09:11-09:32/21	16:44	
29	06:05	06:52	07:41	07:31		08:23	09:01-09:08/7	08:49	09:20-09:47/27
	21:38	20:40	19:30	17:26		16:44	09:10-09:32/22	16:45	
30	06:06	06:54	07:43	07:33		08:24	09:01-09:33/32	08:49	09:20-09:47/27
	21:37	20:38	19:28	17:25		16:43		16:46	
31	06:08	06:56		07:35				08:49	09:20-09:48/28
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	12		248		871	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: SAM_WT01 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20 06:44-06:46/2	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:42-06:44/2	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:40-06:42/2	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22 06:50-06:52/2	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24 06:51-06:53/2	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25 06:53-06:54/1	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36 07:03-07:05/2	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38 07:05-07:07/2	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:40 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38 07:01-07:03/2	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35 06:59-07:01/2	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33 06:57-06:59/2	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	6	6	0	0	10	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April		May		June	
1	08:49	08:24	07:32	07:23		06:20		05:36	06:04-06:06/2
	16:48	17:34	18:24	20:17		21:06		21:50	
2	08:49	08:22	07:30	07:21		06:18		05:35	06:04-06:06/2
	16:49	17:36	18:26	20:18		21:08		21:51	
3	08:49	08:21	07:28	07:19		06:16		05:35	06:03-06:05/2
	16:50	17:38	18:28	20:20		21:09		21:52	
4	08:49	08:19	07:26	07:16		06:14		05:34	
	16:51	17:40	18:30	20:22		21:11		21:53	
5	08:49	08:18	07:23	07:14		06:13		05:33	
	16:52	17:42	18:31	20:23		21:13		21:54	
6	08:49	08:16	07:21	07:12	07:34-07:36/2	06:11		05:33	
	16:53	17:43	18:33	20:25		21:14		21:55	
7	08:48	08:14	07:19	07:10	07:32-07:36/4	06:09		05:32	
	16:55	17:45	18:35	20:27		21:16		21:56	
8	08:48	08:13	07:17	07:07	07:30-07:35/5	06:07		05:32	
	16:56	17:47	18:37	20:28		21:17		21:57	
9	08:47	08:11	07:15	07:05	07:28-07:34/6	06:06		05:31	
	16:57	17:49	18:38	20:30		21:19		21:58	
10	08:47	08:09	07:12	07:03		06:04	06:29-06:30/1	05:31	
	16:59	17:51	18:40	20:32		21:20		21:59	
11	08:46	08:07	07:10	07:01		06:02		05:30	
	17:00	17:52	18:42	20:33		21:22		21:59	
12	08:46	08:06	07:08	06:59		06:01		05:30	
	17:01	17:54	18:43	20:35		21:23		22:00	
13	08:45	08:04	07:06	06:57		05:59		05:30	
	17:03	17:56	18:45	20:37		21:25		22:01	
14	08:44	08:02	07:04	06:54		05:58		05:30	
	17:04	17:58	18:47	20:38		21:26		22:01	
15	08:44	08:00	07:01	06:52	07:15-07:17/2	05:56		05:29	
	17:06	18:00	18:49	20:40		21:28		22:02	
16	08:43	07:58	06:59	06:50	07:13-07:17/4	05:55		05:29	
	17:07	18:01	18:50	20:42		21:29		22:02	
17	08:42	07:56	06:57	06:48	07:11-07:16/5	05:53		05:29	
	17:09	18:03	18:52	20:43		21:31		22:03	
18	08:41	07:54	06:55	06:46	07:09-07:15/6	05:52		05:29	
	17:11	18:05	18:54	20:45		21:32		22:03	
19	08:40	07:52	06:52	06:44	07:10-07:12/2	05:50		05:29	
	17:12	18:07	18:55	20:46		21:34		22:04	
20	08:39	07:50	06:50	06:42		05:49		05:29	
	17:14	18:09	18:57	20:48		21:35		22:04	
21	08:38	07:48	06:48	06:40		05:48		05:29	
	17:15	18:10	18:59	20:50		21:37		22:04	
22	08:37	07:46	06:46	06:38		05:47		05:30	
	17:17	18:12	19:00	20:51		21:38		22:04	
23	08:36	07:44	06:43	06:36		05:45		05:30	
	17:19	18:14	19:02	20:53		21:39		22:05	
24	08:35	07:42	06:41	06:33		05:44		05:30	
	17:20	18:16	19:04	20:55		21:41		22:05	
25	08:33	07:40	06:39	06:31		05:43		05:30	
	17:22	18:17	19:05	20:56		21:42		22:05	
26	08:32	07:38	06:37	06:29		05:42		05:31	
	17:24	18:19	19:07	20:58		21:43		22:05	
27	08:31	07:36	06:34	06:28		05:41		05:31	
	17:26	18:21	19:09	21:00		21:45		22:05	
28	08:30	07:34	06:32	06:26		05:40		05:32	
	17:27	18:23	19:10	21:01		21:46		22:05	
29	08:28		07:30	06:24		05:39	06:07-06:08/1	05:32	
	17:29		20:12	21:03		21:47		22:04	
30	08:27		07:28	06:22		05:38	06:06-06:07/1	05:33	
	17:31		20:13	21:04		21:48		22:04	
31	08:25		07:25			05:37	06:05-06:07/2		
	17:33		20:15			21:49			
Potential sun hours	262	279	367	415		482		495	
Sum of minutes with flicker	0	0	0	36		5		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10		06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12	06:40-06:41/1	07:00	07:26-07:32/6	07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02	07:27-07:32/5	07:49	07:42	08:30
	22:03		21:29		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03	07:29-07:33/4	07:51	07:43	08:31
	22:03		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05	07:30-07:32/2	07:52	07:45	08:32
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06		07:54	07:47	08:34
	22:01		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08		07:56	07:49	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41	06:11-06:13/2	06:22		07:11		07:59	07:52	08:37
	22:00		21:18		20:13		19:05	17:06	16:38
11	05:42	06:12-06:14/2	06:24		07:13		08:01	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43	06:13-06:15/2	06:25		07:14		08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44	06:14-06:15/1	06:27		07:16		08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45	06:15-06:16/1	06:29		07:17		08:06	07:59	08:41
	21:56		21:10		20:04		18:57	17:00	16:38
15	05:46		06:30		07:19		08:07	08:01	08:42
	21:55		21:08		20:02		18:54	16:58	16:38
16	05:47		06:32		07:20		08:09	08:02	08:43
	21:54		21:07		19:59		18:52	16:57	16:38
17	05:48		06:33		07:22		08:11	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50		06:35		07:24		08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51		06:36		07:25		08:14	08:07	08:45
	21:51		21:01		19:52		18:46	16:53	16:39
20	05:52		06:38		07:27		08:16	08:09	08:46
	21:50		20:59		19:50		18:44	16:52	16:39
21	05:53		06:40		07:28		08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55		06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56		06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44	07:14-07:17/3	07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46	07:12-07:18/6	07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47	07:14-07:19/5	07:36		07:26	08:18	08:49
	21:42		20:46		19:36		17:32	16:46	16:42
27	06:02		06:49	07:15-07:19/4	07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51	07:17-07:19/2	07:39		07:29	08:22	08:49
	21:40		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52		07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54		07:43		07:33	08:24	08:49
	21:37		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:23		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	8		21		17		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14 07:37-07:38/1	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06 07:32-07:33/1	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57 07:19-07:21/2	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:22/5	05:58	05:30	05:45	06:29 06:59-07:05/6	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52 07:15-07:22/7	05:56	05:29	05:46	06:30 06:57-07:06/9	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:21/8	05:55	05:29	05:47	06:32 06:59-07:07/8	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:12-07:20/8	05:53	05:29	05:48	06:33 07:00-07:07/7	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46 07:13-07:18/5	05:52	05:29	05:50	06:35 07:02-07:07/5	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51 06:20-06:22/2	06:36 07:03-07:06/3	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52 06:21-06:23/2	06:38 07:05-07:06/1	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48 06:14-06:15/1	05:29	05:53 06:23-06:25/2	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:47 06:13-06:15/2	05:30	05:55 06:24-06:26/2	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36 06:59-07:01/2	05:45 06:12-06:14/2	05:30	05:56 06:25-06:26/1	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:34 06:57-07:00/3	05:44 06:11-06:13/2	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32 06:55-07:00/5	05:43	05:30	05:59	06:46 07:16-07:21/5	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30 06:53-07:00/7	05:42	05:31	06:00	06:47 07:14-07:23/9	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28 06:51-06:59/8	05:41	05:31	06:02	06:49 07:15-07:23/8	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26 06:49-06:58/9	05:40	05:32	06:03	06:51 07:17-07:23/6	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:51-06:57/6	05:39	05:32	06:04	06:52 07:18-07:23/5	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54 07:20-07:22/2	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	76	7	0	9	74	1	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 08:58-09:13/15	07:32	07:23 07:45-07:53/8	06:20 06:44-06:47/3	05:36
	16:48	17:35	18:25	20:17	21:06 06:53-07:23/30	21:50
2	08:49	08:22 08:59-09:12/13	07:30	07:21 07:43-07:55/12	06:18 06:42-06:46/4	05:35
	16:49	17:36	18:26	20:19	21:08 06:53-07:22/29	21:51
3	08:49	08:21 09:01-09:10/9	07:28	07:19 07:41-07:55/14	06:16 06:41-06:46/5	05:35
	16:50	17:38	18:28	20:20	21:09 06:53-07:22/29	21:52
4	08:49	08:19 09:04-09:08/4	07:26	07:16 07:39-07:56/17	06:14 06:39-06:44/5	05:34
	16:51	17:40 08:45-08:46/1	18:30	20:22	21:11 06:53-07:22/29	21:53
5	08:49	08:18 08:43-08:46/3	07:23	07:14 07:37-07:56/19	06:13 06:53-07:21/28	05:33
	16:52	17:42	18:32	20:23	21:13	21:54
6	08:49	08:16 08:41-08:46/5	07:21	07:12 07:35-07:55/20	06:11 06:53-07:20/27	05:33
	16:54	17:43	18:33	20:25	21:14	21:55
7	08:48 09:18-09:19/1	08:14 08:39-08:47/8	07:19	07:10 07:35-07:55/20	06:09 06:54-07:20/26	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13 08:38-08:48/10	07:17	07:08 07:35-07:54/19	06:07 06:32-06:33/1	05:32
	16:56	17:47	18:37	20:28	21:17 06:55-07:19/24	21:57
9	08:47 09:17-09:21/4	08:11 08:36-08:48/12	07:15 07:38-07:39/1	07:05 07:28-07:29/1	06:06 06:31-06:34/3	05:31
	16:57	17:49	18:38	20:30 07:35-07:53/18	21:19 06:56-07:18/22	21:58
10	08:47 09:16-09:21/5	08:09 08:34-08:48/14	07:13 07:35-07:39/4	07:03 07:36-07:52/16	06:04 06:29-06:34/5	05:31
	16:59	17:51	18:40	20:32	21:20 06:57-07:17/20	21:59
11	08:46 09:15-09:22/7	08:07 08:32-08:47/15	07:10 07:33-07:39/6	07:01 07:37-07:49/12	06:02 06:28-06:36/8	05:30
	17:00	17:53	18:42	20:33	21:22 06:58-07:16/18	21:59
12	08:46 09:15-09:23/8	08:06 08:33-08:46/13	07:08 07:31-07:38/7	06:59 07:39-07:46/7	06:01 06:26-06:36/10	05:30
	17:02	17:54	18:44	20:35	21:23 06:59-07:14/15	22:00
13	08:45 09:14-09:24/10	08:04 08:34-08:45/11	07:06 07:28-07:37/9	06:57	05:59 06:25-06:37/12	05:30
	17:03	17:56	18:45	20:37	21:25 07:02-07:12/10	22:01
14	08:44 09:13-09:24/11	08:02 08:35-08:43/8	07:04 07:26-07:34/8	06:54	05:58 06:23-06:36/13	05:30
	17:04	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:01 07:24-07:31/7	06:52	05:56 06:22-06:37/15	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:25/14	07:58	06:59 07:22-07:32/10	06:50	05:55 06:21-06:37/16	05:29
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56	06:57 07:19-07:31/12	06:48	05:53 06:19-06:36/17	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:25/16	07:54	06:55 07:17-07:31/14	06:46	05:52 06:19-06:36/17	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:25/15	07:52	06:52 07:15-07:31/16	06:44	05:51 06:19-06:36/17	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:09/2	07:50	06:50 07:16-07:30/14	06:42 07:08-07:13/5	05:49 06:20-06:36/16	05:29
	17:14 09:11-09:25/14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:09/4	07:49	06:48 07:16-07:27/11	06:40 07:04-07:17/13	05:48 06:19-06:35/16	05:30
	17:16 09:11-09:24/13	18:10	18:59	20:50	21:37	22:04
22	08:37 09:04-09:11/7	07:46	06:46 07:18-07:25/7	06:38 07:01-07:19/18	05:47 06:20-06:35/15	05:30
	17:17 09:12-09:24/12	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:12/9	07:44	06:43 07:06-07:08/2	06:36 06:59-07:20/21	05:45 06:21-06:34/13	05:30
	17:19 09:14-09:23/9	18:14	19:02	20:53	21:39	22:05
24	08:35 09:01-09:12/11	07:42	06:41 07:04-07:07/3	06:34 06:58-07:21/23	05:44 06:22-06:33/11	05:30
	17:21 09:15-09:21/6	18:16	19:04	20:55	21:41	22:05
25	08:33 09:00-09:13/13	07:40	06:39 07:01-07:05/4	06:32 06:56-07:22/26	05:43 06:23-06:32/9	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 08:59-09:14/15	07:38	06:37	06:30 06:55-07:22/27	05:42 06:25-06:30/5	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 08:57-09:14/17	07:36	06:34	06:28 06:54-07:22/28	05:41	05:31
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 08:56-09:14/18	07:34	06:32	06:26 06:54-07:22/28	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28 08:56-09:14/18		07:30	06:24 06:54-07:23/29	05:39	05:32
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:57-09:14/17		07:28 07:50-07:51/1	06:22 06:46-06:47/1	05:38	05:33
	17:31		20:14	21:04 06:54-07:23/29	21:48	22:04
31	08:25 08:57-09:13/16		07:25 07:48-07:52/4		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	322	141	140	431	543	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 06:37-06:46/9	06:57 07:37-07:49/12	07:44 08:09-08:17/8	07:36 08:04-08:17/13	08:26 08:57-09:04/7
	22:04	21:33 07:09-07:25/16	20:33	19:25	17:21	16:42
2	05:34	06:10 06:39-06:46/7	06:59 07:34-07:50/16	07:46 08:11-08:17/6	07:38 08:06-08:17/11	08:27 08:59-09:05/6
	22:04	21:32 07:07-07:26/19	20:31	19:23	17:19	16:41
3	05:35	06:12 06:40-06:44/4	07:00 07:26-07:27/1	07:48 08:12-08:17/5	07:40 08:07-08:16/9	08:29 09:00-09:04/4
	22:03	21:30 07:07-07:28/21	20:29 07:33-07:51/18	19:21	17:17	16:41
4	05:36	06:13 06:41-06:43/2	07:02 07:32-07:51/19	07:49 08:14-08:16/2	07:42 08:09-08:16/7	08:30 09:02-09:05/3
	22:03	21:29 07:05-07:28/23	20:26	19:19	17:16	16:40
5	05:37	06:15 07:05-07:30/25	07:03 07:32-07:52/20	07:51	07:43 08:11-08:16/5	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16 07:04-07:30/26	07:05 07:31-07:51/20	07:52	07:45 08:13-08:15/2	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18 07:04-07:31/27	07:06 07:32-07:51/19	07:54	07:47 08:34-08:38/4	08:34
	22:01	21:23	20:20	19:12	17:10 08:15-08:16/1	16:39
8	05:39	06:19 07:03-07:31/28	07:08 07:33-07:50/17	07:56	07:49 08:31-08:41/10	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21 06:49-06:54/5	07:10 07:35-07:50/15	07:57	07:50 08:30-08:43/13	08:36
	22:00	21:20 07:02-07:31/29	20:15	19:07	17:07	16:38
10	05:41	06:23 06:50-06:55/5	07:11 07:36-07:48/12	07:59	07:52 08:29-08:44/15	08:37
	22:00	21:18 07:02-07:31/29	20:13	19:05	17:06	16:38
11	05:42	06:24 06:51-06:55/4	07:13 07:38-07:47/9	08:01	07:54 08:29-08:45/16	08:38
	21:59	21:16 07:01-07:31/30	20:11	19:03	17:04	16:38
12	05:43	06:26 06:53-06:55/2	07:14 07:39-07:44/5	08:02	07:55 08:28-08:45/17	08:39
	21:58	21:14 07:02-07:31/29	20:08	19:01	17:03	16:38
13	05:44	06:27 06:54-06:55/1	07:16 07:41-07:42/1	08:04	07:57 08:28-08:46/18	08:40
	21:57	21:12 07:01-07:31/30	20:06	18:59	17:01	16:38
14	05:45	06:29 07:02-07:31/29	07:17	08:06	07:59 08:28-08:46/18	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46	06:30 07:01-07:30/29	07:19	08:07	08:01 08:30-08:46/16	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47	06:32 07:02-07:30/28	07:20	08:09	08:02 08:32-08:47/15	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:02-07:29/27	07:22	08:11	08:04 08:34-08:47/13	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:34-06:41/7	06:35 07:03-07:28/25	07:24 07:49-07:53/4	08:12	08:06 08:35-08:46/11	08:44
	21:52	21:03	19:55	18:48	16:54 08:49-08:55/6	16:39
19	05:51 06:32-06:42/10	06:37 07:04-07:26/22	07:25 07:50-07:54/4	08:14	08:07 08:37-08:46/9	08:45
	21:51	21:01	19:53	18:46	16:53 08:48-08:57/9	16:39
20	05:52 06:32-06:44/12	06:38 07:05-07:26/21	07:27 07:52-07:55/3	08:16	08:09 08:39-08:46/7	08:46
	21:50	20:59	19:50	18:44	16:52 08:47-08:59/12	16:39
21	05:54 06:31-06:45/14	06:40 07:06-07:23/17	07:28 08:05-08:10/5	08:17	08:11 08:41-08:45/4	08:46
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51 08:47-09:00/13	16:40
22	05:55 06:30-06:45/15	06:41 07:09-07:21/12	07:30 08:02-08:12/10	08:19	08:12 08:43-08:45/2	08:47
	21:48	20:54	19:46	18:40	16:50 08:47-09:01/14	16:40
23	05:56 06:30-06:46/16	06:43	07:32 08:00-08:13/13	08:21	08:14 08:46-09:01/15	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:46/17	06:44	07:33 07:59-08:14/15	08:23	08:15 08:46-09:02/16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:29-06:47/18	06:46	07:35 07:59-08:14/15	07:24	08:17 08:48-09:03/15	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:47/18	06:48	07:36 08:01-08:14/13	07:26	08:19 08:49-09:03/14	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:47/17	06:49	07:38 08:03-08:14/11	07:28 08:07-08:10/3	08:20 08:51-09:04/13	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:48/16	06:51	07:39 08:04-08:12/8	07:29 08:04-08:13/9	08:22 08:53-09:04/11	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:47/14	06:52	07:41 08:06-08:13/7	07:31 08:03-08:15/12	08:23 08:54-09:04/10	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:47/13	06:54	07:43 08:07-08:15/8	07:33 08:02-08:16/14	08:24 08:56-09:04/8	08:49
	21:37 07:14-07:20/6	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:47/11	06:55 07:39-07:47/8		07:35 08:02-08:17/15		08:49
	21:35 07:11-07:23/12	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	216	589	301	74	392	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:26-09:43/17	08:24	07:32	07:23 07:46-07:50/4	06:20 06:44-07:03/19	05:36
	16:48	17:35	18:25	20:17 08:19-09:15/56	21:06	21:50
2	08:49 09:26-09:43/17	08:22	07:30	07:21 07:43-07:45/2	06:18 06:42-07:04/22	05:36
	16:49	17:36	18:26	20:19 08:19-09:14/55	21:08	21:51
3	08:49 09:27-09:44/17	08:21	07:28 07:52-08:03/11	07:19 08:19-09:14/55	06:16 06:41-07:05/24	05:35
	16:50 09:20-09:21/1	17:38	18:28	20:20	21:09	21:52
4	08:49 09:27-09:43/16	08:19	07:26 07:50-08:06/16	07:16 08:19-09:14/55	06:15 06:39-07:05/26	05:34
	16:51 09:19-09:21/2	17:40	18:30	20:22	21:11	21:53
5	08:49 09:28-09:44/16	08:18	07:23 07:47-08:06/19	07:14 08:19-09:13/54	06:13 06:37-07:05/28	05:33
	16:52 09:19-09:22/3	17:42	18:32	20:23	21:13	21:54
6	08:49 09:29-09:43/14	08:16	07:21 07:45-08:08/23	07:12 08:18-09:12/54	06:11 06:36-07:05/29	05:33
	16:54 09:18-09:22/4	17:44	18:33	20:25	21:14	21:55
7	08:48 09:30-09:43/13	08:14	07:19 07:44-08:09/25	07:10 08:18-09:11/53	06:09 06:34-07:06/32	05:32
	16:55 09:18-09:22/4	17:45	18:35	20:27	21:16	21:56
8	08:48 09:31-09:43/12	08:13	07:17 07:43-08:10/27	07:08 08:19-09:10/51	06:08 06:34-07:05/31	05:32
	16:56 09:17-09:22/5	17:47	18:37 07:40-07:42/2	20:28	21:17	21:57
9	08:47 09:32-09:43/11	08:11	07:15 07:38-08:09/31	07:05 08:19-09:09/50	06:06 06:35-07:06/31	05:31
	16:57 09:17-09:23/6	17:49	18:38	20:30	21:19	21:58
10	08:47 09:33-09:42/9	08:09	07:13 07:35-08:10/35	07:03 08:20-09:08/48	06:04 06:36-07:05/29	05:31
	16:59 09:16-09:23/7	17:51	18:40	20:32	21:20	21:59
11	08:46 09:35-09:40/5	08:07	07:10 07:33-08:10/37	07:01 08:19-09:06/47	06:03 06:38-07:05/27	05:31
	17:00 09:15-09:23/8	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08 07:41-08:10/29	06:59 08:20-09:05/45	06:01 06:39-07:05/26	05:30
	17:02	17:54	18:44 07:31-07:39/8	20:35	21:23	22:00
13	08:45 09:15-09:23/8	08:04	07:06 07:40-08:09/29	06:57 08:21-09:03/42	05:59 06:40-07:05/25	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:16-09:22/6	08:02 08:26-08:30/4	07:04 07:40-08:08/28	06:54 08:22-09:02/40	05:58 06:39-07:03/24	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00 08:24-08:32/8	07:01 07:41-08:08/27	06:52 08:23-09:00/37	05:56 06:40-07:03/23	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:33/11	06:59 07:41-08:07/26	06:50 08:25-08:58/33	05:55 06:41-07:03/22	05:29
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:34/14	06:57 07:39-08:05/26	06:48 08:26-08:55/29	05:53 06:41-07:01/20	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:34/16	06:55 07:36-08:08/32	06:46 08:28-08:53/25	05:52 06:43-07:00/17	05:29
	17:11	18:05	18:54 07:17-07:19/2	20:45	21:32	22:03
19	08:40	07:52 08:16-08:35/19	06:52 07:34-08:10/36	06:44 08:31-08:49/18	05:51 06:44-07:00/16	05:29
	17:12	18:07	18:55 07:15-07:19/4	20:47	21:34	22:04
20	08:39	07:51 08:14-08:35/21	06:50 07:32-08:12/40	06:42 08:37-08:43/6	05:49 06:46-06:58/12	05:30
	17:14	18:09	18:57 07:13-07:18/5	20:48	21:35	22:04
21	08:38	07:49 08:12-08:35/23	06:48 07:30-08:12/42	06:40 07:03-07:05/2	05:48 06:47-06:56/9	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47 08:10-08:35/25	06:46 07:28-08:13/45	06:38 07:01-07:05/4	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:44 08:10-08:34/24	06:43 07:27-08:14/47	06:36 06:59-07:05/6	05:45	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:42 08:12-08:33/21	06:41 07:25-08:14/49	06:34 06:57-07:05/8	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:16-08:32/16	06:39 07:24-08:15/51	06:32 06:55-07:04/9	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:17-08:31/14	06:37 07:23-08:15/52	06:30 06:53-07:03/10	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:20-08:28/8	06:34 07:23-08:16/53	06:28 06:52-07:02/10	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32 07:21-08:15/54	06:26 06:49-07:00/11	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30 07:52-07:53/1	06:24 06:48-07:01/13	05:39	05:33
	17:29		20:12 08:21-09:15/54	21:03	21:47	22:04
30	08:27		07:28 07:50-07:52/2	06:22 06:46-07:02/16	05:38	05:33
	17:31		20:14 08:20-09:16/56	21:05	21:48	22:04
31	08:25		07:25 07:48-07:52/4		05:37	
	17:33		20:15 08:20-09:16/56		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	209	224	1084	948	492	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 06:49-07:15/26	06:57 08:19-09:06/47	07:44 08:20-08:49/29	07:36	08:26 09:17-09:22/5
	22:04	21:33	20:33	19:25 08:11-08:17/6	17:21	16:42 08:57-09:05/8
2	05:34	06:10 06:48-07:16/28	06:59 08:18-09:06/48	07:46 08:20-08:49/29	07:38	08:27 09:17-09:25/8
	22:04	21:32	20:31	19:23 08:11-08:19/8	17:19	16:41 08:59-09:06/7
3	05:35	06:12 06:46-07:16/30	07:00 08:17-09:07/50	07:48 08:12-08:48/36	07:40	08:29 09:16-09:26/10
	22:03	21:30	20:29	19:21	17:17	16:41 09:00-09:06/6
4	05:36	06:13 06:45-07:15/30	07:02 08:16-09:07/51	07:49 08:14-08:47/33	07:42	08:30 09:16-09:28/12
	22:03	21:29	20:26	19:19	17:16	16:40 09:02-09:07/5
5	05:37	06:15 06:45-07:16/31	07:03 08:15-09:08/53	07:51 08:16-08:47/31	07:43	08:31 09:15-09:28/13
	22:03	21:27	20:24	19:16	17:14	16:40 09:03-09:07/4
6	05:37	06:16 06:44-07:15/31	07:05 08:14-09:08/54	07:52 08:19-08:45/26	07:45	08:33 09:15-09:29/14
	22:02	21:25	20:22	19:14 08:17-08:18/1	17:12	16:39 09:04-09:08/4
7	05:38	06:18 06:46-07:16/30	07:06 08:14-09:08/54	07:54 08:20-08:44/24	07:47	08:34 09:16-09:31/15
	22:01	21:23	20:20	19:12	17:11	16:39 09:06-09:09/3
8	05:39	06:19 06:47-07:15/28	07:08 08:13-09:08/55	07:56 08:22-08:43/21	07:49	08:35 09:15-09:31/16
	22:01	21:22	20:18	19:10	17:09	16:39 09:07-09:09/2
9	05:40	06:21 06:49-07:15/26	07:10 08:13-09:08/55	07:57 08:23-08:41/18	07:50	08:36 09:15-09:32/17
	22:00	21:20	20:15	19:07	17:07	16:38 09:08-09:09/1
10	05:41	06:23 06:50-07:13/23	07:11 07:36-07:37/1	07:59 08:25-08:38/13	07:52	08:37 09:15-09:32/17
	22:00	21:18	20:13 08:12-09:08/56	19:05	17:06	16:38
11	05:42	06:24 06:51-07:12/21	07:13 07:38-07:42/4	08:01 08:29-08:34/5	07:54	08:38 09:16-09:33/17
	21:59	21:16	20:11 08:12-09:08/56	19:03	17:04	16:38
12	05:43	06:26 06:53-07:12/19	07:14 07:39-07:43/4	08:02	07:55	08:39 09:16-09:33/17
	21:58	21:14	20:09 08:11-09:07/56	19:01	17:03	16:38
13	05:44	06:27 06:54-07:10/16	07:16 07:41-07:44/3	08:04	07:57	08:40 09:16-09:34/18
	21:57	21:12	20:06 08:12-09:07/55	18:59	17:01	16:38
14	05:45	06:29 06:56-07:08/12	07:17 07:42-07:43/1	08:06 08:55-08:57/2	07:59	08:41 09:17-09:34/17
	21:56	21:10	20:04 08:11-09:06/55	18:57	17:00	16:38
15	05:46	06:30 06:57-07:08/11	07:19 08:11-09:06/55	08:07 08:51-09:02/11	08:01	08:42 09:17-09:35/18
	21:55	21:09	20:02	18:55	16:58	16:38
16	05:48	06:32 06:59-07:10/11	07:21 08:11-09:04/53	08:09 08:48-09:03/15	08:02	08:43 09:18-09:36/18
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:00-07:10/10	07:22 08:12-09:04/52	08:11 08:45-09:04/19	08:04	08:44 09:18-09:36/18
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35 07:02-07:11/9	07:24 08:11-09:02/51	08:12 08:43-09:05/22	08:06	08:44 09:18-09:36/18
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37 07:03-07:10/7	07:25 08:12-09:02/50	08:14 08:41-09:06/25	08:07	08:45 09:19-09:37/18
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:11/6	07:27 08:13-09:01/48	08:16 08:42-09:06/24	08:09	08:46 09:20-09:38/18
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:10/4	07:28 08:14-08:59/45	08:17 08:43-09:05/22	08:11	08:46 09:20-09:38/18
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 06:59-07:05/6	06:41 07:08-07:09/1	07:30 08:15-08:58/43	08:19 08:45-09:05/20	08:12	08:47 09:21-09:39/18
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56 06:56-07:07/11	06:43 08:39-08:48/9	07:32 08:16-08:56/40	08:21 08:47-09:05/18	08:14	08:47 09:21-09:39/18
	21:46	20:52	19:43 07:56-08:01/5	18:38	16:49	16:41
24	05:58 06:54-07:08/14	06:44 08:35-08:54/19	07:33 08:17-08:54/37	08:23 08:49-09:05/16	08:15	08:48 09:21-09:39/18
	21:45	20:50	19:41 07:58-08:02/4	18:36	16:48	16:41
25	05:59 06:54-07:10/16	06:46 08:31-08:56/25	07:35 08:18-08:51/33	07:24 07:51-08:04/13	08:17	08:48 09:22-09:40/18
	21:44	20:48	19:39 07:59-08:02/3	17:34	16:47	16:42
26	06:00 06:53-07:11/18	06:48 08:29-08:59/30	07:36 08:21-08:49/28	07:26 07:52-08:02/10	08:19	08:49 09:22-09:40/18
	21:42	20:46	19:37 08:01-08:02/1	17:32	16:46	16:43
27	06:02 06:52-07:12/20	06:49 08:26-09:00/34	07:38 08:23-08:48/25	07:28 07:54-08:01/7	08:20	08:49 09:23-09:41/18
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:51-07:14/23	06:51 08:25-09:02/37	07:40 08:22-08:48/26	07:29 07:56-07:59/3	08:22 08:56-09:02/6	08:49 09:23-09:41/18
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:50-07:14/24	06:52 08:23-09:03/40	07:41 08:21-08:49/28	07:31	08:23 08:55-09:03/8	08:49 09:23-09:41/18
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:50-07:14/24	06:54 08:22-09:04/42	07:43 08:20-08:48/28	07:33	08:24 08:56-09:04/8	08:49 09:24-09:42/18
	21:37	20:37	19:28	17:25	16:43	16:46
31	06:07 06:50-07:15/25	06:55 08:20-09:05/45		07:35		08:49 09:25-09:42/17
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	181	691	1413	507	22	541

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 08:03-08:38/35 18:25	07:23 20:17	06:20 06:44-06:45/1 21:06 06:47-06:53/6	05:36 06:27-06:48/21 21:50
2	08:49 16:49	08:22 17:36	07:30 08:04-08:40/36 18:26	07:21 20:19	06:18 06:42-06:44/2 21:08	05:35 06:28-06:49/21 21:52
3	08:49 16:50	08:21 17:38	07:28 08:07-08:41/34 18:28	07:19 20:20	06:16 21:09	05:35 06:28-06:48/20 21:53
4	08:49 16:51	08:19 08:57-09:04/7 17:40	07:26 08:07-08:42/35 18:30	07:16 20:22	06:14 21:11	05:34 06:29-06:47/18 21:54
5	08:49 16:52	08:18 08:53-09:08/15 17:42	07:24 08:05-08:42/37 18:32	07:14 20:24	06:13 21:13	05:33 06:30-06:47/17 21:55
6	08:49 16:54	08:16 08:51-09:10/19 17:44	07:21 08:04-08:42/38 18:33	07:12 20:25	06:11 06:36-06:38/2 21:14	05:33 06:30-06:46/16 21:55
7	08:48 16:55	08:14 08:49-09:11/22 17:45	07:19 08:04-08:43/39 18:35	07:10 20:27	06:09 06:34-06:37/3 21:16	05:32 06:31-06:47/16 21:56
8	08:48 16:56	08:13 08:48-09:13/25 17:47	07:17 08:03-08:43/40 18:37	07:08 20:28	06:07 06:32-06:36/4 21:17	05:32 06:31-06:46/15 21:57
9	08:47 16:57	08:11 08:47-09:14/27 17:49	07:15 08:02-08:42/40 18:38	07:05 20:30	06:06 06:31-06:43/12 21:19	05:31 06:33-06:45/12 21:58
10	08:47 16:59	08:09 08:46-09:15/29 17:51	07:13 08:02-08:42/40 18:40 07:44-07:47/3	07:03 20:32	06:04 06:29-06:44/15 21:20	05:31 06:34-06:45/11 21:59
11	08:46 17:00	08:08 08:45-09:16/31 17:53	07:10 08:02-08:42/40 18:42 07:39-07:52/13	07:01 07:24-07:29/5 20:33	06:02 06:28-06:46/18 21:22	05:30 06:35-06:45/10 22:00
12	08:46 17:02	08:06 08:45-09:16/31 17:54	07:08 08:02-08:42/40 18:44 07:36-07:55/19	06:59 07:21-07:29/8 20:35	06:01 06:26-06:47/21 21:24	05:30 06:35-06:44/9 22:00
13	08:45 17:03	08:04 08:44-09:17/33 17:56	07:06 08:02-08:40/38 18:45 07:34-07:55/21	06:57 07:19-07:30/11 20:37	05:59 06:25-06:48/23 21:25	05:30 06:36-06:43/7 22:01
14	08:44 17:04	08:02 08:44-09:17/33 17:58	07:04 08:02-08:40/38 18:47 07:32-07:56/24	06:54 07:17-07:31/14 20:38	05:58 06:25-06:48/23 21:27	05:30 06:38-06:43/5 22:01
15	08:44 17:06	08:00 08:43-09:17/34 18:00	07:01 08:03-08:39/36 18:49 07:31-07:57/26	06:52 07:15-07:31/16 20:40	05:56 06:25-06:49/24 21:28	05:30 06:39-06:42/3 22:02
16	08:43 17:08	07:58 08:43-09:17/34 18:02	06:59 08:03-08:38/35 18:50 07:30-07:58/28	06:50 07:13-07:31/18 20:42	05:55 06:25-06:50/25 21:30	05:29 22:02
17	08:42 17:09	07:56 08:43-09:17/34 18:03	06:57 08:03-08:36/33 18:52 07:29-07:58/29	06:48 07:13-07:31/18 20:43	05:53 06:24-06:49/25 21:31	05:29 22:03
18	08:41 17:11	07:54 08:43-09:17/34 18:05	06:55 08:04-08:35/31 18:54 07:29-07:58/29	06:46 07:13-07:30/17 20:45	05:52 06:24-06:50/26 21:32	05:29 22:03
19	08:40 17:12	07:53 08:44-09:16/32 18:07	06:52 08:06-08:33/27 18:55 07:28-07:58/30	06:44 07:13-07:29/16 20:47	05:51 06:24-06:50/26 21:34	05:29 22:04
20	08:39 17:14	07:51 08:44-09:16/32 18:09	06:50 08:07-08:31/24 18:57 07:28-07:58/30	06:42 07:14-07:28/14 20:48	05:49 06:24-06:51/27 21:35	05:29 22:04
21	08:38 17:16	07:49 08:45-09:15/30 18:11 08:12-08:16/4	06:48 08:09-08:27/18 18:59 07:28-07:56/28	06:40 07:15-07:27/12 20:50 07:03-07:05/2	05:48 06:23-06:50/27 21:37	05:30 22:04
22	08:37 17:17	07:47 08:45-09:14/29 18:12 08:10-08:18/8	06:46 08:12-08:23/11 19:00 07:28-07:56/28	06:38 07:17-07:24/7 20:51 07:01-07:06/5	05:47 06:23-06:50/27 21:38	05:30 22:04
23	08:36 17:19	07:45 08:46-09:13/27 18:14 08:08-08:19/11	06:43 07:28-07:55/27 19:02	06:36 06:59-07:06/7 20:53	05:45 06:24-06:50/26 21:39	05:30 22:05
24	08:35 17:21	07:42 08:48-09:11/23 18:16 08:06-08:19/13	06:41 07:28-07:53/25 19:04	06:34 06:57-07:06/9 20:55	05:44 06:24-06:50/26 21:41	05:30 22:05
25	08:33 17:22	07:40 08:49-09:10/21 18:18 08:04-08:20/16	06:39 07:29-07:52/23 19:05	06:32 06:55-07:06/11 20:56	05:43 06:24-06:50/26 21:42	05:31 22:05
26	08:32 17:24	07:38 08:02-08:33/31 18:19 08:51-09:07/16	06:37 07:31-07:50/19 19:07	06:30 06:53-07:05/12 20:58	05:42 06:24-06:50/26 21:43	05:31 22:05
27	08:31 17:26	07:36 08:03-08:36/33 18:21 08:55-09:04/9	06:34 07:32-07:48/16 19:09	06:28 06:51-07:04/13 21:00	05:41 06:25-06:50/25 21:45	05:31 22:05
28	08:30 17:27	07:34 08:02-08:37/35 18:23	06:32 07:34-07:44/10 19:10	06:26 06:50-07:03/13 21:01	05:40 06:25-06:49/24 21:46	05:32 06:41-06:45/4 22:05
29	08:28 17:29		07:30 20:12	06:24 06:48-07:02/14 21:03	05:39 06:26-06:50/24 21:47	05:32 06:40-06:46/6 22:05
30	08:27 17:31		07:28 20:14	06:22 06:46-06:55/9 21:05	05:38 06:26-06:50/24 21:48	05:33 06:40-06:48/8 22:04
31	08:25 17:33		07:25 20:15		05:37 06:27-06:49/22 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	0	778	1173	251	560	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:39-06:49/10 22:04	06:09 06:37-06:57/20 21:33	06:57 07:23-07:28/5 20:33	07:44 08:41-09:20/39 19:25 08:14-08:34/20	07:36 08:16-08:44/28 17:21	08:26 16:42
2	05:34 06:38-06:49/11 22:04	06:10 06:39-06:56/17 21:32	06:59 20:31	07:46 08:41-09:21/40 19:23 08:17-08:32/15	07:38 08:17-08:44/27 17:19	08:27 16:41
3	05:35 06:38-06:50/12 22:03	06:12 06:40-06:54/14 21:30	07:00 20:29	07:48 08:40-09:20/40 19:21 08:19-08:28/9	07:40 08:17-08:42/25 17:17	08:29 16:41
4	05:36 06:38-06:52/14 22:03	06:13 06:41-06:51/10 21:29	07:02 20:27	07:49 08:40-09:20/40 19:19	07:42 08:19-08:41/22 17:16	08:30 16:40
5	05:37 06:37-06:52/15 22:03	06:15 06:43-06:47/4 21:27	07:03 20:24	07:51 08:40-09:20/40 19:16	07:43 08:21-08:39/18 17:14	08:31 16:40
6	05:37 06:37-06:53/16 22:02	06:16 06:44-06:47/3 21:25	07:05 20:22	07:52 08:40-09:19/39 19:14	07:45 08:23-08:37/14 17:12	08:33 16:39
7	05:38 06:36-06:53/17 22:02	06:18 06:46-06:47/1 21:23	07:06 20:20	07:54 08:40-09:18/38 19:12	07:47 08:27-08:33/6 17:11	08:34 16:39
8	05:39 06:36-06:54/18 22:01	06:19 21:22	07:08 20:18	07:56 08:41-09:18/37 19:10	07:49 17:09	08:35 16:39
9	05:40 06:36-06:55/19 22:00	06:21 21:20	07:10 20:15	07:57 08:40-09:16/36 19:07	07:50 17:07	08:36 16:38
10	05:41 06:36-06:56/20 22:00	06:23 21:18	07:11 20:13	07:59 08:41-09:16/35 19:05	07:52 17:06	08:37 16:38
11	05:42 06:36-06:57/21 21:59	06:24 06:52-06:54/2 21:16	07:13 20:11	08:01 08:40-09:15/35 19:03	07:54 17:04	08:38 16:38
12	05:43 06:35-06:57/22 21:58	06:26 06:53-06:54/1 21:14 06:55-07:02/7	07:14 20:09	08:02 08:38-09:12/34 19:01	07:56 17:03	08:39 16:38
13	05:44 06:35-06:58/23 21:57	06:27 06:54-07:03/9 21:12	07:16 20:06	08:04 08:36-09:11/35 18:59	07:57 17:01	08:40 16:38
14	05:45 06:35-06:58/23 21:56	06:29 06:56-07:10/14 21:11	07:17 20:04	08:06 08:35-09:09/34 18:57	07:59 17:00	08:41 16:38
15	05:46 06:35-06:59/24 21:55	06:30 06:57-07:11/14 21:09	07:19 08:26-08:34/8 20:02	08:07 08:35-09:07/32 18:54 09:25-09:38/13	08:01 16:58	08:42 16:38
16	05:47 06:34-06:59/25 21:54	06:32 06:59-07:12/13 21:07	07:21 08:21-08:36/15 19:59	08:09 08:35-09:02/27 18:52 09:22-09:39/17	08:02 16:57	08:43 16:38
17	05:49 06:34-06:59/25 21:53	06:33 07:00-07:12/12 21:05	07:22 08:19-08:38/19 19:57	08:11 09:20-09:42/22 18:50 08:36-08:51/15	08:04 16:56	08:44 16:38
18	05:50 06:34-07:00/26 21:52	06:35 07:02-07:13/11 21:03	07:24 08:17-08:39/22 19:55	08:12 09:18-09:43/25 18:48 08:38-08:50/12	08:06 16:55	08:45 16:39
19	05:51 06:34-07:00/26 21:51	06:37 07:03-07:12/9 21:01	07:25 08:16-08:40/24 19:53	08:14 09:17-09:45/28 18:46 08:40-08:50/10	08:07 16:53	08:45 16:39
20	05:52 06:33-07:00/27 21:50	06:38 07:05-07:12/7 20:59	07:27 08:15-08:42/27 19:50	08:16 09:16-09:46/30 18:44 08:42-08:48/6	08:09 16:52	08:46 16:39
21	05:54 06:34-07:01/27 21:49	06:40 07:21-07:30/9 20:57 07:06-07:11/5	07:28 09:00-09:07/7 19:48 08:14-08:41/27	08:17 09:15-09:46/31 18:42 08:43-08:46/3	08:11 16:51	08:46 16:40
22	05:55 06:34-07:01/27 21:48	06:41 07:19-07:32/13 20:55 07:08-07:10/2	07:30 08:55-09:12/17 19:46 08:13-08:42/29	08:19 09:14-09:46/32 18:40	08:12 16:50	08:47 16:40
23	05:56 06:34-07:00/26 21:46	06:43 07:17-07:32/15 20:52	07:32 08:52-09:14/22 19:43 08:12-08:41/29	08:21 09:14-09:47/33 18:38	08:14 16:49	08:48 16:41
24	05:58 06:34-07:00/26 21:45	06:44 07:17-07:33/16 20:50	07:33 08:50-09:16/26 19:41 08:12-08:41/29	08:23 09:14-09:47/33 18:36	08:15 16:48	08:48 16:41
25	05:59 06:34-07:01/27 21:44	06:46 07:16-07:33/17 20:48	07:35 08:47-09:17/30 19:39 08:11-08:40/29	07:24 08:14-08:47/33 17:34	08:17 16:47	08:48 16:42
26	06:00 06:34-07:00/26 21:42	06:48 07:16-07:34/18 20:46	07:36 08:46-09:18/32 19:37 08:11-08:40/29	07:26 08:14-08:47/33 17:32	08:19 16:46	08:49 16:43
27	06:02 06:34-07:00/26 21:41	06:49 07:15-07:33/18 20:44	07:38 08:45-09:19/34 19:34 08:12-08:40/28	07:28 08:13-08:46/33 17:30	08:20 16:45	08:49 16:43
28	06:03 06:36-07:00/24 21:40	06:51 07:17-07:33/16 20:42	07:40 08:44-09:19/35 19:32 08:12-08:38/26	07:29 08:13-08:46/33 17:28	08:22 16:44	08:49 16:44
29	06:05 06:36-06:59/23 21:38	06:52 07:18-07:32/14 20:40	07:41 08:43-09:20/37 19:30 08:13-08:38/25	07:31 08:14-08:46/32 17:26	08:23 16:43	08:49 16:45
30	06:06 06:35-06:58/23 21:37	06:54 07:20-07:31/11 20:38	07:43 08:41-09:20/39 19:28 08:13-08:36/23	07:33 08:14-08:46/32 17:24	08:25 16:43	08:49 16:46
31	06:07 06:36-06:58/22 21:35	06:55 07:21-07:29/8 20:35	 	07:35 08:15-08:45/30 17:23	 	08:49 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	671	330	673	1161	140	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:47-10:30/43	08:24 08:52-09:29/37	07:32	07:23 07:48-07:54/6	06:20	05:36 06:23-06:34/11
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:48-10:30/42	08:22 08:52-09:29/37	07:30	07:21 07:51-08:00/9	06:18	05:36 06:22-06:37/15
	16:49	17:36	18:26	20:19 07:43-07:46/3	21:08	21:52
3	08:49 09:49-10:30/41	08:21 08:52-09:29/37	07:28	07:19 07:41-08:03/22	06:16	05:35 06:20-06:38/18
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:48-10:29/41	08:19 08:54-09:30/36	07:26	07:16 07:39-08:06/27	06:15	05:34 06:19-06:39/20
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:49-10:30/41	08:18 08:55-09:30/35	07:24	07:14 07:37-08:07/30	06:13	05:33 06:19-06:40/21
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 09:49-10:29/40	08:16 08:57-09:30/33	07:21	07:12 07:34-08:07/33	06:11	05:33 06:17-06:41/24
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:50-10:28/38	08:14 09:00-09:30/30	07:19	07:10 07:32-08:08/36	06:09	05:32 06:01-06:02/1
	16:55	17:45	18:35	20:27	21:16	21:56 06:17-06:42/25
8	08:48 09:50-10:27/37	08:13 09:01-09:30/29	07:17	07:08 07:32-08:09/37	06:08	05:32 06:01-06:03/2
	16:56	17:47	18:37	20:28	21:17	21:57 06:16-06:42/26
9	08:47 09:51-10:28/37	08:11 09:01-09:30/29	07:15	07:05 07:33-08:09/36	06:06	05:31 06:00-06:03/3
	16:57	17:49	18:38	20:30 07:28-07:30/2	21:19	21:58 06:16-06:43/27
10	08:47 09:51-10:28/37	08:09 09:02-09:29/27	07:13	07:03 07:34-08:09/35	06:04	05:31 06:00-06:04/4
	16:59	17:51	18:40	20:32 07:26-07:31/5	21:20	21:59 06:16-06:44/28
11	08:46 09:51-10:28/37	08:08 09:02-09:28/26	07:10	07:01 07:37-08:09/32	06:03	05:30 06:00-06:04/4
	17:00	17:53	18:42	20:33 07:24-07:31/7	21:22	22:00 06:16-06:45/29
12	08:46 09:51-10:28/37	08:06 09:03-09:27/24	07:08	06:59 07:35-08:08/33	06:01	05:30 05:59-06:04/5
	17:02	17:54	18:44	20:35 07:21-07:30/9	21:24	22:00 06:16-06:45/29
13	08:45 09:53-10:29/36	08:04 09:04-09:25/21	07:06	06:57 07:35-08:08/33	05:59	05:30 05:59-06:05/6
	17:03	17:56	18:45	20:37 07:19-07:29/10	21:25	22:01 06:16-06:46/30
14	08:44 09:53-10:30/37	08:02 09:06-09:24/18	07:04	06:55 07:35-08:08/33	05:58	05:30 05:59-06:05/6
	17:05	17:58	18:47	20:38 07:17-07:28/11	21:27	22:01 06:16-06:46/30
15	08:44 09:53-10:30/37	08:00 09:08-09:21/13	07:01	06:52 07:35-08:07/32	05:56	05:30 05:59-06:05/6
	17:06	18:00	18:49	20:40 07:18-07:26/8	21:28	22:02 06:16-06:47/31
16	08:43 09:54-10:30/36	07:58 09:12-09:17/5	06:59	06:50 07:35-08:07/32	05:55	05:29 05:59-06:06/7
	17:08	18:02	18:50	20:42	21:30	22:02 06:16-06:47/31
17	08:42 09:55-10:30/35	07:56	06:57 07:19-07:25/6	06:48 07:36-08:06/30	05:53	05:29 05:59-06:06/7
	17:09	18:03	18:52	20:43	21:31	22:03 06:16-06:48/32
18	08:41 09:55-10:30/35	07:54	06:55 07:17-07:27/10	06:46 07:36-08:05/29	05:52	05:29 05:59-06:06/7
	17:11	18:05	18:54	20:45	21:32	22:03 06:16-06:48/32
19	08:40 09:56-10:30/34	07:53	06:52 07:15-07:29/14	06:44 07:07-07:09/2	05:51	05:29 05:59-06:06/7
	17:12	18:07	18:55	20:47 07:37-08:04/27	21:34	22:04 06:16-06:48/32
20	08:39 09:57-10:30/33	07:51	06:50 07:13-07:29/16	06:42 07:05-07:08/3	05:49	05:29 05:59-06:07/8
	17:14	18:09	18:57	20:48 07:38-08:02/24	21:35	22:04 06:16-06:48/32
21	08:38 09:57-10:29/32	07:49	06:48 07:10-07:29/19	06:40 07:03-07:06/3	05:48	05:30 05:59-06:07/8
	17:16	18:11	18:59	20:50 07:39-08:00/21	21:37	22:04 06:16-06:48/32
22	08:37 09:58-10:28/30	07:47	06:46 07:09-07:29/20	06:38 07:01-07:03/2	05:47	05:30 06:00-06:08/8
	17:17	18:12	19:00	20:51 07:40-07:58/18	21:38	22:04 06:17-06:49/32
23	08:36 10:00-10:28/28	07:45	06:43 07:09-07:29/20	06:36 06:59-07:03/4	05:45	05:30 06:00-06:07/7
	17:19 09:10-09:16/6	18:14	19:02	20:53 07:43-07:55/12	21:39	22:05 06:17-06:49/32
24	08:35 10:00-10:27/27 09:02-09:04/2	07:42	06:41 07:09-07:29/20	06:34 06:57-07:02/5	05:44	05:30 06:00-06:07/7
	17:21 09:06-09:18/12	18:16	19:04	20:55 07:48-07:49/1	21:41	22:05 06:17-06:49/32
25	08:33 10:02-10:26/24	07:40	06:39 07:08-07:27/19	06:32 06:55-07:02/7	05:43	05:31 06:01-06:08/7
	17:22 09:00-09:21/21	18:18	19:05	20:56	21:42	22:05 06:18-06:50/32
26	08:32 10:04-10:25/21	07:38	06:37 07:09-07:26/17	06:30 06:53-07:01/8	05:42	05:31 06:01-06:08/7
	17:24 08:59-09:23/24	18:19	19:07	20:58	21:43	22:05 06:18-06:49/31
27	08:31 10:05-10:23/18	07:36	06:34 07:10-07:25/15	06:28 06:51-07:00/9	05:41	05:31 06:02-06:09/7
	17:26 08:57-09:24/27	18:21	19:09	21:00	21:45	22:05 06:18-06:49/31
28	08:30 10:08-10:21/13	07:34	06:32 07:11-07:22/11	06:26 06:51-07:00/9	05:40	05:32 06:02-06:08/6
	17:27 08:56-09:25/29	18:23	19:10 06:55-06:58/3	21:01	21:46	22:05 06:19-06:49/30
29	08:28 10:12-10:16/4		07:30 08:15-08:18/3	06:24 06:53-06:58/5	05:39	05:32 06:03-06:09/6
	17:29 08:54-09:26/32		20:12 07:52-07:57/5	21:03	21:47	22:05 06:19-06:49/30
30	08:27 08:53-09:27/34		07:28 07:50-07:56/6	06:22	05:38	05:33 06:03-06:08/5
	17:31		20:14	21:05	21:48	22:04 06:20-06:49/29
31	08:25 08:51-09:28/37		07:25 07:48-07:56/8		05:37 06:26-06:31/5	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1175	437	212	740	5	975

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:09/5	06:09	06:57 07:36-08:08/32	07:44	07:36 08:31-08:59/28	08:26 09:33-10:10/37
	22:04 06:21-06:50/29	21:33	20:33 07:23-07:30/7	19:25	17:21	16:42
2	05:34 06:04-06:08/4	06:10	06:59 07:32-08:07/35	07:46	07:38 08:31-08:59/28	08:27 09:34-10:11/37
	22:04 06:20-06:49/29	21:32	20:31 07:24-07:29/5	19:23	17:19	16:41
3	05:35 06:05-06:08/3	06:12	07:00 07:31-08:07/36	07:48	07:40 08:29-08:59/30	08:29 09:34-10:11/37
	22:03 06:21-06:49/28	21:30	20:29 07:26-07:28/2	19:21	17:17	16:41
4	05:36 06:06-06:08/2	06:13	07:02 07:29-08:06/37	07:49	07:42 08:29-08:59/30	08:30 09:35-10:12/37
	22:03 06:22-06:49/27	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:09/2	06:15	07:03 07:29-08:05/36	07:51	07:43 08:26-09:00/34	08:31 09:35-10:13/38
	22:03 06:22-06:48/26	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:47/24	06:16	07:05 07:30-08:03/33	07:52	07:45 08:25-09:00/35	08:33 09:35-10:15/40
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:25-06:47/22	06:18	07:06 07:32-08:02/30	07:54	07:47 08:24-09:00/36	08:34 09:36-10:17/41
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39 06:26-06:47/21	06:19	07:08 07:33-08:00/27	07:56	07:49 08:23-09:00/37	08:35 09:36-10:17/41
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:27-06:46/19	06:21	07:10 07:35-07:58/23	07:57	07:50 08:23-09:00/37	08:36 09:37-10:18/41
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:28-06:45/17	06:23	07:11 07:43-07:54/11	07:59	07:52 08:23-09:00/37	08:37 09:37-10:19/42
	22:00	21:18	20:13 07:36-07:39/3	19:05	17:06	16:38
11	05:42 06:30-06:43/13	06:24	07:13 07:40-07:46/6	08:01	07:54 08:23-09:00/37	08:38 09:37-10:20/43
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:33-06:41/8	06:26	07:14 07:39-07:47/8	08:02	07:56 08:24-08:58/34	08:39 09:38-10:20/42
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 07:41-07:48/7	08:04	07:57 09:44-09:49/5	08:40 09:38-10:21/43
	21:57	21:12	20:06	18:59	17:01 08:26-08:58/32	16:38
14	05:45	06:29 07:00-07:06/6	07:17 07:42-07:47/5	08:06	07:59 09:40-09:53/13	08:41 09:39-10:22/43
	21:56	21:11	20:04	18:57	17:00 08:28-08:57/29	16:38
15	05:46	06:30 06:57-07:07/10	07:19 08:02-08:12/10	08:07	08:01 09:38-09:56/18	08:42 09:40-10:23/43
	21:55	21:09	20:02 07:44-07:47/3	18:55	16:58 08:30-08:57/27	16:38
16	05:47	06:32 06:59-07:08/9	07:21 07:59-08:13/14	08:09	08:02 09:37-09:58/21	08:43 09:40-10:24/44
	21:54	21:07	19:59 07:45-07:46/1	18:52	16:57 08:32-08:56/24	16:38
17	05:49	06:33 07:00-07:08/8	07:22 07:58-08:15/17	08:11	08:04 09:36-10:00/24	08:44 09:41-10:24/43
	21:53	21:05	19:57	18:50	16:56 08:34-08:55/21	16:38
18	05:50	06:35 07:02-07:08/6	07:24 07:56-08:15/19	08:12	08:06 09:34-10:01/27 08:36-08:38/2	08:45 09:41-10:24/43
	21:52	21:03	19:55	18:48	16:55 08:40-08:52/12	16:39
19	05:51	06:37 07:03-07:08/5	07:25 07:56-08:15/19	08:14	08:07 09:34-10:02/28	08:45 09:42-10:25/43
	21:51	21:01 07:52-07:57/5	19:53	18:46	16:53 08:44-08:50/6	16:39
20	05:52	06:38 07:05-07:09/4	07:27 07:55-08:16/21	08:16	08:09 09:33-10:03/30	08:46 09:43-10:26/43
	21:50	20:59 07:48-08:02/14	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:08/2	07:28 07:54-08:15/21	08:17	08:11 09:33-10:05/32	08:46 09:43-10:26/43
	21:49	20:57 07:45-08:03/18	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:11/3	07:30 07:55-08:15/20	08:19	08:12 09:33-10:06/33	08:47 09:44-10:27/43
	21:48	20:55 07:43-08:05/22	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:12/3	07:32 07:56-08:13/17	08:21	08:14 09:32-10:06/34	08:47 09:44-10:27/43
	21:46	20:52 07:41-08:06/25	19:43	18:38	16:49	16:41
24	05:58	06:44 07:11-07:13/2	07:33 07:58-08:13/15	08:23	08:15 09:32-10:07/35	08:48 09:44-10:27/43
	21:45	20:50 07:41-08:07/26	19:41	18:36	16:48	16:41
25	05:59	06:46 07:39-08:08/29	07:35 07:59-08:10/11	07:24	08:17 09:33-10:08/35	08:48 09:45-10:28/43
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 07:39-08:09/30	07:36 08:01-08:09/8	07:26 08:41-08:49/8	08:19 09:32-10:08/36	08:49 09:45-10:28/43
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:37-08:09/32	07:38 08:03-08:05/2	07:28 08:37-08:51/14	08:20 09:33-10:09/36	08:49 09:45-10:29/44
	21:41	20:44 07:23-07:25/2	19:34	17:30	16:45	16:43
28	06:03	06:51 07:37-08:09/32	07:40	07:29 08:35-08:54/19	08:22 09:33-10:10/37	08:49 09:46-10:29/43
	21:40	20:42 07:20-07:28/8	19:32	17:28	16:44	16:44
29	06:05	06:52 07:36-08:09/33	07:41	07:31 08:33-08:55/22	08:23 09:33-10:10/37	08:49 09:46-10:29/43
	21:38	20:40 07:18-07:29/11	19:30	17:26	16:43	16:45
30	06:06	06:54 07:36-08:09/33	07:43	07:33 08:32-08:57/25	08:25 09:33-10:10/37	08:49 09:46-10:29/43
	21:37	20:38 07:20-07:30/10	19:28	17:25	16:43	16:46
31	06:07	06:55 07:35-08:08/33		07:35 08:32-08:58/26		08:49 09:47-10:29/42
	21:35	20:35 07:21-07:29/8		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	279	429	541	114	1074	1294

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:49	08:24	07:32		07:23		06:20		05:36	06:04-06:13/9
	16:48	17:34	18:25		20:17		21:06		21:50	
2	08:49	08:22	07:30		07:21		06:18	06:42-06:43/1	05:35	06:04-06:14/10
	16:49	17:36	18:26		20:18		21:08		21:51	
3	08:49	08:21	07:28		07:19		06:16	06:40-06:43/3	05:35	06:03-06:14/11
	16:50	17:38	18:28		20:20		21:09		21:52	
4	08:49	08:19	07:26		07:16		06:14	06:39-06:43/4	05:34	06:02-06:14/12
	16:51	17:40	18:30		20:22		21:11		21:53	
5	08:49	08:18	07:23		07:14		06:13	06:37-06:43/6	05:33	06:02-06:14/12
	16:52	17:42	18:31		20:23		21:13		21:54	
6	08:49	08:16	07:21	07:44-07:47/3	07:12	07:34-07:35/1	06:11	06:35-06:42/7	05:33	06:01-06:14/13
	16:53	17:43	18:33		20:25		21:14		21:55	
7	08:48	08:14	07:19	07:42-07:47/5	07:10	07:32-07:34/2	06:09	06:34-06:42/8	05:32	06:01-06:14/13
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	07:40-07:47/7	07:07	07:30-07:32/2	06:07	06:32-06:41/9	05:32	06:00-06:14/14
	16:56	17:47	18:37		20:28		21:17		21:57	
9	08:47	08:11	07:15	07:37-07:46/9	07:05		06:06	06:31-06:41/10	05:31	06:00-06:14/14
	16:57	17:49	18:38		20:30		21:19		21:58	
10	08:47	08:09	07:12	07:35-07:45/10	07:03		06:04	06:33-06:38/5	05:31	06:00-06:14/14
	16:59	17:51	18:40		20:32		21:20		21:59	
11	08:46	08:07	07:10	07:34-07:44/10	07:01		06:02		05:30	05:59-06:14/15
	17:00	17:52	18:42		20:33		21:22		21:59	
12	08:46	08:06	07:08	07:36-07:42/6	06:59		06:01		05:30	05:59-06:14/15
	17:01	17:54	18:43		20:35		21:23		22:00	
13	08:45	08:04	07:06		06:57		05:59		05:30	05:59-06:14/15
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04		06:54		05:58		05:30	05:59-06:14/15
	17:04	17:58	18:47		20:38		21:26		22:01	
15	08:44	08:00	07:01	07:24-07:26/2	06:52		05:56		05:29	05:59-06:15/16
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:22-07:27/5	06:50	07:13-07:15/2	05:55		05:29	05:59-06:15/16
	17:07	18:01	18:50		20:42		21:29		22:02	
17	08:42	07:56	06:57	07:19-07:26/7	06:48	07:11-07:15/4	05:53		05:29	05:59-06:15/16
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:54	06:55	07:17-07:26/9	06:46	07:09-07:14/5	05:52		05:29	05:59-06:15/16
	17:11	18:05	18:54		20:45		21:32		22:03	
19	08:40	07:52	06:52	07:15-07:26/11	06:44	07:07-07:13/6	05:50		05:29	05:59-06:15/16
	17:12	18:07	18:55		20:46		21:34		22:04	
20	08:39	07:50	06:50	07:13-07:25/12	06:42	07:05-07:11/6	05:49		05:29	05:59-06:15/16
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:48	06:48	07:10-07:22/12	06:40		05:48		05:30	05:59-06:15/16
	17:15	18:10	18:59		20:50		21:37		22:04	
22	08:37	07:46	06:46	07:08-07:20/12	06:38		05:47		05:30	06:00-06:16/16
	17:17	18:12	19:00		20:51		21:38		22:04	
23	08:36	07:44	06:43	07:06-07:14/8	06:36		05:45		05:30	06:00-06:16/16
	17:19	18:14	19:02		20:53		21:39		22:05	
24	08:35	07:42	06:41	07:03-07:11/8	06:34		05:44		05:30	06:00-06:16/16
	17:20	18:16	19:04		20:55		21:41		22:05	
25	08:33	07:40	06:39		06:32		05:43	06:10-06:11/1	05:31	06:01-06:17/16
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37		06:30		05:42	06:09-06:11/2	05:31	06:01-06:17/16
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34		06:28		05:41	06:08-06:12/4	05:31	06:01-06:17/16
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	06:07-06:12/5	05:32	06:02-06:17/15
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30		06:24		05:39	06:06-06:12/6	05:32	06:02-06:17/15
	17:29		20:12		21:03		21:47		22:04	
30	08:27		07:28		06:22		05:38	06:06-06:13/7	05:33	06:03-06:18/15
	17:31		20:14		21:04		21:48		22:04	
31	08:25		07:25				05:37	06:05-06:13/8		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	136		28		86		435	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34	06:04-06:19/15	06:09		06:57		07:44		07:36	08:26
	22:04		21:33		20:33		19:25		17:21	16:42
2	05:34	06:04-06:19/15	06:10		06:58		07:46	08:14-08:22/8	07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35	06:05-06:19/14	06:12	06:42-06:50/8	07:00		07:47	08:12-08:23/11	07:40	08:29
	22:03		21:30		20:29		19:21		17:17	16:41
4	05:36	06:06-06:20/14	06:13	06:41-06:50/9	07:02	07:27-07:29/2	07:49	08:14-08:24/10	07:42	08:30
	22:03		21:29		20:26		19:18		17:15	16:40
5	05:36	06:06-06:19/13	06:15	06:43-06:52/9	07:03	07:29-07:31/2	07:51	08:16-08:24/8	07:43	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37	06:07-06:20/13	06:16	06:44-06:52/8	07:05	07:30-07:31/1	07:52	08:17-08:23/6	07:45	08:32
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38	06:08-06:20/12	06:18	06:46-06:53/7	07:06		07:54	08:19-08:23/4	07:47	08:34
	22:01		21:23		20:20		19:12		17:10	16:39
8	05:39	06:09-06:21/12	06:19	06:47-06:52/5	07:08		07:56	08:21-08:23/2	07:49	08:35
	22:01		21:22		20:17		19:10		17:09	16:39
9	05:40	06:10-06:21/11	06:21	06:48-06:52/4	07:09		07:57		07:50	08:36
	22:00		21:20		20:15		19:07		17:07	16:38
10	05:41	06:11-06:21/10	06:22	06:50-06:52/2	07:11		07:59		07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42	06:12-06:22/10	06:24		07:13		08:01		07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43	06:13-06:22/9	06:26		07:14		08:02		07:55	08:39
	21:58		21:14		20:08		19:01		17:03	16:38
13	05:44	06:14-06:22/8	06:27		07:16		08:04		07:57	08:40
	21:57		21:12		20:06		18:59		17:01	16:38
14	05:45	06:15-06:22/7	06:29		07:17		08:06		07:59	08:41
	21:56		21:10		20:04		18:57		17:00	16:38
15	05:46	06:16-06:22/6	06:30		07:19		08:07		08:01	08:42
	21:55		21:08		20:02		18:54		16:58	16:38
16	05:47	06:17-06:21/4	06:32		07:20		08:09		08:02	08:43
	21:54		21:07		19:59		18:52		16:57	16:38
17	05:49	06:18-06:21/3	06:33		07:22		08:11		08:04	08:44
	21:53		21:05		19:57		18:50		16:56	16:38
18	05:50	06:19-06:21/2	06:35		07:24		08:12		08:06	08:44
	21:52		21:03		19:55		18:48		16:54	16:38
19	05:51		06:36		07:25	07:51-07:58/7	08:14		08:07	08:45
	21:51		21:01		19:52		18:46		16:53	16:39
20	05:52		06:38		07:27	07:52-08:00/8	08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54		06:40		07:28	07:53-08:00/7	08:17		08:11	08:46
	21:49		20:56		19:48		18:42		16:51	16:40
22	05:55		06:41		07:30	07:55-08:07/12	08:19		08:12	08:47
	21:48		20:54		19:46		18:40		16:50	16:40
23	05:56		06:43	07:09-07:15/6	07:31	07:56-08:08/12	08:21		08:14	08:47
	21:46		20:52		19:43		18:38		16:49	16:41
24	05:57		06:44	07:11-07:17/6	07:33	07:58-08:09/11	08:22		08:15	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59		06:46	07:12-07:17/5	07:35	07:59-08:09/10	07:24		08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00		06:47	07:14-07:18/4	07:36	08:01-08:09/8	07:26		08:18	08:49
	21:42		20:46		19:37		17:32		16:46	16:42
27	06:02		06:49	07:15-07:17/2	07:38	08:03-08:09/6	07:28		08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03		06:51		07:39	08:04-08:07/3	07:29		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:04		06:52		07:41		07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06		06:54		07:43		07:33		08:24	08:49
	21:37		20:37		19:27		17:24		16:43	16:46
31	06:07		06:55				07:35			08:49
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	178		75		89		49		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: SAM_WT09 - VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:41/2	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12 06:37-06:40/3	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11 06:35-06:39/4	05:33	05:37	06:16 06:44-06:48/4	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09 06:34-06:38/4	05:32	05:38	06:18 06:46-06:49/3	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19 06:47-06:50/3	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21 06:48-06:49/1	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:27/1	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:26/1	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:25/2	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:25/3	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:25/4	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:22/3	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01 06:30-06:34/4	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:35/3	06:50	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:36/3	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06 06:34-06:36/2	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:37/1	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	28	0	13	12	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: SAM_WT10 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20 06:44-06:49/5	05:36	05:34 06:04-06:12/8	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:42-06:48/6	05:35	05:34 06:04-06:12/8	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:41-06:47/6	05:35 06:03-06:04/1	05:35 06:05-06:12/7	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:45/6	05:34 06:02-06:04/2	05:36 06:06-06:12/6	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:02-06:05/3	05:36 06:06-06:12/6	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:05/4	05:37 06:07-06:12/5	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:06/5	05:38 06:08-06:12/4	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32 06:00-06:06/6	05:39 06:09-06:12/3	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31 06:00-06:07/7	05:40 06:10-06:12/2	06:21 06:49-06:55/6	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:07/7	05:41 06:11-06:12/1	06:22 06:50-06:56/6	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 05:59-06:07/8	05:42	06:24 06:51-06:56/5	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 05:59-06:07/8	05:43	06:26 06:53-06:57/4	07:14	08:02	07:56	08:39
	17:01	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:08/9	05:44	06:27 06:54-06:57/3	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 05:59-06:08/9	05:45	06:29 06:56-06:58/2	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 05:59-06:09/10	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 05:59-06:09/10	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 05:59-06:09/10	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29 05:59-06:09/10	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44	05:50	05:29 05:59-06:09/10	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 05:59-06:10/11	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:29 05:59-06:10/11	05:54	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:00-06:11/11	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:00-06:11/11	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34	05:44	05:30 06:00-06:10/10	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43	05:31 06:00-06:10/10	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:01-06:11/10	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31 06:01-06:11/10	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32 06:02-06:11/9	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:48-06:50/2	05:39	05:32 06:02-06:11/9	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22 06:46-06:49/3	05:38	05:33 06:03-06:12/9	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	5	23	230	50	26	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 08:50-09:14/24 17:35	07:32 18:25	07:23 07:46-08:07/21 20:17	06:20 06:56-07:17/21 21:06	05:36 06:04-06:24/20 21:50
2	08:49 16:49	08:22 08:48-09:14/26 17:36	07:30 18:26	07:21 07:43-08:05/22 20:19	06:18 06:56-07:16/20 21:08	05:35 06:04-06:25/21 21:51
3	08:49 16:50	08:21 08:48-09:13/25 17:38	07:28 18:28	07:19 07:49-08:04/15 20:20	06:16 06:57-07:14/17 21:09	05:35 06:03-06:25/22 21:53
4	08:49 16:51	08:19 08:49-09:14/25 17:40	07:26 18:30	07:16 07:51-08:02/11 20:22	06:14 06:59-07:13/14 21:11	05:34 06:02-06:26/24 21:54
5	08:49 16:52	08:18 08:49-09:13/24 17:42	07:23 18:32	07:14 07:55-07:57/2 20:23 07:37-07:38/1	06:13 07:02-07:10/8 21:13	05:33 06:02-06:27/25 21:54
6	08:49 16:54	08:16 08:49-09:12/23 17:43	07:21 18:33	07:12 07:34-07:36/2 20:25	06:11 21:14	05:33 06:01-06:27/26 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:50-09:11/21 17:45 08:39-08:41/2	07:19 18:35	07:10 07:32-07:35/3 20:27	06:09 21:16	05:32 06:01-06:28/27 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:52-09:11/19 17:47 08:38-08:42/4	07:17 18:37	07:08 20:28	06:07 21:17	05:32 06:00-06:28/28 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:53-09:10/17 17:49 08:36-08:42/6	07:15 18:38	07:05 20:30	06:06 21:19	05:31 06:00-06:29/29 21:58
10	08:47 09:16-09:22/6 16:59	08:09 08:55-09:08/13 17:51 08:34-08:41/7	07:13 18:40	07:03 20:32	06:04 21:20	05:31 06:00-06:29/29 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:58-09:04/6 17:53 08:32-08:40/8	07:10 18:42	07:01 20:33	06:02 21:22	05:30 05:59-06:29/30 21:59
12	08:46 09:15-09:24/9 17:02	08:06 08:30-08:41/11 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:27/1 21:24	05:30 05:59-06:30/31 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:28-08:41/13 17:56	07:06 18:45	06:57 20:37	05:59 06:25-06:27/2 21:25	05:30 05:59-06:30/31 22:01
14	08:44 09:13-09:25/12 17:04	08:02 08:26-08:41/15 17:58	07:04 18:47	06:54 20:38	05:58 06:23-06:26/3 21:27	05:30 05:59-06:31/32 22:01
15	08:44 09:12-09:26/14 17:06	08:00 08:24-08:41/17 18:00	07:01 18:49	06:52 20:40	05:56 06:22-06:26/4 21:28	05:30 05:59-06:31/32 22:02
16	08:43 09:11-09:26/15 17:08	07:58 08:22-08:41/19 18:02	06:59 07:22-07:24/2 18:50	06:50 07:13-07:16/3 20:42	05:55 06:21-06:26/5 21:30	05:29 05:59-06:32/33 22:02
17	08:42 09:10-09:27/17 17:09	07:56 08:20-08:41/21 18:03	06:57 07:19-07:24/5 18:52	06:48 07:11-07:18/7 20:43	05:53 06:19-06:25/6 21:31	05:29 05:59-06:32/33 22:03
18	08:41 09:09-09:27/18 17:11	07:54 08:20-08:40/20 18:05	06:55 07:17-07:24/7 18:54	06:46 07:09-07:19/10 20:45	05:52 06:18-06:24/6 21:32	05:29 05:59-06:32/33 22:03
19	08:40 09:08-09:27/19 17:12	07:52 08:21-08:39/18 18:07	06:52 07:15-07:24/9 18:55	06:44 07:07-07:20/13 20:47	05:51 06:17-06:23/6 21:34	05:29 05:59-06:32/33 22:04
20	08:39 09:07-09:28/21 17:14	07:51 08:22-08:38/16 18:09	06:50 07:13-07:23/10 18:57	06:42 07:05-07:21/16 20:48	05:49 21:35	05:29 05:59-06:32/33 22:04
21	08:38 09:05-09:27/22 17:16	07:49 08:24-08:36/12 18:10	06:48 07:10-07:21/11 18:59	06:40 07:03-07:21/18 20:50	05:48 21:37	05:30 05:59-06:32/33 22:04
22	08:37 09:04-09:28/24 17:17	07:47 08:27-08:33/6 18:12	06:46 07:10-07:19/9 19:00	06:38 07:01-07:22/21 20:51	05:47 21:38	05:30 06:00-06:33/33 22:04
23	08:36 09:03-09:28/25 17:19	07:44 18:14	06:43 07:13-07:16/3 19:02	06:36 06:59-07:22/23 20:53	05:45 21:39	05:30 06:00-06:33/33 22:05
24	08:35 09:01-09:27/26 17:21	07:42 18:16	06:41 07:03-07:07/4 19:04	06:34 06:57-07:22/25 20:55	05:44 21:41	05:30 06:00-06:33/33 22:05
25	08:33 09:00-09:27/27 17:22	07:40 18:18	06:39 07:01-07:08/7 19:05	06:32 06:55-07:21/26 20:56	05:43 21:42	05:31 06:01-06:34/33 22:05
26	08:32 08:59-09:27/28 17:24	07:38 18:19	06:37 06:59-07:09/10 19:07	06:30 06:54-07:21/27 20:58	05:42 06:09-06:15/6 21:43	05:31 06:01-06:34/33 22:05
27	08:31 08:57-09:25/28 17:26	07:36 18:21	06:34 06:57-07:10/13 19:09	06:28 06:54-07:20/26 21:00	05:41 06:08-06:17/9 21:45	05:31 06:01-06:33/32 22:05
28	08:30 08:56-09:25/29 17:27	07:34 18:23	06:32 06:54-07:09/15 19:10	06:26 06:54-07:20/26 21:01	05:40 06:07-06:19/12 21:46	05:32 06:02-06:34/32 22:05
29	08:28 08:54-09:12/18 17:29 09:13-09:22/9		07:30 07:52-08:09/17 20:12	06:24 06:55-07:20/25 21:03	05:39 06:06-06:20/14 21:47	05:32 06:02-06:33/31 22:04
30	08:27 08:53-09:13/20 17:31		07:28 07:50-08:09/19 20:14	06:22 06:55-07:19/24 21:05	05:38 06:06-06:22/16 21:48	05:33 06:03-06:34/31 22:04
31	08:25 08:51-09:13/22 17:33		07:25 07:48-08:08/20 20:15		05:37 06:05-06:23/18 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	434	418	161	367	188	896

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:34/30	06:09	06:57	07:44	07:36 08:24-08:38/14	08:26 08:57-09:04/7
	22:04	21:33	20:33	19:25	17:21 08:04-08:11/7	16:42
2	05:34 06:04-06:34/30	06:10	06:59	07:46	07:38 08:23-08:40/17	08:27 08:59-09:05/6
	22:04	21:32	20:31	19:23	17:19 08:06-08:11/5	16:41
3	05:35 06:05-06:34/29	06:12	07:00	07:48	07:40 08:21-08:40/19	08:29 09:00-09:04/4
	22:03	21:30	20:29	19:21	17:17 08:08-08:12/4	16:41
4	05:36 06:06-06:34/28	06:13	07:02	07:49	07:42 08:20-08:41/21	08:30 09:02-09:05/3
	22:03	21:29	20:26	19:19	17:16 08:09-08:11/2	16:40
5	05:37 06:06-06:33/27	06:15	07:03 07:29-07:32/3	07:51	07:43 08:19-08:42/23	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:33/26	06:16	07:05 07:30-07:32/2	07:52	07:45 08:19-08:43/24	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:33/25	06:18	07:06 07:32-07:33/1	07:54	07:47 08:19-08:44/25	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:33/24	06:19 07:10-07:20/10	07:08 07:45-07:56/11	07:56	07:49 08:18-08:44/26	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:33/23	06:21 07:07-07:22/15	07:10 07:43-07:58/15	07:57	07:50 08:19-08:44/25	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:33/22	06:23 07:06-07:24/18	07:11 07:36-07:59/23	07:59	07:52 08:21-08:45/24	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:32/20	06:24 07:05-07:25/20	07:13 07:38-08:00/22	08:01	07:54 08:23-08:45/22	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:32/19	06:26 07:04-07:26/22	07:14 07:39-07:59/20	08:02	07:55 08:24-08:44/20	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:31/17	06:27 07:03-07:26/23	07:16 07:41-08:00/19	08:04	07:57 08:26-08:44/18	08:40
	21:57	21:12	20:06	18:59	17:01 08:45-08:54/9	16:38
14	05:45 06:15-06:30/15	06:29 07:02-07:27/25	07:17 07:42-07:59/17	08:06	07:59 08:28-08:57/29	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:29/13	06:30 07:01-07:27/26	07:19 07:44-07:59/15	08:07	08:01 08:30-08:58/28	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:17-06:28/11	06:32 07:01-07:28/27	07:20 07:45-07:58/13	08:09	08:02 08:32-09:00/28	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:26/8	06:33 07:00-07:28/28	07:22 07:47-07:58/11	08:11	08:04 08:34-09:01/27	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:23/4	06:35 07:02-07:28/26	07:24 07:48-07:56/8	08:12	08:06 08:35-09:01/26	08:44
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37 07:03-07:27/24	07:25 07:50-07:55/5	08:14	08:07 08:37-09:02/25	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:27/22	07:27 07:52-07:53/1	08:16 08:57-09:05/8	08:09 08:39-09:03/24	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:26/20	07:28 07:56-08:04/8	08:17 08:54-09:07/13	08:11 08:41-09:03/22	08:46
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:26/18	07:30 07:55-08:06/11	08:19 08:52-09:09/17	08:12 08:43-09:04/21	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:25/16	07:32 07:56-08:06/10	08:21 08:51-09:10/19	08:14 08:44-09:03/19	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:32/3	06:44 07:11-07:24/13	07:33 07:58-08:07/9	08:23 08:51-09:11/20	08:15 08:46-09:04/18	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:34/6	06:46 07:12-07:22/10	07:35 07:59-08:06/7	07:24 07:51-08:11/20	08:17 08:48-09:05/17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:35/6	06:48 07:14-07:21/7	07:36 08:01-08:06/5	07:26 07:53-08:11/18	08:19 08:49-09:04/15	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:36/6	06:49 07:15-07:17/2	07:38 08:03-08:06/3	07:28 07:54-08:11/17	08:20 08:51-09:05/14	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:37/5	06:51	07:39	07:29 07:56-08:11/15	08:22 08:53-09:05/12	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:37/4	06:52	07:41	07:31 07:58-08:10/12	08:23 08:54-09:05/11	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:37/3	06:54	07:43	07:33 08:00-08:10/10	08:24 08:56-09:05/9	08:49
	21:37	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:38/2	06:55		07:35 08:27-08:35/8		08:49
	21:35	20:35		17:23 08:02-08:10/8		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	406	372	239	185	650	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June
1	08:49	08:24	07:32		07:23	07:45-07:48/3	06:20		05:36
	16:48	17:34	18:24		20:17		21:06		21:50
2	08:49	08:22	07:30		07:21	07:43-07:46/3	06:18		05:35
	16:49	17:36	18:26		20:18		21:08		21:51
3	08:49	08:21	07:28		07:18		06:16		05:35
	16:50	17:38	18:28		20:20		21:09		21:52
4	08:49	08:19	07:26		07:16		06:14		05:34
	16:51	17:40	18:30		20:22		21:11		21:53
5	08:49	08:18	07:23		07:14		06:13		05:33
	16:52	17:42	18:31		20:23		21:12		21:54
6	08:48	08:16	07:21		07:12	07:34-07:35/1	06:11		05:33
	16:53	17:43	18:33		20:25		21:14		21:55
7	08:48	08:14	07:19		07:10	07:32-07:34/2	06:09		05:32
	16:55	17:45	18:35		20:27		21:16		21:56
8	08:48	08:13	07:17		07:07	07:30-07:34/4	06:07		05:32
	16:56	17:47	18:37		20:28		21:17		21:57
9	08:47	08:11	07:15		07:05	07:28-07:32/4	06:06	06:31-06:32/1	05:31
	16:57	17:49	18:38		20:30		21:19		21:58
10	08:47	08:09	07:12		07:03		06:04	06:29-06:30/1	05:31
	16:59	17:51	18:40		20:32		21:20		21:59
11	08:46	08:07	07:10		07:01		06:02	06:28-06:29/1	05:30
	17:00	17:52	18:42		20:33		21:22		21:59
12	08:46	08:06	07:08		06:59		06:01		05:30
	17:01	17:54	18:43		20:35		21:23		22:00
13	08:45	08:04	07:06		06:56		05:59		05:30
	17:03	17:56	18:45		20:37		21:25		22:01
14	08:44	08:02	07:04		06:54		05:58		05:29
	17:04	17:58	18:47		20:38		21:26		22:01
15	08:43	08:00	07:01		06:52		05:56		05:29
	17:06	18:00	18:48		20:40		21:28		22:02
16	08:43	07:58	06:59		06:50		05:55		05:29
	17:07	18:01	18:50		20:41		21:29		22:02
17	08:42	07:56	06:57		06:48		05:53		05:29
	17:09	18:03	18:52		20:43		21:31		22:03
18	08:41	07:54	06:55		06:46		05:52		05:29
	17:10	18:05	18:54		20:45		21:32		22:03
19	08:40	07:52	06:52		06:44		05:50		05:29
	17:12	18:07	18:55		20:46		21:34		22:04
20	08:39	07:50	06:50		06:42		05:49		05:29
	17:14	18:09	18:57		20:48		21:35		22:04
21	08:38	07:48	06:48		06:40		05:48		05:29
	17:15	18:10	18:59		20:50		21:37		22:04
22	08:37	07:46	06:46		06:38		05:46		05:30
	17:17	18:12	19:00		20:51		21:38		22:04
23	08:36	07:44	06:43		06:35		05:45		05:30
	17:19	18:14	19:02		20:53		21:39		22:05
24	08:35	07:42	06:41		06:33		05:44	06:11-06:12/1	05:30
	17:20	18:16	19:04		20:55		21:41		22:05
25	08:33	07:40	06:39		06:31		05:43	06:10-06:12/2	05:30
	17:22	18:17	19:05		20:56		21:42		22:05
26	08:32	07:38	06:37		06:29		05:42	06:09-06:12/3	05:31
	17:24	18:19	19:07		20:58		21:43		22:05
27	08:31	07:36	06:34		06:27		05:41	06:08-06:11/3	05:31
	17:26	18:21	19:08		21:00		21:44		22:05
28	08:29	07:34	06:32		06:26		05:40	06:07-06:11/4	05:32
	17:27	18:23	19:10		21:01		21:46		22:05
29	08:28		07:30		06:24		05:39	06:06-06:10/4	05:32
	17:29		20:12		21:03		21:47		22:04
30	08:27		07:27		06:22		05:38	06:07-06:09/2	05:33
	17:31		20:13		21:04		21:48		22:04
31	08:25		07:25	07:48-07:50/2			05:37		
	17:33		20:15				21:49		
Potential sun hours	262	279	367		415		482		495
Sum of minutes with flicker	0	0	2		17		22		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10	06:39-06:40/1	06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12	06:40-06:41/1	07:00	07:26-07:30/4	07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02	07:27-07:31/4	07:49	07:42	08:30
	22:03		21:28		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03	07:29-07:31/2	07:51	07:43	08:31
	22:02		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05	07:30-07:31/1	07:52	07:45	08:32
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06		07:54	07:47	08:34
	22:01		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08		07:56	07:48	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41		06:22		07:11	07:36-07:39/3	07:59	07:52	08:37
	21:59		21:18		20:13		19:05	17:06	16:38
11	05:42		06:24		07:13	07:38-07:41/3	08:00	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43		06:25		07:14	07:39-07:41/2	08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44		06:27		07:16	07:41-07:42/1	08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45	06:15-06:19/4	06:29		07:17		08:05	07:59	08:41
	21:56		21:10		20:04		18:56	17:00	16:38
15	05:46	06:16-06:20/4	06:30		07:19		08:07	08:01	08:42
	21:55		21:08		20:02		18:54	16:58	16:38
16	05:47	06:17-06:21/4	06:32		07:20		08:09	08:02	08:43
	21:54		21:06		19:59		18:52	16:57	16:38
17	05:48	06:18-06:21/3	06:33		07:22		08:10	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50	06:19-06:21/2	06:35		07:23		08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51	06:20-06:22/2	06:36		07:25		08:14	08:07	08:45
	21:51		21:00		19:52		18:46	16:53	16:39
20	05:52	06:21-06:22/1	06:38		07:27		08:16	08:09	08:46
	21:50		20:58		19:50		18:44	16:52	16:39
21	05:53		06:39		07:28		08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55		06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56		06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44		07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46		07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47		07:36		07:26	08:18	08:49
	21:42		20:46		19:36		17:32	16:46	16:42
27	06:02		06:49		07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51		07:39		07:29	08:21	08:49
	21:39		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52		07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54		07:43		07:33	08:24	08:49
	21:36		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:22		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	20		2		20		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling WTG: SWB_WT02_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:01	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:09	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:12	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56 07:19-07:20/1	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:19/2	05:58	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:53	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42 07:05-07:06/1	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40 07:03-07:05/2	05:48	05:29	05:53	06:39 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41 07:08-07:10/2	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43 07:09-07:10/1	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:03	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:36	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52 07:18-07:20/2	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54 07:20-07:21/1	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	6	0	0	0	7	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

WTG: TEN_WT01 - VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.314	1.568	878	636	560	8.544

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:04-06:14/10	05:34 06:05-06:23/18	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35 06:04-06:15/11	05:34 06:04-06:23/19	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:03-06:16/13	05:35 06:05-06:23/18	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:02-06:16/14	05:36 06:06-06:24/18	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:02-06:17/15	05:36 06:06-06:23/17	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:17/16	05:37 06:07-06:23/16	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:18/17	05:38 06:08-06:23/15	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32 06:00-06:17/17	05:39 06:09-06:23/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 06:00-06:18/18	05:40 06:10-06:23/13	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:19/19	05:41 06:11-06:23/12	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:01-06:19/18	05:42 06:12-06:23/11	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:00-06:19/19	05:43 06:13-06:22/9	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:00-06:19/19	05:44 06:14-06:22/8	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 06:01-06:19/18	05:45 06:15-06:21/6	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 06:01-06:20/19	05:46 06:16-06:19/3	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 06:01-06:20/19	05:47	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 06:01-06:20/19	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29 06:01-06:20/19	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29 06:02-06:21/19	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 06:02-06:21/19	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30 06:02-06:21/19	05:54	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:03-06:22/19	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:03-06:22/19	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30 06:02-06:22/20	05:58	06:44	07:33	08:23	08:16	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31 06:03-06:22/19	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:03-06:22/19	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31 06:03-06:22/19	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:07-06:08/1	05:32 06:04-06:23/19	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39 06:07-06:12/5	05:32 06:03-06:22/19	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:13/7	05:33 06:04-06:23/19	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:05-06:14/9		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	22	529	197	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

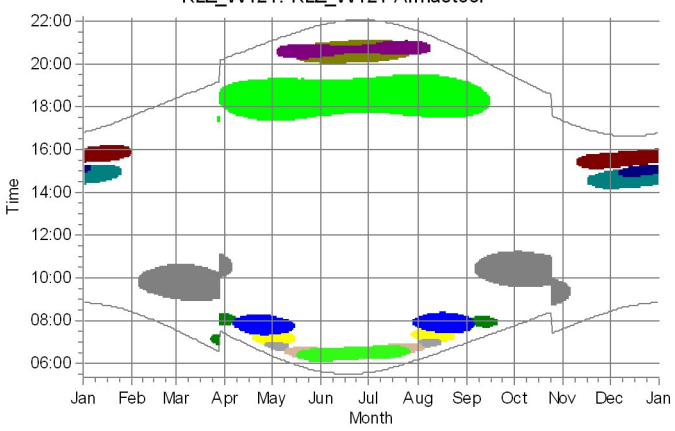
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

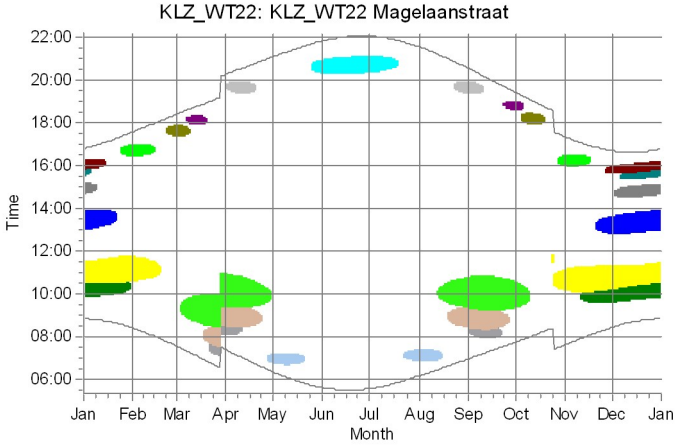
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

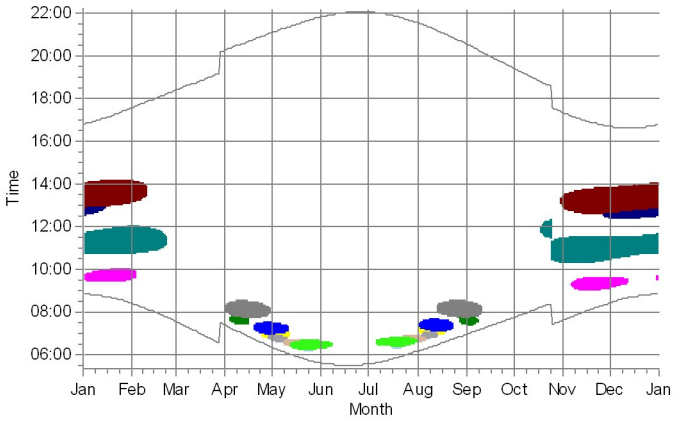
KLZ_WT21: KLZ_WT21 Armasteel



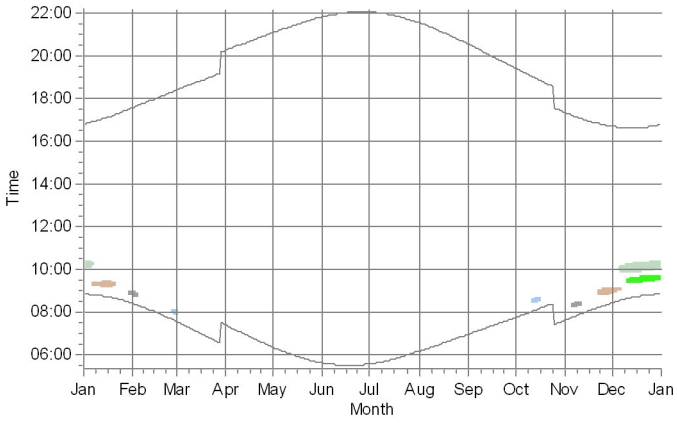
KLZ_WT22: KLZ_WT22 Magelaanstraat



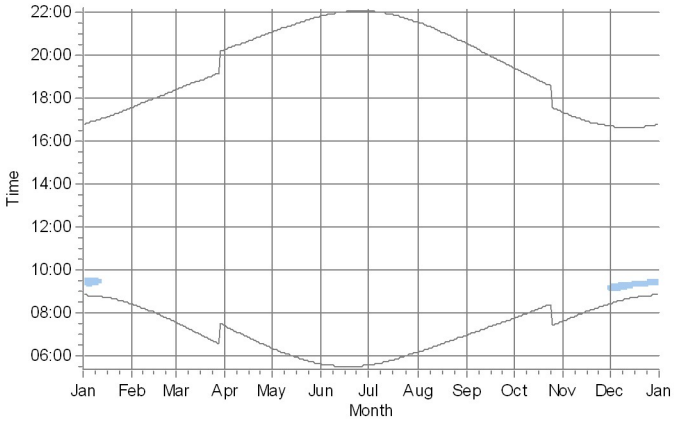
KLZ_WT23: KLZ_WT23 Stukwerkers



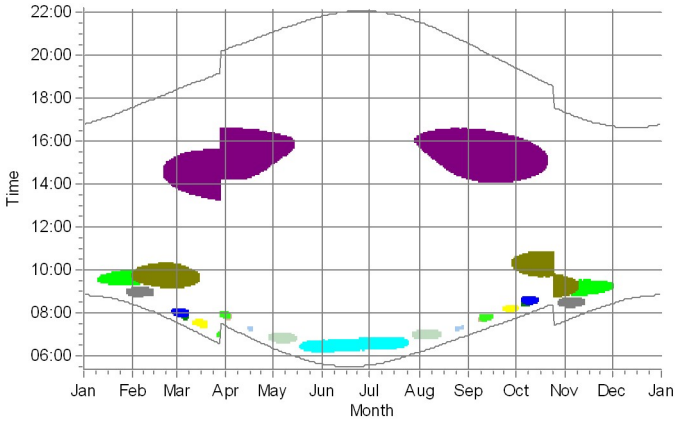
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m)



ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TO



CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

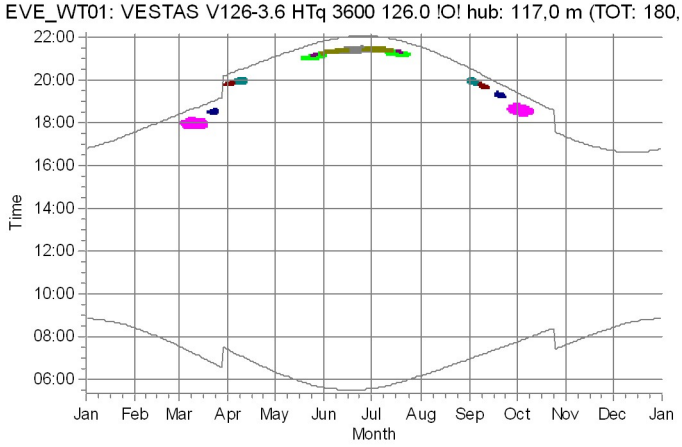
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 12:33/4.1.264

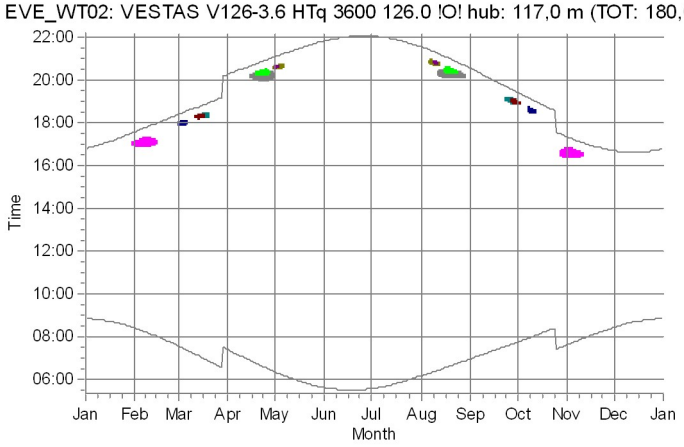
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

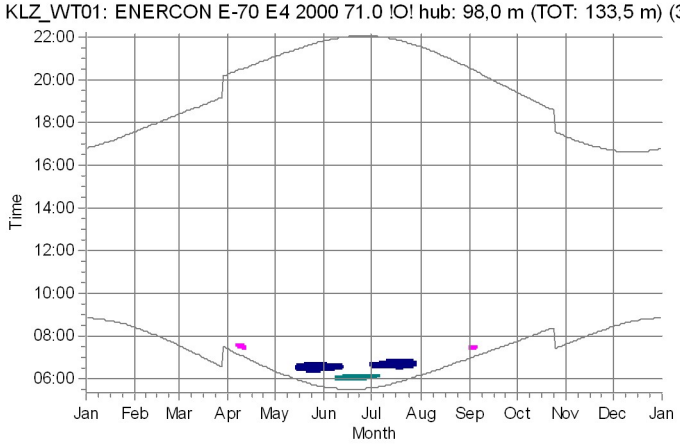
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,



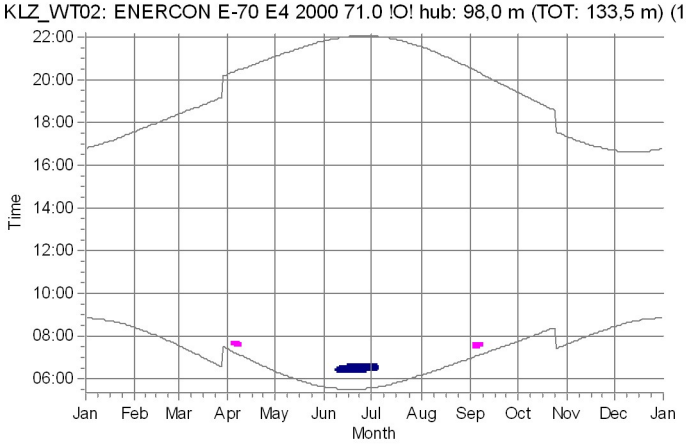
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53



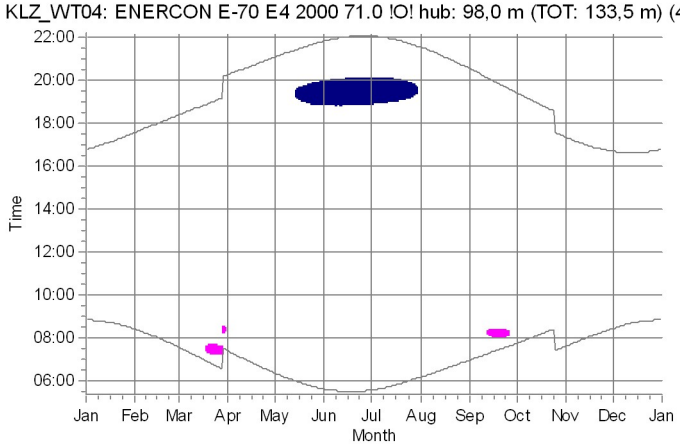
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3



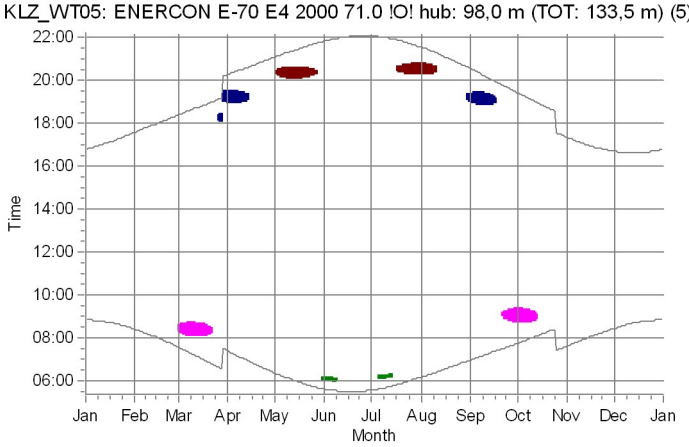
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)



KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4



KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent

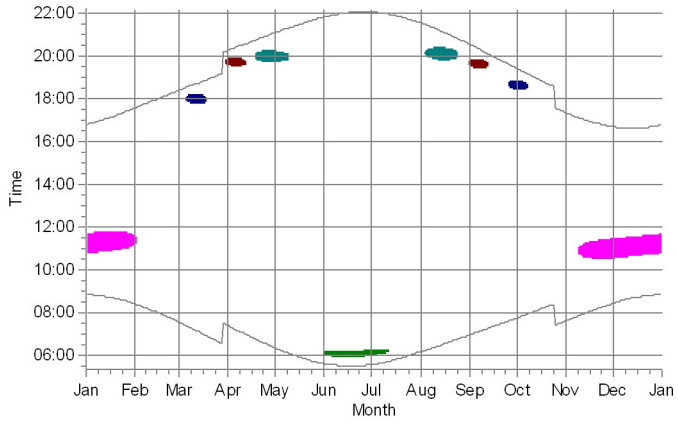
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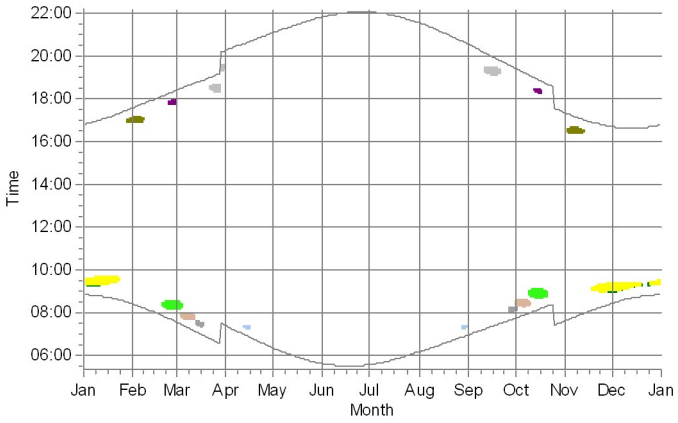
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

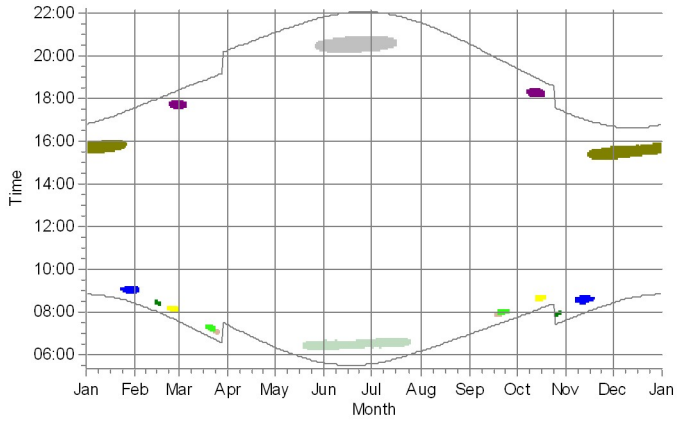
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6



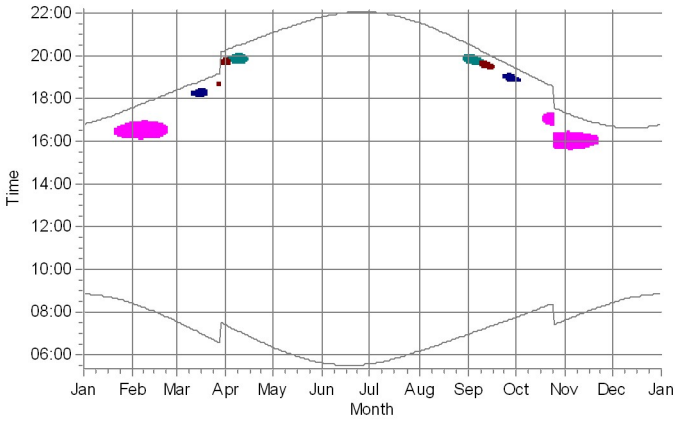
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)



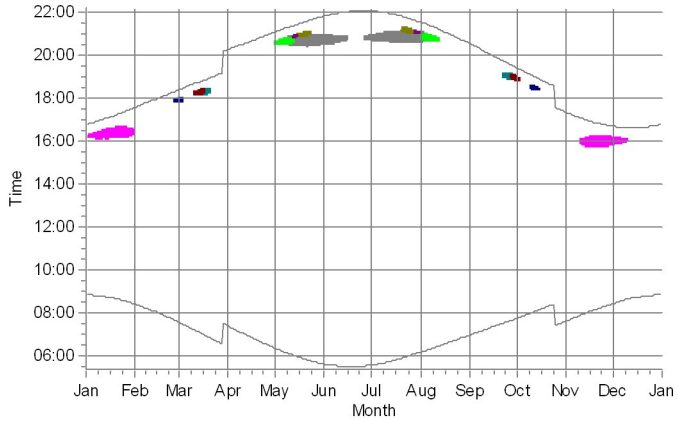
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



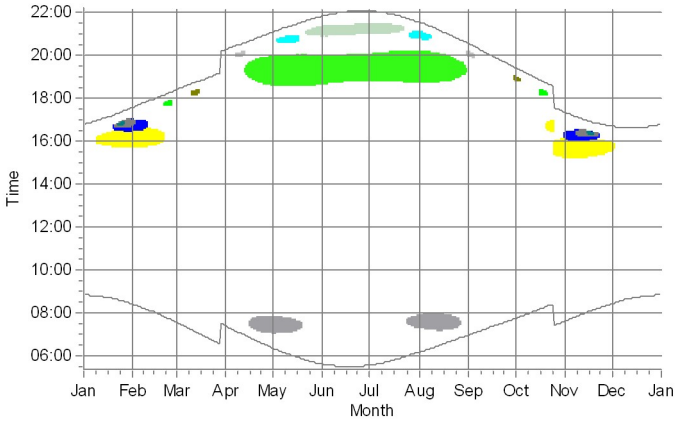
KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)



KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m)



KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)



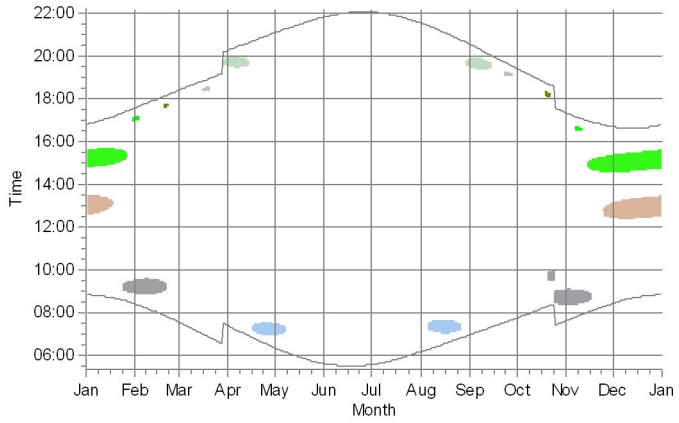
Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

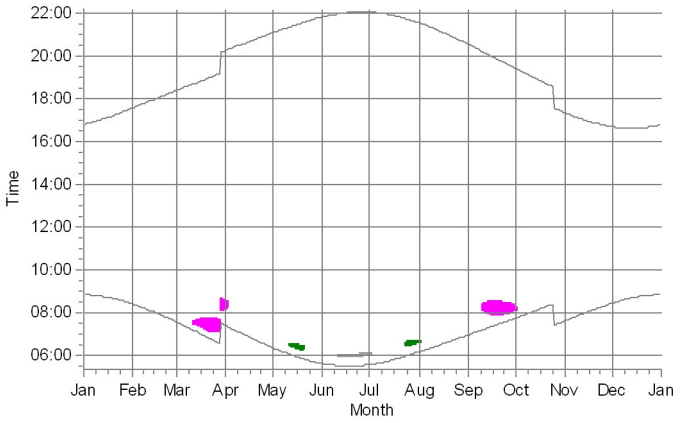
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

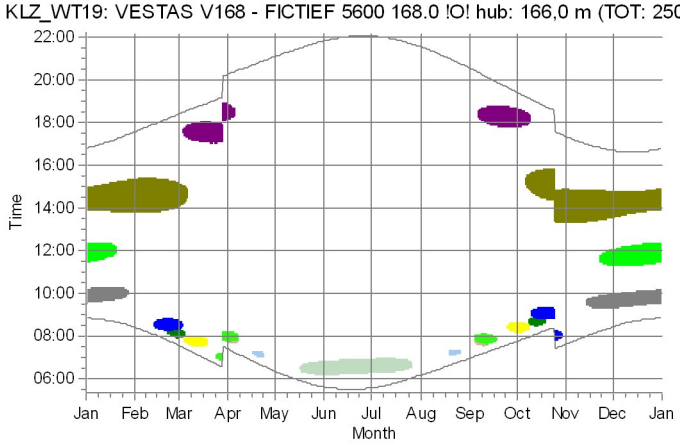
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m)



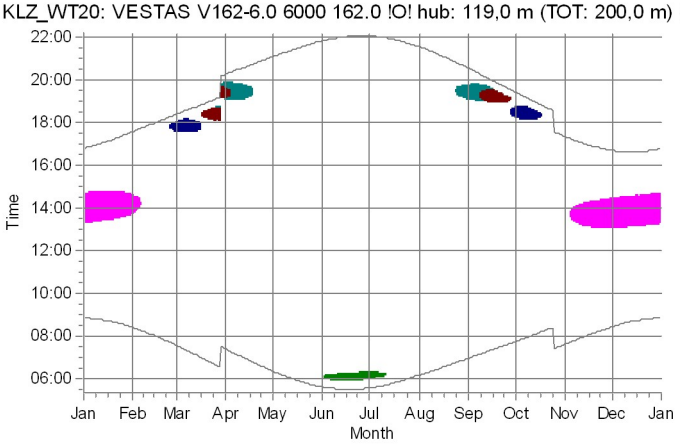
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)



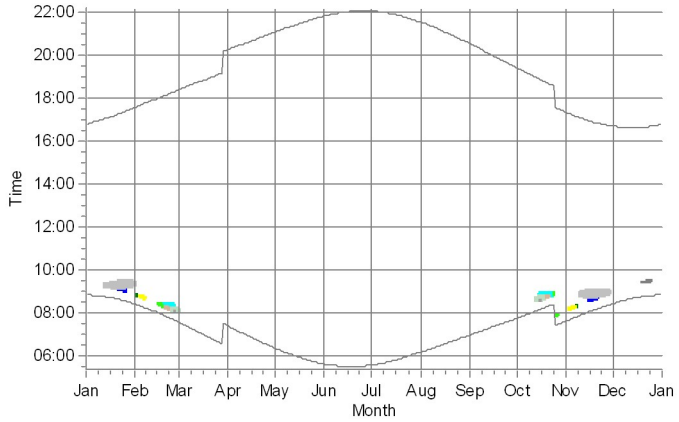
KLZ_WT19: VESTAS V168 - FICTIEF 5600 168.0 !O! hub: 166,0 m (TOT: 250



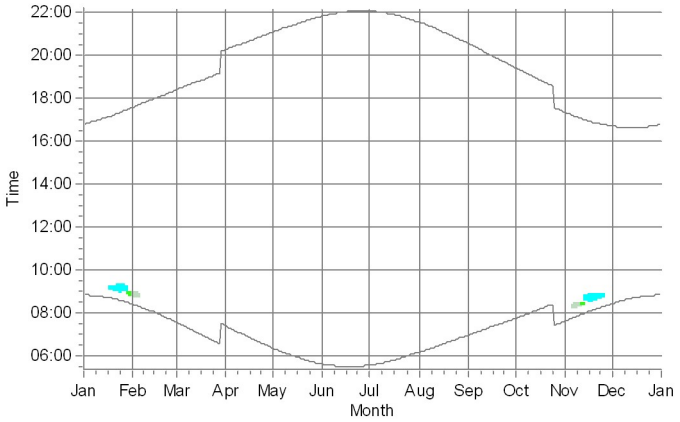
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)



MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,



MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

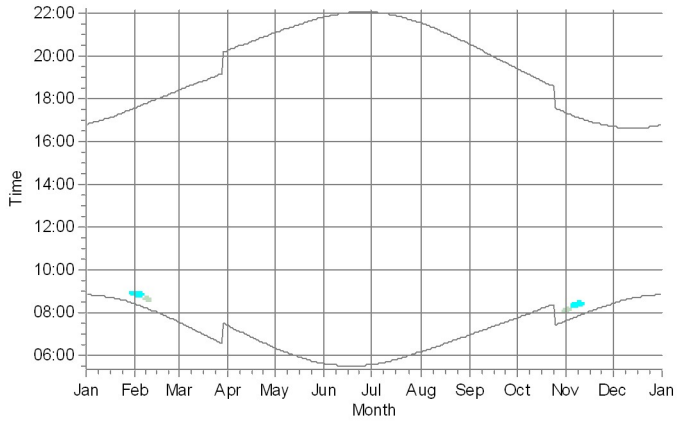
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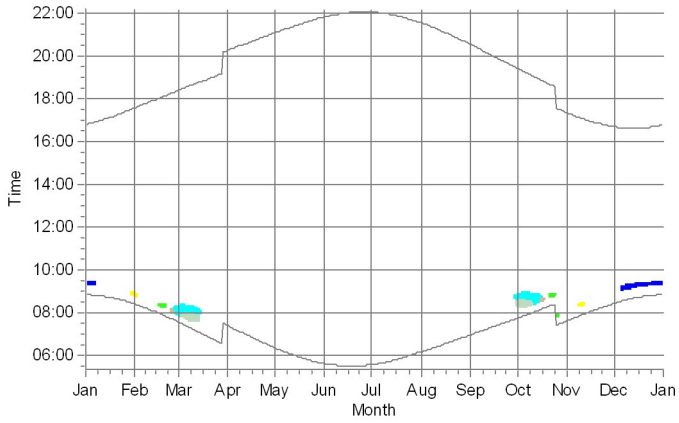
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

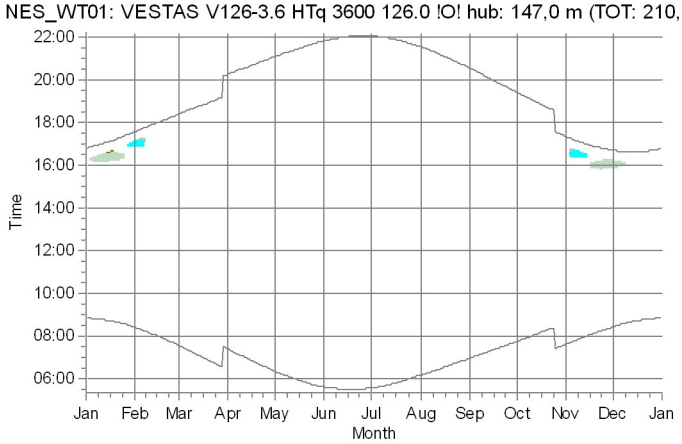
MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,



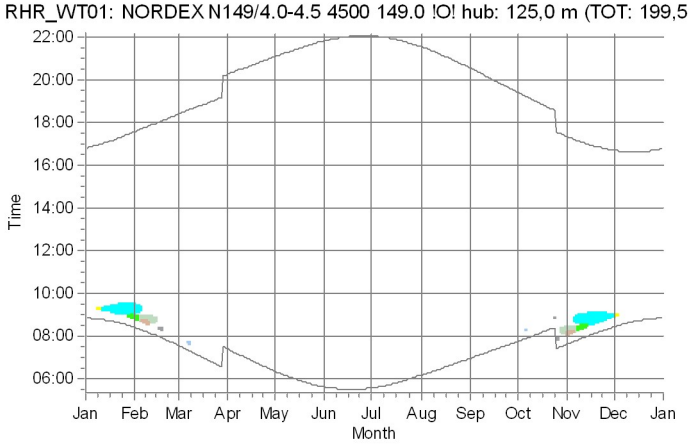
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)



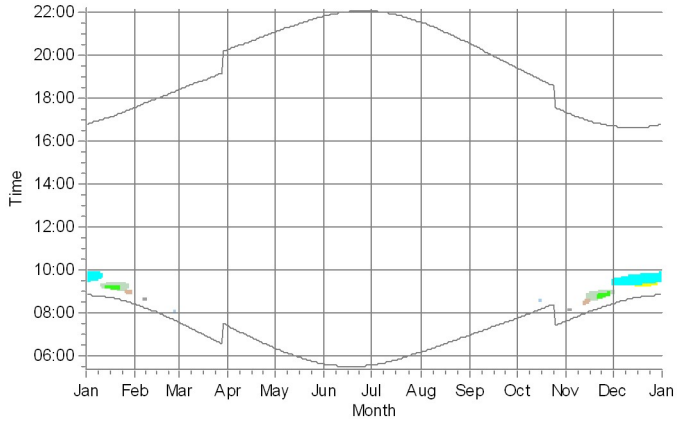
NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,



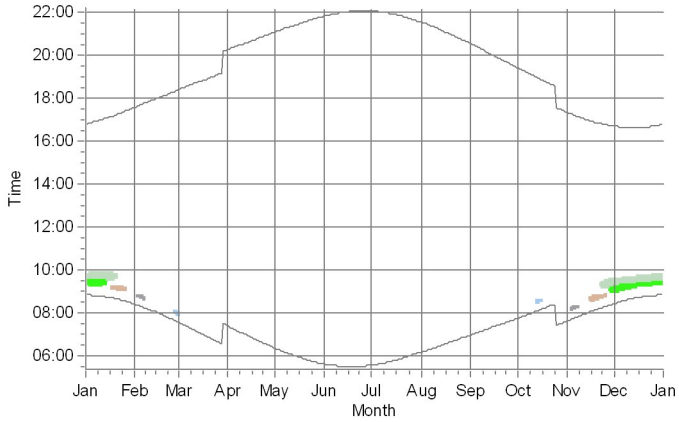
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47



RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5



RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

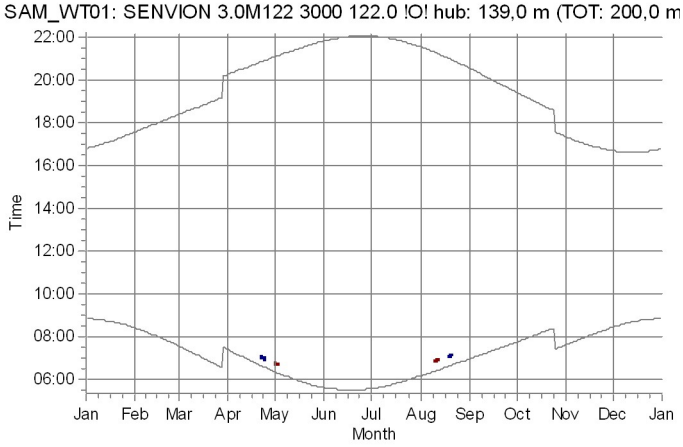
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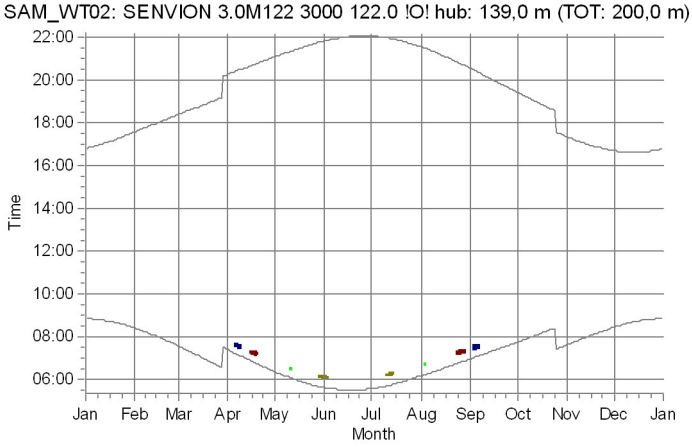
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

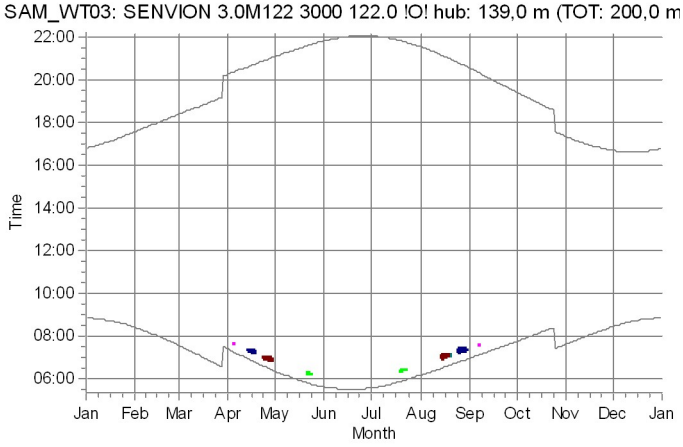
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



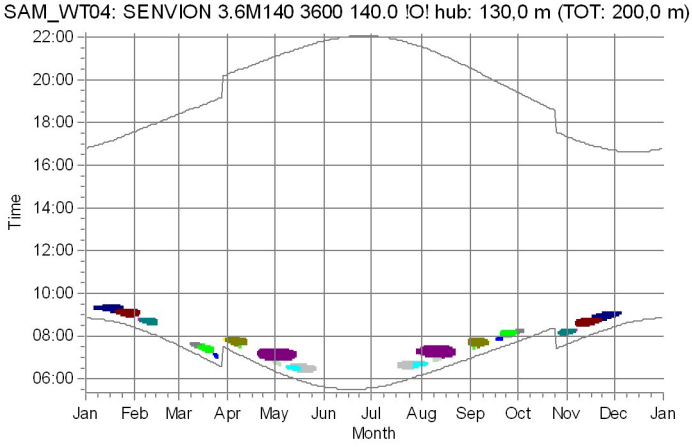
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)



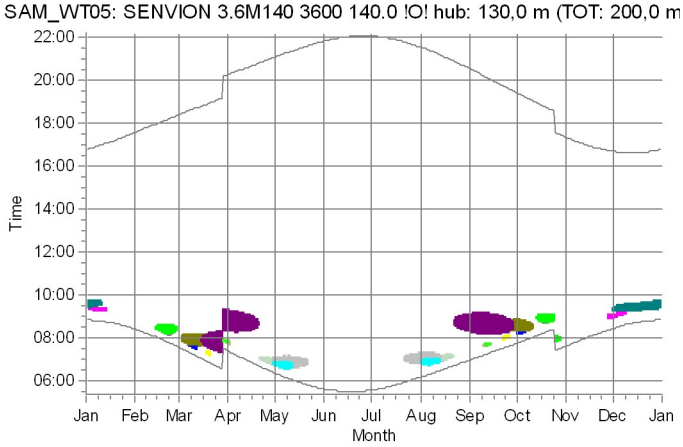
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



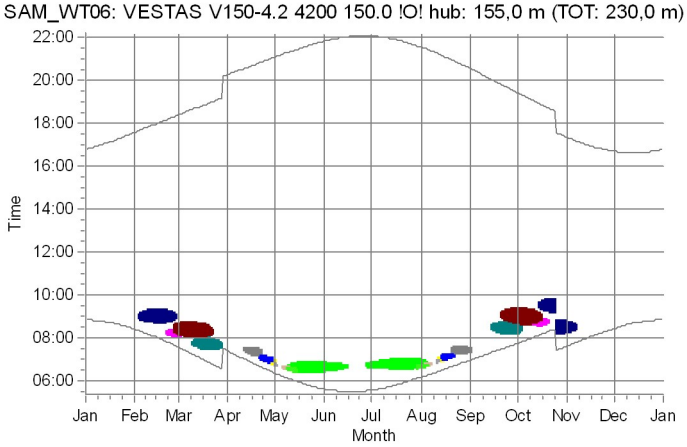
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)



SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

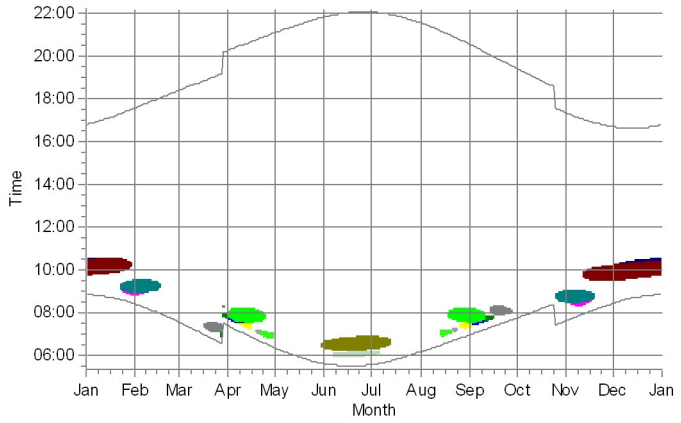
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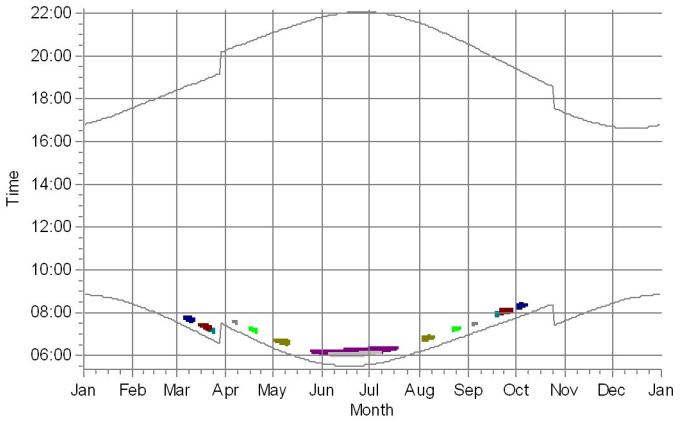
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

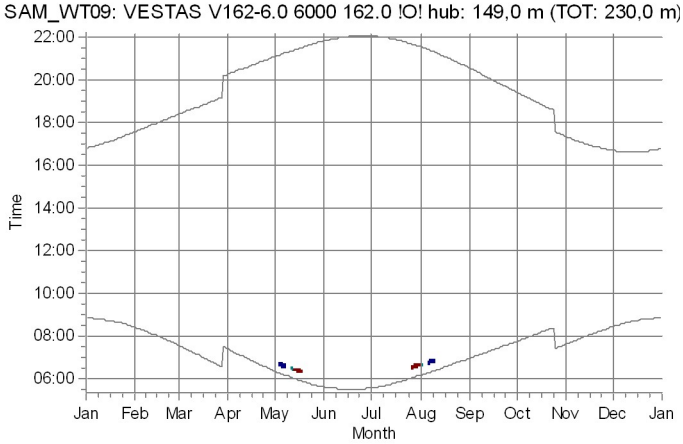
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m)



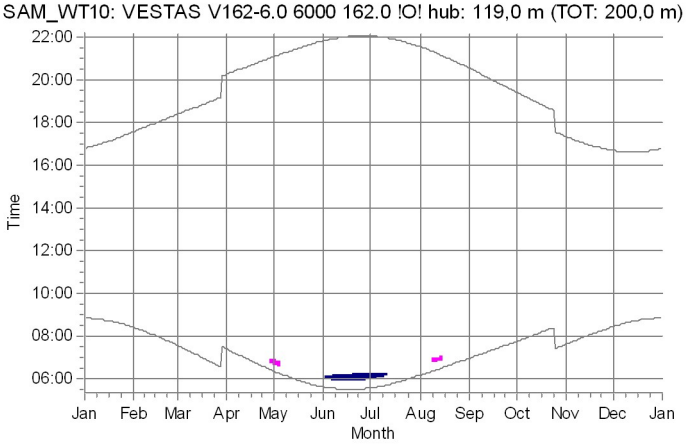
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)



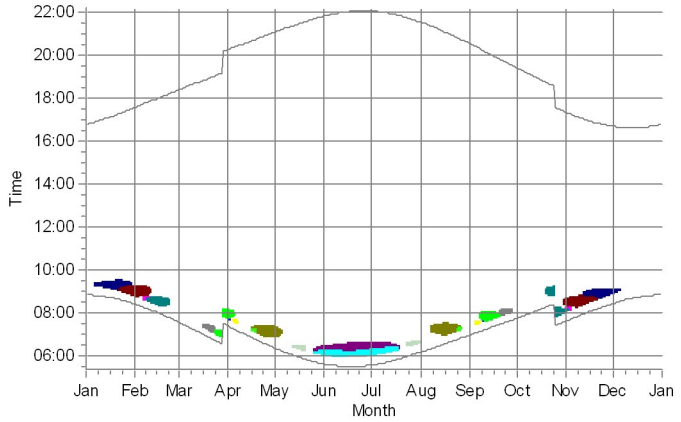
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m)



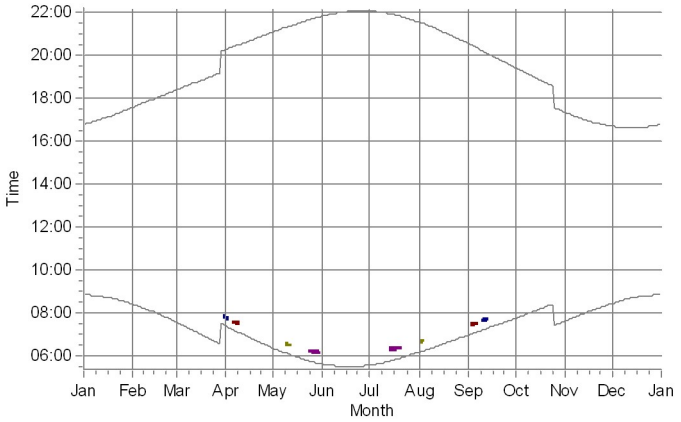
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)



SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m)



SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

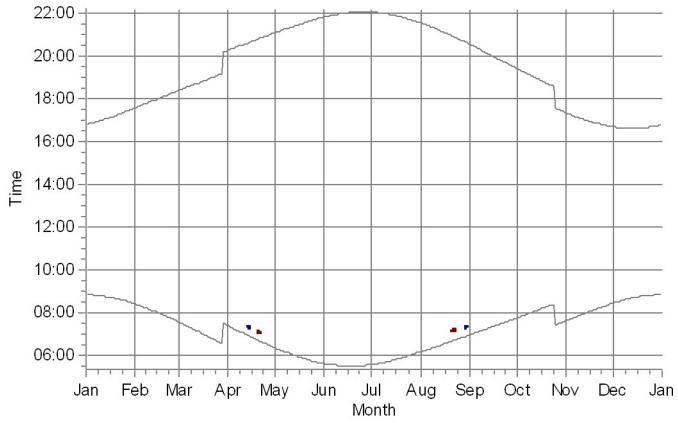
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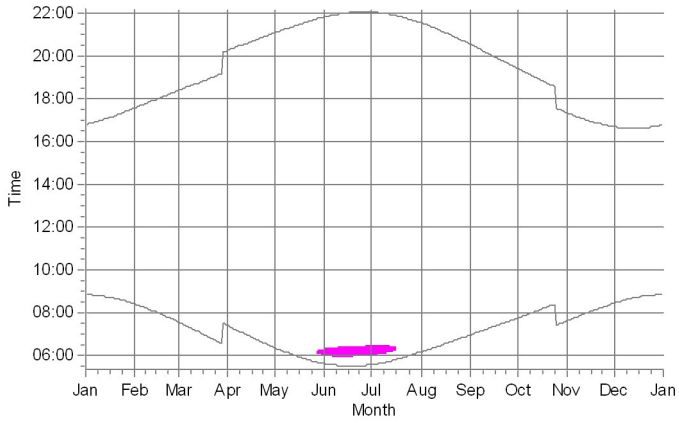
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling

SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!



TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)



Shadow receptors

5: Pelikaanstraat 60, 9940 Evergem

7: Christoffel Columbuslaan 23, 9042 Gent

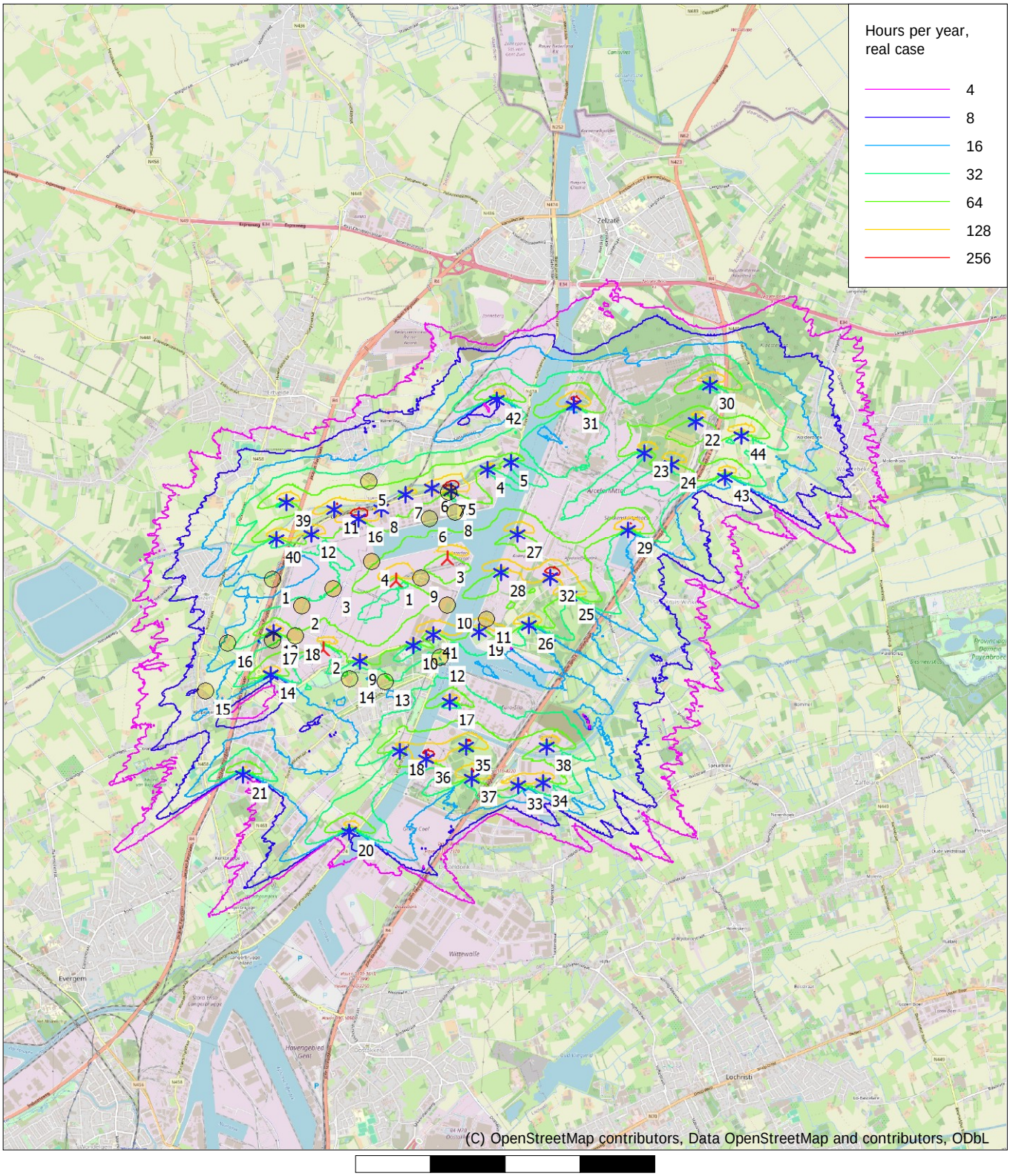
8: Christoffel Columbuslaan 17, 9042 Gent

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Calculated:
20/05/2026 12:33/4.1.264

SHADOW - Map

Calculation: Slagschaduw Windpark Armasteel - Project + Ref A + Ontwikkeling



Map: EMD OpenStreetMap , Print scale 1:75.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 109.460 North: 205.320

New WTG Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m

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20/05/2026 13:18/4.1.264

SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

Assumptions for shadow calculations

Maximum distance for influence	No limit
Minimum sun height over horizon for influence	3 °
Day step for calculation	1 days
Time step for calculation	1 minutes

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

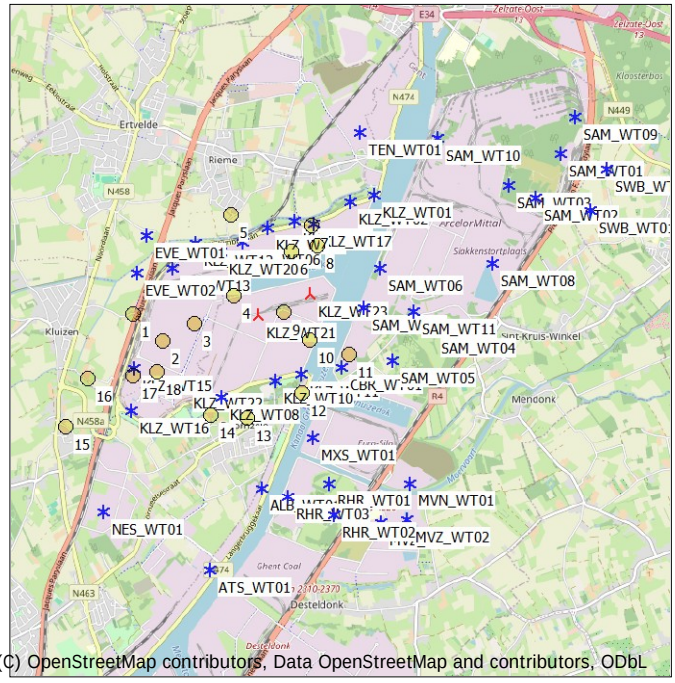
Operational hours are calculated from WTGs in calculation and wind distribution:
Windklimaat Kluizendok KNMI-KNW 1999-2018

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Monthly aggregation of real case reduction
Idle start wind speed: Cut in wind speed from power curve
A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
DHM: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)
Receptor grid resolution: 1,0 m

All coordinates are in
Belgian Lambert72-BD72 (BE 2001 <±1m)



Scale 1:100.000

New WTG | Existing WTG | Shadow receptor

WTGs

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Power, rated	Rotor diameter	Hub height	Shadow data Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
ALB_WT01	108.129	203.056	6,8	ENERCON E-115 EP3 E...	No	ENERCON	E-115 EP3 E3-4.200	4.200	115,7	135,0	100.000	12,9
ATS_WT01	107.438	201.986	6,5	NORDEX N149/5.X-po...	Yes	NORDEX	N149/5.X-powercurve-5.700	5.700	149,0	156,5	100.000	10,7
CBR_WT01	109.199	204.660	5,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	165,0	100.000	10,4
EVE_WT01	106.632	206.417	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
EVE_WT02	106.491	205.925	5,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	117,0	100.000	12,1
KLZ_WT01	109.653	206.929	5,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT02	109.337	206.834	6,8	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT04	108.595	206.585	5,7	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT05	108.233	206.502	6,1	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT06	107.898	206.322	5,5	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT08	107.596	204.270	7,4	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT10	108.320	204.485	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT11	108.672	204.558	5,0	ENERCON E-70 E4 200...	No	ENERCON	E-70 E4-2.000	2.000	71,0	98,0	100.000	20,0
KLZ_WT12	107.283	206.313	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT13	106.963	205.983	6,4	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT15	106.447	204.659	9,6	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT16	106.409	204.106	5,8	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
KLZ_WT17	108.845	206.555	5,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT20	107.601	206.186	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
KLZ_WT21	108.099	205.347	10,0	KLZ_WT21 Armasteel	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	162,5	100.000	-
KLZ_WT22	107.120	204.429	6,4	KLZ_WT22 Magelaanst...	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	197,5	100.000	-
KLZ_WT23	108.781	205.627	9,7	KLZ_WT23 Stukwerkers	Yes	ENERCON	E-175 EP5-6.000	6.000	175,0	197,5	100.000	-
MVN_WT01	110.103	203.099	14,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	164,0	100.000	10,7
MVZ_WT01	109.715	202.591	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MVZ_WT02	110.052	202.627	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	137,0	100.000	12,1
MXS_WT01	108.810	203.720	5,0	SENVION 3.4M104 340...	Yes	SENVION	3.4M104-3.400	3.400	104,0	100,0	100.000	13,8
NES_WT01	106.019	202.761	10,0	VESTAS V126-3.6 HTq ...	Yes	VESTAS	V126-3.6 HTq-3.600	3.600	126,0	147,0	100.000	12,1
RHR_WT01	109.022	203.110	6,7	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT02	109.082	202.694	10,0	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
RHR_WT03	108.481	202.945	6,4	NORDEX N149/4.0-4.5...	Yes	NORDEX	N149/4.0-4.5-4.500	4.500	149,0	125,0	100.000	10,7
SAM_WT01	112.131	207.449	8,3	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT02	111.799	206.878	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT03	111.438	207.038	10,0	SENVION 3.0M122 300...	Yes	SENVION	3.0M122-3.000	3.000	122,0	139,0	100.000	11,2
SAM_WT04	110.414	205.130	10,0	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-
SAM_WT05	109.878	204.734	9,9	SENVION 3.6M140 360...	Yes	SENVION	3.6M140-3.600	3.600	140,0	130,0	100.000	-

To be continued on next page...

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SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

...continued from previous page

	X	Y	Z	Row data/Description	WTG type Valid	Manufact.	Type-generator	Shadow data Power, rated	Rotor diameter	Hub height	Calculation distance	RPM
			[m]					[kW]	[m]	[m]	[m]	[RPM]
SAM_WT06	109.720	205.956	9,1	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT07	109.509	205.446	5,6	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	155,0	100.000	10,4
SAM_WT08	111.215	206.006	10,0	VESTAS V150-4.2 420...	Yes	VESTAS	V150-4.2-4.200	4.200	150,0	123,0	100.000	10,4
SAM_WT09	112.321	207.938	9,4	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	149,0	100.000	-
SAM_WT10	110.490	207.672	5,8	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SAM_WT11	110.164	205.375	10,0	VESTAS V162-6.0 600...	Yes	VESTAS	V162-6.0-6.000	6.000	162,0	119,0	100.000	-
SWB_WT01_RP	112.521	206.699	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
SWB_WT02_RP	112.740	207.253	5,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	155,0	100.000	-
TEN_WT01	109.463	207.750	10,0	VESTAS V150-6.0 600...	Yes	VESTAS	V150-6.0-6.000	6.000	150,0	165,0	100.000	-

Shadow receptor-Input

No.	Name	X	Y	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]		[m]
1	Hoogstraat 54, 9940 Evergem	106.439	205.375	8,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
2	Pachtgoederen 2, 9940 Evergem	106.832	205.016	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
3	Pachtgoederen 2, 9940 Evergem	107.261	205.250	10,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
4	James Cookstraat 10, 9042 Gent	107.778	205.604	8,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
5	Pelikaanstraat 60, 9940 Evergem	107.756	206.679	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
6	Christoffel Columbuslaan 23, 9042 Gent	108.546	206.175	5,8	5,0	2,0	1,0	90,0	"Green house mode"	3,0
7	Christoffel Columbuslaan 23, 9042 Gent	108.814	206.524	5,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
8	Christoffel Columbuslaan 17, 9042 Gent	108.899	206.258	5,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0
9	Willem van Rubroeckstraat 2, 9042 Gent	108.436	205.375	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
10	Willem van Rubroeckstraat 26, 9042 Gent	108.776	205.017	5,7	5,0	2,0	1,0	90,0	"Green house mode"	3,0
11	Arbedkaai 3, 9042 Gent	109.306	204.824	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
12	Terdonkkaai 8, 9042 Gent	108.680	204.307	5,9	5,0	2,0	1,0	90,0	"Green house mode"	3,0
13	Doornzele Dries 107, 9940 Evergem	107.941	203.993	6,1	5,0	2,0	1,0	90,0	"Green house mode"	3,0
14	Abdijdreef 2, 9940 Evergem	107.467	204.038	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
15	Hageland 14, 9940 Evergem	105.526	203.893	6,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
16	Molendreef 5, 9940 Evergem	105.831	204.531	5,0	5,0	2,0	1,0	90,0	"Green house mode"	3,0
17	Amerigo Vespuccistraat 2A, 9940 Evergem	106.436	204.558	9,3	5,0	2,0	1,0	90,0	"Green house mode"	3,0
18	Pachtgoederen 1, 9940 Evergem	106.749	204.616	8,5	5,0	2,0	1,0	90,0	"Green house mode"	3,0

Calculation Results

Shadow receptor

		Shadow, worst case			Shadow, expected values
No.	Name	Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]	Shadow hours per year [h/year]
1	Hoogstraat 54, 9940 Evergem	76:19	222	0:50	13:54
2	Pachtgoederen 2, 9940 Evergem	207:48	240	1:56	37:38
3	Pachtgoederen 2, 9940 Evergem	138:32	247	1:19	31:08
4	James Cookstraat 10, 9042 Gent	258:15	333	1:41	55:09
5	Pelikaanstraat 60, 9940 Evergem	322:38	282	2:56	58:14
6	Christoffel Columbuslaan 23, 9042 Gent	277:23	281	2:07	50:30
7	Christoffel Columbuslaan 23, 9042 Gent	219:27	319	1:37	47:44
8	Christoffel Columbuslaan 17, 9042 Gent	276:23	277	2:26	49:26
9	Willem van Rubroeckstraat 2, 9042 Gent	384:46	298	2:21	101:48
10	Willem van Rubroeckstraat 26, 9042 Gent	237:37	330	1:35	51:34
11	Arbedkaai 3, 9042 Gent	438:41	246	3:15	126:06
12	Terdonkkaai 8, 9042 Gent	80:28	223	0:43	20:25
13	Doornzele Dries 107, 9940 Evergem	125:29	271	1:16	28:48
14	Abdijdreef 2, 9940 Evergem	123:36	300	0:46	26:40
15	Hageland 14, 9940 Evergem	43:02	167	0:37	11:26
16	Molendreef 5, 9940 Evergem	86:01	196	0:57	20:46
17	Amerigo Vespuccistraat 2A, 9940 Evergem	122:16	264	1:08	27:00
18	Pachtgoederen 1, 9940 Evergem	394:47	341	1:55	95:07

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Calculated:
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SHADOW - Main Result

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

Total amount of flickering on the shadow receptors caused by each WTG

No.	Name	Worst case [h/year]	Expected [h/year]
ALB_WT01	ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)	17:03	2:13
ATS_WT01	NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)	7:12	0:51
CBR_WT01	VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)	430:39	115:52
EVE_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)	26:19	6:25
EVE_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)	20:46	4:51
KLZ_WT01	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)	18:12	5:32
KLZ_WT02	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)	7:31	2:15
KLZ_WT04	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)	79:48	19:10
KLZ_WT05	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)	50:48	12:11
KLZ_WT06	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)	89:19	16:20
KLZ_WT08	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)	32:24	5:40
KLZ_WT10	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)	82:36	18:37
KLZ_WT11	ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)	32:26	6:38
KLZ_WT12	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)	48:00	10:25
KLZ_WT13	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)	52:43	11:44
KLZ_WT15	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)	288:02	71:21
KLZ_WT16	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)	132:45	24:35
KLZ_WT17	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)	20:21	5:00
KLZ_WT20	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)	156:49	31:14
KLZ_WT21	KLZ_WT21 Armasteel	691:31	171:15
KLZ_WT22	KLZ_WT22 Magelaanstraat	512:09	102:32
KLZ_WT23	KLZ_WT23 Stukwerkers	339:08	63:54
MVN_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)	17:38	2:39
MVZ_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)	5:06	0:43
MVZ_WT02	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)	2:40	0:24
MXS_WT01	SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)	19:46	3:42
NES_WT01	VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)	12:10	2:12
RHR_WT01	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)	22:52	3:19
RHR_WT02	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)	19:42	2:28
RHR_WT03	NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)	29:02	3:37
SAM_WT01	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)	0:22	0:06
SAM_WT02	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)	1:33	0:27
SAM_WT03	SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)	2:47	0:49
SAM_WT04	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)	52:50	12:55
SAM_WT05	SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)	105:12	24:29
SAM_WT06	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)	99:16	23:13
SAM_WT07	VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)	121:15	24:34
SAM_WT08	VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)	17:56	5:08
SAM_WT09	VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)	0:53	0:16
SAM_WT10	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)	5:34	1:42
SAM_WT11	VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)	72:17	17:08
SWB_WT01_RP	VESTAS V150-6.0 6000 150.0 !O!	1:23	0:24
SWB_WT02_RP	VESTAS V150-6.0 6000 150.0 !O!	0:13	0:03
TEN_WT01	VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)	12:28	3:49

Total times in Receptor wise and WTG wise tables can differ, as a WTG can lead to flicker at 2 or more receptors simultaneously and/or receptors may receive flicker from 2 or more WTGs simultaneously.

The calculation of the total expected values for a given receptor assumes a weighted average directional reduction for all WTGs contributing to shadow flicker within the same day. In the case where shadow flicker from different WTGs is not concurrent within the day, the total expected time at a given receptor may deviate marginally from the individual flicker time caused by each turbine separately.

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (KLZ_WT08)	08:24			07:32			07:23		07:48 (SAM_WT07)	06:20			05:36		06:04 (KLZ_WT05)
	16:48	41	10:30 (KLZ_WT22)	17:35			18:25			20:17	29	08:17 (KLZ_WT21)	21:06			21:51	2	06:06 (KLZ_WT05)
2	08:50		09:20 (KLZ_WT08)	08:23		08:48 (MVN_WT01)	07:30		07:53 (CBR_WT01)	07:21		07:52 (KLZ_WT21)	06:18			05:36		06:04 (KLZ_WT05)
	16:49	43	10:31 (KLZ_WT22)	17:37	1	08:49 (MVN_WT01)	18:27	1	07:54 (CBR_WT01)	20:19	24	08:16 (KLZ_WT21)	21:08			21:52	3	06:07 (KLZ_WT05)
3	08:49		09:20 (KLZ_WT08)	08:21		08:46 (MVN_WT01)	07:28		07:51 (CBR_WT01)	07:19		07:52 (KLZ_WT21)	06:17			05:35		06:03 (KLZ_WT05)
	16:50	44	10:32 (KLZ_WT22)	17:38	2	08:48 (MVN_WT01)	18:28	4	07:55 (CBR_WT01)	20:20	23	08:15 (KLZ_WT21)	21:10			21:53	3	06:06 (KLZ_WT05)
4	08:49		09:19 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (CBR_WT01)	07:17		07:53 (KLZ_WT21)	06:15			05:34		06:02 (KLZ_WT05)
	16:51	44	10:31 (KLZ_WT22)	17:40	1	08:46 (MVN_WT01)	18:30	6	07:55 (CBR_WT01)	20:22	21	08:14 (KLZ_WT21)	21:11			21:54	4	06:06 (KLZ_WT05)
5	08:49		09:19 (KLZ_WT08)	08:18			07:24		07:47 (CBR_WT01)	07:14		07:37 (KLZ_WT23)	06:13			05:34		06:02 (KLZ_WT05)
	16:53	45	10:32 (KLZ_WT22)	17:42			18:32	8	07:55 (CBR_WT01)	20:24	26	08:13 (KLZ_WT21)	21:13			21:55	5	06:07 (KLZ_WT20)
6	08:49		09:18 (KLZ_WT08)	08:16			07:22		07:44 (CBR_WT01)	07:12		07:34 (KLZ_WT23)	06:11			05:33		06:01 (KLZ_WT05)
	16:54	46	10:32 (KLZ_WT22)	17:44			18:33	10	07:54 (CBR_WT01)	20:25	26	08:10 (KLZ_WT21)	21:14			21:56	6	06:07 (KLZ_WT20)
7	08:48		09:18 (KLZ_WT08)	08:15			07:19		07:43 (CBR_WT01)	07:10		07:32 (KLZ_WT23)	06:09			05:32		06:01 (KLZ_WT05)
	16:55	47	10:33 (KLZ_WT22)	17:46			18:35	10	07:53 (CBR_WT01)	20:27	24	08:07 (KLZ_WT21)	21:16			21:57	7	06:08 (KLZ_WT20)
8	08:48		09:17 (KLZ_WT08)	08:13			07:17		07:45 (CBR_WT01)	07:08		07:30 (KLZ_WT23)	06:08			05:32		06:01 (KLZ_WT06)
	16:56	48	10:33 (KLZ_WT22)	17:47			18:37	6	07:51 (CBR_WT01)	20:29	16	07:46 (KLZ_WT23)	21:18			21:57	9	06:10 (KLZ_WT20)
9	08:48		09:18 (KLZ_WT08)	08:11			07:15			07:06		07:29 (KLZ_WT23)	06:06			05:31		06:00 (KLZ_WT06)
	16:58	48	10:34 (KLZ_WT22)	17:49			18:39			20:30	18	07:47 (KLZ_WT23)	21:19			21:58	9	06:09 (KLZ_WT20)
10	08:47		09:18 (KLZ_WT08)	08:09			07:13		07:35 (SAM_WT05)	07:03		07:29 (KLZ_WT23)	06:04			05:31		06:00 (KLZ_WT06)
	16:59	48	10:34 (KLZ_WT22)	17:51			18:40	1	07:36 (SAM_WT05)	20:32	18	07:47 (KLZ_WT23)	21:21			21:59	10	06:10 (KLZ_WT20)
11	08:47		09:15 (RHR_WT01)	08:08			07:11		07:33 (SAM_WT05)	07:01		07:24 (SAM_WT06)	06:03		06:28 (KLZ_WT17)	05:31		06:00 (KLZ_WT06)
	17:00	50	10:35 (KLZ_WT22)	17:53			18:42	2	07:35 (SAM_WT05)	20:34	18	07:46 (KLZ_WT23)	21:22	1	06:29 (KLZ_WT17)	22:00	11	06:11 (KLZ_WT20)
12	08:46		09:15 (RHR_WT01)	08:06			07:08			06:59		07:21 (SAM_WT06)	06:01		06:26 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:02	49	10:36 (KLZ_WT22)	17:55			18:44			20:35	20	07:45 (KLZ_WT23)	21:24	3	06:29 (KLZ_WT17)	22:00	12	06:11 (KLZ_WT20)
13	08:45		09:14 (RHR_WT01)	08:04			07:06			06:57		07:19 (SAM_WT06)	06:00		06:25 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:03	48	10:36 (KLZ_WT22)	17:56			18:45			20:37	20	07:44 (KLZ_WT23)	21:25	4	06:29 (KLZ_WT17)	22:01	12	06:11 (KLZ_WT20)
14	08:45		09:13 (RHR_WT01)	08:02		08:26 (KLZ_WT10)	07:04			06:55		07:17 (SAM_WT06)	05:58		06:23 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:05	45	10:36 (KLZ_WT22)	17:58	2	08:28 (KLZ_WT10)	18:47			20:39	18	07:42 (KLZ_WT23)	21:27	5	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
15	08:44		09:59 (KLZ_WT22)	08:00		08:24 (KLZ_WT10)	07:02			06:53		07:15 (SAM_WT06)	05:56		06:22 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:06	37	10:36 (KLZ_WT22)	18:00	3	08:27 (KLZ_WT10)	18:49			20:40	15	07:40 (KLZ_WT23)	21:28	6	06:28 (KLZ_WT17)	22:02	13	06:12 (KLZ_WT20)
16	08:43		09:59 (KLZ_WT22)	07:58		08:22 (KLZ_WT10)	06:59			06:50			05:55		06:21 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:08	37	10:36 (KLZ_WT22)	18:02	4	08:26 (KLZ_WT10)	18:51			20:42			21:30	7	06:28 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
17	08:42		10:00 (KLZ_WT22)	07:57			06:57			06:48			05:54		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:09	36	10:36 (KLZ_WT22)	18:04			18:52			20:43			21:31	8	06:27 (KLZ_WT17)	22:03	14	06:13 (KLZ_WT20)
18	08:41		10:01 (KLZ_WT22)	07:55			06:55			06:46			05:52		06:18 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:11	35	10:36 (KLZ_WT22)	18:05			18:54			20:45			21:33	8	06:26 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
19	08:40		10:01 (KLZ_WT22)	07:53			06:53			06:44			05:51		06:17 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:12	36	10:37 (KLZ_WT22)	18:07			18:56			20:47			21:34	8	06:25 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
20	08:39		10:02 (KLZ_WT22)	07:51			06:50			06:42			05:49		06:19 (KLZ_WT17)	05:30		05:59 (KLZ_WT06)
	17:14	35	10:37 (KLZ_WT22)	18:09			18:57			20:48			21:35	5	06:24 (KLZ_WT17)	22:04	14	06:13 (KLZ_WT20)
21	08:38		10:02 (KLZ_WT22)	07:49			06:48			06:40			05:48			05:30		05:59 (KLZ_WT06)
	17:16	34	10:36 (KLZ_WT22)	18:11			18:59			20:50			21:37			22:04	15	06:14 (KLZ_WT20)
22	08:37		10:03 (KLZ_WT22)	07:47			06:46			06:38			05:47			05:30		06:00 (KLZ_WT06)
	17:17	33	10:36 (KLZ_WT22)	18:12			19:01			20:52			21:38			22:05	14	06:14 (KLZ_WT20)
23	08:36		10:04 (KLZ_WT22)	07:45		08:08 (KLZ_WT11)	06:44		07:06 (KLZ_WT21)	06:36			05:46			05:30		06:00 (KLZ_WT06)
	17:19	31	10:35 (KLZ_WT22)	18:14	1	08:09 (KLZ_WT11)	19:02	4	07:10 (KLZ_WT21)	20:53			21:40			22:05	14	06:14 (KLZ_WT20)
24	08:35		10:06 (KLZ_WT22)	07:43			06:41		07:04 (KLZ_WT21)	06:34			05:44			05:31		06:00 (KLZ_WT06)
	17:21	29	10:35 (KLZ_WT22)	18:16			19:04	10	07:14 (KLZ_WT21)	20:55			21:41			22:05	14	06:14 (KLZ_WT20)
25	08:34		10:06 (KLZ_WT22)	07:41			06:39		07:01 (KLZ_WT21)	06:32			05:43			05:31		06:01 (KLZ_WT06)
	17:22	28	10:34 (KLZ_WT22)	18:18			19:06	14	07:15 (KLZ_WT21)	20:57			21:42			22:05	14	06:15 (KLZ_WT20)
26	08:32		10:08 (KLZ_WT22)	07:39			06:37		06:59 (KLZ_WT21)	06:30			05:42			05:31		06:01 (KLZ_WT06)
	17:24	25	10:33 (KLZ_WT22)	18:20			19:07	17	07:16 (KLZ_WT21)	20:58			21:43			22:05	14	06:15 (KLZ_WT20)
27	08:31		10:09 (KLZ_WT22)	07:36			06:35		06:57 (KLZ_WT21)	06:28			05:41			05:32		06:02 (KLZ_WT06)
	17:26	23	10:32 (KLZ_WT22)	18:21			19:09	20	07:17 (KLZ_WT21)	21:00			21:45			22:05	13	06:15 (KLZ_WT20)
28	08:30		10:11 (KLZ_WT22)	07:34			06:32		06:55 (SAM_WT07)	06:26			05:40			05:32		06:02 (KLZ_WT06)
	17:28	20	10:31 (KLZ_WT22)	18:23			19:10	23	07:18 (KLZ_WT21)	21:01			21:46			22:05	13	06:15 (KLZ_WT20)
29	08:28		10:13 (KLZ_WT22)				07:30		07:52 (SAM_WT07)	06:24			05:39			05:33		06:03 (KLZ_WT06)
	17:29	15	10:28 (KLZ_WT22)				20:12	25	08:17 (KLZ_WT21)	21:03			21:47			22:05	13	06:16 (KLZ_WT20)
30	08:27		10:17 (KLZ_WT22)				07:28		07:50 (SAM_WT07)	06:22			05:38			05:33		06:03 (KLZ_WT06)
	17:31	8	10:25 (KLZ_WT22)				20:14	27	08:17 (KLZ_WT21)	21:05			21:48			22:05	12	06:15 (KLZ_WT20)
31	08:26						07:26		07:48 (SAM_WT07)				05:37		06:05 (KLZ_WT05)			
	17:33						20:15	29	08:17 (KLZ_WT21)				21:49	1	06:06 (KLZ_WT05)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1108			14			217			316			56			325	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,56			0,56			0,61			0,63			0,70			0,71	
Total reduction		0,14			0,16			0,22			0,28			0,31			0,31	
Total, real		150			2			49			90			17			100	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 1 - Hoogstraat 54, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (KLZ_WT06)	06:09		06:37 (KLZ_WT17)	06:57		07:23 (SAM_WT06)	07:45			07:37			08:26		08:57 (RHR_WT01)
	22:04	11	06:15 (KLZ_WT20)	21:34	2	06:39 (KLZ_WT17)	20:33	18	07:45 (KLZ_WT23)	19:25			17:21			16:42	50	10:17 (KLZ_WT22)
2	05:35		06:04 (KLZ_WT06)	06:11			06:59		07:27 (KLZ_WT23)	07:46		08:11 (SAM_WT05)	07:38			08:27		09:01 (KLZ_WT08)
	22:04	11	06:15 (KLZ_WT20)	21:32			20:31	18	07:45 (KLZ_WT23)	19:23	2	08:13 (SAM_WT05)	17:19			16:42	48	10:17 (KLZ_WT22)
3	05:35		06:05 (KLZ_WT06)	06:12			07:00		07:27 (KLZ_WT23)	07:48		08:12 (SAM_WT05)	07:40			08:29		09:01 (KLZ_WT08)
	22:04	10	06:15 (KLZ_WT20)	21:30			20:29	18	07:45 (KLZ_WT23)	19:21	2	08:14 (SAM_WT05)	17:17			16:41	48	10:17 (KLZ_WT22)
4	05:36		06:06 (KLZ_WT06)	06:14			07:02		07:27 (KLZ_WT23)	07:49			07:42			08:30		09:02 (KLZ_WT08)
	22:03	9	06:15 (KLZ_WT20)	21:29			20:27	16	07:43 (KLZ_WT23)	19:19			17:16			16:40	48	10:18 (KLZ_WT22)
5	05:37		06:07 (KLZ_WT05)	06:15			07:03		07:29 (KLZ_WT23)	07:51		08:23 (CBR_WT01)	07:44			08:31		09:03 (KLZ_WT08)
	22:03	8	06:15 (KLZ_WT20)	21:27			20:24	24	08:04 (KLZ_WT21)	19:17	4	08:27 (CBR_WT01)	17:14			16:40	47	10:18 (KLZ_WT22)
6	05:38		06:07 (KLZ_WT05)	06:17			07:05		07:30 (KLZ_WT23)	07:53		08:20 (CBR_WT01)	07:45			08:33		09:04 (KLZ_WT08)
	22:02	7	06:14 (KLZ_WT20)	21:25			20:22	26	08:06 (KLZ_WT21)	19:14	8	08:28 (CBR_WT01)	17:12			16:40	46	10:18 (KLZ_WT22)
7	05:38		06:08 (KLZ_WT05)	06:18			07:07		07:32 (KLZ_WT23)	07:54		08:19 (CBR_WT01)	07:47		08:15 (MVN_WT01)	08:34		09:06 (KLZ_WT08)
	22:02	6	06:14 (KLZ_WT20)	21:24			20:20	27	08:08 (KLZ_WT21)	19:12	11	08:30 (CBR_WT01)	17:11	2	08:17 (MVN_WT01)	16:39	45	10:19 (KLZ_WT22)
8	05:39		06:09 (KLZ_WT05)	06:20			07:08		07:33 (KLZ_WT23)	07:56		08:21 (CBR_WT01)	07:49		08:17 (MVN_WT01)	08:35		09:07 (KLZ_WT08)
	22:01	4	06:13 (KLZ_WT05)	21:22			20:18	23	08:08 (KLZ_WT21)	19:10	9	08:30 (CBR_WT01)	17:09	2	08:19 (MVN_WT01)	16:39	44	10:19 (KLZ_WT22)
9	05:40		06:10 (KLZ_WT05)	06:21			07:10		07:47 (KLZ_WT21)	07:58		08:22 (CBR_WT01)	07:51			08:36		09:08 (KLZ_WT08)
	22:00	3	06:13 (KLZ_WT05)	21:20			20:16	22	08:09 (KLZ_WT21)	19:08	7	08:29 (CBR_WT01)	17:07			16:39	44	10:20 (KLZ_WT22)
10	05:41		06:11 (KLZ_WT05)	06:23			07:11		07:45 (KLZ_WT21)	07:59		08:24 (CBR_WT01)	07:52			08:37		09:09 (KLZ_WT08)
	22:00	3	06:14 (KLZ_WT05)	21:18			20:13	24	08:09 (KLZ_WT21)	19:05	5	08:29 (CBR_WT01)	17:06			16:38	43	10:20 (KLZ_WT22)
11	05:42		06:12 (KLZ_WT05)	06:24			07:13		07:40 (SAM_WT07)	08:01		08:26 (CBR_WT01)	07:54			08:38		09:10 (KLZ_WT08)
	21:59	2	06:14 (KLZ_WT05)	21:16			20:11	29	08:09 (KLZ_WT21)	19:03	3	08:29 (CBR_WT01)	17:04			16:38	41	10:20 (KLZ_WT22)
12	05:43		06:13 (KLZ_WT05)	06:26			07:14		07:39 (SAM_WT07)	08:02			07:56		09:48 (KLZ_WT22)	08:39		09:11 (KLZ_WT08)
	21:58	2	06:15 (KLZ_WT05)	21:14			20:09	30	08:09 (KLZ_WT21)	19:01			17:03	9	09:57 (KLZ_WT22)	16:38	40	10:20 (KLZ_WT22)
13	05:44		06:14 (KLZ_WT05)	06:27			07:16		07:41 (SAM_WT07)	08:04			07:57		09:45 (KLZ_WT22)	08:40		09:12 (KLZ_WT08)
	21:57	1	06:15 (KLZ_WT05)	21:13			20:06	28	08:09 (KLZ_WT21)	18:59			17:01	15	10:00 (KLZ_WT22)	16:38	40	10:21 (KLZ_WT22)
14	05:45			06:29			07:18		07:42 (SAM_WT07)	08:06			07:59		09:43 (KLZ_WT22)	08:41		09:13 (KLZ_WT08)
	21:57			21:11			20:04	26	08:08 (KLZ_WT21)	18:57			17:00	20	10:03 (KLZ_WT22)	16:38	39	10:21 (KLZ_WT22)
15	05:47			06:30			07:19		07:44 (SAM_WT07)	08:07			08:01		09:42 (KLZ_WT22)	08:42		09:14 (KLZ_WT08)
	21:56			21:09			20:02	23	08:07 (KLZ_WT21)	18:55			16:59	23	10:05 (KLZ_WT22)	16:38	38	10:22 (KLZ_WT22)
16	05:48			06:32			07:21		07:45 (SAM_WT07)	08:09			08:03		09:41 (KLZ_WT22)	08:43		09:15 (KLZ_WT08)
	21:55			21:07			20:00	21	08:06 (KLZ_WT21)	18:53			16:57	25	10:06 (KLZ_WT22)	16:38	37	10:22 (KLZ_WT22)
17	05:49			06:34			07:22		07:47 (KLZ_WT21)	08:11			08:04		09:40 (KLZ_WT22)	08:44		09:16 (KLZ_WT08)
	21:54			21:05			19:57	18	08:05 (KLZ_WT21)	18:50			16:56	28	10:08 (KLZ_WT22)	16:39	37	10:23 (KLZ_WT22)
18	05:50			06:35			07:24		07:49 (KLZ_WT21)	08:13		08:38 (KLZ_WT11)	08:06		09:40 (KLZ_WT22)	08:45		09:16 (KLZ_WT08)
	21:53			21:03			19:55	15	08:04 (KLZ_WT21)	18:48	1	08:39 (KLZ_WT11)	16:55	29	10:09 (KLZ_WT22)	16:39	36	10:22 (KLZ_WT22)
19	05:51			06:37			07:25		07:50 (KLZ_WT21)	08:14			08:08		09:38 (KLZ_WT22)	08:45		09:17 (KLZ_WT08)
	21:51			21:01			19:53	11	08:01 (KLZ_WT21)	18:46			16:53	31	10:09 (KLZ_WT22)	16:39	36	10:23 (KLZ_WT22)
20	05:53			06:38			07:27		07:52 (KLZ_WT21)	08:16			08:09		09:38 (KLZ_WT22)	08:46		09:49 (KLZ_WT22)
	21:50			20:59			19:50	6	07:58 (KLZ_WT21)	18:44			16:52	33	10:11 (KLZ_WT22)	16:39	35	10:24 (KLZ_WT22)
21	05:54			06:40			07:29			08:18			08:11		09:38 (KLZ_WT22)	08:47		09:49 (KLZ_WT22)
	21:49			20:57			19:48			18:42			16:51	34	10:12 (KLZ_WT22)	16:40	35	10:24 (KLZ_WT22)
22	05:55			06:41			07:30			08:19			08:12		09:38 (KLZ_WT22)	08:47		09:50 (KLZ_WT22)
	21:48			20:55			19:46			18:40			16:50	35	10:13 (KLZ_WT22)	16:40	35	10:25 (KLZ_WT22)
23	05:56			06:43			07:32			08:21			08:14		09:37 (KLZ_WT22)	08:48		09:50 (KLZ_WT22)
	21:47			20:53			19:44			18:38			16:49	36	10:13 (KLZ_WT22)	16:41	35	10:25 (KLZ_WT22)
24	05:58		06:29 (KLZ_WT17)	06:45			07:33			08:23			08:16		09:38 (KLZ_WT22)	08:48		09:19 (KLZ_WT08)
	21:45	6	06:35 (KLZ_WT17)	20:51			19:41			18:36			16:48	36	10:14 (KLZ_WT22)	16:41	36	10:25 (KLZ_WT22)
25	05:59		06:28 (KLZ_WT17)	06:46			07:35			07:24			08:17		09:38 (KLZ_WT22)	08:48		09:20 (KLZ_WT08)
	21:44	8	06:36 (KLZ_WT17)	20:48			19:39			17:34			16:47	36	10:14 (KLZ_WT22)	16:42	36	10:26 (KLZ_WT22)
26	06:01		06:29 (KLZ_WT17)	06:48			07:37			07:26		07:53 (KLZ_WT10)	08:19		09:38 (KLZ_WT22)	08:49		09:20 (KLZ_WT08)
	21:43	8	06:37 (KLZ_WT17)	20:46			19:37			17:32	4	07:57 (KLZ_WT10)	16:46	36	10:14 (KLZ_WT22)	16:43	37	10:27 (KLZ_WT22)
27	06:02		06:30 (KLZ_WT17)	06:49			07:38			07:28		07:54 (KLZ_WT10)	08:20		09:38 (KLZ_WT22)	08:49		09:20 (KLZ_WT08)
	21:41	8	06:38 (KLZ_WT17)	20:44			19:35			17:30	3	07:57 (KLZ_WT10)	16:45	37	10:15 (KLZ_WT22)	16:43	37	10:27 (KLZ_WT22)
28	06:03		06:32 (KLZ_WT17)	06:51		07:17 (SAM_WT06)	07:40			07:30		07:56 (KLZ_WT10)	08:22		08:53 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:40	7	06:39 (KLZ_WT17)	20:42	15	07:42 (KLZ_WT23)	19:32			17:28	2	07:58 (KLZ_WT10)	16:44	45	10:16 (KLZ_WT22)	16:44	37	10:27 (KLZ_WT22)
29	06:05		06:33 (KLZ_WT17)	06:52		07:18 (SAM_WT06)	07:41			07:31			08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	6	06:39 (KLZ_WT17)	20:40	18	07:43 (KLZ_WT23)	19:30			17:27			16:44	48	10:16 (KLZ_WT22)	16:45	39	10:28 (KLZ_WT22)
30	06:06		06:34 (KLZ_WT17)	06:54		07:20 (SAM_WT06)	07:43			07:33			08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	5	06:39 (KLZ_WT17)	20:38	20	07:45 (KLZ_WT23)	19:28			17:25			16:43	49	10:17 (KLZ_WT22)	16:46	38	10:28 (KLZ_WT22)
31	06:08		06:36 (KLZ_WT17)	06:56		07:21 (SAM_WT06)				07:35						08:50		09:20 (KLZ_WT08)
	21:35	3	06:39 (KLZ_WT17)	20:36	20	07:45 (KLZ_WT23)				17:23						16:47	40	10:29 (KLZ_WT22)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		128			75			423			61			609			1247	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,64			0,62			0,56			0,56			0,56	
Total reduction		0,31			0,29			0,26			0,20			0,15			0,12	
Total, real		39			22			112			12			89			153	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June
1	08:50		09:20 (KLZ_WT08)	08:24		08:50 (MXS_WT01)	07:32			07:23			06:20		06:47 (SAM_WT06)	05:36
	16:48	63	11:26 (KLZ_WT22)	17:35	115	16:35 (KLZ_WT15)	18:25			20:17			21:06	41	07:28 (KLZ_WT21)	21:51
2	08:50		09:21 (KLZ_WT08)	08:23		08:48 (MXS_WT01)	07:30			07:21			06:18		06:48 (KLZ_WT23)	05:36
	16:49	64	11:27 (KLZ_WT22)	17:36	115	16:35 (KLZ_WT15)	18:27			20:19			21:08	39	07:27 (KLZ_WT21)	21:52
3	08:49		09:21 (KLZ_WT08)	08:21		10:39 (KLZ_WT22)	07:28			07:19			06:17		06:49 (KLZ_WT23)	05:35
	16:50	66	11:28 (KLZ_WT22)	17:38	110	16:35 (KLZ_WT15)	18:28			20:20			21:10	39	07:28 (KLZ_WT21)	21:53
4	08:49		09:20 (KLZ_WT08)	08:19		08:45 (MVN_WT01)	07:26		07:49 (KLZ_WT11)	07:17			06:15		06:48 (KLZ_WT23)	05:34
	16:51	67	11:28 (KLZ_WT22)	17:40	110	16:36 (KLZ_WT15)	18:30	2	07:51 (KLZ_WT11)	20:22			21:11	39	07:27 (KLZ_WT21)	21:54
5	08:49		09:20 (KLZ_WT08)	08:18		08:43 (MVN_WT01)	07:24		07:46 (KLZ_WT11)	07:14		07:37 (SAM_WT11)	06:13		06:48 (KLZ_WT23)	05:34
	16:53	69	11:29 (KLZ_WT22)	17:42	109	16:35 (KLZ_WT15)	18:32	4	07:50 (KLZ_WT11)	20:24	1	07:38 (SAM_WT11)	21:13	38	07:26 (KLZ_WT21)	21:55
6	08:49		09:20 (KLZ_WT08)	08:16		08:41 (MVN_WT01)	07:21		07:44 (KLZ_WT11)	07:12		07:34 (SAM_WT11)	06:11		06:49 (KLZ_WT23)	05:33
	16:54	70	11:29 (KLZ_WT22)	17:44	110	16:35 (KLZ_WT15)	18:33	5	07:49 (KLZ_WT11)	20:25	2	07:36 (SAM_WT11)	21:14	37	07:26 (KLZ_WT21)	21:56
7	08:48		09:20 (KLZ_WT08)	08:15		08:39 (MVN_WT01)	07:19		07:43 (KLZ_WT11)	07:10		07:32 (SAM_WT11)	06:09		06:50 (KLZ_WT23)	05:32
	16:55	71	11:30 (KLZ_WT22)	17:45	110	16:35 (KLZ_WT15)	18:35	5	07:48 (KLZ_WT11)	20:27	3	07:35 (SAM_WT11)	21:16	35	07:25 (KLZ_WT21)	21:56
8	08:48		09:20 (KLZ_WT08)	08:13		08:41 (MVN_WT01)	07:17			07:08			06:08		06:50 (KLZ_WT23)	05:32
	16:56	73	11:31 (KLZ_WT22)	17:47	103	16:35 (KLZ_WT15)	18:37			20:29			21:17	34	07:24 (KLZ_WT21)	21:57
9	08:48		09:17 (RHR_WT01)	08:11		10:44 (KLZ_WT22)	07:15			07:06		07:28 (SAM_WT07)	06:06		06:52 (KLZ_WT23)	05:31
	16:58	74	11:32 (KLZ_WT22)	17:49	99	16:35 (KLZ_WT15)	18:39			20:30	2	07:30 (SAM_WT07)	21:19	31	07:23 (KLZ_WT21)	21:58
10	08:47		09:16 (RHR_WT01)	08:09		10:45 (KLZ_WT22)	07:13			07:03		07:26 (SAM_WT07)	06:04		06:53 (KLZ_WT23)	05:31
	16:59	86	16:08 (KLZ_WT15)	17:51	95	16:34 (KLZ_WT15)	18:40			20:32	5	07:31 (SAM_WT07)	21:21	29	07:22 (KLZ_WT21)	21:59
11	08:46		09:15 (RHR_WT01)	08:08		10:46 (KLZ_WT22)	07:11			07:01		07:24 (SAM_WT07)	06:03		06:56 (KLZ_WT23)	05:31
	17:00	94	16:11 (KLZ_WT15)	17:53	92	16:34 (KLZ_WT15)	18:42			20:34	7	07:31 (SAM_WT07)	21:22	25	07:21 (KLZ_WT21)	22:00
12	08:46		09:15 (RHR_WT01)	08:06		10:47 (KLZ_WT22)	07:08		07:31 (CBR_WT01)	06:59		07:21 (SAM_WT07)	06:01		07:01 (KLZ_WT21)	05:30
	17:02	99	16:14 (KLZ_WT15)	17:55	88	16:33 (KLZ_WT15)	18:44	4	07:35 (CBR_WT01)	20:35	9	07:30 (SAM_WT07)	21:24	18	07:19 (KLZ_WT21)	22:00
13	08:45		09:14 (RHR_WT01)	08:04		10:48 (KLZ_WT22)	07:06		07:29 (CBR_WT01)	06:57		07:19 (SAM_WT07)	06:00		07:03 (KLZ_WT21)	05:30
	17:03	103	16:15 (KLZ_WT15)	17:56	83	16:32 (KLZ_WT15)	18:45	7	07:36 (CBR_WT01)	20:37	10	07:29 (SAM_WT07)	21:25	14	07:17 (KLZ_WT21)	22:01
14	08:45		09:13 (RHR_WT01)	08:02		10:50 (KLZ_WT22)	07:04		07:26 (CBR_WT01)	06:55		07:17 (SAM_WT07)	05:58		07:05 (KLZ_WT21)	05:30
	17:05	108	16:17 (KLZ_WT15)	17:58	77	16:31 (KLZ_WT15)	18:47	10	07:36 (CBR_WT01)	20:38	11	07:28 (SAM_WT07)	21:27	9	07:14 (KLZ_WT21)	22:02
15	08:44		09:12 (RHR_WT01)	08:00		10:52 (KLZ_WT22)	07:02		07:24 (CBR_WT01)	06:53		07:18 (SAM_WT07)	05:56			05:30
	17:06	112	16:19 (KLZ_WT15)	18:00	71	16:30 (KLZ_WT15)	18:49	12	07:36 (CBR_WT01)	20:40	8	07:26 (SAM_WT07)	21:28			22:02
16	08:43		09:11 (RHR_WT01)	07:58		10:54 (KLZ_WT22)	06:59		07:22 (CBR_WT01)	06:50			05:55			05:30
	17:08	114	16:20 (KLZ_WT15)	18:02	63	16:29 (KLZ_WT15)	18:50	14	07:36 (CBR_WT01)	20:42			21:30			22:03
17	08:42		09:11 (RHR_WT01)	07:57		10:57 (KLZ_WT22)	06:57		07:22 (CBR_WT01)	06:48			05:54			05:30
	17:09	116	16:22 (KLZ_WT15)	18:04	51	16:27 (KLZ_WT15)	18:52	13	07:35 (CBR_WT01)	20:43			21:31			22:03
18	08:41		09:13 (RHR_WT01)	07:55		11:04 (KLZ_WT22)	06:55		07:17 (SAM_WT05)	06:46			05:52			05:30
	17:11	114	16:23 (KLZ_WT15)	18:05	34	16:26 (KLZ_WT15)	18:54	13	07:33 (CBR_WT01)	20:45			21:33			22:03
19	08:40		09:25 (KLZ_WT08)	07:53		16:02 (KLZ_WT15)	06:53		07:15 (SAM_WT05)	06:44		07:10 (KLZ_WT21)	05:51			05:30
	17:12	113	16:25 (KLZ_WT15)	18:07	21	16:23 (KLZ_WT15)	18:56	13	07:32 (CBR_WT01)	20:47	9	07:19 (KLZ_WT21)	21:34			22:04
20	08:39		09:26 (KLZ_WT08)	07:51		16:05 (KLZ_WT15)	06:50		07:13 (SAM_WT05)	06:42		07:06 (KLZ_WT21)	05:49			05:30
	17:14	114	16:26 (KLZ_WT15)	18:09	15	16:20 (KLZ_WT15)	18:57	5	07:18 (SAM_WT05)	20:48	16	07:22 (KLZ_WT21)	21:35			22:04
21	08:38		09:27 (KLZ_WT08)	07:49			06:48			06:40		07:04 (KLZ_WT21)	05:48			05:30
	17:16	113	16:26 (KLZ_WT15)	18:11			18:59			20:50	20	07:24 (KLZ_WT21)	21:37			22:04
22	08:37		09:29 (KLZ_WT08)	07:47		08:10 (KLZ_WT10)	06:46			06:38		07:02 (KLZ_WT21)	05:47			05:30
	17:17	111	16:28 (KLZ_WT15)	18:12	1	08:11 (KLZ_WT10)	19:01			20:52	23	07:25 (KLZ_WT21)	21:38			22:05
23	08:36		09:32 (KLZ_WT08)	07:45		08:08 (KLZ_WT10)	06:44			06:36		07:01 (KLZ_WT21)	05:46			05:30
	17:19	108	16:29 (KLZ_WT15)	18:14	4	08:12 (KLZ_WT10)	19:02			20:53	25	07:26 (KLZ_WT21)	21:40			22:05
24	08:35		10:37 (KLZ_WT22)	07:43		08:06 (KLZ_WT10)	06:41			06:34		06:59 (KLZ_WT21)	05:44			05:31
	17:21	106	16:30 (KLZ_WT15)	18:16	6	08:12 (KLZ_WT10)	19:04			20:55	28	07:27 (KLZ_WT21)	21:41			22:05
25	08:34		10:36 (KLZ_WT22)	07:41		08:04 (KLZ_WT10)	06:39			06:32		06:55 (KLZ_WT23)	05:43			05:31
	17:22	107	16:30 (KLZ_WT15)	18:18	8	08:12 (KLZ_WT10)	19:05			20:57	32	07:27 (KLZ_WT21)	21:42			22:05
26	08:32		10:37 (KLZ_WT22)	07:39		08:02 (KLZ_WT10)	06:37			06:30		06:53 (KLZ_WT23)	05:42			05:31
	17:24	109	16:32 (KLZ_WT15)	18:20	10	08:12 (KLZ_WT10)	19:07			20:58	34	07:27 (KLZ_WT21)	21:43			22:05
27	08:31		10:36 (KLZ_WT22)	07:36		08:03 (KLZ_WT10)	06:35			06:28		06:51 (KLZ_WT23)	05:41			05:32
	17:26	110	16:32 (KLZ_WT15)	18:21	8	08:11 (KLZ_WT10)	19:09			21:00	36	07:27 (KLZ_WT21)	21:45			22:05
28	08:30		10:37 (KLZ_WT22)	07:34		08:04 (KLZ_WT10)	06:32			06:26		06:50 (SAM_WT06)	05:40			05:32
	17:28	111	16:33 (KLZ_WT15)	18:23	4	08:08 (KLZ_WT10)	19:10			21:01	38	07:28 (KLZ_WT21)	21:46			22:05
29	08:28		10:37 (KLZ_WT22)				07:30			06:24		06:48 (SAM_WT06)	05:39			05:33
	17:29	111	16:33 (KLZ_WT15)				20:12			21:03	40	07:28 (KLZ_WT21)	21:47			22:05
30	08:27		08:53 (MXS_WT01)				07:28		07:50 (SAM_WT04)	06:22		06:46 (SAM_WT06)	05:38			05:33
	17:31	113	16:34 (KLZ_WT15)				20:14	1	07:51 (SAM_WT04)	21:05	42	07:28 (KLZ_WT21)	21:48			22:04
31	08:26		08:51 (MXS_WT01)				07:26		07:48 (SAM_WT04)				05:37			
	17:33	114	16:34 (KLZ_WT15)				20:15	1	07:49 (SAM_WT04)				21:49			
Potential sun hours	262			279			367			415			482			495
Total, worst case		3003			1712			109			401			428		
Sun reduction		0,25			0,30			0,38			0,46			0,46		
Oper. time red.		0,98			0,98			0,98			0,98			0,98		
Wind dir. red.		0,62			0,65			0,59			0,65			0,65		
Total reduction		0,15			0,19			0,22			0,29			0,29		
Total, real		448			326			24			118			125		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 2 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		07:11 (KLZ_WT21)	06:57		07:23 (SAM_WT07)	07:44		08:09 (CBR_WT01)	07:37		10:14 (KLZ_WT22)	08:26		08:57 (RHR_WT01)
	22:04			21:34	19	07:30 (KLZ_WT21)	20:33	7	07:30 (SAM_WT07)	19:25	6	08:15 (CBR_WT01)	17:21	96	16:04 (KLZ_WT15)	16:42	93	15:53 (KLZ_WT15)
2	05:35			06:11		07:05 (KLZ_WT23)	06:59		07:24 (SAM_WT07)	07:46		08:11 (CBR_WT01)	07:38		10:13 (KLZ_WT22)	08:27		08:59 (RHR_WT01)
	22:04			21:32	27	07:32 (KLZ_WT21)	20:31	5	07:29 (SAM_WT07)	19:23	2	08:13 (CBR_WT01)	17:19	100	16:05 (KLZ_WT15)	16:42	87	15:52 (KLZ_WT15)
3	05:35			06:12		07:02 (KLZ_WT23)	07:00		07:26 (SAM_WT07)	07:48			07:40		08:10 (MVN_WT01)	08:29		09:00 (RHR_WT01)
	22:04			21:30	31	07:33 (KLZ_WT21)	20:29	2	07:28 (SAM_WT07)	19:21			17:17	104	16:05 (KLZ_WT15)	16:41	74	11:15 (KLZ_WT22)
4	05:36			06:14		07:01 (KLZ_WT23)	07:02			07:49			07:42		08:09 (MVN_WT01)	08:30		09:05 (KLZ_WT08)
	22:03			21:29	32	07:33 (KLZ_WT21)	20:27			19:19			17:16	110	16:05 (KLZ_WT15)	16:40	73	11:16 (KLZ_WT22)
5	05:37			06:15		07:00 (KLZ_WT23)	07:03		07:29 (SAM_WT11)	07:51			07:44		08:11 (MVN_WT01)	08:31		09:06 (KLZ_WT08)
	22:03			21:27	34	07:34 (KLZ_WT21)	20:24	3	07:32 (SAM_WT11)	19:16			17:14	109	16:05 (KLZ_WT15)	16:40	70	11:15 (KLZ_WT22)
6	05:38			06:17		06:59 (KLZ_WT23)	07:05		07:30 (SAM_WT11)	07:53			07:45		08:13 (MVN_WT01)	08:33		09:06 (KLZ_WT08)
	22:02			21:25	36	07:35 (KLZ_WT21)	20:22	2	07:32 (SAM_WT11)	19:14			17:12	109	16:05 (KLZ_WT15)	16:40	70	11:15 (KLZ_WT22)
7	05:38			06:18		06:59 (KLZ_WT23)	07:07		07:32 (SAM_WT11)	07:54		08:19 (KLZ_WT11)	07:47		08:15 (MVN_WT01)	08:34		09:07 (KLZ_WT08)
	22:02			21:24	37	07:36 (KLZ_WT21)	20:20	1	07:33 (SAM_WT11)	19:12	6	08:25 (KLZ_WT11)	17:11	109	16:05 (KLZ_WT15)	16:39	69	11:16 (KLZ_WT22)
8	05:39			06:20		06:58 (KLZ_WT23)	07:08			07:56		08:21 (KLZ_WT11)	07:49		10:10 (KLZ_WT22)	08:35		09:08 (KLZ_WT08)
	22:01			21:22	38	07:36 (KLZ_WT21)	20:18			19:10	5	08:26 (KLZ_WT11)	17:09	110	16:06 (KLZ_WT15)	16:39	67	11:16 (KLZ_WT22)
9	05:40			06:21		06:58 (KLZ_WT23)	07:10			07:58		08:22 (KLZ_WT11)	07:50		08:19 (MXS_WT01)	08:36		09:09 (KLZ_WT08)
	22:00			21:20	38	07:36 (KLZ_WT21)	20:15			19:08	3	08:25 (KLZ_WT11)	17:07	114	16:06 (KLZ_WT15)	16:39	65	11:16 (KLZ_WT22)
10	05:41			06:23		06:57 (KLZ_WT23)	07:11			07:59		08:24 (KLZ_WT11)	07:52		08:21 (MXS_WT01)	08:37		09:10 (KLZ_WT08)
	22:00			21:18	39	07:36 (KLZ_WT21)	20:13			19:05	1	08:25 (KLZ_WT11)	17:06	115	16:06 (KLZ_WT15)	16:38	64	11:16 (KLZ_WT22)
11	05:42			06:24		06:57 (KLZ_WT23)	07:13			08:01			07:54		08:23 (MXS_WT01)	08:38		09:10 (KLZ_WT08)
	21:59			21:16	40	07:37 (KLZ_WT21)	20:11			19:03			17:04	114	16:06 (KLZ_WT15)	16:38	63	11:16 (KLZ_WT22)
12	05:43			06:26		06:55 (SAM_WT06)	07:14			08:02			07:56		08:24 (MXS_WT01)	08:39		09:11 (KLZ_WT08)
	21:58			21:14	41	07:36 (KLZ_WT21)	20:09			19:01			17:03	113	16:05 (KLZ_WT15)	16:38	62	11:16 (KLZ_WT22)
13	05:44			06:27		06:54 (SAM_WT06)	07:16		07:41 (SAM_WT04)	08:04			07:57		10:09 (KLZ_WT22)	08:40		09:12 (KLZ_WT08)
	21:57			21:13	42	07:36 (KLZ_WT21)	20:06	1	07:42 (SAM_WT04)	18:59			17:01	111	16:05 (KLZ_WT15)	16:38	60	11:16 (KLZ_WT22)
14	05:45			06:29		06:56 (SAM_WT06)	07:18			08:06		08:36 (KLZ_WT10)	07:59		10:09 (KLZ_WT22)	08:41		09:13 (KLZ_WT08)
	21:56			21:11	40	07:36 (KLZ_WT21)	20:04			18:57	6	08:42 (KLZ_WT10)	17:00	111	16:05 (KLZ_WT15)	16:38	59	11:17 (KLZ_WT22)
15	05:47			06:30		06:57 (SAM_WT06)	07:19			08:07		08:34 (KLZ_WT10)	08:01		10:09 (KLZ_WT22)	08:42		09:15 (KLZ_WT08)
	21:56			21:09	38	07:35 (KLZ_WT21)	20:02			18:55	10	08:44 (KLZ_WT10)	16:59	110	16:05 (KLZ_WT15)	16:38	56	11:17 (KLZ_WT22)
16	05:48			06:32		06:59 (KLZ_WT23)	07:21			08:09		08:35 (KLZ_WT10)	08:02		10:10 (KLZ_WT22)	08:43		09:16 (KLZ_WT08)
	21:55			21:07	36	07:35 (KLZ_WT21)	20:00			18:53	9	08:44 (KLZ_WT10)	16:57	109	16:05 (KLZ_WT15)	16:38	55	11:17 (KLZ_WT22)
17	05:49			06:34		07:00 (KLZ_WT23)	07:22			08:11		08:36 (KLZ_WT10)	08:04		10:10 (KLZ_WT22)	08:44		09:17 (RHR_WT02)
	21:54			21:05	34	07:34 (KLZ_WT21)	19:57			18:50	8	08:44 (KLZ_WT10)	16:56	107	16:04 (KLZ_WT15)	16:39	54	11:18 (KLZ_WT22)
18	05:50			06:35		07:02 (KLZ_WT23)	07:24			08:12		08:38 (KLZ_WT10)	08:06		10:11 (KLZ_WT22)	08:45		09:16 (RHR_WT02)
	21:52			21:03	32	07:34 (KLZ_WT21)	19:55			18:48	6	08:44 (KLZ_WT10)	16:55	105	16:04 (KLZ_WT15)	16:39	55	11:18 (KLZ_WT22)
19	05:51			06:37		07:05 (KLZ_WT21)	07:25			08:14		08:40 (KLZ_WT10)	08:08		09:05 (KLZ_WT08)	08:45		09:17 (RHR_WT02)
	21:51			21:01	27	07:32 (KLZ_WT21)	19:53			18:46	3	08:43 (KLZ_WT10)	16:53	109	16:03 (KLZ_WT15)	16:39	54	11:18 (KLZ_WT22)
20	05:53			06:38		07:06 (KLZ_WT21)	07:27			08:16			08:09		09:04 (KLZ_WT08)	08:46		09:18 (RHR_WT02)
	21:50			20:59	25	07:31 (KLZ_WT21)	19:50			18:44			16:52	111	16:03 (KLZ_WT15)	16:39	54	11:19 (KLZ_WT22)
21	05:54			06:40		07:07 (KLZ_WT21)	07:29			08:18		16:40 (KLZ_WT15)	08:11		09:03 (KLZ_WT08)	08:47		09:18 (RHR_WT02)
	21:49			20:57	22	07:29 (KLZ_WT21)	19:48			18:42	6	16:46 (KLZ_WT15)	16:51	113	16:02 (KLZ_WT15)	16:40	54	11:19 (KLZ_WT22)
22	05:55			06:41		07:09 (KLZ_WT21)	07:30			08:19		16:34 (KLZ_WT15)	08:12		09:02 (KLZ_WT08)	08:47		09:19 (RHR_WT02)
	21:48			20:55	19	07:28 (KLZ_WT21)	19:46			18:40	17	16:51 (KLZ_WT15)	16:50	114	16:02 (KLZ_WT15)	16:40	54	11:20 (KLZ_WT22)
23	05:56			06:43		07:10 (KLZ_WT21)	07:32		07:56 (SAM_WT05)	08:21		16:31 (KLZ_WT15)	08:14		09:01 (KLZ_WT08)	08:48		09:19 (RHR_WT02)
	21:47			20:53	15	07:25 (KLZ_WT21)	19:44	5	08:01 (SAM_WT05)	18:38	23	16:54 (KLZ_WT15)	16:49	112	16:01 (KLZ_WT15)	16:41	54	11:20 (KLZ_WT22)
24	05:58			06:45		07:14 (KLZ_WT21)	07:33		07:58 (SAM_WT05)	08:23		11:32 (KLZ_WT22)	08:16		08:51 (RHR_WT01)	08:48		09:19 (RHR_WT02)
	21:45			20:50	8	07:22 (KLZ_WT21)	19:41	10	08:14 (CBR_WT01)	18:36	41	16:57 (KLZ_WT15)	16:48	112	16:00 (KLZ_WT15)	16:41	54	11:20 (KLZ_WT22)
25	05:59			06:46			07:35		07:59 (SAM_WT05)	07:24		10:27 (KLZ_WT22)	08:17		08:49 (RHR_WT01)	08:48		09:20 (RHR_WT02)
	21:44			20:48			19:39	14	08:16 (CBR_WT01)	17:34	54	15:58 (KLZ_WT15)	16:47	116	16:00 (KLZ_WT15)	16:42	55	11:22 (KLZ_WT22)
26	06:01			06:48			07:36		08:01 (SAM_WT05)	07:26		10:24 (KLZ_WT22)	08:19		08:49 (RHR_WT01)	08:49		09:20 (RHR_WT02)
	21:43			20:46			19:37	14	08:17 (CBR_WT01)	17:32	65	16:00 (KLZ_WT15)	16:46	114	15:58 (KLZ_WT15)	16:43	55	11:22 (KLZ_WT22)
27	06:02			06:49		07:23 (SAM_WT07)	07:38		08:03 (CBR_WT01)	07:28		10:21 (KLZ_WT22)	08:20		08:51 (RHR_WT01)	08:49		09:21 (RHR_WT02)
	21:41			20:44	2	07:25 (SAM_WT07)	19:35	15	08:18 (CBR_WT01)	17:30	72	16:00 (KLZ_WT15)	16:45	111	15:58 (KLZ_WT15)	16:43	55	11:22 (KLZ_WT22)
28	06:03			06:51		07:20 (SAM_WT07)	07:40		08:04 (CBR_WT01)	07:30		10:19 (KLZ_WT22)	08:22		08:53 (RHR_WT01)	08:49		09:21 (RHR_WT02)
	21:40			20:42	8	07:28 (SAM_WT07)	19:32	13	08:17 (CBR_WT01)	17:28	78	16:01 (KLZ_WT15)	16:44	108	15:57 (KLZ_WT15)	16:44	56	11:23 (KLZ_WT22)
29	06:05		07:19 (KLZ_WT21)	06:52		07:18 (SAM_WT07)	07:41		08:06 (CBR_WT01)	07:31		10:17 (KLZ_WT22)	08:23		08:54 (RHR_WT01)	08:49		09:20 (KLZ_WT08)
	21:38	3	07:22 (KLZ_WT21)	20:40	11	07:29 (SAM_WT07)	19:30	11	08:17 (CBR_WT01)	17:27	84	16:02 (KLZ_WT15)	16:44	104	15:56 (KLZ_WT15)	16:45	57	11:23 (KLZ_WT22)
30	06:06		07:15 (KLZ_WT21)	06:54		07:20 (SAM_WT07)	07:43		08:08 (CBR_WT01)	07:33		10:16 (KLZ_WT22)	08:25		08:56 (RHR_WT01)	08:50		09:20 (KLZ_WT08)
	21:37	11	07:26 (KLZ_WT21)	20:38	10	07:30 (SAM_WT07)	19:28	8	08:16 (CBR_WT01)	17:25	89	16:03 (KLZ_WT15)	16:43	99	15:55 (KLZ_WT15)	16:46	59	11:24 (KLZ_WT22)
31	06:08		07:13 (KLZ_WT21)	06:56		07:21 (SAM_WT07)				07:35		10:15 (KLZ_WT22)				08:50		09:20 (KLZ_WT08)
	21:35	16	07:29 (KLZ_WT21)	20:35	8	07:29 (SAM_WT07)				17:23	94	16:04 (KLZ_WT15)				16:47	61	11:25 (KLZ_WT22)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		30			789			111			688			3279			1918	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,65			0,65			0,60			0,65			0,63			0,58	
Total reduction		0,28			0,30			0,25			0,23			0,17			0,13	
Total, real		9			235			28			159			542			247	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (MXS_WT01)	08:24		08:57 (KLZ_WT10)	07:32		07:55 (CBR_WT01)	07:23		07:46 (SAM_WT11)	06:20		07:01 (KLZ_WT23)	05:36		
	16:48	55	13:52 (KLZ_WT22)	17:35	38	16:59 (KLZ_WT15)	18:25	13	08:08 (CBR_WT01)	20:17	5	07:51 (SAM_WT11)	21:06	68	08:09 (KLZ_WT21)	21:51		
2	08:50		09:20 (MXS_WT01)	08:23		08:58 (KLZ_WT10)	07:30		07:53 (CBR_WT01)	07:21		07:43 (SAM_WT07)	06:18		07:01 (KLZ_WT23)	05:36		
	16:49	55	13:52 (KLZ_WT22)	17:36	35	16:58 (KLZ_WT15)	18:27	16	08:09 (CBR_WT01)	20:19	6	07:49 (SAM_WT11)	21:08	67	08:08 (KLZ_WT21)	21:52		
3	08:49		09:20 (MXS_WT01)	08:21		08:59 (KLZ_WT10)	07:28		07:51 (CBR_WT01)	07:19		07:41 (SAM_WT07)	06:16		07:02 (KLZ_WT23)	05:35		
	16:50	55	13:53 (KLZ_WT22)	17:38	32	16:58 (KLZ_WT15)	18:28	18	08:09 (CBR_WT01)	20:20	6	07:47 (SAM_WT07)	21:10	66	08:08 (KLZ_WT21)	21:53		
4	08:49		09:19 (MXS_WT01)	08:19		16:34 (KLZ_WT15)	07:26		07:51 (CBR_WT01)	07:17		07:39 (SAM_WT07)	06:15		07:02 (KLZ_WT23)	05:34		
	16:51	54	13:52 (KLZ_WT22)	17:40	24	16:58 (KLZ_WT15)	18:30	18	08:09 (CBR_WT01)	20:22	9	07:48 (SAM_WT07)	21:11	64	08:06 (KLZ_WT21)	21:54		
5	08:49		09:20 (MXS_WT01)	08:18		16:34 (KLZ_WT15)	07:24		07:51 (CBR_WT01)	07:14		07:37 (SAM_WT07)	06:13		07:02 (KLZ_WT23)	05:34		
	16:53	53	13:53 (KLZ_WT22)	17:42	24	16:58 (KLZ_WT15)	18:32	16	08:07 (CBR_WT01)	20:24	11	07:48 (SAM_WT07)	21:13	62	08:05 (KLZ_WT21)	21:55		
6	08:49		09:20 (MXS_WT01)	08:16		16:35 (KLZ_WT15)	07:21		07:51 (CBR_WT01)	07:12		07:34 (SAM_WT07)	06:11		07:03 (KLZ_WT23)	05:33		
	16:54	51	13:52 (KLZ_WT22)	17:44	22	16:57 (KLZ_WT15)	18:33	16	08:07 (CBR_WT01)	20:25	13	07:47 (SAM_WT07)	21:14	60	08:05 (KLZ_WT21)	21:56		
7	08:48		09:23 (MXS_WT01)	08:15		16:36 (KLZ_WT15)	07:19		07:52 (CBR_WT01)	07:10		07:32 (SAM_WT07)	06:09		07:04 (KLZ_WT23)	05:32		
	16:55	46	13:53 (KLZ_WT22)	17:45	20	16:56 (KLZ_WT15)	18:35	13	08:05 (CBR_WT01)	20:27	18	07:54 (KLZ_WT21)	21:16	54	08:03 (KLZ_WT21)	21:56		
8	08:48		13:08 (KLZ_WT22)	08:13		16:38 (KLZ_WT15)	07:17		07:40 (SAM_WT05)	07:08		07:32 (SAM_WT07)	06:08		07:05 (KLZ_WT23)	05:32		
	16:56	45	13:53 (KLZ_WT22)	17:47	18	16:56 (KLZ_WT15)	18:37	12	08:04 (CBR_WT01)	20:29	29	08:01 (KLZ_WT21)	21:17	49	08:01 (KLZ_WT21)	21:57		
9	08:48		13:09 (KLZ_WT22)	08:11		16:40 (KLZ_WT15)	07:15		07:38 (SAM_WT05)	07:06		07:33 (SAM_WT07)	06:06		07:07 (KLZ_WT23)	05:31		
	16:58	44	13:53 (KLZ_WT22)	17:49	14	16:54 (KLZ_WT15)	18:39	5	07:43 (SAM_WT05)	20:30	31	08:04 (KLZ_WT21)	21:19	43	08:00 (KLZ_WT21)	21:58		
10	08:47		13:10 (KLZ_WT22)	08:09		16:42 (KLZ_WT15)	07:13		07:35 (SAM_WT05)	07:03		07:34 (SAM_WT07)	06:04		07:09 (KLZ_WT23)	05:31		
	16:59	43	13:53 (KLZ_WT22)	17:51	9	16:51 (KLZ_WT15)	18:40	6	07:41 (SAM_WT05)	20:32	32	08:06 (KLZ_WT21)	21:21	35	07:58 (KLZ_WT21)	21:59		
11	08:46		13:11 (KLZ_WT22)	08:08		08:32 (KLZ_WT11)	07:11		07:33 (SAM_WT05)	07:01		07:36 (SAM_WT07)	06:03		07:33 (KLZ_WT21)	05:31		
	17:00	41	13:52 (KLZ_WT22)	17:53	1	08:33 (KLZ_WT11)	18:42	8	07:41 (SAM_WT05)	20:34	32	08:08 (KLZ_WT21)	21:22	24	07:57 (KLZ_WT21)	22:00		
12	08:46		13:12 (KLZ_WT22)	08:06		08:30 (KLZ_WT11)	07:08		07:31 (SAM_WT05)	06:59		07:33 (KLZ_WT21)	06:01		07:34 (KLZ_WT21)	05:30		
	17:02	41	13:53 (KLZ_WT22)	17:55	4	08:34 (KLZ_WT11)	18:44	8	07:39 (SAM_WT05)	20:35	35	08:08 (KLZ_WT21)	21:24	21	07:55 (KLZ_WT21)	22:00		
13	08:45		13:13 (KLZ_WT22)	08:04		08:28 (KLZ_WT11)	07:06			06:57		07:32 (KLZ_WT21)	05:59		07:37 (KLZ_WT21)	05:30		
	17:03	40	13:53 (KLZ_WT22)	17:56	6	08:34 (KLZ_WT11)	18:45			20:37	37	08:09 (KLZ_WT21)	21:25	16	07:53 (KLZ_WT21)	22:01		
14	08:44		13:14 (KLZ_WT22)	08:02		08:26 (KLZ_WT11)	07:04			06:55		07:30 (KLZ_WT21)	05:58		07:41 (KLZ_WT21)	05:30		
	17:05	38	13:52 (KLZ_WT22)	17:58	8	08:34 (KLZ_WT11)	18:47			20:38	40	08:10 (KLZ_WT21)	21:27	7	07:48 (KLZ_WT21)	22:02		
15	08:44		13:16 (KLZ_WT22)	08:00		08:24 (KLZ_WT11)	07:02			06:52		07:29 (KLZ_WT21)	05:56			05:30		
	17:06	35	13:51 (KLZ_WT22)	18:00	10	08:34 (KLZ_WT11)	18:49			20:40	42	08:11 (KLZ_WT21)	21:28			22:02		
16	08:43		13:17 (KLZ_WT22)	07:58		08:23 (KLZ_WT11)	06:59			06:50		07:28 (KLZ_WT21)	05:55			05:30		
	17:08	34	13:51 (KLZ_WT22)	18:02	10	08:33 (KLZ_WT11)	18:50			20:42	44	08:12 (KLZ_WT21)	21:30			22:03		
17	08:42		13:19 (KLZ_WT22)	07:57		08:25 (KLZ_WT11)	06:57			06:48		07:27 (KLZ_WT21)	05:54			05:30		
	17:09	31	13:50 (KLZ_WT22)	18:04	6	08:31 (KLZ_WT11)	18:52			20:43	45	08:12 (KLZ_WT21)	21:31			22:03		
18	08:41		13:20 (KLZ_WT22)	07:55			06:55			06:46		07:26 (KLZ_WT21)	05:52			05:29		
	17:11	29	13:49 (KLZ_WT22)	18:05			18:54			20:45	47	08:13 (KLZ_WT21)	21:33			22:03		
19	08:40		13:23 (KLZ_WT22)	07:53			06:53			06:44		07:26 (KLZ_WT21)	05:51			05:30		
	17:12	25	13:48 (KLZ_WT22)	18:07			18:55			20:47	47	08:13 (KLZ_WT21)	21:34			22:04		
20	08:39		13:25 (KLZ_WT22)	07:51			06:50			06:42		07:12 (KLZ_WT23)	05:49			05:30		
	17:14	25	16:43 (KLZ_WT15)	18:09			18:57			20:48	57	08:13 (KLZ_WT21)	21:35			22:04		
21	08:38		09:05 (MVN_WT01)	07:49			06:48			06:40		07:03 (SAM_WT06)	05:48			05:30		
	17:16	24	16:44 (KLZ_WT15)	18:11			18:59			20:50	65	08:13 (KLZ_WT21)	21:37			22:04		
22	08:37		09:04 (MVN_WT01)	07:47			06:46			06:38		07:01 (SAM_WT06)	05:47			05:30		
	17:17	14	16:46 (KLZ_WT15)	18:12			19:00			20:52	71	08:13 (KLZ_WT21)	21:38			22:05		
23	08:36		09:03 (KLZ_WT10)	07:45			06:44		07:06 (SAM_WT04)	06:36		06:59 (SAM_WT06)	05:46			05:30		
	17:19	17	16:48 (KLZ_WT15)	18:14			19:02	2	07:08 (SAM_WT04)	20:53	74	08:13 (KLZ_WT21)	21:40			22:05		
24	08:35		09:02 (KLZ_WT10)	07:43			06:41		07:04 (SAM_WT04)	06:34		06:57 (SAM_WT06)	05:44			05:30		
	17:21	22	16:50 (KLZ_WT15)	18:16			19:04	3	07:07 (SAM_WT04)	20:55	75	08:12 (KLZ_WT21)	21:41			22:05		
25	08:34		09:00 (KLZ_WT10)	07:41			06:39		07:01 (SAM_WT04)	06:32		06:55 (SAM_WT06)	05:43			05:31		
	17:22	25	16:51 (KLZ_WT15)	18:18			19:05	4	07:05 (SAM_WT04)	20:57	77	08:12 (KLZ_WT21)	21:42			22:05		
26	08:32		08:59 (KLZ_WT10)	07:38		08:02 (CBR_WT01)	06:37			06:30		06:53 (SAM_WT06)	05:42			05:31		
	17:24	30	16:54 (KLZ_WT15)	18:20	2	08:04 (CBR_WT01)	19:07			20:58	79	08:12 (KLZ_WT21)	21:43			22:05		
27	08:31		08:57 (KLZ_WT10)	07:36		08:00 (CBR_WT01)	06:35			06:28		06:52 (SAM_WT06)	05:41			05:32		
	17:26	34	16:55 (KLZ_WT15)	18:21	7	08:07 (CBR_WT01)	19:09			21:00	79	08:11 (KLZ_WT21)	21:45			22:05		
28	08:30		08:56 (KLZ_WT10)	07:34		07:57 (CBR_WT01)	06:32			06:26		06:53 (SAM_WT06)	05:40			05:32		
	17:28	38	16:57 (KLZ_WT15)	18:23	10	08:07 (CBR_WT01)	19:10			21:01	77	08:10 (KLZ_WT21)	21:46			22:05		
29	08:28		08:55 (KLZ_WT10)				07:30		07:52 (SAM_WT11)	06:24		06:55 (SAM_WT06)	05:39			05:33		
	17:29	39	16:57 (KLZ_WT15)				20:12	1	07:53 (SAM_WT11)	21:03	76	08:11 (KLZ_WT21)	21:47			22:05		
30	08:27		08:55 (KLZ_WT10)				07:28		07:50 (SAM_WT11)	06:22		07:01 (KLZ_WT23)	05:38			05:33		
	17:31	40	16:58 (KLZ_WT15)				20:14	3	07:53 (SAM_WT11)	21:05	69	08:10 (KLZ_WT21)	21:48			22:04		
31	08:26		08:56 (KLZ_WT10)				07:26		07:48 (SAM_WT11)				05:37					
	17:33	39	16:58 (KLZ_WT15)				20:15	4	07:52 (SAM_WT11)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1162			300			166			1328			636				
Sun reduction		0,25			0,30			0,38			0,46			0,46				
Oper. time red.		0,98			0,98			0,98			0,98			0,98				
Wind dir. red.		0,68			0,66			0,56			0,64			0,64				
Total reduction		0,16			0,19			0,21			0,29			0,29				
Total, real		191			58			35			384			181				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 3 - Pachtgoederen 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		07:44 (KLZ_WT21)	06:57		07:35 (KLZ_WT21)	07:44		08:11 (SAM_WT05)	07:37		16:11 (KLZ_WT15)	08:26		12:53 (KLZ_WT22)
	22:04			21:34	22	08:06 (KLZ_WT21)	20:33	32	08:07 (KLZ_WT21)	19:25	6	08:17 (SAM_WT05)	17:21	11	16:22 (KLZ_WT15)	16:42	41	13:34 (KLZ_WT22)
2	05:34			06:11		07:23 (KLZ_WT23)	06:59		07:32 (SAM_WT07)	07:46		08:11 (SAM_WT05)	07:38		16:09 (KLZ_WT15)	08:27		12:53 (KLZ_WT22)
	22:04			21:32	27	08:08 (KLZ_WT21)	20:31	32	08:04 (KLZ_WT21)	19:23	8	08:19 (SAM_WT05)	17:19	15	16:24 (KLZ_WT15)	16:41	43	13:36 (KLZ_WT22)
3	05:35			06:12		07:18 (KLZ_WT23)	07:00		07:31 (SAM_WT07)	07:48		08:12 (SAM_WT05)	07:40		16:08 (KLZ_WT15)	08:29		12:52 (KLZ_WT22)
	22:04			21:30	40	08:10 (KLZ_WT21)	20:29	31	08:02 (KLZ_WT21)	19:21	7	08:19 (SAM_WT05)	17:17	18	16:26 (KLZ_WT15)	16:41	44	13:36 (KLZ_WT22)
4	05:36			06:14		07:16 (KLZ_WT23)	07:02		07:29 (SAM_WT07)	07:49		08:14 (SAM_WT05)	07:42		16:05 (KLZ_WT15)	08:30		12:53 (KLZ_WT22)
	22:03			21:29	45	08:10 (KLZ_WT21)	20:27	29	07:58 (KLZ_WT21)	19:19	6	08:20 (SAM_WT05)	17:16	21	16:26 (KLZ_WT15)	16:40	45	13:38 (KLZ_WT22)
5	05:37			06:15		07:15 (KLZ_WT23)	07:03		07:29 (SAM_WT07)	07:51		08:16 (SAM_WT05)	07:44		16:05 (KLZ_WT15)	08:31		12:53 (KLZ_WT22)
	22:03			21:27	51	08:12 (KLZ_WT21)	20:24	19	07:52 (KLZ_WT21)	19:16	11	08:39 (CBR_WT01)	17:14	22	16:27 (KLZ_WT15)	16:40	45	13:38 (KLZ_WT22)
6	05:38			06:17		07:13 (KLZ_WT23)	07:05		07:30 (SAM_WT07)	07:53		08:17 (SAM_WT05)	07:45		16:04 (KLZ_WT15)	08:33		09:06 (MXS_WT01)
	22:02			21:25	56	08:13 (KLZ_WT21)	20:22	13	07:43 (SAM_WT07)	19:14	13	08:41 (CBR_WT01)	17:12	24	16:28 (KLZ_WT15)	16:39	52	13:39 (KLZ_WT22)
7	05:38			06:18		07:13 (KLZ_WT23)	07:07		07:32 (SAM_WT07)	07:54		08:28 (CBR_WT01)	07:47		16:04 (KLZ_WT15)	08:34		09:07 (MXS_WT01)
	22:02			21:24	59	08:14 (KLZ_WT21)	20:20	11	07:43 (SAM_WT07)	19:12	14	08:42 (CBR_WT01)	17:11	24	16:28 (KLZ_WT15)	16:39	53	13:40 (KLZ_WT22)
8	05:39			06:20		07:11 (KLZ_WT23)	07:08		07:33 (SAM_WT07)	07:56		08:27 (CBR_WT01)	07:49		08:29 (KLZ_WT10)	08:35		09:07 (MXS_WT01)
	22:01			21:22	64	08:15 (KLZ_WT21)	20:18	9	07:42 (SAM_WT07)	19:10	16	08:43 (CBR_WT01)	17:09	33	16:29 (KLZ_WT15)	16:39	54	13:40 (KLZ_WT22)
9	05:40			06:21		07:11 (KLZ_WT23)	07:10		07:35 (SAM_WT07)	07:57		08:25 (CBR_WT01)	07:50		08:28 (KLZ_WT10)	08:36		09:08 (MXS_WT01)
	22:00			21:20	65	08:16 (KLZ_WT21)	20:15	7	07:42 (SAM_WT07)	19:08	18	08:43 (CBR_WT01)	17:07	36	16:29 (KLZ_WT15)	16:39	55	13:41 (KLZ_WT22)
10	05:41			06:23		07:10 (KLZ_WT23)	07:11		07:36 (SAM_WT07)	07:59		08:25 (CBR_WT01)	07:52		08:28 (KLZ_WT10)	08:37		09:09 (MXS_WT01)
	22:00			21:18	66	08:16 (KLZ_WT21)	20:13	6	07:42 (SAM_WT11)	19:05	18	08:43 (CBR_WT01)	17:06	38	16:30 (KLZ_WT15)	16:38	55	13:41 (KLZ_WT22)
11	05:42			06:24		07:09 (KLZ_WT23)	07:13		07:38 (SAM_WT11)	08:01		08:26 (CBR_WT01)	07:54		08:27 (KLZ_WT10)	08:38		09:10 (MXS_WT01)
	21:59			21:16	68	08:17 (KLZ_WT21)	20:11	6	07:44 (SAM_WT11)	19:03	17	08:43 (CBR_WT01)	17:04	40	16:30 (KLZ_WT15)	16:38	55	13:42 (KLZ_WT22)
12	05:43			06:26		07:09 (KLZ_WT23)	07:14		07:39 (SAM_WT11)	08:02		08:28 (CBR_WT01)	07:56		08:26 (KLZ_WT10)	08:39		09:11 (MXS_WT01)
	21:58			21:14	69	08:18 (KLZ_WT21)	20:09	5	07:44 (SAM_WT11)	19:01	14	08:42 (CBR_WT01)	17:03	40	16:29 (KLZ_WT15)	16:38	55	13:42 (KLZ_WT22)
13	05:44			06:27		07:09 (KLZ_WT23)	07:16		07:41 (SAM_WT11)	08:04		08:29 (CBR_WT01)	07:57		08:27 (KLZ_WT10)	08:40		09:12 (MXS_WT01)
	21:57			21:13	68	08:17 (KLZ_WT21)	20:06	3	07:44 (SAM_WT11)	18:59	12	08:41 (CBR_WT01)	17:01	39	16:29 (KLZ_WT15)	16:38	55	13:43 (KLZ_WT22)
14	05:45			06:29		07:02 (SAM_WT06)	07:18		07:42 (SAM_WT11)	08:06		08:31 (CBR_WT01)	07:59		08:28 (KLZ_WT10)	08:41		09:13 (MXS_WT01)
	21:56			21:11	76	08:18 (KLZ_WT21)	20:04	1	07:43 (SAM_WT11)	18:57	9	08:40 (CBR_WT01)	17:00	38	16:29 (KLZ_WT15)	16:38	55	13:44 (KLZ_WT22)
15	05:46			06:30		07:00 (SAM_WT06)	07:19			08:07		08:33 (CBR_WT01)	08:01		08:30 (KLZ_WT10)	08:42		09:14 (MXS_WT01)
	21:56			21:09	78	08:18 (KLZ_WT21)	20:02			18:55	5	08:38 (CBR_WT01)	16:59	34	16:28 (KLZ_WT15)	16:38	54	13:44 (KLZ_WT22)
16	05:48			06:32		07:00 (SAM_WT06)	07:21			08:09			08:02		08:32 (KLZ_WT10)	08:43		09:15 (MXS_WT01)
	21:55			21:07	79	08:19 (KLZ_WT21)	20:00			18:53			16:57	30	16:27 (KLZ_WT15)	16:38	55	13:45 (KLZ_WT22)
17	05:49			06:34		07:00 (SAM_WT06)	07:22			08:11			08:04		08:34 (KLZ_WT10)	08:44		09:16 (MXS_WT01)
	21:54			21:05	78	08:18 (KLZ_WT21)	19:57			18:50			16:56	25	16:25 (KLZ_WT15)	16:38	54	13:46 (KLZ_WT22)
18	05:50			06:35		07:02 (SAM_WT06)	07:24		07:49 (SAM_WT04)	08:12			08:06		08:36 (KLZ_WT10)	08:45		09:16 (MXS_WT01)
	21:52			21:03	77	08:19 (KLZ_WT21)	19:55	4	07:53 (SAM_WT04)	18:48			16:55	22	16:24 (KLZ_WT15)	16:39	55	13:46 (KLZ_WT22)
19	05:51			06:37		07:03 (SAM_WT06)	07:25		07:50 (SAM_WT04)	08:14			08:07		08:37 (KLZ_WT10)	08:45		09:17 (MXS_WT01)
	21:51			21:01	75	08:18 (KLZ_WT21)	19:53	4	07:54 (SAM_WT04)	18:46			16:53	17	16:22 (KLZ_WT15)	16:39	54	13:46 (KLZ_WT22)
20	05:53			06:38		07:05 (SAM_WT06)	07:27		07:52 (SAM_WT04)	08:16			08:09		08:39 (MVN_WT01)	08:46		09:18 (MXS_WT01)
	21:50			20:59	73	08:18 (KLZ_WT21)	19:50	3	07:55 (SAM_WT04)	18:44			16:52	14	16:21 (KLZ_WT15)	16:39	54	13:47 (KLZ_WT22)
21	05:54			06:40		07:06 (SAM_WT06)	07:29		07:53 (SAM_WT04)	08:18			08:11		08:41 (MVN_WT01)	08:47		09:18 (MXS_WT01)
	21:49			20:57	71	08:18 (KLZ_WT21)	19:48	1	07:54 (SAM_WT04)	18:42			16:51	24	16:20 (KLZ_WT15)	16:40	54	13:47 (KLZ_WT22)
22	05:55			06:41		07:08 (SAM_WT06)	07:30			08:19			08:12		13:01 (KLZ_WT22)	08:47		09:19 (MXS_WT01)
	21:48			20:55	65	08:18 (KLZ_WT21)	19:46			18:40			16:50	25	16:19 (KLZ_WT15)	16:40	54	13:48 (KLZ_WT22)
23	05:56			06:43		07:16 (KLZ_WT23)	07:32			08:21			08:14		12:59 (KLZ_WT22)	08:48		09:19 (MXS_WT01)
	21:47			20:53	57	08:17 (KLZ_WT21)	19:44			18:38			16:49	25	13:24 (KLZ_WT22)	16:41	54	13:48 (KLZ_WT22)
24	05:58			06:45		07:30 (KLZ_WT21)	07:33			08:23		08:57 (KLZ_WT11)	08:16		12:58 (KLZ_WT22)	08:48		09:19 (MXS_WT01)
	21:45			20:50	47	08:17 (KLZ_WT21)	19:41			18:36	3	09:00 (KLZ_WT11)	16:48	28	13:26 (KLZ_WT22)	16:41	54	13:48 (KLZ_WT22)
25	05:59			06:46		07:29 (KLZ_WT21)	07:35			07:24		07:55 (KLZ_WT11)	08:17		12:57 (KLZ_WT22)	08:48		09:20 (MXS_WT01)
	21:44			20:48	46	08:15 (KLZ_WT21)	19:39			17:34	7	08:02 (KLZ_WT11)	16:47	31	13:28 (KLZ_WT22)	16:42	54	13:49 (KLZ_WT22)
26	06:00			06:48		07:30 (KLZ_WT21)	07:36			07:26		07:54 (KLZ_WT11)	08:19		12:55 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:43			20:46	45	08:15 (KLZ_WT21)	19:37			17:32	10	08:04 (KLZ_WT11)	16:46	34	13:29 (KLZ_WT22)	16:43	54	13:50 (KLZ_WT22)
27	06:02			06:49		07:30 (KLZ_WT21)	07:38			07:28		07:54 (KLZ_WT11)	08:20		12:55 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:41			20:44	44	08:14 (KLZ_WT21)	19:34			17:30	9	08:03 (KLZ_WT11)	16:45	35	13:30 (KLZ_WT22)	16:43	55	13:50 (KLZ_WT22)
28	06:03			06:51		07:31 (KLZ_WT21)	07:40			07:30		07:56 (KLZ_WT11)	08:22		12:54 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:40			20:42	42	08:13 (KLZ_WT21)	19:32			17:28	8	08:04 (KLZ_WT11)	16:44	38	13:32 (KLZ_WT22)	16:44	55	13:50 (KLZ_WT22)
29	06:05			06:52		07:31 (KLZ_WT21)	07:41			07:31		07:58 (KLZ_WT11)	08:23		12:53 (KLZ_WT22)	08:49		09:20 (MXS_WT01)
	21:38			20:40	40	08:11 (KLZ_WT21)	19:30			17:27	6	08:04 (KLZ_WT11)	16:44	40	13:33 (KLZ_WT22)	16:45	54	13:50 (KLZ_WT22)
30	06:06		07:49 (KLZ_WT21)	06:54		07:33 (KLZ_WT21)	07:43			07:33		08:00 (KLZ_WT11)	08:25		12:54 (KLZ_WT22)	08:50		09:20 (MXS_WT01)
	21:37	11	08:00 (KLZ_WT21)	20:38	37	08:10 (KLZ_WT21)	19:28			17:25	3	08:03 (KLZ_WT11)	16:43	40	13:34 (KLZ_WT22)	16:46	54	13:51 (KLZ_WT22)
31	06:08		07:47 (KLZ_WT21)	06:56		07:33 (KLZ_WT21)				07:35						08:50		09:20 (MXS_WT01)
	21:35	17	08:04 (KLZ_WT21)	20:35	35	08:08 (KLZ_WT21)				17:23						16:47	55	13:51 (KLZ_WT22)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		28			1765			216			220			861			1630	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,64			0,63			0,55			0,68			0,68	
Total reduction		0,28			0,29			0,27			0,20			0,18			0,15	
Total, real		8			515			58			43			153			243	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		14:44 (KLZ_WT22)	08:24		08:50 (CBR_WT01)	07:32		09:04 (KLZ_WT21)	07:23		10:09 (KLZ_WT21)	06:20			05:36		20:33 (KLZ_WT13)
	16:48	23	15:07 (KLZ_WT22)	17:35	26	16:57 (KLZ_WT15)	18:25	90	10:34 (KLZ_WT21)	20:17	48	10:57 (KLZ_WT21)	21:06			21:51	23	20:56 (KLZ_WT13)
2	08:50		14:45 (KLZ_WT22)	08:23		08:48 (CBR_WT01)	07:30		09:03 (KLZ_WT21)	07:21		08:05 (KLZ_WT23)	06:18			05:36		20:35 (KLZ_WT13)
	16:49	22	15:07 (KLZ_WT22)	17:36	24	16:55 (KLZ_WT15)	18:26	91	10:34 (KLZ_WT21)	20:19	54	10:54 (KLZ_WT21)	21:08			21:52	21	20:56 (KLZ_WT13)
3	08:49		14:46 (KLZ_WT22)	08:21		08:48 (CBR_WT01)	07:28		09:03 (KLZ_WT21)	07:19		08:02 (KLZ_WT23)	06:16			05:35		20:35 (KLZ_WT13)
	16:50	21	15:07 (KLZ_WT22)	17:38	20	09:08 (CBR_WT01)	18:28	91	10:34 (KLZ_WT21)	20:20	55	10:50 (KLZ_WT21)	21:09			21:53	21	20:56 (KLZ_WT13)
4	08:49		14:47 (KLZ_WT22)	08:19		08:48 (CBR_WT01)	07:26		09:03 (KLZ_WT21)	07:17		07:59 (KLZ_WT23)	06:15			05:34		20:35 (KLZ_WT13)
	16:51	19	15:06 (KLZ_WT22)	17:40	21	09:09 (CBR_WT01)	18:30	92	10:35 (KLZ_WT21)	20:22	53	10:46 (KLZ_WT21)	21:11			21:54	22	21:21 (EVE_WT01)
5	08:49		14:48 (KLZ_WT22)	08:18		08:48 (CBR_WT01)	07:24		09:01 (KLZ_WT21)	07:14		07:57 (KLZ_WT23)	06:13			05:34		20:37 (KLZ_WT13)
	16:53	19	15:07 (KLZ_WT22)	17:42	21	09:09 (CBR_WT01)	18:32	93	10:34 (KLZ_WT21)	20:24	45	10:40 (KLZ_WT21)	21:13			21:55	22	21:23 (EVE_WT01)
6	08:49		14:49 (KLZ_WT22)	08:16		08:47 (CBR_WT01)	07:21		09:01 (KLZ_WT21)	07:12		07:34 (SAM_WT08)	06:11		20:40 (KLZ_WT13)	05:33		20:37 (KLZ_WT13)
	16:54	17	15:06 (KLZ_WT22)	17:44	42	10:00 (KLZ_WT21)	18:33	93	10:34 (KLZ_WT21)	20:25	32	08:25 (KLZ_WT23)	21:14	5	20:45 (KLZ_WT13)	21:56	22	21:23 (EVE_WT01)
7	08:48		14:51 (KLZ_WT22)	08:15		08:47 (CBR_WT01)	07:19		09:01 (KLZ_WT21)	07:10		07:32 (SAM_WT08)	06:09		20:37 (KLZ_WT13)	05:32		20:38 (KLZ_WT13)
	16:55	15	15:06 (KLZ_WT22)	17:45	51	10:05 (KLZ_WT21)	18:35	93	10:34 (KLZ_WT21)	20:27	35	08:26 (KLZ_WT23)	21:16	10	20:47 (KLZ_WT13)	21:56	22	21:24 (EVE_WT01)
8	08:48		14:53 (KLZ_WT22)	08:13		08:49 (CBR_WT01)	07:17		09:01 (KLZ_WT21)	07:08		07:30 (SAM_WT08)	06:08		20:35 (KLZ_WT13)	05:32		20:38 (KLZ_WT13)
	16:56	11	15:04 (KLZ_WT22)	17:47	56	10:09 (KLZ_WT21)	18:37	93	10:34 (KLZ_WT21)	20:29	37	08:27 (KLZ_WT23)	21:17	13	20:48 (KLZ_WT13)	21:57	22	21:25 (EVE_WT01)
9	08:48		14:56 (KLZ_WT22)	08:11		08:49 (CBR_WT01)	07:15		07:38 (SAM_WT04)	07:05		07:51 (KLZ_WT23)	06:06		20:34 (KLZ_WT13)	05:31		20:40 (KLZ_WT13)
	16:58	7	15:03 (KLZ_WT22)	17:49	62	10:12 (KLZ_WT21)	18:39	94	10:34 (KLZ_WT21)	20:30	37	08:28 (KLZ_WT23)	21:19	16	20:50 (KLZ_WT13)	21:58	21	21:26 (EVE_WT01)
10	08:47			08:09		08:49 (CBR_WT01)	07:13		07:35 (SAM_WT04)	07:03		07:50 (KLZ_WT23)	06:04		20:32 (KLZ_WT13)	05:31		20:41 (KLZ_WT13)
	16:59			17:51	65	10:14 (KLZ_WT21)	18:40	96	10:32 (KLZ_WT21)	20:32	38	08:28 (KLZ_WT23)	21:21	19	20:51 (KLZ_WT13)	21:59	21	21:27 (EVE_WT01)
11	08:46			08:08		08:50 (CBR_WT01)	07:10		07:33 (SAM_WT04)	07:01		07:24 (SAM_WT06)	06:03		20:32 (KLZ_WT13)	05:31		20:42 (KLZ_WT13)
	17:00			17:53	68	10:16 (KLZ_WT21)	18:42	98	10:32 (KLZ_WT21)	20:34	44	08:28 (KLZ_WT23)	21:22	21	20:53 (KLZ_WT13)	22:00	21	21:28 (EVE_WT01)
12	08:46			08:06		08:51 (CBR_WT01)	07:08		07:31 (SAM_WT04)	06:59		07:21 (SAM_WT06)	06:01		20:31 (KLZ_WT13)	05:30		20:42 (KLZ_WT13)
	17:02			17:54	70	10:18 (KLZ_WT21)	18:44	99	10:32 (KLZ_WT21)	20:35	48	08:28 (KLZ_WT23)	21:24	23	20:54 (KLZ_WT13)	22:00	20	21:27 (EVE_WT01)
13	08:45			08:04		08:53 (CBR_WT01)	07:06		07:29 (SAM_WT04)	06:57		07:19 (SAM_WT06)	05:59		20:30 (KLZ_WT13)	05:30		20:43 (KLZ_WT13)
	17:03			17:56	69	10:20 (KLZ_WT21)	18:45	99	10:31 (KLZ_WT21)	20:37	52	08:28 (KLZ_WT23)	21:25	26	20:56 (KLZ_WT13)	22:01	19	21:28 (EVE_WT01)
14	08:44			08:02		09:19 (KLZ_WT21)	07:04		07:29 (SAM_WT04)	06:55		07:17 (SAM_WT06)	05:58		20:29 (KLZ_WT13)	05:30		20:45 (KLZ_WT13)
	17:05			17:58	63	10:22 (KLZ_WT21)	18:47	96	10:30 (KLZ_WT21)	20:38	55	08:28 (KLZ_WT23)	21:27	27	20:56 (KLZ_WT13)	22:02	17	21:29 (EVE_WT01)
15	08:44			08:00		09:18 (KLZ_WT21)	07:02		08:59 (KLZ_WT21)	06:52		07:15 (SAM_WT06)	05:56		20:29 (KLZ_WT13)	05:30		20:46 (KLZ_WT13)
	17:06			18:00	65	10:23 (KLZ_WT21)	18:49	90	10:29 (KLZ_WT21)	20:40	61	20:14 (EVE_WT02)	21:28	28	20:57 (KLZ_WT13)	22:02	15	21:29 (EVE_WT01)
16	08:43			07:58		09:16 (KLZ_WT21)	06:59		07:22 (SAM_WT11)	06:50		07:13 (SAM_WT06)	05:55		20:29 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:08			18:02	68	10:24 (KLZ_WT21)	18:50	91	10:29 (KLZ_WT21)	20:42	66	20:15 (EVE_WT02)	21:30	29	20:58 (KLZ_WT13)	22:03	12	21:30 (EVE_WT01)
17	08:42			07:57		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT07)	06:48		07:13 (SAM_WT06)	05:53		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:09			18:03	73	10:26 (KLZ_WT21)	18:52	94	10:27 (KLZ_WT21)	20:43	70	20:17 (EVE_WT02)	21:31	29	20:58 (KLZ_WT13)	22:03	12	21:30 (EVE_WT01)
18	08:41			07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT07)	06:46		07:13 (SAM_WT06)	05:52		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:11			18:05	78	10:27 (KLZ_WT21)	18:54	97	10:26 (KLZ_WT21)	20:45	71	20:19 (EVE_WT02)	21:33	29	20:58 (KLZ_WT13)	22:03	13	21:31 (EVE_WT01)
19	08:40			07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT07)	06:44		07:13 (SAM_WT06)	05:51		20:29 (KLZ_WT13)	05:29		21:18 (EVE_WT01)
	17:12			18:07	83	10:28 (KLZ_WT21)	18:55	99	10:25 (KLZ_WT21)	20:47	70	20:20 (EVE_WT02)	21:34	29	20:58 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
20	08:39			07:51		08:14 (SAM_WT05)	06:50		07:13 (SAM_WT07)	06:42		07:14 (SAM_WT06)	05:49		20:29 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:14			18:09	88	10:29 (KLZ_WT21)	18:57	100	10:24 (KLZ_WT21)	20:48	71	20:22 (EVE_WT02)	21:35	30	20:59 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
21	08:38		16:43 (KLZ_WT15)	07:49		08:12 (SAM_WT05)	06:48		07:10 (SAM_WT07)	06:40		07:15 (SAM_WT06)	05:48		20:28 (KLZ_WT13)	05:30		21:18 (EVE_WT01)
	17:16	1	16:44 (KLZ_WT15)	18:11	91	10:30 (KLZ_WT21)	18:59	101	10:22 (KLZ_WT21)	20:50	70	20:23 (EVE_WT02)	21:37	30	20:58 (KLZ_WT13)	22:04	13	21:31 (EVE_WT01)
22	08:37		16:43 (KLZ_WT15)	07:47		08:10 (SAM_WT05)	06:46		07:09 (SAM_WT07)	06:38		07:17 (SAM_WT06)	05:47		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:17	3	16:46 (KLZ_WT15)	18:12	95	10:31 (KLZ_WT21)	19:00	99	10:20 (KLZ_WT21)	20:52	65	20:25 (EVE_WT02)	21:38	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
23	08:36		16:43 (KLZ_WT15)	07:45		08:10 (SAM_WT05)	06:44		07:09 (SAM_WT07)	06:36		07:48 (KLZ_WT23)	05:46		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:19	5	16:48 (KLZ_WT15)	18:14	94	10:31 (KLZ_WT21)	19:02	98	10:19 (KLZ_WT21)	20:53	56	20:25 (EVE_WT02)	21:40	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
24	08:35		16:43 (KLZ_WT15)	07:43		08:12 (SAM_WT05)	06:41		07:09 (SAM_WT07)	06:34		07:49 (KLZ_WT23)	05:44		20:29 (KLZ_WT13)	05:30		21:19 (EVE_WT01)
	17:21	7	16:50 (KLZ_WT15)	18:16	92	10:32 (KLZ_WT21)	19:04	96	10:18 (KLZ_WT21)	20:55	53	20:24 (EVE_WT02)	21:41	29	20:58 (KLZ_WT13)	22:05	13	21:32 (EVE_WT01)
25	08:34		16:43 (KLZ_WT15)	07:41		09:07 (KLZ_WT21)	06:39		07:08 (SAM_WT07)	06:32		07:50 (KLZ_WT23)	05:43		20:30 (KLZ_WT13)	05:31		21:20 (EVE_WT01)
	17:22	8	16:51 (KLZ_WT15)	18:18	86	10:33 (KLZ_WT21)	19:05	92	10:15 (KLZ_WT21)	20:56	50	20:24 (EVE_WT02)	21:42	28	20:58 (KLZ_WT13)	22:05	13	21:33 (EVE_WT01)
26	08:32		16:43 (KLZ_WT15)	07:38		09:06 (KLZ_WT21)	06:37		07:09 (SAM_WT07)	06:30		07:51 (KLZ_WT23)	05:42		20:30 (KLZ_WT13)	05:31		21:20 (EVE_WT01)
	17:24	11	16:54 (KLZ_WT15)	18:19	87	10:33 (KLZ_WT21)	19:07	87	10:13 (KLZ_WT21)	20:58	46	20:23 (EVE_WT02)	21:43	28	20:58 (KLZ_WT13)	22:05	12	21:32 (EVE_WT01)
27	08:31		16:43 (KLZ_WT15)	07:36		09:06 (KLZ_WT21)	06:35		07:10 (SAM_WT07)	06:28		07:52 (KLZ_WT23)	05:41		20:31 (KLZ_WT13)	05:32		20:49 (KLZ_WT13)
	17:26	12	16:55 (KLZ_WT15)	18:21	88	10:34 (KLZ_WT21)	19:09	82	10:11 (KLZ_WT21)	21:00	41	20:22 (EVE_WT02)	21:45	26	20:57 (KLZ_WT13)	22:05	14	21:32 (EVE_WT01)
28	08:30		16:44 (KLZ_WT15)	07:34		09:04 (KLZ_WT21)	06:32		07:11 (SAM_WT07)	06:26		07:54 (KLZ_WT23)	05:40		20:31 (KLZ_WT13)	05:32		20:48 (KLZ_WT13)
	17:28	13	16:57 (KLZ_WT15)	18:23	89	10:33 (KLZ_WT21)	19:10	75	10:08 (KLZ_WT21)	21:01	34	20:20 (EVE_WT02)	21:46	26	20:57 (KLZ_WT13)	22:05	16	21:32 (EVE_WT01)
29	08:28		08:54 (CBR_WT01)				07:30		08:15 (SAM_WT07)	06:24		07:58 (KLZ_WT23)	05:39		20:32 (KLZ_WT13)	05:33		20:47 (KLZ_WT13)
	17:29	23	16:59 (KLZ_WT15)				20:12	63	11:06 (KLZ_WT21)	21:03	25	20:20 (EVE_WT02)	21:47	26	20:58 (KLZ_WT13)	22:05	18	21:32 (EVE_WT01)
30	08:27		08:53 (CBR_WT01)				07:28		10:07 (KLZ_WT21)	06:22		20:08 (EVE_WT02)	05:38		20:33 (KLZ_WT13)	05:33		20:47 (KLZ_WT13)
	17:31	25	16:59 (KLZ_WT15)				20:14	56	11:03 (KLZ_WT21)	21:05	9	20:17 (EVE_WT02)	21:48	24	20:57 (KLZ_WT13)	22:04	19	21:32 (EVE_WT01)
31	08:26		08:51 (CBR_WT01)				07:26		10:09 (KLZ_WT21)				05:37		20:33 (KLZ_WT13)			
	17:33	26	16:58 (KLZ_WT15)				20:15	52	11:01 (KLZ_WT21)				21:49	24	20:57 (KLZ_WT13)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		288			1835			2790			1491			633			516	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,55			0,55			0,61			0,56			0,55	
Total reduction		0,17			0,16			0,20			0,27			0,25			0,24	
Total, real		49			294			567			408			157			123	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Project:
WP Kluizendok v1

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 4 - James Cookstraat 10, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		20:47 (KLZ_WT13)	06:09		20:41 (KLZ_WT13)	06:57		07:23 (SAM_WT06)	07:44		08:09 (SAM_WT04)	07:37		08:19 (CBR_WT01)	08:26		
	22:04	20	21:32 (EVE_WT01)	21:34	23	21:04 (KLZ_WT13)	20:33	44	08:27 (KLZ_WT23)	19:25	99	11:10 (KLZ_WT21)	17:21	65	09:44 (KLZ_WT21)	16:42		
2	05:34		20:45 (KLZ_WT13)	06:11		20:43 (KLZ_WT13)	06:59		07:48 (KLZ_WT23)	07:46		08:11 (SAM_WT04)	07:38		08:18 (CBR_WT01)	08:27		
	22:04	21	21:31 (EVE_WT01)	21:32	20	21:03 (KLZ_WT13)	20:31	38	08:26 (KLZ_WT23)	19:23	98	11:11 (KLZ_WT21)	17:19	62	09:41 (KLZ_WT21)	16:41		
3	05:35		20:45 (KLZ_WT13)	06:12		20:43 (KLZ_WT13)	07:00		07:49 (KLZ_WT23)	07:48		08:12 (SAM_WT04)	07:40		08:17 (CBR_WT01)	08:29		14:39 (KLZ_WT22)
	22:04	21	21:31 (EVE_WT01)	21:30	18	21:01 (KLZ_WT13)	20:29	37	08:26 (KLZ_WT23)	19:21	97	11:10 (KLZ_WT21)	17:17	56	09:37 (KLZ_WT21)	16:41	7	14:46 (KLZ_WT22)
4	05:36		20:45 (KLZ_WT13)	06:14		20:44 (KLZ_WT13)	07:02		07:27 (SAM_WT08)	07:49		08:14 (SAM_WT04)	07:42		08:17 (CBR_WT01)	08:30		14:38 (KLZ_WT22)
	22:03	21	21:31 (EVE_WT01)	21:29	15	20:59 (KLZ_WT13)	20:27	37	08:24 (KLZ_WT23)	19:19	95	11:11 (KLZ_WT21)	17:16	50	09:34 (KLZ_WT21)	16:40	11	14:49 (KLZ_WT22)
5	05:37		20:44 (KLZ_WT13)	06:15		20:46 (KLZ_WT13)	07:03		07:29 (SAM_WT08)	07:51		09:38 (KLZ_WT21)	07:44		08:17 (CBR_WT01)	08:31		14:36 (KLZ_WT22)
	22:03	22	21:30 (EVE_WT01)	21:27	12	20:58 (KLZ_WT13)	20:24	35	08:23 (KLZ_WT23)	19:16	93	11:11 (KLZ_WT21)	17:14	40	09:29 (KLZ_WT21)	16:40	15	14:51 (KLZ_WT22)
6	05:37		20:44 (KLZ_WT13)	06:17		20:48 (KLZ_WT13)	07:05		07:30 (SAM_WT08)	07:53		09:37 (KLZ_WT21)	07:45		08:18 (CBR_WT01)	08:33		14:35 (KLZ_WT22)
	22:02	22	21:30 (EVE_WT01)	21:25	8	20:56 (KLZ_WT13)	20:22	32	08:21 (KLZ_WT23)	19:14	93	11:10 (KLZ_WT21)	17:12	21	08:39 (CBR_WT01)	16:39	17	14:52 (KLZ_WT22)
7	05:38		20:43 (KLZ_WT13)	06:18			07:07		07:52 (KLZ_WT23)	07:54		09:37 (KLZ_WT21)	07:47		08:18 (CBR_WT01)	08:34		14:35 (KLZ_WT22)
	22:02	22	21:29 (EVE_WT01)	21:24			20:20	44	10:34 (KLZ_WT21)	19:12	93	11:10 (KLZ_WT21)	17:11	21	08:39 (CBR_WT01)	16:39	19	14:54 (KLZ_WT22)
8	05:39		20:43 (KLZ_WT13)	06:20			07:08		07:53 (KLZ_WT23)	07:56		09:37 (KLZ_WT21)	07:49		08:19 (CBR_WT01)	08:35		14:35 (KLZ_WT22)
	22:01	22	21:29 (EVE_WT01)	21:22			20:18	52	10:40 (KLZ_WT21)	19:10	93	11:10 (KLZ_WT21)	17:09	20	08:39 (CBR_WT01)	16:39	19	14:54 (KLZ_WT22)
9	05:40		20:43 (KLZ_WT13)	06:21			07:10		07:55 (KLZ_WT23)	07:57		09:37 (KLZ_WT21)	07:50		08:19 (CBR_WT01)	08:36		14:34 (KLZ_WT22)
	22:00	21	21:29 (EVE_WT01)	21:20			20:15	55	10:44 (KLZ_WT21)	19:08	92	11:09 (KLZ_WT21)	17:07	24	16:26 (KLZ_WT15)	16:39	21	14:55 (KLZ_WT22)
10	05:41		20:42 (KLZ_WT13)	06:23			07:11		07:58 (KLZ_WT23)	07:59		09:37 (KLZ_WT21)	07:52		08:21 (CBR_WT01)	08:37		14:34 (KLZ_WT22)
	22:00	22	21:04 (KLZ_WT13)	21:18			20:13	55	10:47 (KLZ_WT21)	19:05	92	11:09 (KLZ_WT21)	17:06	26	16:28 (KLZ_WT15)	16:38	22	14:56 (KLZ_WT22)
11	05:42		20:42 (KLZ_WT13)	06:24			07:13		10:03 (KLZ_WT21)	08:01		09:37 (KLZ_WT21)	07:54		08:23 (CBR_WT01)	08:38		14:34 (KLZ_WT22)
	21:59	22	21:04 (KLZ_WT13)	21:16			20:11	47	10:50 (KLZ_WT21)	19:03	91	11:08 (KLZ_WT21)	17:04	26	16:30 (KLZ_WT15)	16:38	23	14:57 (KLZ_WT22)
12	05:43		20:42 (KLZ_WT13)	06:26		20:19 (EVE_WT02)	07:14		10:00 (KLZ_WT21)	08:02		09:38 (KLZ_WT21)	07:56		08:24 (CBR_WT01)	08:39		14:34 (KLZ_WT22)
	21:58	23	21:05 (KLZ_WT13)	21:14	3	20:22 (EVE_WT02)	20:09	52	10:52 (KLZ_WT21)	19:01	90	11:08 (KLZ_WT21)	17:03	25	16:30 (KLZ_WT15)	16:38	24	14:58 (KLZ_WT22)
13	05:44		20:41 (KLZ_WT13)	06:27		20:15 (EVE_WT02)	07:16		09:58 (KLZ_WT21)	08:04		09:37 (KLZ_WT21)	07:57		08:26 (CBR_WT01)	08:40		14:34 (KLZ_WT22)
	21:57	24	21:05 (KLZ_WT13)	21:13	10	20:25 (EVE_WT02)	20:06	56	10:54 (KLZ_WT21)	18:59	90	11:07 (KLZ_WT21)	17:01	22	16:31 (KLZ_WT15)	16:38	24	14:58 (KLZ_WT22)
14	05:45		20:41 (KLZ_WT13)	06:29		08:05 (KLZ_WT23)	07:17		09:56 (KLZ_WT21)	08:06		09:38 (KLZ_WT21)	07:59		16:16 (KLZ_WT15)	08:41		14:34 (KLZ_WT22)
	21:56	25	21:06 (KLZ_WT13)	21:11	28	20:28 (EVE_WT02)	20:04	60	10:56 (KLZ_WT21)	18:57	88	11:06 (KLZ_WT21)	17:00	13	16:29 (KLZ_WT15)	16:38	25	14:59 (KLZ_WT22)
15	05:46		20:41 (KLZ_WT13)	06:30		08:01 (KLZ_WT23)	07:19		08:02 (SAM_WT07)	08:07		09:38 (KLZ_WT21)	08:01		16:16 (KLZ_WT15)	08:42		14:35 (KLZ_WT22)
	21:56	25	21:06 (KLZ_WT13)	21:09	36	20:28 (EVE_WT02)	20:02	73	10:58 (KLZ_WT21)	18:55	88	11:06 (KLZ_WT21)	16:59	12	16:28 (KLZ_WT15)	16:38	25	15:00 (KLZ_WT22)
16	05:48		20:40 (KLZ_WT13)	06:32		07:59 (KLZ_WT23)	07:21		07:59 (SAM_WT07)	08:09		09:38 (KLZ_WT21)	08:02		16:16 (KLZ_WT15)	08:43		09:34 (KLZ_WT11)
	21:55	27	21:07 (KLZ_WT13)	21:07	42	20:29 (EVE_WT02)	20:00	80	10:59 (KLZ_WT21)	18:52	86	11:04 (KLZ_WT21)	16:57	11	16:27 (KLZ_WT15)	16:38	28	15:01 (KLZ_WT22)
17	05:49		20:40 (KLZ_WT13)	06:34		07:57 (KLZ_WT23)	07:22		07:58 (SAM_WT07)	08:11		08:45 (SAM_WT05)	08:04		16:17 (KLZ_WT15)	08:44		09:34 (KLZ_WT11)
	21:54	27	21:07 (KLZ_WT13)	21:05	47	20:30 (EVE_WT02)	19:57	86	11:01 (KLZ_WT21)	18:50	89	11:04 (KLZ_WT21)	16:56	8	16:25 (KLZ_WT15)	16:38	29	15:02 (KLZ_WT22)
18	05:50		20:39 (KLZ_WT13)	06:35		07:56 (KLZ_WT23)	07:24		07:56 (SAM_WT07)	08:12		08:43 (SAM_WT05)	08:06		16:16 (KLZ_WT15)	08:45		09:33 (KLZ_WT11)
	21:52	28	21:07 (KLZ_WT13)	21:03	50	20:30 (EVE_WT02)	19:55	91	11:02 (KLZ_WT21)	18:48	93	11:03 (KLZ_WT21)	16:55	7	16:23 (KLZ_WT15)	16:39	31	15:01 (KLZ_WT22)
19	05:51		20:39 (KLZ_WT13)	06:37		07:54 (KLZ_WT23)	07:25		07:56 (SAM_WT07)	08:14		08:41 (SAM_WT05)	08:07		16:17 (KLZ_WT15)	08:45		09:24 (MVN_WT01)
	21:51	28	21:07 (KLZ_WT13)	21:01	55	20:30 (EVE_WT02)	19:53	94	11:04 (KLZ_WT21)	18:46	94	11:02 (KLZ_WT21)	16:53	5	16:22 (KLZ_WT15)	16:39	33	15:02 (KLZ_WT22)
20	05:52		20:40 (KLZ_WT13)	06:38		07:54 (KLZ_WT23)	07:27		07:55 (SAM_WT07)	08:16		08:42 (SAM_WT05)	08:09		16:18 (KLZ_WT15)	08:46		09:25 (MVN_WT01)
	21:50	28	21:08 (KLZ_WT13)	20:59	56	20:31 (EVE_WT02)	19:50	98	11:05 (KLZ_WT21)	18:44	93	11:02 (KLZ_WT21)	16:52	3	16:21 (KLZ_WT15)	16:39	34	15:03 (KLZ_WT22)
21	05:54		20:39 (KLZ_WT13)	06:40		07:21 (SAM_WT06)	07:28		07:54 (SAM_WT07)	08:18		08:43 (SAM_WT05)	08:11		16:19 (KLZ_WT15)	08:47		09:25 (MVN_WT01)
	21:49	29	21:08 (KLZ_WT13)	20:57	66	20:29 (EVE_WT02)	19:48	101	11:06 (KLZ_WT21)	18:42	90	11:00 (KLZ_WT21)	16:51	1	16:20 (KLZ_WT15)	16:40	34	15:03 (KLZ_WT22)
22	05:55		20:39 (KLZ_WT13)	06:41		07:19 (SAM_WT06)	07:30		07:55 (SAM_WT07)	08:19		08:45 (SAM_WT05)	08:12			08:47		09:26 (MVN_WT01)
	21:48	29	21:08 (KLZ_WT13)	20:55	71	20:28 (EVE_WT02)	19:46	101	11:07 (KLZ_WT21)	18:40	86	10:59 (KLZ_WT21)	16:50			16:40	34	15:04 (KLZ_WT22)
23	05:56		20:39 (KLZ_WT13)	06:43		07:17 (SAM_WT06)	07:32		07:56 (SAM_WT07)	08:21		08:47 (SAM_WT05)	08:14			08:48		09:26 (MVN_WT01)
	21:47	29	21:08 (KLZ_WT13)	20:53	70	20:25 (EVE_WT02)	19:44	100	11:07 (KLZ_WT21)	18:38	82	10:58 (KLZ_WT21)	16:49			16:41	34	15:04 (KLZ_WT22)
24	05:58		20:39 (KLZ_WT13)	06:45		07:17 (SAM_WT06)	07:33		07:58 (SAM_WT07)	08:23		08:49 (SAM_WT05)	08:16			08:48		09:26 (MVN_WT01)
	21:45	29	21:08 (KLZ_WT13)	20:50	72	20:24 (EVE_WT02)	19:41	99	11:08 (KLZ_WT21)	18:36	77	10:57 (KLZ_WT21)	16:48			16:41	33	15:04 (KLZ_WT22)
25	05:59		20:39 (KLZ_WT13)	06:46		07:16 (SAM_WT06)	07:35		07:59 (SAM_WT07)	07:24		07:51 (SAM_WT05)	08:17			08:48		09:28 (MVN_WT01)
	21:44	30	21:09 (KLZ_WT13)	20:48	71	20:21 (EVE_WT02)	19:39	97	11:08 (KLZ_WT21)	17:34	72	09:56 (KLZ_WT21)	16:47			16:42	32	15:05 (KLZ_WT22)
26	06:00		20:39 (KLZ_WT13)	06:48		07:16 (SAM_WT06)	07:36		08:01 (SAM_WT07)	07:26		08:47 (KLZ_WT21)	08:19			08:49		09:38 (KLZ_WT11)
	21:43	29	21:08 (KLZ_WT13)	20:46	69	20:20 (EVE_WT02)	19:37	95	11:09 (KLZ_WT21)	17:32	68	09:55 (KLZ_WT21)	16:46			16:43	29	15:05 (KLZ_WT22)
27	06:02		20:39 (KLZ_WT13)	06:49		07:15 (SAM_WT06)	07:38		08:03 (SAM_WT07)	07:28		08:48 (KLZ_WT21)	08:20			08:49		09:39 (KLZ_WT11)
	21:41	29	21:08 (KLZ_WT13)	20:44	67	20:17 (EVE_WT02)	19:34	91	11:10 (KLZ_WT21)	17:30	64	09:52 (KLZ_WT21)	16:45			16:43	28	15:06 (KLZ_WT22)
28	06:03		20:40 (KLZ_WT13)	06:51		07:17 (SAM_WT06)	07:40		09:40 (KLZ_WT21)	07:30		08:25 (CBR_WT01)	08:22			08:49		14:40 (KLZ_WT22)
	21:40	28	21:08 (KLZ_WT13)	20:42	60	20:15 (EVE_WT02)	19:32	90	11:10 (KLZ_WT21)	17:28	67	09:51 (KLZ_WT21)	16:44			16:44	26	15:06 (KLZ_WT22)
29	06:05		20:40 (KLZ_WT13)	06:52		07:18 (SAM_WT06)	07:41		08:11 (SAM_WT04)	07:31		08:22 (CBR_WT01)	08:23			08:49		14:41 (KLZ_WT22)
	21:38	28	21:08 (KLZ_WT13)	20:40	54	08:28 (KLZ_WT23)	19:30	92	11:10 (KLZ_WT21)	17:26	70	09:49 (KLZ_WT21)	16:43			16:45	25	15:06 (KLZ_WT22)
30	06:06		20:40 (KLZ_WT13)	06:54		07:20 (SAM_WT06)	07:43		08:07 (SAM_WT04)	07:33		08:21 (CBR_WT01)	08:25			08:50		14:42 (KLZ_WT22)
	21:37	27	21:07 (KLZ_WT13)	20:38	52	08:29 (KLZ_WT23)	19:28	99	11:10 (KLZ_WT21)	17:25	69	09:48 (KLZ_WT21)	16:43			16:46	24	15:06 (KLZ_WT22)
31	06:08		20:41 (KLZ_WT13)	06:56		07:21 (SAM_WT06)				07:35		08:20 (CBR_WT01)				08:50		14:43 (KLZ_WT22)
	21:35	25	21:06 (KLZ_WT13)	20:35	47	08:27 (KLZ_WT23)				17:23	67	09:46 (KLZ_WT21)				16:47	23	15:06 (KLZ_WT22)
Potential sun hours	498			452			380			333			269			248		
Total, worst case	783			1122			2131			2659			518			729		
Sun reduction	0,45			0,47			0,43			0,36			0,27			0,23		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,56			0,61			0,56			0,54			0,58			0,71		
Total reduction	0,24			0,28			0,24			0,19			0,15			0,16		
Total, real	190			310			506			513			79			114		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:32 (KLZ_WT23)	08:24		08:52 (SAM_WT07)	07:32		08:03 (SAM_WT06)	07:23		08:12 (KLZ_WT17)	06:20		06:44 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:48	134	14:39 (KLZ_WT20)	17:35	138	17:05 (EVE_WT02)	18:25	27	08:33 (KLZ_WT05)	20:17	19	08:31 (KLZ_WT17)	21:06	5	06:49 (SAM_WT10)	21:51	10	06:14 (TEN_WT01)
2	08:50		09:32 (KLZ_WT23)	08:23		08:52 (SAM_WT07)	07:30		08:04 (SAM_WT06)	07:21		08:15 (KLZ_WT17)	06:18		06:42 (SAM_WT10)	05:36		06:04 (TEN_WT01)
	16:49	137	16:15 (KLZ_WT13)	17:36	123	17:07 (EVE_WT02)	18:26	30	18:01 (EVE_WT01)	20:19	13	08:28 (KLZ_WT17)	21:08	6	06:48 (SAM_WT10)	21:52	11	06:15 (TEN_WT01)
3	08:49		09:20 (SAM_WT05)	08:21		08:52 (SAM_WT07)	07:28		08:07 (SAM_WT06)	07:19			06:16		06:41 (SAM_WT10)	05:35		06:03 (TEN_WT01)
	16:50	142	16:17 (KLZ_WT13)	17:38	116	17:09 (EVE_WT02)	18:28	36	18:03 (EVE_WT01)	20:20			21:10	6	06:47 (SAM_WT10)	21:53	13	06:16 (TEN_WT01)
4	08:49		09:19 (SAM_WT05)	08:19		08:45 (SAM_WT04)	07:26		08:14 (KLZ_WT05)	07:17		07:39 (KLZ_WT02)	06:15		06:39 (SAM_WT10)	05:34		06:02 (TEN_WT01)
	16:51	146	16:17 (KLZ_WT13)	17:40	101	17:11 (EVE_WT02)	18:30	38	18:05 (EVE_WT01)	20:22	3	07:42 (KLZ_WT02)	21:11	6	06:45 (SAM_WT10)	21:54	14	06:16 (TEN_WT01)
5	08:49		09:19 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24		08:11 (KLZ_WT05)	07:14		07:37 (KLZ_WT02)	06:13			05:33		06:02 (TEN_WT01)
	16:52	151	16:19 (KLZ_WT13)	17:42	94	17:13 (EVE_WT02)	18:32	45	18:06 (EVE_WT01)	20:24	6	07:43 (KLZ_WT02)	21:13			21:55	15	06:17 (TEN_WT01)
6	08:49		09:18 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21		08:10 (KLZ_WT05)	07:12		07:34 (KLZ_WT02)	06:11			05:33		06:01 (TEN_WT01)
	16:54	156	16:20 (KLZ_WT13)	17:44	76	17:15 (EVE_WT02)	18:33	50	18:08 (EVE_WT01)	20:25	8	07:42 (KLZ_WT02)	21:14			21:56	16	06:17 (TEN_WT01)
7	08:48		09:18 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19		08:09 (KLZ_WT05)	07:10		07:32 (KLZ_WT01)	06:09			05:32		06:01 (TEN_WT01)
	16:55	158	16:22 (KLZ_WT13)	17:45	68	17:16 (EVE_WT02)	18:35	54	18:10 (EVE_WT01)	20:27	10	07:42 (KLZ_WT02)	21:16			21:57	17	06:18 (TEN_WT01)
8	08:48		09:17 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17		08:09 (KLZ_WT05)	07:08		07:30 (KLZ_WT01)	06:08			05:32		06:00 (TEN_WT01)
	16:56	163	16:23 (KLZ_WT13)	17:47	70	17:18 (EVE_WT02)	18:37	57	18:12 (EVE_WT01)	20:29	11	07:41 (KLZ_WT02)	21:17			21:57	17	06:17 (TEN_WT01)
9	08:48		09:17 (SAM_WT05)	08:11		08:36 (SAM_WT11)	07:15		07:38 (SAM_WT08)	07:05		07:28 (KLZ_WT01)	06:06			05:31		06:00 (TEN_WT01)
	16:58	167	16:25 (KLZ_WT13)	17:49	69	17:17 (EVE_WT02)	18:39	59	18:12 (EVE_WT01)	20:30	12	07:40 (KLZ_WT02)	21:19			21:58	18	06:18 (TEN_WT01)
10	08:47		09:16 (SAM_WT05)	08:09		08:34 (SAM_WT11)	07:13		07:35 (SAM_WT08)	07:03		07:26 (KLZ_WT01)	06:04			05:31		06:00 (TEN_WT01)
	16:59	170	16:26 (KLZ_WT13)	17:51	70	17:17 (EVE_WT02)	18:40	62	18:12 (EVE_WT01)	20:32	6	07:32 (KLZ_WT01)	21:21			21:59	19	06:19 (TEN_WT01)
11	08:47		09:15 (SAM_WT05)	08:08		08:32 (SAM_WT11)	07:10		08:07 (KLZ_WT05)	07:01		07:27 (KLZ_WT01)	06:03			05:31		06:01 (TEN_WT01)
	17:00	173	16:27 (KLZ_WT13)	17:53	68	17:16 (EVE_WT02)	18:42	60	18:12 (EVE_WT01)	20:34	3	07:30 (KLZ_WT01)	21:22			22:00	18	06:19 (TEN_WT01)
12	08:46		09:15 (SAM_WT05)	08:06		08:30 (SAM_WT11)	07:08		07:31 (KLZ_WT17)	06:59			06:01			05:30		06:00 (TEN_WT01)
	17:02	174	16:29 (KLZ_WT13)	17:54	66	17:15 (EVE_WT02)	18:44	59	18:11 (EVE_WT01)	20:35			21:24			22:00	19	06:19 (TEN_WT01)
13	08:45		09:15 (SAM_WT05)	08:04		08:32 (SAM_WT11)	07:06		07:29 (KLZ_WT17)	06:57			05:59			05:30		06:00 (TEN_WT01)
	17:03	175	16:31 (KLZ_WT13)	17:56	56	17:13 (EVE_WT02)	18:45	66	18:11 (EVE_WT01)	20:37			21:25			22:01	19	06:19 (TEN_WT01)
14	08:45		09:16 (SAM_WT05)	08:02		16:13 (KLZ_WT12)	07:04		07:26 (KLZ_WT17)	06:55			05:58			05:30		06:01 (TEN_WT01)
	17:05	176	16:32 (KLZ_WT13)	17:58	47	17:11 (EVE_WT02)	18:47	67	18:09 (EVE_WT01)	20:38			21:27			22:02	18	06:19 (TEN_WT01)
15	08:44		09:29 (KLZ_WT23)	08:00		16:13 (KLZ_WT12)	07:02		07:24 (KLZ_WT17)	06:52			05:56			05:30		06:01 (TEN_WT01)
	17:06	171	16:34 (KLZ_WT13)	18:00	38	16:51 (KLZ_WT12)	18:49	68	18:08 (EVE_WT01)	20:40			21:28			22:02	19	06:20 (TEN_WT01)
16	08:43		09:29 (KLZ_WT23)	07:58		16:14 (KLZ_WT12)	06:59		07:22 (KLZ_WT17)	06:50			05:55			05:29		06:01 (TEN_WT01)
	17:08	171	16:35 (KLZ_WT13)	18:02	36	16:50 (KLZ_WT12)	18:50	67	18:07 (EVE_WT01)	20:42			21:30			22:03	19	06:20 (TEN_WT01)
17	08:42		09:29 (KLZ_WT23)	07:57		16:15 (KLZ_WT12)	06:57		07:19 (KLZ_WT17)	06:48			05:53			05:29		06:01 (TEN_WT01)
	17:09	171	16:35 (KLZ_WT13)	18:03	34	16:49 (KLZ_WT12)	18:52	64	18:04 (EVE_WT01)	20:43			21:31			22:03	19	06:20 (TEN_WT01)
18	08:41		09:29 (KLZ_WT23)	07:55		16:17 (KLZ_WT12)	06:55		07:17 (KLZ_WT17)	06:46			05:52			05:29		06:01 (TEN_WT01)
	17:11	171	16:36 (KLZ_WT13)	18:05	31	16:48 (KLZ_WT12)	18:54	58	18:01 (EVE_WT01)	20:45			21:33			22:04	19	06:20 (TEN_WT01)
19	08:40		09:29 (KLZ_WT23)	07:53		16:18 (KLZ_WT12)	06:53		07:15 (KLZ_WT17)	06:44			05:51			05:29		06:02 (TEN_WT01)
	17:12	170	16:36 (KLZ_WT13)	18:07	29	16:47 (KLZ_WT12)	18:55	48	08:31 (KLZ_WT05)	20:47			21:34			22:04	19	06:21 (TEN_WT01)
20	08:39		09:29 (KLZ_WT23)	07:51		16:21 (KLZ_WT12)	06:50		07:13 (KLZ_WT17)	06:42			05:49			05:30		06:02 (TEN_WT01)
	17:14	169	16:37 (KLZ_WT13)	18:09	24	16:45 (KLZ_WT12)	18:57	47	08:29 (KLZ_WT05)	20:48			21:35			22:04	19	06:21 (TEN_WT01)
21	08:38		09:29 (KLZ_WT23)	07:49		08:12 (SAM_WT06)	06:48		07:10 (KLZ_WT17)	06:40			05:48			05:30		06:02 (TEN_WT01)
	17:16	166	16:36 (KLZ_WT13)	18:11	24	16:43 (KLZ_WT12)	18:59	42	08:24 (KLZ_WT05)	20:50			21:37			22:04	19	06:21 (TEN_WT01)
22	08:37		09:29 (KLZ_WT23)	07:47		08:10 (SAM_WT06)	06:46		07:08 (KLZ_WT17)	06:38			05:47			05:30		06:03 (TEN_WT01)
	17:17	165	16:37 (KLZ_WT13)	18:12	22	16:40 (KLZ_WT12)	19:00	35	07:43 (KLZ_WT17)	20:52			21:38			22:05	19	06:22 (TEN_WT01)
23	08:36		09:30 (KLZ_WT23)	07:45		08:08 (SAM_WT06)	06:44		07:08 (KLZ_WT17)	06:36			05:46			05:30		06:03 (TEN_WT01)
	17:19	162	16:39 (KLZ_WT12)	18:14	11	08:19 (SAM_WT06)	19:02	35	07:43 (KLZ_WT17)	20:53			21:40			22:05	19	06:22 (TEN_WT01)
24	08:35		09:02 (SAM_WT07)	07:43		08:06 (SAM_WT06)	06:41		07:08 (KLZ_WT17)	06:34			05:44			05:30		06:02 (TEN_WT01)
	17:21	163	16:41 (KLZ_WT12)	18:16	13	08:19 (SAM_WT06)	19:04	35	07:43 (KLZ_WT17)	20:55			21:41			22:05	20	06:22 (TEN_WT01)
25	08:34		09:00 (SAM_WT07)	07:41		08:04 (SAM_WT06)	06:39		07:08 (KLZ_WT17)	06:32			05:43			05:31		06:03 (TEN_WT01)
	17:22	164	16:42 (KLZ_WT12)	18:18	16	08:20 (SAM_WT06)	19:05	34	07:42 (KLZ_WT17)	20:57			21:42			22:05	19	06:22 (TEN_WT01)
26	08:32		08:59 (SAM_WT07)	07:38		08:02 (SAM_WT06)	06:37		07:08 (KLZ_WT17)	06:30			05:42			05:31		06:03 (TEN_WT01)
	17:24	163	16:44 (KLZ_WT12)	18:19	18	08:20 (SAM_WT06)	19:07	33	07:41 (KLZ_WT17)	20:58			21:43			22:05	19	06:22 (TEN_WT01)
27	08:31		08:57 (SAM_WT07)	07:36		08:03 (SAM_WT06)	06:35		07:08 (KLZ_WT17)	06:28			05:41			05:32		06:03 (TEN_WT01)
	17:26	161	16:45 (KLZ_WT12)	18:21	16	08:19 (SAM_WT06)	19:09	32	07:40 (KLZ_WT17)	21:00			21:45			22:05	19	06:22 (TEN_WT01)
28	08:30		08:56 (SAM_WT07)	07:34		08:02 (SAM_WT06)	06:32		07:08 (KLZ_WT17)	06:26			05:40		06:07 (TEN_WT01)	05:32		06:04 (TEN_WT01)
	17:28	161	16:47 (KLZ_WT12)	18:23	16	08:18 (SAM_WT06)	19:10	31	07:39 (KLZ_WT17)	21:01			21:46	1	06:08 (TEN_WT01)	22:05	19	06:23 (TEN_WT01)
29	08:28		08:54 (SAM_WT07)				07:30		08:09 (KLZ_WT17)	06:24		06:48 (SAM_WT10)	05:39		06:07 (TEN_WT01)	05:33		06:03 (TEN_WT01)
	17:29	158	16:48 (KLZ_WT12)				20:12	28	08:37 (KLZ_WT17)	21:03	2	06:50 (SAM_WT10)	21:47	5	06:12 (TEN_WT01)	22:05	19	06:22 (TEN_WT01)
30	08:27		08:53 (SAM_WT07)				07:28		08:10 (KLZ_WT17)	06:22		06:46 (SAM_WT10)	05:38		06:06 (TEN_WT01)	05:33		06:04 (TEN_WT01)
	17:31	152	16:49 (KLZ_WT12)				20:14	26	08:36 (KLZ_WT17)	21:05	3	06:49 (SAM_WT10)	21:48	7	06:13 (TEN_WT01)	22:04	19	06:23 (TEN_WT01)
31	08:26		08:51 (SAM_WT07)				07:25		08:12 (KLZ_WT17)				05:37		06:05 (TEN_WT01)			
	17:33	149	17:03 (EVE_WT02)				20:15	22	08:34 (KLZ_WT17)				21:49	9	06:14 (TEN_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		5009			1490			1415			96			45			529	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,65			0,68			0,59			0,63			0,69			0,71	
Total reduction		0,16			0,20			0,22			0,28			0,31			0,31	
Total, real		786			297			310			27			14			162	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 5 - Pelikaanstraat 60, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:05 (TEN_WT01)	06:09			06:57		07:26 (KLZ_WT01)	07:44		08:09 (KLZ_WT17)	07:37		08:04 (SAM_WT11)	08:26		08:57 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:34			20:33	3	07:29 (KLZ_WT01)	19:25	63	18:50 (EVE_WT01)	17:21	69	16:47 (EVE_WT02)	16:42	172	16:09 (KLZ_WT13)
2	05:34		06:04 (TEN_WT01)	06:10			06:59		07:24 (KLZ_WT01)	07:46		08:46 (KLZ_WT05)	07:38		08:06 (SAM_WT11)	08:27		08:59 (SAM_WT05)
	22:04	19	06:23 (TEN_WT01)	21:32			20:31	6	07:30 (KLZ_WT01)	19:23	58	18:50 (EVE_WT01)	17:19	67	16:47 (EVE_WT02)	16:41	168	16:09 (KLZ_WT13)
3	05:35		06:05 (TEN_WT01)	06:12			07:00		07:26 (KLZ_WT01)	07:48		08:12 (SAM_WT08)	07:40		08:08 (SAM_WT04)	08:29		09:00 (SAM_WT05)
	22:04	18	06:23 (TEN_WT01)	21:30			20:29	12	07:38 (KLZ_WT02)	19:21	62	18:49 (EVE_WT01)	17:17	70	16:47 (EVE_WT02)	16:41	167	16:08 (KLZ_WT13)
4	05:36		06:06 (TEN_WT01)	06:13			07:02		07:27 (KLZ_WT01)	07:49		08:14 (SAM_WT08)	07:42		08:09 (SAM_WT04)	08:30		09:02 (SAM_WT05)
	22:03	18	06:24 (TEN_WT01)	21:29			20:27	11	07:38 (KLZ_WT02)	19:19	59	18:49 (EVE_WT01)	17:16	69	16:46 (EVE_WT02)	16:40	162	16:08 (KLZ_WT13)
5	05:37		06:06 (TEN_WT01)	06:15			07:03		07:29 (KLZ_WT01)	07:51		08:46 (KLZ_WT05)	07:44		08:11 (SAM_WT04)	08:31		09:03 (SAM_WT05)
	22:03	17	06:23 (TEN_WT01)	21:27			20:24	10	07:39 (KLZ_WT02)	19:16	57	18:49 (EVE_WT01)	17:14	81	16:44 (EVE_WT02)	16:40	159	16:07 (KLZ_WT13)
6	05:37		06:07 (TEN_WT01)	06:17			07:05		07:30 (KLZ_WT02)	07:53		08:45 (KLZ_WT05)	07:45		08:13 (SAM_WT04)	08:33		09:04 (SAM_WT05)
	22:02	16	06:23 (TEN_WT01)	21:25			20:22	8	07:38 (KLZ_WT02)	19:14	56	18:47 (EVE_WT01)	17:12	93	16:42 (EVE_WT02)	16:39	156	16:06 (KLZ_WT13)
7	05:38		06:08 (TEN_WT01)	06:18			07:06		07:32 (KLZ_WT02)	07:54		08:46 (KLZ_WT05)	07:47		08:15 (SAM_WT04)	08:34		09:06 (SAM_WT05)
	22:02	15	06:23 (TEN_WT01)	21:24			20:20	6	07:38 (KLZ_WT02)	19:12	51	18:45 (EVE_WT01)	17:11	102	16:41 (EVE_WT02)	16:39	151	16:06 (KLZ_WT13)
8	05:39		06:09 (TEN_WT01)	06:20			07:08		07:33 (KLZ_WT02)	07:56		08:47 (KLZ_WT05)	07:49		08:23 (SAM_WT07)	08:35		09:07 (SAM_WT05)
	22:01	14	06:23 (TEN_WT01)	21:22			20:18	4	07:37 (KLZ_WT02)	19:10	46	18:43 (EVE_WT01)	17:09	117	16:39 (EVE_WT02)	16:39	146	16:05 (KLZ_WT13)
9	05:40		06:10 (TEN_WT01)	06:21		06:49 (SAM_WT10)	07:10			07:57		08:47 (KLZ_WT05)	07:50		08:23 (SAM_WT07)	08:36		09:08 (SAM_WT05)
	22:00	13	06:23 (TEN_WT01)	21:20	6	06:55 (SAM_WT10)	20:15			19:08	41	18:40 (EVE_WT01)	17:07	123	16:38 (EVE_WT02)	16:38	142	16:05 (KLZ_WT13)
10	05:41		06:11 (TEN_WT01)	06:23		06:50 (SAM_WT10)	07:11		08:09 (KLZ_WT17)	07:59		08:49 (KLZ_WT05)	07:52		08:23 (SAM_WT07)	08:37		09:21 (KLZ_WT23)
	22:00	12	06:23 (TEN_WT01)	21:18	6	06:56 (SAM_WT10)	20:13	12	08:21 (KLZ_WT17)	19:05	34	18:38 (EVE_WT01)	17:06	138	16:36 (EVE_WT02)	16:38	139	16:05 (KLZ_WT13)
11	05:42		06:12 (TEN_WT01)	06:24		06:51 (SAM_WT10)	07:13		08:06 (KLZ_WT17)	08:01		08:40 (SAM_WT06)	07:54		08:23 (SAM_WT07)	08:38		09:22 (KLZ_WT23)
	21:59	11	06:23 (TEN_WT01)	21:16	5	06:56 (SAM_WT10)	20:11	18	08:24 (KLZ_WT17)	19:03	34	18:36 (EVE_WT01)	17:04	148	16:35 (EVE_WT02)	16:38	134	14:29 (KLZ_WT20)
12	05:43		06:13 (TEN_WT01)	06:26		06:53 (SAM_WT10)	07:14		08:03 (KLZ_WT17)	08:02		08:38 (SAM_WT06)	07:56		08:24 (SAM_WT07)	08:39		09:24 (KLZ_WT23)
	21:58	9	06:22 (TEN_WT01)	21:14	4	06:57 (SAM_WT10)	20:09	22	08:25 (KLZ_WT17)	19:01	28	09:09 (KLZ_WT05)	17:03	152	16:20 (KLZ_WT12)	16:38	132	14:30 (KLZ_WT20)
13	05:44		06:14 (TEN_WT01)	06:27		06:54 (SAM_WT10)	07:16		08:02 (KLZ_WT17)	08:04		08:36 (SAM_WT06)	07:57		08:26 (SAM_WT07)	08:40		10:42 (KLZ_WT06)
	21:57	8	06:22 (TEN_WT01)	21:13	3	06:57 (SAM_WT10)	20:06	25	08:27 (KLZ_WT17)	18:59	22	09:04 (KLZ_WT05)	17:01	157	16:19 (KLZ_WT12)	16:38	126	14:30 (KLZ_WT20)
14	05:45		06:15 (TEN_WT01)	06:29		06:56 (SAM_WT10)	07:17		08:00 (KLZ_WT17)	08:06		08:35 (SAM_WT06)	07:59		08:28 (SAM_WT07)	08:41		10:42 (KLZ_WT06)
	21:56	6	06:21 (TEN_WT01)	21:11	2	06:58 (SAM_WT10)	20:04	28	08:28 (KLZ_WT17)	18:57	16	08:51 (SAM_WT06)	17:00	161	16:19 (KLZ_WT12)	16:38	126	14:31 (KLZ_WT20)
15	05:46		06:16 (TEN_WT01)	06:30			07:19		07:59 (KLZ_WT17)	08:07		08:35 (SAM_WT06)	08:01		08:30 (SAM_WT07)	08:42		10:43 (KLZ_WT06)
	21:56	3	06:19 (TEN_WT01)	21:09			20:02	30	08:29 (KLZ_WT17)	18:55	17	08:52 (SAM_WT06)	16:59	161	16:18 (KLZ_WT12)	16:38	126	14:31 (KLZ_WT20)
16	05:48			06:32			07:21		07:57 (KLZ_WT17)	08:09		08:35 (SAM_WT06)	08:02		08:32 (SAM_WT07)	08:43		10:44 (KLZ_WT06)
	21:55			21:07			20:00	32	08:29 (KLZ_WT17)	18:52	17	08:52 (SAM_WT06)	16:57	162	16:17 (KLZ_WT12)	16:38	125	14:32 (KLZ_WT20)
17	05:49			06:34			07:22		07:56 (KLZ_WT17)	08:11		08:36 (SAM_WT06)	08:04		08:34 (SAM_WT07)	08:44		10:44 (KLZ_WT06)
	21:54			21:05			19:57	33	08:29 (KLZ_WT17)	18:50	15	08:51 (SAM_WT06)	16:56	164	16:16 (KLZ_WT12)	16:38	126	14:33 (KLZ_WT20)
18	05:50			06:35			07:24		07:55 (KLZ_WT17)	08:12		08:38 (SAM_WT06)	08:06		08:36 (SAM_WT07)	08:45		10:44 (KLZ_WT06)
	21:53			21:03			19:55	34	08:29 (KLZ_WT17)	18:48	12	08:50 (SAM_WT06)	16:55	163	16:15 (KLZ_WT12)	16:39	125	14:32 (KLZ_WT20)
19	05:51			06:37			07:25		07:55 (KLZ_WT17)	08:14		08:40 (SAM_WT06)	08:08		09:04 (KLZ_WT23)	08:45		10:45 (KLZ_WT06)
	21:51			21:01			19:53	34	08:29 (KLZ_WT17)	18:46	15	17:07 (KLZ_WT12)	16:53	162	16:13 (KLZ_WT12)	16:39	125	14:33 (KLZ_WT20)
20	05:52			06:38			07:27		07:55 (KLZ_WT17)	08:16		08:42 (SAM_WT06)	08:09		09:04 (KLZ_WT23)	08:46		10:46 (KLZ_WT06)
	21:50			20:59			19:50	35	08:30 (KLZ_WT17)	18:44	22	17:12 (KLZ_WT12)	16:52	165	16:12 (KLZ_WT13)	16:39	125	14:34 (KLZ_WT20)
21	05:54			06:40			07:28		07:54 (KLZ_WT17)	08:18		08:43 (SAM_WT06)	08:11		09:05 (KLZ_WT23)	08:47		10:46 (KLZ_WT06)
	21:49			20:57			19:48	35	08:29 (KLZ_WT17)	18:42	24	17:14 (KLZ_WT12)	16:51	166	16:12 (KLZ_WT13)	16:40	125	14:34 (KLZ_WT20)
22	05:55			06:41			07:30		07:55 (KLZ_WT17)	08:19		16:50 (KLZ_WT12)	08:12		09:05 (KLZ_WT23)	08:47		10:47 (KLZ_WT06)
	21:48			20:55			19:46	38	09:07 (KLZ_WT05)	18:40	26	17:16 (KLZ_WT12)	16:50	169	16:13 (KLZ_WT13)	16:40	125	14:35 (KLZ_WT20)
23	05:56			06:43			07:32		07:56 (KLZ_WT17)	08:21		16:48 (KLZ_WT12)	08:14		09:05 (KLZ_WT23)	08:48		10:47 (KLZ_WT06)
	21:47			20:53			19:44	45	09:11 (KLZ_WT05)	18:38	30	17:18 (KLZ_WT12)	16:49	170	16:12 (KLZ_WT13)	16:41	125	14:35 (KLZ_WT20)
24	05:58			06:44			07:33		07:58 (KLZ_WT17)	08:23		16:47 (KLZ_WT12)	08:16		09:06 (KLZ_WT23)	08:48		10:47 (KLZ_WT06)
	21:45			20:50			19:41	48	09:14 (KLZ_WT05)	18:36	32	17:19 (KLZ_WT12)	16:48	172	16:13 (KLZ_WT13)	16:41	125	14:35 (KLZ_WT20)
25	05:59			06:46			07:35		07:59 (KLZ_WT17)	07:24		15:46 (KLZ_WT12)	08:17		09:07 (KLZ_WT23)	08:48		10:48 (KLZ_WT06)
	21:44			20:48			19:39	52	18:41 (EVE_WT01)	17:34	34	16:20 (KLZ_WT12)	16:47	171	16:13 (KLZ_WT13)	16:42	125	14:36 (KLZ_WT20)
26	06:00			06:48			07:36		08:01 (KLZ_WT17)	07:26		15:45 (KLZ_WT12)	08:19		09:07 (KLZ_WT23)	08:49		10:48 (KLZ_WT06)
	21:43			20:46			19:37	63	18:46 (EVE_WT01)	17:32	36	16:21 (KLZ_WT12)	16:46	171	16:13 (KLZ_WT13)	16:43	126	14:37 (KLZ_WT20)
27	06:02			06:49			07:38		08:03 (KLZ_WT17)	07:28		15:43 (KLZ_WT12)	08:20		09:08 (KLZ_WT23)	08:49		10:48 (KLZ_WT06)
	21:41			20:44			19:34	66	18:48 (EVE_WT01)	17:30	38	16:21 (KLZ_WT12)	16:45	171	16:13 (KLZ_WT13)	16:43	126	14:37 (KLZ_WT20)
28	06:03			06:51			07:40		08:04 (KLZ_WT17)	07:30		15:42 (KLZ_WT12)	08:22		08:56 (SAM_WT05)	08:49		10:49 (KLZ_WT06)
	21:40			20:42			19:32	67	18:48 (EVE_WT01)	17:28	48	16:41 (EVE_WT02)	16:44	175	16:12 (KLZ_WT13)	16:44	125	14:37 (KLZ_WT20)
29	06:05			06:52			07:41		08:06 (KLZ_WT17)	07:31		08:01 (SAM_WT11)	08:23		08:55 (SAM_WT05)	08:49		10:49 (KLZ_WT06)
	21:38			20:40			19:30	68	18:50 (EVE_WT01)	17:26	59	16:43 (EVE_WT02)	16:43	175	16:11 (KLZ_WT13)	16:45	126	14:38 (KLZ_WT20)
30	06:06			06:54			07:43		08:07 (KLZ_WT17)	07:33		08:00 (SAM_WT11)	08:25		08:56 (SAM_WT05)	08:50		10:50 (KLZ_WT06)
	21:37			20:38			19:28	66	18:49 (EVE_WT01)	17:25	68	16:45 (EVE_WT02)	16:43	174	16:10 (KLZ_WT13)	16:46	125	14:38 (KLZ_WT20)
31	06:08			06:56						07:35		08:02 (SAM_WT11)				08:50		09:34 (KLZ_WT23)
	21:35			20:35						17:23	68	16:46 (EVE_WT02)				16:47	129	14:38 (KLZ_WT20)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		197			26			911			1188			4238			4214	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,71			0,67			0,60			0,63			0,65			0,66	
Total reduction		0,31			0,31			0,25			0,22			0,17			0,14	
Total, real		61			8			230			266			725			609	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:26 (SAM_WT05)	08:24		09:00 (SAM_WT07)	07:32			07:23		19:11 (KLZ_WT20)	06:20		19:47 (KLZ_WT06)	05:36		
	16:48	124	15:47 (KLZ_WT22)	17:35	97	11:58 (KLZ_WT23)	18:25			20:17	39	19:50 (KLZ_WT20)	21:06	25	20:12 (KLZ_WT06)	21:51		
2	08:50		09:26 (SAM_WT05)	08:23		09:00 (SAM_WT07)	07:30			07:21		19:11 (KLZ_WT20)	06:18		19:47 (KLZ_WT06)	05:36		
	16:49	123	15:47 (KLZ_WT22)	17:36	98	11:58 (KLZ_WT23)	18:26			20:19	42	19:53 (KLZ_WT12)	21:08	24	20:11 (KLZ_WT06)	21:52		
3	08:49		09:27 (SAM_WT05)	08:21		08:59 (SAM_WT07)	07:28			07:19		19:10 (KLZ_WT20)	06:16		19:47 (KLZ_WT06)	05:35		
	16:50	121	15:47 (KLZ_WT22)	17:38	99	11:58 (KLZ_WT23)	18:28			20:20	45	19:55 (KLZ_WT12)	21:09	23	20:10 (KLZ_WT06)	21:53		
4	08:49		09:27 (SAM_WT05)	08:19		09:00 (SAM_WT07)	07:26			07:16		19:10 (KLZ_WT20)	06:15		19:49 (KLZ_WT06)	05:34		
	16:51	120	15:46 (KLZ_WT22)	17:40	98	11:58 (KLZ_WT23)	18:30			20:22	47	19:57 (EVE_WT01)	21:11	21	20:10 (KLZ_WT06)	21:54		
5	08:49		09:28 (SAM_WT05)	08:18		08:43 (SAM_WT04)	07:24			07:14		19:10 (KLZ_WT20)	06:13		19:50 (KLZ_WT06)	05:33		
	16:52	118	15:46 (KLZ_WT22)	17:42	100	11:58 (KLZ_WT23)	18:32			20:24	48	19:58 (EVE_WT01)	21:13	19	20:09 (KLZ_WT06)	21:55		
6	08:49		09:29 (SAM_WT05)	08:16		08:41 (SAM_WT04)	07:21			07:12		19:09 (KLZ_WT20)	06:11		19:50 (KLZ_WT06)	05:33		
	16:54	111	15:13 (KLZ_WT21)	17:44	102	11:57 (KLZ_WT23)	18:33			20:25	50	19:59 (EVE_WT01)	21:14	17	20:07 (KLZ_WT06)	21:56		
7	08:48		09:30 (SAM_WT05)	08:15		08:39 (SAM_WT04)	07:19			07:10		19:09 (KLZ_WT20)	06:09		19:53 (KLZ_WT06)	05:32		
	16:55	111	15:14 (KLZ_WT21)	17:45	104	11:57 (KLZ_WT23)	18:35			20:27	52	20:01 (EVE_WT01)	21:16	13	20:06 (KLZ_WT06)	21:56		
8	08:48		09:31 (SAM_WT05)	08:13		08:38 (SAM_WT04)	07:17			07:08		07:30 (SWB_WT01_RP)	06:08		19:54 (KLZ_WT06)	05:32		06:00 (KLZ_WT01)
	16:56	110	15:13 (KLZ_WT21)	17:47	104	11:57 (KLZ_WT23)	18:37			20:29	54	20:03 (EVE_WT01)	21:17	10	20:04 (KLZ_WT06)	21:57	2	06:02 (KLZ_WT01)
9	08:47		09:32 (SAM_WT05)	08:11		08:36 (SAM_WT04)	07:15			07:05		07:28 (SWB_WT01_RP)	06:06			05:31		06:00 (KLZ_WT01)
	16:57	110	15:14 (KLZ_WT21)	17:49	105	11:56 (KLZ_WT23)	18:39			20:30	57	20:05 (EVE_WT01)	21:19			21:58	3	06:03 (KLZ_WT01)
10	08:47		09:33 (SAM_WT05)	08:09		08:34 (SAM_WT04)	07:13		07:44 (SAM_WT06)	07:03		19:11 (KLZ_WT20)	06:04			05:31		06:00 (KLZ_WT01)
	16:59	108	15:14 (KLZ_WT21)	17:51	104	11:56 (KLZ_WT23)	18:40	3	07:47 (SAM_WT06)	20:32	55	20:06 (EVE_WT01)	21:21			21:59	4	06:04 (KLZ_WT01)
11	08:46		09:35 (SAM_WT05)	08:08		08:32 (SAM_WT04)	07:10		07:39 (SAM_WT06)	07:01		19:11 (KLZ_WT20)	06:03		06:28 (SAM_WT09)	05:31		05:59 (KLZ_WT01)
	17:00	104	15:14 (KLZ_WT21)	17:53	103	11:55 (KLZ_WT23)	18:42	13	07:52 (SAM_WT06)	20:33	52	20:03 (EVE_WT01)	21:22	1	06:29 (SAM_WT09)	22:00	5	06:04 (KLZ_WT01)
12	08:46		10:49 (KLZ_WT23)	08:06		08:30 (SAM_WT11)	07:08		07:36 (SAM_WT06)	06:59		19:11 (KLZ_WT20)	06:01		06:26 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:02	99	15:14 (KLZ_WT21)	17:54	100	11:54 (KLZ_WT23)	18:44	20	18:19 (KLZ_WT13)	20:35	49	20:01 (EVE_WT01)	21:24	1	06:27 (SAM_WT09)	22:00	6	06:05 (KLZ_WT01)
13	08:45		10:49 (KLZ_WT23)	08:04		08:28 (SAM_WT11)	07:06		07:34 (SAM_WT06)	06:57		19:13 (KLZ_WT20)	05:59		06:25 (SAM_WT09)	05:30		05:59 (KLZ_WT01)
	17:03	99	15:14 (KLZ_WT21)	17:56	97	11:53 (KLZ_WT23)	18:45	25	18:20 (KLZ_WT13)	20:37	41	19:58 (KLZ_WT12)	21:25	1	06:26 (SAM_WT09)	22:01	7	06:06 (KLZ_WT01)
14	08:44		10:49 (KLZ_WT23)	08:02		08:26 (SAM_WT11)	07:04		07:32 (SAM_WT06)	06:55		19:14 (KLZ_WT20)	05:58			05:30		05:59 (KLZ_WT01)
	17:05	99	15:14 (KLZ_WT21)	17:58	91	11:51 (KLZ_WT23)	18:47	31	18:22 (KLZ_WT13)	20:38	31	19:54 (KLZ_WT12)	21:27			22:02	7	06:06 (KLZ_WT01)
15	08:44		10:49 (KLZ_WT23)	08:00		08:24 (SAM_WT11)	07:02		07:31 (SAM_WT06)	06:52		19:16 (KLZ_WT20)	05:56			05:30		05:59 (KLZ_WT01)
	17:06	99	15:14 (KLZ_WT21)	18:00	84	11:50 (KLZ_WT23)	18:49	36	18:24 (KLZ_WT13)	20:40	24	19:40 (KLZ_WT20)	21:28			22:02	8	06:07 (KLZ_WT01)
16	08:43		10:49 (KLZ_WT23)	07:58		08:22 (SAM_WT11)	06:59		07:30 (SAM_WT06)	06:50		07:13 (SAM_WT02)	05:55			05:29		05:59 (KLZ_WT01)
	17:08	98	15:13 (KLZ_WT21)	18:02	76	11:49 (KLZ_WT23)	18:50	40	18:26 (KLZ_WT13)	20:42	21	19:37 (KLZ_WT20)	21:30			22:03	8	06:07 (KLZ_WT01)
17	08:42		10:49 (KLZ_WT23)	07:56		08:20 (SAM_WT11)	06:57		07:29 (SAM_WT06)	06:48		07:11 (SAM_WT02)	05:53			05:29		05:59 (KLZ_WT01)
	17:09	96	15:13 (KLZ_WT21)	18:03	69	11:47 (KLZ_WT23)	18:52	42	18:27 (KLZ_WT13)	20:43	17	19:34 (KLZ_WT20)	21:31			22:03	8	06:07 (KLZ_WT01)
18	08:41		10:49 (KLZ_WT23)	07:55		08:20 (SAM_WT11)	06:55		07:29 (SAM_WT06)	06:46		07:09 (SAM_WT02)	05:52			05:29		05:59 (KLZ_WT01)
	17:11	96	15:13 (KLZ_WT21)	18:05	65	11:45 (KLZ_WT23)	18:54	43	18:28 (KLZ_WT13)	20:45	3	07:12 (SAM_WT02)	21:33			22:03	8	06:07 (KLZ_WT01)
19	08:40		10:49 (KLZ_WT23)	07:53		08:21 (SAM_WT11)	06:53		07:15 (SAM_WT08)	06:44		19:56 (KLZ_WT06)	05:51			05:29		05:59 (KLZ_WT01)
	17:12	94	15:12 (KLZ_WT21)	18:07	58	11:42 (KLZ_WT23)	18:55	42	18:27 (KLZ_WT13)	20:47	10	20:06 (KLZ_WT06)	21:34			22:04	9	06:08 (KLZ_WT01)
20	08:39		10:49 (KLZ_WT23)	07:51		08:22 (SAM_WT11)	06:50		07:13 (SAM_WT08)	06:42		19:53 (KLZ_WT06)	05:49			05:30		05:59 (KLZ_WT01)
	17:14	93	15:11 (KLZ_WT21)	18:09	52	11:40 (KLZ_WT23)	18:57	40	18:25 (KLZ_WT13)	20:48	16	20:09 (KLZ_WT06)	21:35			22:04	9	06:08 (KLZ_WT01)
21	08:38		10:48 (KLZ_WT23)	07:49		08:24 (SAM_WT11)	06:48		07:10 (SAM_WT08)	06:40		19:52 (KLZ_WT06)	05:48			05:30		05:59 (KLZ_WT01)
	17:16	91	15:09 (KLZ_WT21)	18:11	41	11:36 (KLZ_WT23)	18:59	33	07:56 (SAM_WT06)	20:50	18	20:10 (KLZ_WT06)	21:37			22:04	9	06:08 (KLZ_WT01)
22	08:37		10:48 (KLZ_WT23)	07:47		08:27 (SAM_WT11)	06:46		07:08 (SAM_WT08)	06:38		19:50 (KLZ_WT06)	05:47			05:30		06:00 (KLZ_WT01)
	17:17	87	15:08 (KLZ_WT21)	18:12	26	11:31 (KLZ_WT23)	19:00	35	07:56 (SAM_WT06)	20:52	21	20:11 (KLZ_WT06)	21:38			22:05	9	06:09 (KLZ_WT01)
23	08:36		09:10 (SAM_WT07)	07:45			06:44		07:06 (SAM_WT08)	06:36		06:59 (SAM_WT03)	05:45			05:30		06:00 (KLZ_WT01)
	17:19	91	16:48 (KLZ_WT15)	18:14			19:02	44	18:37 (KLZ_WT20)	20:53	25	20:12 (KLZ_WT06)	21:40			22:05	9	06:09 (KLZ_WT01)
24	08:35		09:06 (SAM_WT07)	07:43			06:41		07:03 (SAM_WT08)	06:34		06:57 (SAM_WT03)	05:44			05:30		06:00 (KLZ_WT01)
	17:21	91	16:49 (KLZ_WT15)	18:16			19:04	48	18:38 (KLZ_WT20)	20:55	28	20:13 (KLZ_WT06)	21:41			22:05	9	06:09 (KLZ_WT01)
25	08:34		09:05 (SAM_WT07)	07:41			06:39		07:29 (SAM_WT06)	06:32		06:55 (SAM_WT03)	05:43			05:31		06:01 (KLZ_WT01)
	17:22	86	16:51 (KLZ_WT15)	18:18			19:05	42	18:40 (KLZ_WT20)	20:56	31	20:13 (KLZ_WT06)	21:42			22:05	8	06:09 (KLZ_WT01)
26	08:32		09:04 (SAM_WT07)	07:38			06:37		07:31 (SAM_WT06)	06:30		06:53 (SAM_WT03)	05:42			05:31		06:01 (KLZ_WT01)
	17:24	88	16:53 (KLZ_WT15)	18:19			19:07	42	18:42 (KLZ_WT20)	20:58	32	20:13 (KLZ_WT06)	21:43			22:05	8	06:09 (KLZ_WT01)
27	08:31		09:02 (SAM_WT07)	07:36			06:34		07:32 (SAM_WT06)	06:28		06:53 (SAM_WT03)	05:41			05:32		06:01 (KLZ_WT01)
	17:26	91	11:57 (KLZ_WT23)	18:21			19:09	43	18:44 (KLZ_WT20)	21:00	31	20:13 (KLZ_WT06)	21:45			22:05	8	06:09 (KLZ_WT01)
28	08:30		09:02 (SAM_WT07)	07:34			06:32		07:34 (SAM_WT06)	06:26		19:46 (KLZ_WT06)	05:40			05:32		06:02 (KLZ_WT01)
	17:28	91	11:57 (KLZ_WT23)	18:23			19:10	40	18:45 (KLZ_WT20)	21:01	27	20:13 (KLZ_WT06)	21:46			22:05	7	06:09 (KLZ_WT01)
29	08:28		09:01 (SAM_WT07)				07:30		19:14 (KLZ_WT20)	06:24		19:47 (KLZ_WT06)	05:39			05:33		06:02 (KLZ_WT01)
	17:29	94	11:57 (KLZ_WT23)				20:12	33	19:47 (KLZ_WT20)	21:03	26	20:13 (KLZ_WT06)	21:47			22:05	7	06:09 (KLZ_WT01)
30	08:27		09:01 (SAM_WT07)				07:28		19:13 (KLZ_WT20)	06:22		19:47 (KLZ_WT06)	05:38			05:33		06:03 (KLZ_WT01)
	17:31	95	11:58 (KLZ_WT23)				20:14	36	19:49 (KLZ_WT20)	21:05	26	20:13 (KLZ_WT06)	21:48			22:04	6	06:09 (KLZ_WT01)
31	08:25		09:00 (SAM_WT07)				07:25		19:13 (KLZ_WT20)				05:37					
	17:33	97	11:58 (KLZ_WT23)				20:15	37	19:50 (KLZ_WT20)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		3135			1873			768			1018			155			164	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,63			0,58			0,60			0,60			0,57			0,71	
Total reduction		0,15			0,17			0,22			0,27			0,25			0,31	
Total, real		479			320			171			277			39			50	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 6 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

July			August			September			October			November			December		
1	05:34	06:04 (KLZ_WT01)	06:09		06:37 (SAM_WT09)	06:57		19:10 (KLZ_WT20)	07:44		08:14 (SAM_WT06)	07:36		08:04 (SAM_WT04)	08:26		09:17 (SAM_WT05)
	22:04	06:10 (KLZ_WT01)	21:34		06:38 (SAM_WT09)	20:33		20:03 (EVE_WT01)	19:25		18:58 (KLZ_WT13)	17:21		11:25 (KLZ_WT23)	16:42		14:56 (KLZ_WT21)
2	05:34	06:04 (KLZ_WT01)	06:10			06:59		19:09 (KLZ_WT20)	07:46		08:17 (SAM_WT06)	07:38		08:06 (SAM_WT04)	08:27		09:17 (SAM_WT05)
	22:04	06:09 (KLZ_WT01)	21:32			20:31		20:03 (EVE_WT01)	19:23		08:32 (SAM_WT06)	17:19		11:26 (KLZ_WT23)	16:41		14:57 (KLZ_WT21)
3	05:35	06:05 (KLZ_WT01)	06:12			07:00		07:26 (SWB_WT01_RP)	07:48		08:19 (SAM_WT06)	07:40		08:07 (SAM_WT04)	08:29		09:16 (SAM_WT05)
	22:04	06:09 (KLZ_WT01)	21:30			20:29		20:03 (EVE_WT01)	19:21		08:28 (SAM_WT06)	17:17		11:26 (KLZ_WT23)	16:41		14:57 (KLZ_WT21)
4	05:36	06:06 (KLZ_WT01)	06:13		20:07 (KLZ_WT06)	07:02		07:27 (SWB_WT01_RP)	07:49			07:42		08:09 (SAM_WT04)	08:30		09:16 (SAM_WT05)
	22:03	06:09 (KLZ_WT01)	21:29		20:11 (KLZ_WT06)	20:27		20:00 (EVE_WT01)	19:19			17:16		11:27 (KLZ_WT23)	16:40		14:58 (KLZ_WT21)
5	05:37	06:06 (KLZ_WT01)	06:15		20:04 (KLZ_WT06)	07:03		19:07 (KLZ_WT20)	07:51			07:43		08:11 (SAM_WT04)	08:31		09:15 (SAM_WT05)
	22:03	06:07 (KLZ_WT01)	21:27		20:15 (KLZ_WT06)	20:24		19:58 (EVE_WT01)	19:16			17:14		11:27 (KLZ_WT23)	16:40		14:59 (KLZ_WT21)
6	05:37		06:16		20:01 (KLZ_WT06)	07:05		19:05 (KLZ_WT20)	07:53			07:45		08:13 (SAM_WT04)	08:33		09:15 (SAM_WT05)
	22:02		21:25		20:16 (KLZ_WT06)	20:22		19:55 (EVE_WT01)	19:14			17:12		11:28 (KLZ_WT23)	16:39		14:59 (KLZ_WT21)
7	05:38		06:18		20:00 (KLZ_WT06)	07:06		19:05 (KLZ_WT20)	07:54			07:47		08:30 (SAM_WT07)	08:34		09:16 (SAM_WT05)
	22:02		21:24		20:18 (KLZ_WT06)	20:20		19:54 (EVE_WT01)	19:12			17:11		11:28 (KLZ_WT23)	16:39		15:32 (KLZ_WT22)
8	05:39		06:20		19:59 (KLZ_WT06)	07:08		19:04 (KLZ_WT20)	07:56			07:49		08:30 (SAM_WT07)	08:35		09:15 (SAM_WT05)
	22:01		21:22		20:19 (KLZ_WT06)	20:18		19:51 (EVE_WT01)	19:10			17:09		11:28 (KLZ_WT23)	16:39		15:34 (KLZ_WT22)
9	05:40		06:21		19:57 (KLZ_WT06)	07:10		19:05 (KLZ_WT20)	07:57			07:50		08:31 (SAM_WT07)	08:36		09:15 (SAM_WT05)
	22:00		21:20		20:19 (KLZ_WT06)	20:15		19:49 (KLZ_WT12)	19:08			17:07		11:29 (KLZ_WT23)	16:38		15:35 (KLZ_WT22)
10	05:41		06:23		19:57 (KLZ_WT06)	07:11		19:04 (KLZ_WT20)	07:59			07:52		08:31 (SAM_WT07)	08:37		09:15 (SAM_WT05)
	22:00		21:18		20:20 (KLZ_WT06)	20:13		19:46 (KLZ_WT12)	19:05			17:06		11:29 (KLZ_WT23)	16:38		15:36 (KLZ_WT22)
11	05:42		06:24		19:55 (KLZ_WT06)	07:13		19:04 (KLZ_WT20)	08:01			07:54		08:32 (SAM_WT07)	08:38		09:16 (SAM_WT05)
	21:59		21:16		20:20 (KLZ_WT06)	20:11		19:43 (KLZ_WT20)	19:03			17:04		11:29 (KLZ_WT23)	16:38		15:37 (KLZ_WT22)
12	05:43		06:26		19:55 (KLZ_WT06)	07:14		19:04 (KLZ_WT20)	08:02			07:56		08:32 (SAM_WT07)	08:39		09:16 (SAM_WT05)
	21:58		21:14		20:21 (KLZ_WT06)	20:09		19:42 (KLZ_WT20)	19:01			17:03		11:29 (KLZ_WT23)	16:38		15:38 (KLZ_WT22)
13	05:44		06:27		19:54 (KLZ_WT06)	07:16		19:05 (KLZ_WT20)	08:04			07:57		08:33 (SAM_WT07)	08:40		09:16 (SAM_WT05)
	21:57		21:12		20:20 (KLZ_WT06)	20:06		19:40 (KLZ_WT20)	18:59			17:01		11:29 (KLZ_WT23)	16:38		15:39 (KLZ_WT22)
14	05:45		06:29		19:54 (KLZ_WT06)	07:17		19:04 (KLZ_WT20)	08:06			07:59		08:34 (SAM_WT07)	08:41		09:17 (SAM_WT05)
	21:56		21:11		20:21 (KLZ_WT06)	20:04		19:37 (KLZ_WT20)	18:57			17:00		11:29 (KLZ_WT23)	16:38		15:40 (KLZ_WT22)
15	05:46		06:30		19:54 (KLZ_WT06)	07:19		08:26 (SAM_WT06)	08:07			08:01		08:35 (SAM_WT07)	08:42		09:17 (SAM_WT05)
	21:56		21:09		20:20 (KLZ_WT06)	20:02		19:35 (KLZ_WT20)	18:55			16:58		11:29 (KLZ_WT23)	16:38		15:40 (KLZ_WT22)
16	05:48		06:32		07:00 (SAM_WT03)	07:21		08:21 (SAM_WT06)	08:09			08:02		08:37 (SAM_WT07)	08:43		09:18 (SAM_WT05)
	21:55		21:07		20:20 (KLZ_WT06)	19:59		19:33 (KLZ_WT20)	18:52			16:57		16:26 (KLZ_WT15)	16:38		15:41 (KLZ_WT22)
17	05:49		06:33		07:00 (SAM_WT03)	07:22		08:19 (SAM_WT06)	08:11			08:04		08:39 (SAM_WT07)	08:44		09:18 (SAM_WT05)
	21:54		21:05		20:19 (KLZ_WT06)	19:57		19:31 (KLZ_WT20)	18:50			16:56		16:25 (KLZ_WT15)	16:38		15:42 (KLZ_WT22)
18	05:50		06:35		07:02 (SAM_WT03)	07:24		08:17 (SAM_WT06)	08:12			08:06		08:40 (SAM_WT07)	08:45		09:18 (SAM_WT05)
	21:52		21:03		20:19 (KLZ_WT06)	19:55		19:28 (KLZ_WT20)	18:48			16:55		16:23 (KLZ_WT15)	16:39		15:42 (KLZ_WT22)
19	05:51		06:37		07:03 (SAM_WT03)	07:25		07:51 (SAM_WT08)	08:14		11:47 (KLZ_WT23)	08:07		08:44 (SAM_WT07)	08:45		09:19 (SAM_WT05)
	21:51		21:01		20:18 (KLZ_WT06)	19:53		19:26 (KLZ_WT20)	18:46		11:57 (KLZ_WT23)	16:53		16:22 (KLZ_WT15)	16:39		15:43 (KLZ_WT22)
20	05:52		06:38		07:05 (SAM_WT03)	07:27		07:52 (SAM_WT08)	08:16		08:57 (SAM_WT11)	08:09		10:23 (KLZ_WT23)	08:46		09:20 (SAM_WT05)
	21:50		20:59		20:18 (KLZ_WT06)	19:50		19:24 (KLZ_WT20)	18:44		12:04 (KLZ_WT23)	16:52		14:43 (KLZ_WT21)	16:39		15:44 (KLZ_WT22)
21	05:54		06:40		19:55 (KLZ_WT06)	07:28		07:53 (SAM_WT08)	08:17		08:54 (SAM_WT11)	08:11		10:24 (KLZ_WT23)	08:47		09:20 (SAM_WT05)
	21:49		20:57		20:16 (KLZ_WT06)	19:48		08:41 (SAM_WT06)	18:42		12:08 (KLZ_WT23)	16:51		14:45 (KLZ_WT21)	16:40		15:44 (KLZ_WT22)
22	05:55		06:41		19:56 (KLZ_WT06)	07:30		07:55 (SAM_WT08)	08:19		08:52 (SAM_WT11)	08:12		10:25 (KLZ_WT23)	08:47		09:21 (SAM_WT05)
	21:48		20:55		20:14 (KLZ_WT06)	19:46		08:42 (SAM_WT06)	18:40		12:11 (KLZ_WT23)	16:50		14:47 (KLZ_WT21)	16:40		15:45 (KLZ_WT22)
23	05:56		06:43		19:57 (KLZ_WT06)	07:32		07:56 (SAM_WT08)	08:21		08:51 (SAM_WT11)	08:14		10:25 (KLZ_WT23)	08:48		09:21 (SAM_WT05)
	21:47		20:52		20:12 (KLZ_WT06)	19:44		19:08 (KLZ_WT13)	18:38		12:14 (KLZ_WT23)	16:49		14:48 (KLZ_WT21)	16:41		15:45 (KLZ_WT22)
24	05:58		06:44		20:00 (KLZ_WT06)	07:33		07:58 (SAM_WT08)	08:23		08:51 (SAM_WT11)	08:16		10:26 (KLZ_WT23)	08:48		09:21 (SAM_WT05)
	21:45		20:50		20:10 (KLZ_WT06)	19:41		19:10 (KLZ_WT13)	18:36		12:16 (KLZ_WT23)	16:48		14:50 (KLZ_WT21)	16:41		15:45 (KLZ_WT22)
25	05:59		06:46		07:12 (SAM_WT02)	07:35		08:11 (SAM_WT06)	07:24		07:51 (SAM_WT11)	08:17		10:27 (KLZ_WT23)	08:48		09:22 (SAM_WT05)
	21:44		20:48		19:31 (KLZ_WT20)	19:39		19:11 (KLZ_WT13)	17:34		11:18 (KLZ_WT23)	16:47		14:51 (KLZ_WT21)	16:42		15:46 (KLZ_WT22)
26	06:00		06:48		07:14 (SAM_WT02)	07:36		08:11 (SAM_WT06)	07:26		07:53 (SAM_WT11)	08:19		10:27 (KLZ_WT23)	08:49		09:22 (SAM_WT05)
	21:43		20:46		19:37 (KLZ_WT20)	19:37		19:10 (KLZ_WT13)	17:32		11:19 (KLZ_WT23)	16:46		14:51 (KLZ_WT21)	16:43		15:46 (KLZ_WT22)
27	06:02		06:49		07:15 (SAM_WT02)	07:38		08:12 (SAM_WT06)	07:28		07:54 (SAM_WT11)	08:20		10:28 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:41		20:44		19:39 (KLZ_WT20)	19:34		19:08 (KLZ_WT13)	17:30		11:20 (KLZ_WT23)	16:45		14:53 (KLZ_WT21)	16:43		15:46 (KLZ_WT22)
28	06:03		06:51		19:17 (KLZ_WT20)	07:40		08:12 (SAM_WT06)	07:30		07:56 (SAM_WT11)	08:22		10:29 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:40		20:42		19:42 (KLZ_WT20)	19:32		19:05 (KLZ_WT13)	17:28		11:21 (KLZ_WT23)	16:44		14:54 (KLZ_WT21)	16:44		15:46 (KLZ_WT22)
29	06:05		06:52		19:15 (KLZ_WT20)	07:41		08:13 (SAM_WT06)	07:31		07:58 (SAM_WT11)	08:23		10:29 (KLZ_WT23)	08:49		09:23 (SAM_WT05)
	21:38		20:40		19:56 (KLZ_WT12)	19:30		19:03 (KLZ_WT13)	17:26		11:23 (KLZ_WT23)	16:43		14:54 (KLZ_WT21)	16:45		15:47 (KLZ_WT22)
30	06:06		06:54		19:13 (KLZ_WT20)	07:43		08:13 (SAM_WT06)	07:33		08:00 (SAM_WT11)	08:25		10:30 (KLZ_WT23)	08:50		09:24 (SAM_WT05)
	21:37		20:38		19:59 (KLZ_WT12)	19:28		19:00 (KLZ_WT13)	17:25		11:24 (KLZ_WT23)	16:43		14:55 (KLZ_WT21)	16:46		15:47 (KLZ_WT22)
31	06:08	06:36 (SAM_WT09)	06:55		19:11 (KLZ_WT20)				07:35		08:02 (SAM_WT04)				08:50		09:25 (SAM_WT05)
	21:35	06:37 (SAM_WT09)	20:35		20:01 (EVE_WT01)				17:23		11:25 (KLZ_WT23)				16:47		15:47 (KLZ_WT22)
Potential sun hours	498		452			380			333			269			248		
Total, worst case		20		644			1274			938			2883			3771	
Sun reduction		0,45		0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98		0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,71		0,58			0,61			0,58			0,61			0,65	
Total reduction		0,31		0,27			0,26			0,21			0,16			0,14	
Total, real		6		172			327			194			457			538	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

January			February			March			April			May			June		
1	08:50	10:08 (SAM_WT07)	08:24			07:32		17:40 (KLZ_WT20)	07:23		07:45 (SWB_WT01_RP)	06:20			05:36		06:24 (KLZ_WT01)
	16:48	77 15:14 (KLZ_WT21)	17:35			18:25	19	17:59 (KLZ_WT13)	20:17	31	19:30 (KLZ_WT05)	21:06			21:51	79	19:56 (KLZ_WT04)
2	08:50	10:09 (SAM_WT07)	08:22			07:30		17:39 (KLZ_WT20)	07:21		07:43 (SWB_WT01_RP)	06:18			05:36		06:25 (KLZ_WT01)
	16:49	74 15:14 (KLZ_WT21)	17:36			18:26	22	18:01 (KLZ_WT13)	20:19	32	19:31 (KLZ_WT05)	21:08			21:52	78	19:57 (KLZ_WT04)
3	08:49	10:10 (SAM_WT07)	08:21			07:28		17:39 (KLZ_WT20)	07:19		19:01 (KLZ_WT05)	06:16			05:35		06:03 (SAM_WT10)
	16:50	70 15:13 (KLZ_WT21)	17:38			18:28	24	18:03 (EVE_WT02)	20:20	30	19:31 (KLZ_WT05)	21:09			21:53	79	19:57 (KLZ_WT04)
4	08:49	10:10 (SAM_WT07)	08:19		08:57 (SAM_WT06)	07:26		17:38 (KLZ_WT20)	07:16		19:01 (KLZ_WT05)	06:15		06:39 (SAM_WT09)	05:34		06:02 (SAM_WT10)
	16:51	65 15:12 (KLZ_WT21)	17:40	7	09:04 (SAM_WT06)	18:30	27	18:05 (EVE_WT02)	20:22	30	19:31 (KLZ_WT05)	21:11	2	06:41 (SAM_WT09)	21:54	81	19:58 (KLZ_WT04)
5	08:49	10:12 (SAM_WT07)	08:18		08:53 (SAM_WT06)	07:24		17:37 (KLZ_WT20)	07:14		19:01 (KLZ_WT05)	06:13		06:37 (SAM_WT09)	05:33		06:02 (SAM_WT10)
	16:52	60 15:11 (KLZ_WT21)	17:42	15	09:08 (SAM_WT06)	18:32	29	18:06 (EVE_WT02)	20:24	30	19:31 (KLZ_WT05)	21:13	3	06:40 (SAM_WT09)	21:55	81	19:59 (KLZ_WT04)
6	08:49	10:12 (SAM_WT07)	08:16		08:51 (SAM_WT06)	07:21		17:44 (SAM_WT08)	07:12		07:34 (SAM_WT02)	06:11		06:35 (SAM_WT09)	05:33		06:01 (SAM_WT10)
	16:54	52 13:14 (KLZ_WT23)	17:44	19	09:10 (SAM_WT06)	18:33	33	18:07 (KLZ_WT20)	20:25	31	19:30 (KLZ_WT05)	21:14	4	06:39 (SAM_WT09)	21:56	81	19:59 (KLZ_WT04)
7	08:48	09:18 (SAM_WT04)	08:15		08:49 (SAM_WT06)	07:19		17:42 (SAM_WT08)	07:10		07:32 (SAM_WT02)	06:09		06:34 (SAM_WT09)	05:32		06:01 (SAM_WT10)
	16:55	49 13:14 (KLZ_WT23)	17:45	22	09:11 (SAM_WT06)	18:35	35	18:07 (KLZ_WT20)	20:27	32	19:29 (KLZ_WT05)	21:16	4	06:38 (SAM_WT09)	21:56	82	20:00 (KLZ_WT04)
8	08:48	09:17 (SAM_WT04)	08:13		08:48 (SAM_WT06)	07:17		17:40 (SAM_WT08)	07:08		07:30 (SAM_WT02)	06:08			05:32		06:00 (SAM_WT10)
	16:56	48 13:14 (KLZ_WT23)	17:47	25	09:13 (SAM_WT06)	18:37	38	18:08 (KLZ_WT06)	20:29	31	19:28 (KLZ_WT05)	21:17			21:57	86	20:00 (KLZ_WT04)
9	08:47	09:17 (SAM_WT04)	08:11		08:47 (SAM_WT06)	07:15		17:37 (SAM_WT08)	07:05		07:28 (SAM_WT02)	06:06			05:31		06:00 (SAM_WT10)
	16:57	43 13:14 (KLZ_WT23)	17:49	27	09:14 (SAM_WT06)	18:38	40	18:08 (KLZ_WT06)	20:30	32	19:28 (KLZ_WT05)	21:19			21:58	89	20:00 (KLZ_WT04)
10	08:47	09:16 (SAM_WT04)	08:09		08:46 (SAM_WT06)	07:13		17:35 (SAM_WT08)	07:03		19:03 (KLZ_WT05)	06:04			05:31		06:00 (SAM_WT10)
	16:59	35 13:13 (KLZ_WT23)	17:51	29	09:15 (SAM_WT06)	18:40	42	18:09 (KLZ_WT06)	20:32	23	19:26 (KLZ_WT05)	21:21			21:59	89	20:01 (KLZ_WT04)
11	08:46	09:15 (SAM_WT04)	08:08		08:45 (SAM_WT06)	07:10		17:34 (SAM_WT08)	07:01		19:04 (KLZ_WT05)	06:03			05:30		05:59 (SAM_WT10)
	17:00	34 13:12 (KLZ_WT23)	17:53	31	09:16 (SAM_WT06)	18:42	44	18:17 (KLZ_WT12)	20:33	20	19:24 (KLZ_WT05)	21:22			22:00	92	20:01 (KLZ_WT04)
12	08:46	09:15 (SAM_WT04)	08:06		08:45 (SAM_WT06)	07:08		17:36 (SAM_WT08)	06:59		19:06 (KLZ_WT05)	06:01			05:30		05:59 (SAM_WT10)
	17:02	34 13:12 (KLZ_WT23)	17:54	31	09:16 (SAM_WT06)	18:44	42	18:19 (KLZ_WT12)	20:35	16	19:22 (KLZ_WT05)	21:24			22:00	90	20:01 (KLZ_WT04)
13	08:45	09:14 (SAM_WT04)	08:04		08:44 (SAM_WT06)	07:06		17:40 (KLZ_WT20)	06:57		07:19 (SAM_WT03)	05:59			05:30		05:59 (SAM_WT10)
	17:03	32 13:11 (KLZ_WT23)	17:56	33	09:17 (SAM_WT06)	18:45	37	18:20 (KLZ_WT12)	20:37	14	19:20 (KLZ_WT05)	21:25			22:01	91	20:02 (KLZ_WT04)
14	08:44	09:13 (SAM_WT04)	08:02		08:44 (SAM_WT06)	07:04		17:42 (KLZ_WT20)	06:55		07:17 (SAM_WT03)	05:58		06:29 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:05	30 13:09 (KLZ_WT23)	17:58	33	09:17 (SAM_WT06)	18:47	37	18:22 (KLZ_WT12)	20:38	5	07:22 (SAM_WT03)	21:27	19	19:30 (KLZ_WT04)	22:02	91	20:02 (KLZ_WT04)
15	08:44	09:12 (SAM_WT04)	08:00		08:43 (SAM_WT06)	07:02		17:45 (KLZ_WT20)	06:52		07:15 (SAM_WT03)	05:56		06:27 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:06	27 13:07 (KLZ_WT23)	18:00	34	09:17 (SAM_WT06)	18:49	35	18:24 (KLZ_WT12)	20:40	7	07:22 (SAM_WT03)	21:28	33	19:35 (KLZ_WT04)	22:02	94	20:03 (KLZ_WT04)
16	08:43	09:11 (SAM_WT04)	07:58		08:43 (SAM_WT06)	06:59		17:53 (KLZ_WT06)	06:50		07:13 (SAM_WT03)	05:55		06:26 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:08	15 09:26 (SAM_WT11)	18:02	34	09:17 (SAM_WT06)	18:50	28	18:26 (KLZ_WT12)	20:42	8	07:21 (SAM_WT03)	21:30	40	19:38 (KLZ_WT04)	22:03	95	20:03 (KLZ_WT04)
17	08:42	09:10 (SAM_WT04)	07:56		08:43 (SAM_WT06)	06:57		17:55 (KLZ_WT06)	06:48		07:12 (SAM_WT03)	05:53		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:09	17 09:27 (SAM_WT11)	18:03	34	09:17 (SAM_WT06)	18:52	21	18:25 (KLZ_WT12)	20:43	8	07:20 (SAM_WT03)	21:31	47	19:39 (KLZ_WT04)	22:03	94	20:03 (KLZ_WT04)
18	08:41	09:09 (SAM_WT04)	07:55		08:43 (SAM_WT06)	06:55		18:13 (KLZ_WT12)	06:46		07:13 (SAM_WT03)	05:52		06:24 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:11	18 09:27 (SAM_WT11)	18:05	34	09:17 (SAM_WT06)	18:54	11	18:24 (KLZ_WT12)	20:45	5	07:18 (SAM_WT03)	21:33	52	19:41 (KLZ_WT04)	22:03	95	20:04 (KLZ_WT04)
19	08:40	09:08 (SAM_WT11)	07:53		08:44 (SAM_WT06)	06:53		18:15 (KLZ_WT12)	06:44			05:51		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:12	19 09:27 (SAM_WT11)	18:07	32	09:16 (SAM_WT06)	18:55	9	18:31 (EVE_WT01)	20:47			21:34	56	19:43 (KLZ_WT04)	22:04	96	20:04 (KLZ_WT04)
20	08:39	09:07 (SAM_WT11)	07:51		08:44 (SAM_WT06)	06:50		18:29 (EVE_WT01)	06:42			05:49		06:23 (KLZ_WT01)	05:29		05:59 (SAM_WT10)
	17:14	21 09:28 (SAM_WT11)	18:09	32	09:16 (SAM_WT06)	18:57	3	18:32 (EVE_WT01)	20:48			21:35	60	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
21	08:38	09:05 (SAM_WT11)	07:49		08:45 (SAM_WT06)	06:48		18:27 (EVE_WT01)	06:40			05:48		06:22 (KLZ_WT01)	05:30		05:59 (SAM_WT10)
	17:16	22 09:27 (SAM_WT11)	18:11	30	09:15 (SAM_WT06)	18:59	6	18:33 (EVE_WT01)	20:50			21:37	63	19:45 (KLZ_WT04)	22:04	97	20:04 (KLZ_WT04)
22	08:37	09:05 (SAM_WT11)	07:47		08:45 (SAM_WT06)	06:46		18:27 (EVE_WT01)	06:38		07:01 (SAM_WT01)	05:47		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:17	23 09:28 (SAM_WT11)	18:12	29	09:14 (SAM_WT06)	19:00	8	18:35 (EVE_WT01)	20:52	2	07:03 (SAM_WT01)	21:38	66	19:47 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
23	08:36	09:06 (SAM_WT11)	07:45		08:46 (SAM_WT06)	06:43		18:28 (EVE_WT01)	06:36		06:59 (SAM_WT01)	05:45		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:19	22 09:28 (SAM_WT11)	18:14	27	09:13 (SAM_WT06)	19:02	9	18:37 (EVE_WT01)	20:53	2	07:01 (SAM_WT01)	21:40	68	19:48 (KLZ_WT04)	22:05	97	20:05 (KLZ_WT04)
24	08:35	09:06 (SAM_WT11)	07:43		08:48 (SAM_WT06)	06:41		18:28 (EVE_WT01)	06:34		06:57 (SAM_WT01)	05:44		06:22 (KLZ_WT01)	05:30		06:00 (SAM_WT10)
	17:21	21 09:27 (SAM_WT11)	18:16	23	09:11 (SAM_WT06)	19:04	10	18:38 (EVE_WT01)	20:55	2	06:59 (SAM_WT01)	21:41	71	19:49 (KLZ_WT04)	22:05	96	20:05 (KLZ_WT04)
25	08:34	09:07 (SAM_WT11)	07:40		08:49 (SAM_WT06)	06:39		18:30 (EVE_WT01)	06:32			05:43		06:22 (KLZ_WT01)	05:31		06:00 (SAM_WT10)
	17:22	20 09:27 (SAM_WT11)	18:18	25	17:52 (KLZ_WT20)	19:05	6	18:36 (EVE_WT01)	20:56			21:42	72	19:50 (KLZ_WT04)	22:05	95	20:05 (KLZ_WT04)
26	08:32	09:09 (SAM_WT11)	07:38		08:51 (SAM_WT06)	06:37		18:15 (KLZ_WT05)	06:30			05:42		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:24	18 09:27 (SAM_WT11)	18:19	24	17:54 (KLZ_WT13)	19:07	7	18:22 (KLZ_WT05)	20:58			21:43	74	19:51 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
27	08:31	09:09 (SAM_WT11)	07:36		08:55 (SAM_WT06)	06:34		18:11 (KLZ_WT05)	06:28			05:41		06:22 (KLZ_WT01)	05:31		06:01 (SAM_WT10)
	17:26	16 09:25 (SAM_WT11)	18:21	21	17:56 (KLZ_WT13)	19:09	14	18:25 (KLZ_WT05)	21:00			21:45	75	19:52 (KLZ_WT04)	22:05	94	20:05 (KLZ_WT04)
28	08:30	09:11 (SAM_WT11)	07:34		17:41 (KLZ_WT20)	06:32		18:08 (KLZ_WT05)	06:26			05:40		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:27	14 09:25 (SAM_WT11)	18:23	16	17:57 (KLZ_WT13)	19:10	18	18:26 (KLZ_WT05)	21:01			21:46	75	19:52 (KLZ_WT04)	22:05	93	20:06 (KLZ_WT04)
29	08:28	09:13 (SAM_WT11)				07:30		19:06 (KLZ_WT05)	06:24			05:39		06:22 (KLZ_WT01)	05:32		06:02 (SAM_WT10)
	17:29	9 09:22 (SAM_WT11)				20:12	22	19:28 (KLZ_WT05)	21:03			21:47	77	19:53 (KLZ_WT04)	22:05	91	20:05 (KLZ_WT04)
30	08:27					07:28		19:05 (KLZ_WT05)	06:22			05:38		06:23 (KLZ_WT01)	05:33		06:03 (SAM_WT10)
	17:31					20:14	25	19:30 (KLZ_WT05)	21:05			21:48	78	19:55 (KLZ_WT04)	22:04	90	20:06 (KLZ_WT04)
31	08:25					07:25		07:48 (SWB_WT01_RP)				05:37		06:24 (KLZ_WT01)			
	17:33					20:15	29	19:31 (KLZ_WT05)				21:49	77	19:55 (KLZ_WT04)			
Potential sun hours	262		279			367			415			482			495		
Total, worst case	985		667			730			391			1116			2704		
Sun reduction	0,25		0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,98		0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,61		0,56			0,64			0,63			0,59			0,59		
Total reduction	0,15		0,16			0,24			0,28			0,26			0,26		
Total, real	147		110			173			111			294			690		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 7 - Christoffel Columbuslaan 23, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT10)	06:09			06:57		19:04 (KLZ_WT05)	07:44		18:19 (KLZ_WT20)	07:36		08:16 (SAM_WT06)	08:26		08:57 (SAM_WT04)
	22:04	92	20:06 (KLZ_WT04)	21:34			20:33	20	19:24 (KLZ_WT05)	19:25	35	18:58 (KLZ_WT12)	17:21	28	08:44 (SAM_WT06)	16:42	34	12:54 (KLZ_WT23)
2	05:34		06:04 (SAM_WT10)	06:10			06:59		19:01 (KLZ_WT05)	07:46		08:14 (SAM_WT08)	07:38		08:17 (SAM_WT06)	08:27		08:59 (SAM_WT04)
	22:04	90	20:05 (KLZ_WT04)	21:32			20:31	23	19:24 (KLZ_WT05)	19:23	43	18:56 (KLZ_WT12)	17:19	27	08:44 (SAM_WT06)	16:41	35	12:56 (KLZ_WT23)
3	05:35		06:05 (SAM_WT10)	06:12			07:00		07:26 (SAM_WT02)	07:48		08:12 (SAM_WT08)	07:40		08:17 (SAM_WT06)	08:29		09:00 (SAM_WT04)
	22:04	90	20:06 (KLZ_WT04)	21:30			20:29	32	19:26 (KLZ_WT05)	19:21	43	18:54 (KLZ_WT12)	17:17	25	08:42 (SAM_WT06)	16:41	43	12:57 (KLZ_WT23)
4	05:36		06:06 (SAM_WT10)	06:13			07:02		07:27 (SAM_WT02)	07:49		08:14 (SAM_WT08)	07:42		08:19 (SAM_WT06)	08:30		09:02 (SAM_WT04)
	22:03	88	20:06 (KLZ_WT04)	21:29			20:27	31	19:25 (KLZ_WT05)	19:19	41	18:46 (KLZ_WT06)	17:16	22	08:41 (SAM_WT06)	16:40	47	12:59 (KLZ_WT23)
5	05:37		06:06 (SAM_WT10)	06:15			07:03		07:29 (SAM_WT02)	07:51		08:16 (SAM_WT08)	07:43		08:21 (SAM_WT06)	08:31		09:03 (SAM_WT04)
	22:03	83	20:05 (KLZ_WT04)	21:27			20:24	32	19:26 (KLZ_WT05)	19:16	39	18:45 (KLZ_WT06)	17:14	18	08:39 (SAM_WT06)	16:40	49	12:59 (KLZ_WT23)
6	05:37		06:07 (SAM_WT10)	06:16		06:44 (SAM_WT09)	07:05		07:30 (SAM_WT02)	07:52		08:17 (SAM_WT08)	07:45		08:23 (SAM_WT06)	08:33		09:59 (SAM_WT07)
	22:02	82	20:05 (KLZ_WT04)	21:25	4	06:48 (SAM_WT09)	20:22	31	19:26 (KLZ_WT05)	19:14	36	18:43 (KLZ_WT06)	17:12	14	08:37 (SAM_WT06)	16:39	51	13:00 (KLZ_WT23)
7	05:38		06:08 (SAM_WT10)	06:18		06:46 (SAM_WT09)	07:06		18:57 (KLZ_WT05)	07:54		08:19 (SAM_WT08)	07:47		08:27 (SAM_WT06)	08:34		09:59 (SAM_WT07)
	22:02	82	20:05 (KLZ_WT04)	21:24	3	06:49 (SAM_WT09)	20:20	29	19:26 (KLZ_WT05)	19:12	34	18:43 (KLZ_WT20)	17:11	6	08:33 (SAM_WT06)	16:39	59	14:57 (KLZ_WT21)
8	05:39		06:09 (SAM_WT10)	06:19		06:47 (SAM_WT09)	07:08		18:55 (KLZ_WT05)	07:56		08:21 (SAM_WT08)	07:49			08:35		09:59 (SAM_WT07)
	22:01	81	20:05 (KLZ_WT04)	21:22	3	06:50 (SAM_WT09)	20:18	30	19:25 (KLZ_WT05)	19:10	32	18:43 (KLZ_WT20)	17:09			16:39	64	15:00 (KLZ_WT21)
9	05:40		06:10 (SAM_WT10)	06:21		06:48 (SAM_WT09)	07:10		18:56 (KLZ_WT05)	07:57		18:12 (KLZ_WT20)	07:50			08:36		09:58 (SAM_WT07)
	22:00	80	20:05 (KLZ_WT04)	21:20	1	06:49 (SAM_WT09)	20:15	29	19:25 (KLZ_WT05)	19:08	28	18:40 (EVE_WT02)	17:07			16:38	69	15:01 (KLZ_WT21)
10	05:41		06:11 (SAM_WT10)	06:23			07:11		07:36 (SWB_WT01_RP)	07:59		18:13 (KLZ_WT20)	07:52			08:37		09:58 (SAM_WT07)
	22:00	79	20:05 (KLZ_WT04)	21:18			20:13	32	19:24 (KLZ_WT05)	19:05	25	18:38 (EVE_WT02)	17:06			16:38	74	15:03 (KLZ_WT21)
11	05:42		06:32 (KLZ_WT01)	06:24			07:13		07:38 (SWB_WT01_RP)	08:01		18:13 (KLZ_WT20)	07:54			08:38		09:58 (SAM_WT07)
	21:59	78	20:04 (KLZ_WT04)	21:16			20:11	31	19:23 (KLZ_WT05)	19:03	23	18:36 (KLZ_WT13)	17:04			16:38	77	15:04 (KLZ_WT21)
12	05:43		06:32 (KLZ_WT01)	06:26			07:14		07:39 (SWB_WT01_RP)	08:02		18:13 (KLZ_WT20)	07:56			08:39		09:58 (SAM_WT07)
	21:58	78	20:04 (KLZ_WT04)	21:14			20:09	29	19:22 (KLZ_WT05)	19:01	20	18:33 (KLZ_WT13)	17:03			16:38	79	15:05 (KLZ_WT21)
13	05:44		06:32 (KLZ_WT01)	06:27			07:16		07:41 (SWB_WT01_RP)	08:04		18:14 (KLZ_WT20)	07:57		08:45 (SAM_WT11)	08:40		09:58 (SAM_WT07)
	21:57	78	20:04 (KLZ_WT04)	21:12			20:06	26	19:21 (KLZ_WT05)	18:59	17	18:31 (KLZ_WT13)	17:01	9	08:54 (SAM_WT11)	16:38	82	15:06 (KLZ_WT21)
14	05:45		06:32 (KLZ_WT01)	06:29			07:17		18:56 (KLZ_WT05)	08:06		18:15 (KLZ_WT20)	07:59		08:43 (SAM_WT11)	08:41		09:59 (SAM_WT07)
	21:56	77	20:03 (KLZ_WT04)	21:11			20:04	23	19:19 (KLZ_WT05)	18:57	14	18:29 (KLZ_WT13)	17:00	14	08:57 (SAM_WT11)	16:38	83	15:07 (KLZ_WT21)
15	05:46		06:32 (KLZ_WT01)	06:30			07:19		18:58 (KLZ_WT05)	08:07		09:25 (SAM_WT06)	08:01		08:42 (SAM_WT11)	08:42		09:59 (SAM_WT07)
	21:56	76	20:02 (KLZ_WT04)	21:09			20:02	19	19:17 (KLZ_WT05)	18:55	23	18:27 (KLZ_WT13)	16:58	16	08:58 (SAM_WT11)	16:38	84	15:07 (KLZ_WT21)
16	05:47		06:32 (KLZ_WT01)	06:32			07:21		18:59 (KLZ_WT05)	08:09		09:22 (SAM_WT06)	08:02		08:42 (SAM_WT11)	08:43		09:59 (SAM_WT07)
	21:55	75	20:02 (KLZ_WT04)	21:07			19:59	15	19:14 (KLZ_WT05)	18:52	23	18:24 (KLZ_WT20)	16:57	18	09:00 (SAM_WT11)	16:38	87	15:08 (KLZ_WT21)
17	05:49		06:31 (KLZ_WT01)	06:33			07:22		19:02 (KLZ_WT05)	08:11		09:20 (SAM_WT06)	08:04		08:41 (SAM_WT11)	08:44		10:00 (SAM_WT07)
	21:54	75	20:01 (KLZ_WT04)	21:05			19:57	9	19:11 (KLZ_WT05)	18:50	23	18:22 (KLZ_WT20)	16:56	20	09:01 (SAM_WT11)	16:38	86	15:09 (KLZ_WT21)
18	05:50		06:31 (KLZ_WT01)	06:35			07:24		19:18 (EVE_WT01)	08:12		09:18 (SAM_WT06)	08:06		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:52	73	20:00 (KLZ_WT04)	21:03			19:55	5	19:23 (EVE_WT01)	18:48	25	09:43 (SAM_WT06)	16:55	21	09:01 (SAM_WT11)	16:39	88	15:09 (KLZ_WT21)
19	05:51		06:31 (KLZ_WT01)	06:37		07:03 (SAM_WT01)	07:25		19:16 (EVE_WT01)	08:14		09:17 (SAM_WT06)	08:07		08:40 (SAM_WT11)	08:45		10:00 (SAM_WT07)
	21:51	71	19:59 (KLZ_WT04)	21:01	2	07:05 (SAM_WT01)	19:53	10	19:26 (EVE_WT01)	18:46	28	09:45 (SAM_WT06)	16:53	22	09:02 (SAM_WT11)	16:39	89	15:10 (KLZ_WT21)
20	05:52		06:31 (KLZ_WT01)	06:38		07:05 (SAM_WT01)	07:27		19:15 (EVE_WT01)	08:16		09:16 (SAM_WT06)	08:09		08:40 (SAM_WT11)	08:46		10:01 (SAM_WT07)
	21:50	70	19:58 (KLZ_WT04)	20:59	2	07:07 (SAM_WT01)	19:50	9	19:24 (EVE_WT01)	18:44	30	09:46 (SAM_WT06)	16:52	23	09:03 (SAM_WT11)	16:39	88	15:11 (KLZ_WT21)
21	05:54		06:32 (KLZ_WT01)	06:40		07:06 (SAM_WT01)	07:28		19:13 (EVE_WT01)	08:17		09:15 (SAM_WT06)	08:11		08:41 (SAM_WT11)	08:47		10:01 (SAM_WT07)
	21:49	68	19:58 (KLZ_WT04)	20:57	1	07:07 (SAM_WT01)	19:48	8	19:21 (EVE_WT01)	18:42	31	09:46 (SAM_WT06)	16:51	22	09:03 (SAM_WT11)	16:40	88	15:11 (KLZ_WT21)
22	05:55		06:32 (KLZ_WT01)	06:41			07:30		19:13 (EVE_WT01)	08:19		09:14 (SAM_WT06)	08:12		08:43 (SAM_WT11)	08:47		10:02 (SAM_WT07)
	21:48	65	19:57 (KLZ_WT04)	20:55			19:46	7	19:20 (EVE_WT01)	18:40	32	09:46 (SAM_WT06)	16:50	21	09:04 (SAM_WT11)	16:40	88	15:12 (KLZ_WT21)
23	05:56		06:32 (KLZ_WT01)	06:43			07:32		19:12 (EVE_WT01)	08:21		09:14 (SAM_WT06)	08:14		08:44 (SAM_WT11)	08:48		10:02 (SAM_WT07)
	21:47	62	19:55 (KLZ_WT04)	20:52			19:43	5	19:17 (EVE_WT01)	18:38	33	09:47 (SAM_WT06)	16:49	19	09:03 (SAM_WT11)	16:41	88	15:12 (KLZ_WT21)
24	05:58		06:33 (KLZ_WT01)	06:44			07:33		18:59 (KLZ_WT12)	08:23		09:14 (SAM_WT06)	08:16		08:46 (SAM_WT04)	08:48		10:02 (SAM_WT07)
	21:45	58	19:54 (KLZ_WT04)	20:50			19:41	7	19:15 (EVE_WT01)	18:36	33	09:47 (SAM_WT06)	16:48	18	09:04 (SAM_WT11)	16:41	88	15:12 (KLZ_WT21)
25	05:59		06:34 (KLZ_WT01)	06:46		07:16 (SAM_WT03)	07:35		18:56 (KLZ_WT12)	07:24		08:14 (SAM_WT06)	08:17		08:48 (SAM_WT04)	08:48		10:04 (SAM_WT07)
	21:44	55	19:53 (KLZ_WT04)	20:48	5	07:21 (SAM_WT03)	19:39	10	19:06 (KLZ_WT12)	17:34	33	08:47 (SAM_WT06)	16:47	17	09:05 (SAM_WT11)	16:42	88	15:13 (KLZ_WT21)
26	06:00		06:34 (KLZ_WT01)	06:48		07:14 (SAM_WT03)	07:36		18:39 (KLZ_WT06)	07:26		08:14 (SAM_WT06)	08:19		08:49 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:43	51	19:51 (KLZ_WT04)	20:46	9	07:23 (SAM_WT03)	19:37	18	19:07 (KLZ_WT12)	17:32	33	08:47 (SAM_WT06)	16:46	15	09:04 (SAM_WT11)	16:43	86	15:13 (KLZ_WT21)
27	06:02		06:35 (KLZ_WT01)	06:49		07:15 (SAM_WT03)	07:38		18:36 (KLZ_WT06)	07:28		08:13 (SAM_WT06)	08:20		08:51 (SAM_WT04)	08:49		10:04 (SAM_WT07)
	21:41	45	19:49 (KLZ_WT04)	20:44	8	07:23 (SAM_WT03)	19:34	26	19:08 (KLZ_WT12)	17:30	33	08:46 (SAM_WT06)	16:45	27	12:46 (KLZ_WT23)	16:43	87	15:13 (KLZ_WT21)
28	06:03		06:37 (KLZ_WT01)	06:51		07:17 (SAM_WT03)	07:40		18:27 (KLZ_WT20)	07:30		08:13 (SAM_WT06)	08:22		08:53 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:40	37	19:47 (KLZ_WT04)	20:42	6	07:23 (SAM_WT03)	19:32	33	19:05 (KLZ_WT12)	17:28	33	08:46 (SAM_WT06)	16:44	30	12:49 (KLZ_WT23)	16:44	84	15:13 (KLZ_WT21)
29	06:05		06:38 (KLZ_WT01)	06:52		07:18 (SAM_WT03)	07:41		18:23 (KLZ_WT20)	07:31		08:14 (SAM_WT06)	08:23		08:54 (SAM_WT04)	08:49		10:05 (SAM_WT07)
	21:38	28	19:44 (KLZ_WT04)	20:40	5	07:23 (SAM_WT03)	19:30	36	19:03 (KLZ_WT12)	17:26	32	08:46 (SAM_WT06)	16:43	33	12:51 (KLZ_WT23)	16:45	83	15:13 (KLZ_WT21)
30	06:06		19:28 (KLZ_WT04)	06:54		07:20 (SAM_WT03)	07:43		18:20 (KLZ_WT20)	07:33		08:14 (SAM_WT06)	08:25		08:56 (SAM_WT04)	08:50		10:06 (SAM_WT07)
	21:37	10	19:38 (KLZ_WT04)	20:38	14	19:21 (KLZ_WT05)	19:28	37	19:00 (KLZ_WT12)	17:25	32	08:46 (SAM_WT06)	16:43	34	12:53 (KLZ_WT23)	16:46	82	15:14 (KLZ_WT21)
31	06:07			06:55		19:05 (KLZ_WT05)				07:35		08:15 (SAM_WT06)				08:50		10:07 (SAM_WT07)
	21:35			20:35	17	19:22 (KLZ_WT05)				17:23	30	08:45 (SAM_WT06)				16:47	79	15:14 (KLZ_WT21)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		2077			80			652			937			519			2309	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,59			0,64			0,63			0,60			0,56			0,66	
Total reduction		0,26			0,29			0,27			0,21			0,15			0,14	
Total, real		534			23			174			198			76			334	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:47 (SAM_WT07)	08:24		08:50 (SAM_WT11)	07:32		08:10 (SAM_WT06)	07:23		19:14 (KLZ_WT20)	06:20		06:44 (SAM_WT01)	05:36		
	16:48	144	16:10 (KLZ_WT22)	17:35	79	14:07 (KLZ_WT23)	18:25	28	08:38 (SAM_WT06)	20:17	33	19:51 (EVE_WT01)	21:06	2	06:46 (SAM_WT01)	21:50		
2	08:50		09:48 (SAM_WT07)	08:22		08:48 (SAM_WT11)	07:30		08:09 (SAM_WT06)	07:21		19:16 (KLZ_WT20)	06:18		06:42 (SAM_WT01)	05:36		
	16:49	145	16:11 (KLZ_WT22)	17:36	79	14:06 (KLZ_WT23)	18:26	31	08:40 (SAM_WT06)	20:19	31	19:53 (EVE_WT01)	21:08	8	20:26 (KLZ_WT05)	21:52		
3	08:49		09:49 (SAM_WT07)	08:21		08:48 (SAM_WT11)	07:28		08:08 (SAM_WT06)	07:19		19:19 (KLZ_WT20)	06:16		06:40 (SAM_WT01)	05:35		
	16:50	145	16:12 (KLZ_WT22)	17:38	76	14:05 (KLZ_WT23)	18:28	33	08:41 (SAM_WT06)	20:20	28	19:55 (EVE_WT01)	21:09	14	20:29 (KLZ_WT05)	21:53		
4	08:49		09:48 (SAM_WT07)	08:19		08:49 (SAM_WT11)	07:26		08:07 (SAM_WT06)	07:16		19:36 (KLZ_WT06)	06:15		20:16 (KLZ_WT05)	05:34		
	16:51	144	16:11 (KLZ_WT22)	17:40	74	14:05 (KLZ_WT23)	18:30	35	08:42 (SAM_WT06)	20:22	20	19:56 (EVE_WT01)	21:11	15	20:31 (KLZ_WT05)	21:54		
5	08:49		09:49 (SAM_WT07)	08:18		08:49 (SAM_WT11)	07:24		08:05 (SAM_WT06)	07:14		19:36 (KLZ_WT06)	06:13		20:14 (KLZ_WT05)	05:33		
	16:52	146	16:12 (KLZ_WT22)	17:42	70	14:03 (KLZ_WT23)	18:32	37	08:42 (SAM_WT06)	20:24	18	19:54 (EVE_WT01)	21:13	18	20:32 (KLZ_WT05)	21:55		
6	08:49		09:49 (SAM_WT07)	08:16		08:49 (SAM_WT11)	07:21		08:04 (SAM_WT06)	07:12		07:34 (SWB_WT01_RP)	06:11		20:13 (KLZ_WT05)	05:33		
	16:54	146	16:12 (KLZ_WT22)	17:44	66	14:02 (KLZ_WT23)	18:33	38	08:42 (SAM_WT06)	20:25	19	19:52 (KLZ_WT06)	21:14	20	20:33 (KLZ_WT05)	21:56		
7	08:48		09:50 (SAM_WT07)	08:14		08:50 (SAM_WT11)	07:19		08:04 (SAM_WT06)	07:10		07:32 (SWB_WT01_RP)	06:09		20:12 (KLZ_WT05)	05:32		
	16:55	145	16:12 (KLZ_WT22)	17:45	60	14:00 (KLZ_WT23)	18:35	39	08:43 (SAM_WT06)	20:27	18	19:51 (KLZ_WT06)	21:16	22	20:34 (KLZ_WT05)	21:56		
8	08:48		09:50 (SAM_WT07)	08:13		08:52 (SAM_WT11)	07:17		08:03 (SAM_WT06)	07:08		07:30 (SWB_WT01_RP)	06:08		20:11 (KLZ_WT05)	05:32		
	16:56	145	16:12 (KLZ_WT22)	17:47	53	13:58 (KLZ_WT23)	18:37	40	08:43 (SAM_WT06)	20:29	20	19:51 (KLZ_WT06)	21:17	23	20:34 (KLZ_WT05)	21:57		
9	08:47		09:51 (SAM_WT07)	08:11		08:53 (SAM_WT11)	07:15		08:02 (SAM_WT06)	07:05		07:28 (SWB_WT01_RP)	06:06		20:11 (KLZ_WT05)	05:31		
	16:57	145	16:13 (KLZ_WT22)	17:49	46	13:56 (KLZ_WT23)	18:38	40	08:42 (SAM_WT06)	20:30	18	19:50 (KLZ_WT06)	21:19	24	20:35 (KLZ_WT05)	21:58		
10	08:47		09:51 (SAM_WT07)	08:09		08:55 (SAM_WT11)	07:13		08:02 (SAM_WT06)	07:03		19:38 (KLZ_WT06)	06:04		20:10 (KLZ_WT05)	05:31		
	16:59	146	16:13 (KLZ_WT22)	17:51	34	13:52 (KLZ_WT23)	18:40	40	08:42 (SAM_WT06)	20:32	10	19:48 (KLZ_WT06)	21:21	25	20:35 (KLZ_WT05)	21:59		
11	08:46		09:51 (SAM_WT07)	08:08		08:58 (SAM_WT11)	07:10		08:02 (SAM_WT06)	07:01		19:39 (KLZ_WT06)	06:03		20:11 (KLZ_WT05)	05:30		
	17:00	145	16:12 (KLZ_WT22)	17:53	6	09:04 (SAM_WT11)	18:42	42	18:17 (KLZ_WT13)	20:33	5	19:44 (KLZ_WT06)	21:22	25	20:36 (KLZ_WT05)	22:00		
12	08:46		09:51 (SAM_WT07)	08:06			07:08		08:02 (SAM_WT06)	06:59			06:01		20:10 (KLZ_WT05)	05:30		
	17:02	145	16:12 (KLZ_WT22)	17:54			18:44	44	18:19 (KLZ_WT13)	20:35			21:24	26	20:36 (KLZ_WT05)	22:00		
13	08:45		09:53 (SAM_WT07)	08:04			07:06		08:02 (SAM_WT06)	06:57			05:59		06:25 (SAM_WT09)	05:30		
	17:03	143	16:12 (KLZ_WT22)	17:56			18:45	44	18:20 (KLZ_WT13)	20:37			21:25	26	20:36 (KLZ_WT05)	22:01		
14	08:44		09:53 (SAM_WT07)	08:02			07:04		08:02 (SAM_WT06)	06:55			05:58		06:23 (SAM_WT09)	05:30		
	17:05	143	16:11 (KLZ_WT22)	17:58			18:47	46	18:22 (KLZ_WT13)	20:38			21:27	28	20:36 (KLZ_WT05)	22:02		
15	08:44		09:53 (SAM_WT07)	08:00			07:02		07:24 (SAM_WT08)	06:52		07:15 (SAM_WT02)	05:56		06:22 (SAM_WT09)	05:30		
	17:06	141	16:10 (KLZ_WT22)	18:00			18:49	47	18:24 (KLZ_WT13)	20:40	2	07:17 (SAM_WT02)	21:28	28	20:36 (KLZ_WT05)	22:02		
16	08:43		09:54 (SAM_WT07)	07:58			06:59		07:22 (SAM_WT08)	06:50		07:13 (SAM_WT02)	05:55		06:21 (SAM_WT09)	05:29		
	17:08	138	16:08 (KLZ_WT21)	18:02			18:50	47	18:24 (KLZ_WT13)	20:42	4	07:17 (SAM_WT02)	21:30	29	20:36 (KLZ_WT05)	22:03		
17	08:42		09:55 (SAM_WT07)	07:56			06:57		07:19 (SAM_WT08)	06:48		07:11 (SAM_WT02)	05:53		06:19 (SAM_WT09)	05:29		
	17:09	137	16:08 (KLZ_WT21)	18:03			18:52	46	18:27 (KLZ_WT20)	20:43	5	07:16 (SAM_WT02)	21:31	27	20:35 (KLZ_WT05)	22:03		
18	08:41		09:55 (SAM_WT07)	07:55			06:55		07:17 (SAM_WT08)	06:46		07:09 (SAM_WT02)	05:52		20:12 (KLZ_WT05)	05:29		
	17:11	136	16:08 (KLZ_WT21)	18:05			18:54	50	18:29 (KLZ_WT20)	20:45	6	07:15 (SAM_WT02)	21:33	23	20:35 (KLZ_WT05)	22:03		
19	08:40		09:56 (SAM_WT07)	07:53			06:53		07:15 (SAM_WT08)	06:44		07:10 (SAM_WT02)	05:51		20:12 (KLZ_WT05)	05:29		
	17:12	135	16:09 (KLZ_WT21)	18:07			18:55	52	18:31 (KLZ_WT20)	20:47	2	07:12 (SAM_WT02)	21:34	23	20:35 (KLZ_WT05)	22:04		
20	08:39		09:07 (SAM_WT04)	07:51			06:50		07:13 (SAM_WT08)	06:42		07:05 (SWB_WT02_RP)	05:49		20:13 (KLZ_WT05)	05:29		
	17:14	134	16:09 (KLZ_WT21)	18:09			18:57	52	18:32 (KLZ_WT20)	20:48	1	07:06 (SWB_WT02_RP)	21:35	21	20:34 (KLZ_WT05)	22:04		
21	08:38		09:05 (SAM_WT04)	07:49			06:48		07:13 (SAM_WT08)	06:40		07:03 (SWB_WT02_RP)	05:48		20:13 (KLZ_WT05)	05:30		
	17:16	135	16:08 (KLZ_WT21)	18:11			18:59	46	18:33 (KLZ_WT20)	20:50	2	07:05 (SWB_WT02_RP)	21:37	20	20:33 (KLZ_WT05)	22:04		
22	08:37		09:04 (SAM_WT04)	07:47			06:46		07:15 (SAM_WT08)	06:38			05:47		20:14 (KLZ_WT05)	05:30		
	17:17	135	16:08 (KLZ_WT21)	18:12			19:00	38	18:35 (KLZ_WT20)	20:52			21:38	18	20:32 (KLZ_WT05)	22:05		
23	08:36		09:03 (SAM_WT04)	07:45			06:43		18:13 (KLZ_WT20)	06:36		06:59 (SAM_WT03)	05:45		20:16 (KLZ_WT05)	05:30		
	17:19	133	16:08 (KLZ_WT21)	18:14			19:02	24	18:37 (KLZ_WT20)	20:53	1	07:00 (SAM_WT03)	21:39	16	20:32 (KLZ_WT05)	22:05		
24	08:35		09:01 (SAM_WT04)	07:43			06:41		18:12 (KLZ_WT20)	06:34		06:57 (SAM_WT03)	05:44		20:17 (KLZ_WT05)	05:30		
	17:21	132	16:07 (KLZ_WT21)	18:16			19:04	26	18:38 (KLZ_WT20)	20:55	3	07:00 (SAM_WT03)	21:41	14	20:31 (KLZ_WT05)	22:05		
25	08:34		09:00 (SAM_WT04)	07:40			06:39		18:11 (KLZ_WT20)	06:32		06:55 (SAM_WT03)	05:43		20:18 (KLZ_WT05)	05:31		
	17:22	129	16:07 (KLZ_WT21)	18:18			19:05	29	18:40 (KLZ_WT20)	20:56	5	07:00 (SAM_WT03)	21:42	12	20:30 (KLZ_WT05)	22:05		
26	08:32		08:59 (SAM_WT04)	07:38		08:18 (SAM_WT06)	06:37		18:12 (KLZ_WT20)	06:30		06:53 (SAM_WT03)	05:42		20:20 (KLZ_WT05)	05:31		
	17:24	125	16:07 (KLZ_WT21)	18:19	15	08:33 (SAM_WT06)	19:07	29	18:41 (KLZ_WT20)	20:58	7	07:00 (SAM_WT03)	21:43	8	20:28 (KLZ_WT05)	22:05		
27	08:31		08:57 (SAM_WT04)	07:36		08:15 (SAM_WT06)	06:34		18:12 (KLZ_WT20)	06:28		06:51 (SAM_WT03)	05:41		20:22 (KLZ_WT05)	05:31		
	17:26	122	16:06 (KLZ_WT21)	18:21	21	08:36 (SAM_WT06)	19:09	32	18:44 (KLZ_WT12)	21:00	8	06:59 (SAM_WT03)	21:45	4	20:26 (KLZ_WT05)	22:05		
28	08:30		08:56 (SAM_WT04)	07:34		08:12 (SAM_WT06)	06:32		18:11 (KLZ_WT20)	06:26		06:49 (SAM_WT03)	05:40			05:32		
	17:27	114	16:05 (KLZ_WT21)	18:23	25	08:37 (SAM_WT06)	19:10	34	18:45 (KLZ_WT12)	21:01	9	06:58 (SAM_WT03)	21:46			22:05		
29	08:28		08:54 (SAM_WT11)				07:30		19:12 (KLZ_WT20)	06:24		06:51 (SAM_WT03)	05:39			05:32		
	17:29	102	16:03 (KLZ_WT21)				20:12	35	19:47 (KLZ_WT12)	21:03	6	06:57 (SAM_WT03)	21:47			22:05		
30	08:27		08:53 (SAM_WT11)				07:28		19:12 (KLZ_WT20)	06:22			05:38			05:33		
	17:31	94	16:02 (KLZ_WT21)				20:14	36	19:49 (EVE_WT01)	21:05			21:48			22:04		
31	08:25		08:51 (SAM_WT11)				07:25		19:14 (KLZ_WT20)				05:37					
	17:33	86	15:58 (KLZ_WT21)				20:15	34	19:50 (EVE_WT01)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case		4155			704			1194			281			519				
Sun reduction		0,25			0,30			0,38			0,46			0,46				
Oper. time red.		0,98			0,98			0,98			0,98			0,98				
Wind dir. red.		0,66			0,63			0,58			0,62			0,56				
Total reduction		0,16			0,19			0,22			0,28			0,25				
Total, real		668			130			258			79			129				

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 8 - Christoffel Columbuslaan 17, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		20:21 (KLZ_WT05)	06:57		19:39 (KLZ_WT06)	07:44		08:41 (SAM_WT06)	07:36		08:24 (SAM_WT11)	08:26		09:33 (SAM_WT07)
	22:04			21:34	25	20:46 (KLZ_WT05)	20:33	5	19:44 (KLZ_WT06)	19:25	43	18:58 (KLZ_WT13)	17:21	36	13:22 (KLZ_WT23)	16:42	145	15:54 (KLZ_WT22)
2	05:34			06:10		20:20 (KLZ_WT05)	06:59		19:36 (KLZ_WT06)	07:46		08:41 (SAM_WT06)	07:38		08:23 (SAM_WT11)	08:27		09:34 (SAM_WT07)
	22:04			21:32	25	20:45 (KLZ_WT05)	20:31	10	19:46 (KLZ_WT06)	19:23	42	18:56 (KLZ_WT13)	17:19	47	13:26 (KLZ_WT23)	16:41	145	15:56 (KLZ_WT22)
3	05:35			06:12		20:21 (KLZ_WT05)	07:00		07:26 (SWB_WT01_RP)	07:48		08:40 (SAM_WT06)	07:40		08:21 (SAM_WT11)	08:29		09:34 (SAM_WT07)
	22:04			21:30	25	20:46 (KLZ_WT05)	20:29	18	19:48 (KLZ_WT06)	19:21	40	09:20 (SAM_WT06)	17:17	55	13:28 (KLZ_WT23)	16:41	145	15:56 (KLZ_WT22)
4	05:36			06:13		20:21 (KLZ_WT05)	07:02		07:27 (SWB_WT01_RP)	07:49		08:40 (SAM_WT06)	07:42		08:20 (SAM_WT11)	08:30		09:35 (SAM_WT07)
	22:03			21:29	24	20:45 (KLZ_WT05)	20:27	20	19:48 (KLZ_WT06)	19:19	40	09:20 (SAM_WT06)	17:16	61	13:30 (KLZ_WT23)	16:40	145	15:57 (KLZ_WT22)
5	05:37			06:15		20:22 (KLZ_WT05)	07:03		07:29 (SWB_WT01_RP)	07:51		08:40 (SAM_WT06)	07:43		08:19 (SAM_WT11)	08:31		09:35 (SAM_WT07)
	22:03			21:27	23	20:45 (KLZ_WT05)	20:24	18	19:48 (KLZ_WT06)	19:16	40	09:20 (SAM_WT06)	17:14	67	13:32 (KLZ_WT23)	16:40	146	15:58 (KLZ_WT22)
6	05:37			06:16		20:22 (KLZ_WT05)	07:05		07:30 (SWB_WT01_RP)	07:52		08:40 (SAM_WT06)	07:45		08:19 (SAM_WT11)	08:33		09:35 (SAM_WT07)
	22:02			21:25	21	20:43 (KLZ_WT05)	20:22	18	19:48 (KLZ_WT06)	19:14	39	09:19 (SAM_WT06)	17:12	70	13:33 (KLZ_WT23)	16:39	146	15:58 (KLZ_WT22)
7	05:38			06:18		20:23 (KLZ_WT05)	07:06		19:31 (KLZ_WT06)	07:54		08:40 (SAM_WT06)	07:47		08:19 (SAM_WT11)	08:34		09:36 (SAM_WT07)
	22:02			21:23	20	20:43 (KLZ_WT05)	20:20	17	19:48 (KLZ_WT06)	19:12	38	09:18 (SAM_WT06)	17:11	74	13:35 (KLZ_WT23)	16:39	146	15:59 (KLZ_WT22)
8	05:39			06:19		20:24 (KLZ_WT05)	07:08		19:30 (KLZ_WT06)	07:56		08:41 (SAM_WT06)	07:49		08:18 (SAM_WT11)	08:35		09:36 (SAM_WT07)
	22:01			21:22	17	20:41 (KLZ_WT05)	20:18	21	19:51 (EVE_WT01)	19:10	37	09:18 (SAM_WT06)	17:09	77	13:36 (KLZ_WT23)	16:39	145	15:59 (KLZ_WT22)
9	05:40			06:21		20:25 (KLZ_WT05)	07:10		19:13 (KLZ_WT20)	07:57		08:40 (SAM_WT06)	07:50		08:19 (SAM_WT11)	08:36		09:37 (SAM_WT07)
	22:00			21:20	14	20:39 (KLZ_WT05)	20:15	28	19:49 (EVE_WT01)	19:08	36	09:16 (SAM_WT06)	17:07	78	13:37 (KLZ_WT23)	16:38	145	16:00 (KLZ_WT22)
10	05:41			06:23		06:50 (SAM_WT01)	07:11		19:09 (KLZ_WT20)	07:59		08:41 (SAM_WT06)	07:52		08:21 (SAM_WT11)	08:37		09:37 (SAM_WT07)
	22:00			21:18	12	20:37 (KLZ_WT05)	20:13	31	19:46 (EVE_WT01)	19:05	35	09:16 (SAM_WT06)	17:06	79	13:38 (KLZ_WT23)	16:38	146	16:00 (KLZ_WT22)
11	05:42			06:24		06:51 (SAM_WT01)	07:13		19:08 (KLZ_WT20)	08:01		08:42 (SAM_WT06)	07:54		08:23 (SAM_WT11)	08:38		09:37 (SAM_WT07)
	21:59			21:16	2	06:53 (SAM_WT01)	20:11	33	19:45 (EVE_WT01)	19:03	33	09:15 (SAM_WT06)	17:04	88	15:31 (KLZ_WT21)	16:38	144	16:00 (KLZ_WT22)
12	05:43			06:26		06:53 (SAM_WT01)	07:14		19:05 (KLZ_WT20)	08:02		08:43 (SAM_WT06)	07:56		08:24 (SAM_WT11)	08:39		09:38 (SAM_WT07)
	21:58			21:14	1	06:54 (SAM_WT01)	20:09	35	19:42 (EVE_WT01)	19:01	29	09:12 (SAM_WT06)	17:03	94	15:33 (KLZ_WT21)	16:38	145	16:01 (KLZ_WT22)
13	05:44			06:27			07:16		19:04 (KLZ_WT20)	08:04		08:44 (SAM_WT06)	07:57		08:26 (SAM_WT11)	08:40		09:38 (SAM_WT07)
	21:57			21:12			20:06	36	19:40 (EVE_WT01)	18:59	27	09:11 (SAM_WT06)	17:01	103	15:35 (KLZ_WT21)	16:38	143	16:01 (KLZ_WT22)
14	05:45			06:29		06:59 (SAM_WT03)	07:17		19:02 (KLZ_WT20)	08:06		08:46 (SAM_WT06)	07:59		08:28 (SAM_WT04)	08:41		09:39 (SAM_WT07)
	21:56			21:11	6	07:05 (SAM_WT03)	20:04	35	19:37 (KLZ_WT12)	18:57	23	09:09 (SAM_WT06)	17:00	115	15:37 (KLZ_WT21)	16:38	143	16:02 (KLZ_WT22)
15	05:46			06:30		06:57 (SAM_WT03)	07:19		19:02 (KLZ_WT20)	08:07		08:49 (SAM_WT06)	08:01		08:30 (SAM_WT04)	08:42		09:40 (SAM_WT07)
	21:55			21:09	9	07:06 (SAM_WT03)	20:02	33	19:35 (KLZ_WT12)	18:55	18	09:07 (SAM_WT06)	16:58	122	15:39 (KLZ_WT21)	16:38	142	16:02 (KLZ_WT22)
16	05:47			06:32		06:59 (SAM_WT03)	07:21		19:00 (KLZ_WT20)	08:09		08:51 (SAM_WT06)	08:02		08:32 (SAM_WT04)	08:43		09:40 (SAM_WT07)
	21:55			21:07	8	07:07 (SAM_WT03)	19:59	33	19:33 (KLZ_WT12)	18:52	11	09:02 (SAM_WT06)	16:57	125	15:40 (KLZ_WT21)	16:38	142	16:03 (KLZ_WT22)
17	05:49		20:30 (KLZ_WT05)	06:33		07:00 (SAM_WT03)	07:22		19:00 (KLZ_WT20)	08:11			08:04		08:34 (SAM_WT04)	08:44		09:41 (SAM_WT07)
	21:53	7	20:37 (KLZ_WT05)	21:05	7	07:07 (SAM_WT03)	19:57	30	19:31 (KLZ_WT12)	18:50			16:56	129	15:41 (KLZ_WT21)	16:38	142	16:03 (KLZ_WT22)
18	05:50		20:28 (KLZ_WT05)	06:35		07:02 (SAM_WT03)	07:24		18:59 (KLZ_WT20)	08:12			08:06		08:35 (SAM_WT04)	08:45		09:41 (SAM_WT07)
	21:52	11	20:39 (KLZ_WT05)	21:03	5	07:07 (SAM_WT03)	19:55	29	19:28 (KLZ_WT20)	18:48			16:55	132	15:41 (KLZ_WT21)	16:39	141	16:03 (KLZ_WT22)
19	05:51		20:27 (KLZ_WT05)	06:37		07:03 (SAM_WT03)	07:25		18:59 (KLZ_WT20)	08:14			08:07		08:37 (SAM_WT04)	08:45		09:42 (SAM_WT07)
	21:51	13	20:40 (KLZ_WT05)	21:01	3	07:06 (SAM_WT03)	19:53	27	19:26 (KLZ_WT20)	18:46			16:53	133	15:42 (KLZ_WT21)	16:39	142	16:04 (KLZ_WT22)
20	05:52		20:26 (KLZ_WT05)	06:38			07:27		18:59 (KLZ_WT20)	08:16			08:09		08:39 (SAM_WT04)	08:46		09:43 (SAM_WT07)
	21:50	15	20:41 (KLZ_WT05)	20:59			19:50	25	19:24 (KLZ_WT20)	18:44			16:52	135	15:43 (KLZ_WT21)	16:39	141	16:05 (KLZ_WT22)
21	05:54		20:26 (KLZ_WT05)	06:40		07:06 (SWB_WT02_RP)	07:28		09:00 (SAM_WT06)	08:17			08:11		08:41 (SAM_WT04)	08:47		09:43 (SAM_WT07)
	21:49	17	20:43 (KLZ_WT05)	20:57	1	07:07 (SWB_WT02_RP)	19:48	29	19:21 (KLZ_WT20)	18:42			16:51	135	15:44 (KLZ_WT21)	16:40	141	16:05 (KLZ_WT22)
22	05:55		20:24 (KLZ_WT05)	06:41		07:08 (SWB_WT02_RP)	07:30		07:59 (SAM_WT08)	08:19			08:12		08:43 (SAM_WT04)	08:47		09:44 (SAM_WT07)
	21:48	19	20:43 (KLZ_WT05)	20:55	2	07:10 (SWB_WT02_RP)	19:46	45	19:20 (KLZ_WT20)	18:40			16:50	134	15:45 (KLZ_WT21)	16:40	141	16:06 (KLZ_WT22)
23	05:56		20:23 (KLZ_WT05)	06:43		07:09 (SWB_WT02_RP)	07:32		07:56 (SAM_WT08)	08:21			08:14		09:32 (SAM_WT07)	08:48		09:44 (SAM_WT07)
	21:47	21	20:44 (KLZ_WT05)	20:52	1	07:10 (SWB_WT02_RP)	19:43	52	19:17 (KLZ_WT20)	18:38			16:49	135	15:45 (KLZ_WT21)	16:41	141	16:06 (KLZ_WT22)
24	05:58		20:22 (KLZ_WT05)	06:44		07:14 (SAM_WT02)	07:33		07:58 (SAM_WT08)	08:23			08:16		09:32 (SAM_WT07)	08:48		09:44 (SAM_WT07)
	21:45	22	20:44 (KLZ_WT05)	20:50	3	07:17 (SAM_WT02)	19:41	51	19:15 (KLZ_WT20)	18:36			16:48	136	15:45 (KLZ_WT21)	16:41	141	16:06 (KLZ_WT22)
25	05:59		20:23 (KLZ_WT05)	06:46		07:12 (SAM_WT02)	07:35		07:59 (SAM_WT08)	07:24			08:17		09:33 (SAM_WT07)	08:48		09:45 (SAM_WT07)
	21:44	22	20:45 (KLZ_WT05)	20:48	6	07:18 (SAM_WT02)	19:39	51	19:12 (KLZ_WT20)	17:34			16:47	136	15:46 (KLZ_WT21)	16:42	141	16:07 (KLZ_WT22)
26	06:00		20:22 (KLZ_WT05)	06:48		07:14 (SAM_WT02)	07:36		08:01 (SAM_WT08)	07:26			08:19		09:32 (SAM_WT07)	08:49		09:45 (SAM_WT07)
	21:43	23	20:45 (KLZ_WT05)	20:46	5	07:19 (SAM_WT02)	19:37	47	19:10 (KLZ_WT20)	17:32			16:46	138	15:46 (KLZ_WT21)	16:43	141	16:07 (KLZ_WT22)
27	06:02		06:30 (SAM_WT09)	06:49		07:15 (SAM_WT02)	07:38		08:03 (SAM_WT08)	07:28			08:20		09:33 (SAM_WT07)	08:49		09:45 (SAM_WT07)
	21:41	29	20:46 (KLZ_WT05)	20:44	4	07:19 (SAM_WT02)	19:34	46	19:08 (KLZ_WT20)	17:30			16:45	139	15:48 (KLZ_WT22)	16:43	142	16:08 (KLZ_WT22)
28	06:03		06:32 (SAM_WT09)	06:51		07:17 (SAM_WT02)	07:40		08:04 (SAM_WT08)	07:30			08:22		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:40	27	20:46 (KLZ_WT05)	20:42	2	07:19 (SAM_WT02)	19:32	47	19:05 (KLZ_WT13)	17:28			16:44	143	15:51 (KLZ_WT22)	16:44	142	16:08 (KLZ_WT22)
29	06:05		06:33 (SAM_WT09)	06:52			07:41		08:43 (SAM_WT06)	07:31			08:23		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:38	28	20:46 (KLZ_WT05)	20:40			19:30	45	19:03 (KLZ_WT13)	17:26			16:43	144	15:52 (KLZ_WT22)	16:45	143	16:08 (KLZ_WT22)
30	06:06		06:34 (SAM_WT09)	06:54			07:43		08:41 (SAM_WT06)	07:33			08:25		09:33 (SAM_WT07)	08:49		09:46 (SAM_WT07)
	21:37	28	20:46 (KLZ_WT05)	20:38			19:28	45	19:00 (KLZ_WT13)	17:25			16:43	145	15:54 (KLZ_WT22)	16:46	143	16:09 (KLZ_WT22)
31	06:07		06:36 (SAM_WT09)	06:55						07:35		08:27 (SAM_WT11)				08:50		09:47 (SAM_WT07)
	21:35	27	20:47 (KLZ_WT05)	20:35						17:23	16	13:16 (KLZ_WT23)				16:47	143	16:09 (KLZ_WT22)
Potential sun hours	498			452			380			333			269			248		
Total, worst case		309			271			960			547			3205			4438	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,56			0,58			0,60			0,56			0,66			0,67	
Total reduction		0,24			0,26			0,26			0,20			0,17			0,15	
Total, real		76			71			245			108			549			653	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

January			February			March			April			May			June		
1	08:50		08:24		09:22 (CBR_WT01)	07:32			07:23		07:47 (SAM_WT11)	06:20		17:25 (KLZ_WT21)	05:36		06:27 (SAM_WT06)
	16:48		17:35	61	17:05 (KLZ_WT16)	18:25			20:17	73	18:52 (KLZ_WT21)	21:06	113	20:38 (KLZ_WT13)	21:50	124	21:13 (EVE_WT01)
2	08:49		08:22		09:22 (CBR_WT01)	07:30			07:21		07:48 (SAM_WT11)	06:18		17:25 (KLZ_WT21)	05:36		06:28 (SAM_WT06)
	16:49		17:36	62	17:07 (KLZ_WT16)	18:26			20:19	75	18:54 (KLZ_WT21)	21:08	116	20:40 (KLZ_WT13)	21:52	120	21:13 (EVE_WT01)
3	08:49		08:21		09:22 (CBR_WT01)	07:28			07:19		07:47 (SAM_WT07)	06:16		17:25 (KLZ_WT21)	05:35		06:28 (SAM_WT06)
	16:50		17:38	61	17:07 (KLZ_WT16)	18:28			20:20	80	18:57 (KLZ_WT21)	21:09	118	20:41 (KLZ_WT13)	21:53	114	19:14 (KLZ_WT21)
4	08:49		08:19		09:23 (CBR_WT01)	07:26			07:17		07:45 (SAM_WT07)	06:15		17:26 (KLZ_WT21)	05:34		06:29 (SAM_WT06)
	16:51		17:40	60	16:58 (KLZ_WT22)	18:30			20:22	89	18:59 (KLZ_WT21)	21:11	119	20:43 (KLZ_WT13)	21:54	111	19:13 (KLZ_WT21)
5	08:49		08:18		09:23 (CBR_WT01)	07:24			07:14		07:43 (SAM_WT07)	06:13		17:25 (KLZ_WT21)	05:33		06:30 (SAM_WT06)
	16:52		17:42	58	16:57 (KLZ_WT22)	18:32			20:24	96	19:01 (KLZ_WT21)	21:13	121	20:44 (KLZ_WT13)	21:55	110	19:14 (KLZ_WT21)
6	08:49		08:16		09:24 (CBR_WT01)	07:21			07:12		07:40 (SAM_WT07)	06:11		17:25 (KLZ_WT21)	05:33		06:30 (SAM_WT06)
	16:54		17:44	56	16:57 (KLZ_WT22)	18:33			20:25	102	19:01 (KLZ_WT21)	21:14	122	20:45 (KLZ_WT13)	21:56	108	19:13 (KLZ_WT21)
7	08:48		08:14		09:25 (CBR_WT01)	07:19			07:10		07:39 (SAM_WT07)	06:09		17:26 (KLZ_WT21)	05:32		06:31 (SAM_WT06)
	16:55		17:45	54	16:57 (KLZ_WT22)	18:35			20:27	107	19:03 (KLZ_WT21)	21:16	123	20:47 (KLZ_WT13)	21:56	108	19:14 (KLZ_WT21)
8	08:48		08:13		09:26 (CBR_WT01)	07:17			07:08		07:38 (SAM_WT07)	06:08		17:26 (KLZ_WT21)	05:32		06:31 (SAM_WT06)
	16:56		17:47	51	16:57 (KLZ_WT22)	18:37			20:29	113	19:05 (KLZ_WT21)	21:17	124	20:48 (KLZ_WT13)	21:57	106	19:13 (KLZ_WT21)
9	08:47		08:11		09:28 (CBR_WT01)	07:15			07:05		07:38 (SAM_WT07)	06:06		06:32 (SAM_WT06)	05:31		06:33 (SAM_WT06)
	16:58		17:49	47	16:57 (KLZ_WT22)	18:39			20:30	116	19:06 (KLZ_WT21)	21:19	134	20:49 (KLZ_WT13)	21:58	103	19:14 (KLZ_WT21)
10	08:47		08:09		09:29 (CBR_WT01)	07:13			07:03		07:37 (SAM_WT07)	06:04		06:29 (SAM_WT02)	05:31		06:34 (SAM_WT06)
	16:59		17:51	42	16:56 (KLZ_WT22)	18:40			20:32	119	19:07 (KLZ_WT21)	21:21	136	20:48 (KLZ_WT13)	21:59	101	19:14 (KLZ_WT21)
11	08:46		08:08		09:31 (CBR_WT01)	07:10			07:01		07:37 (SAM_WT07)	06:03		06:29 (SAM_WT06)	05:31		06:35 (SAM_WT06)
	17:00	4	17:53	36	16:55 (KLZ_WT22)	18:42			20:33	121	19:08 (KLZ_WT21)	21:22	134	20:47 (KLZ_WT13)	22:00	99	19:14 (KLZ_WT21)
12	08:46		08:06		09:34 (CBR_WT01)	07:08			06:59		07:35 (SAM_WT07)	06:01		06:27 (SAM_WT06)	05:30		06:35 (SAM_WT06)
	17:02	10	17:54	27	16:54 (KLZ_WT22)	18:44			20:35	124	19:08 (KLZ_WT21)	21:24	135	20:45 (KLZ_WT13)	22:00	99	19:14 (KLZ_WT21)
13	08:45		08:04		16:38 (KLZ_WT22)	07:06		07:28 (SAM_WT04)	06:57		07:35 (SAM_WT07)	05:59		06:27 (SAM_WT06)	05:30		06:36 (SAM_WT06)
	17:03	14	17:56	14	16:52 (KLZ_WT22)	18:45	1	07:29 (SAM_WT04)	20:37	127	19:09 (KLZ_WT21)	21:25	129	19:16 (KLZ_WT21)	22:01	96	19:14 (KLZ_WT21)
14	08:44		08:02		08:26 (SAM_WT05)	07:04		07:26 (SAM_WT04)	06:55		07:35 (SAM_WT07)	05:58		06:25 (SAM_WT06)	05:30		06:38 (SAM_WT06)
	17:05	17	17:58	12	16:49 (KLZ_WT22)	18:47	4	07:30 (SAM_WT04)	20:38	129	19:10 (KLZ_WT21)	21:27	130	19:15 (KLZ_WT21)	22:01	94	19:14 (KLZ_WT21)
15	08:44		08:00		08:24 (SAM_WT05)	07:02		07:24 (SAM_WT04)	06:52		07:35 (SAM_WT07)	05:56		06:25 (SAM_WT06)	05:30		06:39 (SAM_WT06)
	17:06	19	18:00	8	08:32 (SAM_WT05)	18:49	7	07:31 (SAM_WT04)	20:40	130	19:11 (KLZ_WT21)	21:28	131	19:16 (KLZ_WT21)	22:02	91	19:14 (KLZ_WT21)
16	08:43		07:58		08:22 (SAM_WT05)	06:59		07:22 (SAM_WT04)	06:50		07:13 (SAM_WT08)	05:55		06:25 (SAM_WT06)	05:29		17:46 (KLZ_WT21)
	17:08	22	18:02	11	08:33 (SAM_WT05)	18:50	10	07:32 (SAM_WT04)	20:42	134	19:12 (KLZ_WT21)	21:30	131	19:16 (KLZ_WT21)	22:03	88	19:14 (KLZ_WT21)
17	08:42		07:56		08:20 (SAM_WT05)	06:57		07:19 (SAM_WT04)	06:48		07:11 (SAM_WT08)	05:53		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:09	24	18:03	14	08:34 (SAM_WT05)	18:52	12	07:31 (SAM_WT04)	20:43	135	19:12 (KLZ_WT21)	21:31	131	19:15 (KLZ_WT21)	22:03	88	19:15 (KLZ_WT21)
18	08:41		07:55		08:18 (SAM_WT05)	06:55		07:17 (SAM_WT04)	06:46		07:09 (SAM_WT08)	05:52		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:11	25	18:05	16	08:34 (SAM_WT05)	18:54	14	07:31 (SAM_WT04)	20:45	136	19:13 (KLZ_WT21)	21:33	132	21:03 (EVE_WT01)	22:03	88	19:15 (KLZ_WT21)
19	08:40		07:53		08:16 (SAM_WT05)	06:53		07:15 (SAM_WT04)	06:44		07:07 (SAM_WT08)	05:51		06:24 (SAM_WT06)	05:29		17:47 (KLZ_WT21)
	17:12	28	18:07	19	08:35 (SAM_WT05)	18:55	16	07:31 (SAM_WT04)	20:47	139	20:20 (EVE_WT02)	21:34	132	21:04 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
20	08:39		07:51		08:14 (SAM_WT05)	06:50		07:16 (SAM_WT04)	06:42		07:05 (SAM_WT08)	05:49		06:24 (SAM_WT06)	05:30		17:47 (KLZ_WT21)
	17:14	29	18:09	21	08:35 (SAM_WT05)	18:57	14	07:30 (SAM_WT04)	20:48	140	20:22 (EVE_WT02)	21:35	135	21:06 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
21	08:38		07:49		08:14 (SAM_WT05)	06:48		07:16 (SAM_WT04)	06:40		07:39 (SAM_WT07)	05:48		06:14 (SAM_WT03)	05:30		17:47 (KLZ_WT21)
	17:16	30	18:11	23	17:44 (KLZ_WT15)	18:59	11	07:27 (SAM_WT04)	20:50	133	20:23 (EVE_WT02)	21:37	137	21:06 (EVE_WT01)	22:04	88	19:15 (KLZ_WT21)
22	08:37		07:47		08:14 (SAM_WT05)	06:46		07:18 (SAM_WT04)	06:38		07:40 (SAM_WT07)	05:47		06:13 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:17	31	18:12	25	17:46 (KLZ_WT15)	19:00	7	07:25 (SAM_WT04)	20:52	134	20:25 (EVE_WT02)	21:38	138	21:07 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
23	08:36		07:45		08:14 (SAM_WT05)	06:44			06:36		07:43 (SAM_WT07)	05:46		06:12 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:19	32	18:14	26	17:48 (KLZ_WT15)	19:02			20:53	130	20:26 (EVE_WT02)	21:39	138	21:09 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
24	08:35		07:43		08:15 (SAM_WT05)	06:41		07:03 (SAM_WT11)	06:34		07:48 (SAM_WT07)	05:44		06:11 (SAM_WT03)	05:30		17:48 (KLZ_WT21)
	17:21	33	18:16	25	17:50 (KLZ_WT15)	19:04	4	07:07 (SAM_WT11)	20:55	121	20:28 (EVE_WT02)	21:41	137	21:10 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
25	08:34		07:40		08:16 (SAM_WT05)	06:39		07:01 (SAM_WT11)	06:32		17:26 (KLZ_WT21)	05:43		06:24 (SAM_WT06)	05:31		17:49 (KLZ_WT21)
	17:22	43	18:18	21	17:50 (KLZ_WT15)	19:05	7	07:08 (SAM_WT11)	20:56	121	20:29 (EVE_WT02)	21:42	136	21:11 (EVE_WT01)	22:05	88	19:17 (KLZ_WT21)
26	08:32		07:38		08:17 (SAM_WT05)	06:37		06:59 (SAM_WT11)	06:30		17:26 (KLZ_WT21)	05:42		06:24 (SAM_WT06)	05:31		17:48 (KLZ_WT21)
	17:24	47	18:19	14	08:31 (SAM_WT05)	19:07	10	07:09 (SAM_WT11)	20:58	118	20:27 (EVE_WT02)	21:43	135	21:12 (EVE_WT01)	22:05	89	19:17 (KLZ_WT21)
27	08:31		07:36		08:20 (SAM_WT05)	06:34		06:57 (SAM_WT11)	06:28		17:26 (KLZ_WT21)	05:41		06:25 (SAM_WT06)	05:32		17:48 (KLZ_WT21)
	17:26	51	18:21	8	08:28 (SAM_WT05)	19:09	13	07:10 (SAM_WT11)	21:00	112	20:24 (EVE_WT02)	21:45	135	21:13 (EVE_WT01)	22:05	88	19:16 (KLZ_WT21)
28	08:30		07:34			06:32		06:54 (SAM_WT11)	06:26		17:25 (KLZ_WT21)	05:40		06:25 (SAM_WT06)	05:32		06:41 (SAM_WT06)
	17:28	53	18:23			19:10	25	17:32 (KLZ_WT21)	21:01	110	19:15 (KLZ_WT21)	21:46	134	21:14 (EVE_WT01)	22:05	92	19:17 (KLZ_WT21)
29	08:28					07:30		07:52 (SAM_WT11)	06:24		17:26 (KLZ_WT21)	05:39		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:29	56				20:12	45	18:41 (KLZ_WT21)	21:03	110	19:16 (KLZ_WT21)	21:47	134	21:16 (EVE_WT01)	22:05	95	19:17 (KLZ_WT21)
30	08:27					07:28		07:50 (SAM_WT11)	06:22		17:26 (KLZ_WT21)	05:38		06:26 (SAM_WT06)	05:33		06:40 (SAM_WT06)
	17:31	58				20:14	58	18:46 (KLZ_WT21)	21:05	110	19:16 (KLZ_WT21)	21:48	131	21:15 (EVE_WT01)	22:04	98	19:18 (KLZ_WT21)
31	08:25					07:25		07:48 (SAM_WT11)				05:37		06:27 (SAM_WT06)			
	17:33	61				20:15	67	18:50 (KLZ_WT21)				21:49	127	21:14 (EVE_WT01)			
Potential sun hours	262		279			367			415			482			495		
Total, worst case	687		872			325			3484			4028			2926		
Sun reduction	0,25		0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,98		0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,56		0,61			0,62			0,63			0,64			0,64		
Total reduction	0,14		0,18			0,23			0,29			0,28			0,28		
Total, real	94		155			74			994			1143			806		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 9 - Willem van Rubroeckstraat 2, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:39 (SAM_WT06)	06:09		06:38 (SAM_WT06)	06:57		07:36 (SAM_WT07)	07:44			07:36		08:58 (CBR_WT01)	08:26		09:13 (CBR_WT01)
	22:04	99	19:18 (KLZ_WT21)	21:34	134	20:56 (KLZ_WT13)	20:33	121	19:07 (KLZ_WT21)	19:25			17:21	45	16:26 (KLZ_WT22)	16:42	4	09:17 (CBR_WT01)
2	05:34		06:38 (SAM_WT06)	06:10		06:40 (SAM_WT06)	06:59		07:35 (SAM_WT07)	07:46			07:38		08:57 (CBR_WT01)	08:27		
	22:04	101	19:18 (KLZ_WT21)	21:32	135	20:58 (KLZ_WT13)	20:31	119	19:05 (KLZ_WT21)	19:23			17:19	48	16:27 (KLZ_WT22)	16:41		
3	05:35		06:38 (SAM_WT06)	06:12		06:40 (SAM_WT02)	07:00		07:36 (SAM_WT07)	07:48			07:40		08:55 (CBR_WT01)	08:29		
	22:04	103	19:19 (KLZ_WT21)	21:30	136	20:59 (KLZ_WT13)	20:29	116	19:04 (KLZ_WT21)	19:21			17:17	52	16:26 (KLZ_WT22)	16:41		
4	05:36		06:38 (SAM_WT06)	06:13		06:43 (SAM_WT06)	07:02		07:35 (SAM_WT07)	07:49			07:42		08:54 (CBR_WT01)	08:30		
	22:03	105	19:19 (KLZ_WT21)	21:29	132	20:59 (KLZ_WT13)	20:27	113	19:02 (KLZ_WT21)	19:19			17:16	55	16:27 (KLZ_WT22)	16:40		
5	05:37		06:37 (SAM_WT06)	06:15		17:36 (KLZ_WT21)	07:03		07:36 (SAM_WT07)	07:51			07:43		08:54 (CBR_WT01)	08:31		
	22:03	106	19:19 (KLZ_WT21)	21:27	123	20:58 (KLZ_WT13)	20:24	107	19:00 (KLZ_WT21)	19:16			17:14	56	16:27 (KLZ_WT22)	16:40		
6	05:37		06:37 (SAM_WT06)	06:17		17:36 (KLZ_WT21)	07:05		07:37 (SAM_WT07)	07:53			07:45		08:53 (CBR_WT01)	08:33		
	22:02	108	19:20 (KLZ_WT21)	21:25	122	20:56 (KLZ_WT13)	20:22	102	18:58 (KLZ_WT21)	19:14			17:12	58	16:27 (KLZ_WT22)	16:39		
7	05:38		06:36 (SAM_WT06)	06:18		17:36 (KLZ_WT21)	07:06		07:38 (SAM_WT07)	07:54			07:47		08:53 (CBR_WT01)	08:34		
	22:02	109	19:20 (KLZ_WT21)	21:23	121	20:55 (KLZ_WT13)	20:20	96	18:56 (KLZ_WT21)	19:12			17:11	59	16:27 (KLZ_WT22)	16:39		
8	05:39		06:36 (SAM_WT06)	06:20		17:35 (KLZ_WT21)	07:08		07:39 (SAM_WT07)	07:56			07:49		08:53 (CBR_WT01)	08:35		
	22:01	112	19:21 (KLZ_WT21)	21:22	121	20:53 (KLZ_WT13)	20:18	89	18:53 (KLZ_WT21)	19:10			17:09	62	16:39 (KLZ_WT16)	16:39		
9	05:40		06:36 (SAM_WT06)	06:21		17:34 (KLZ_WT21)	07:10		07:41 (SAM_WT07)	07:57			07:50		08:52 (CBR_WT01)	08:36		
	22:00	113	19:21 (KLZ_WT21)	21:20	119	20:51 (KLZ_WT13)	20:15	80	18:51 (KLZ_WT21)	19:08			17:07	64	16:38 (KLZ_WT16)	16:38		
10	05:41		06:36 (SAM_WT06)	06:23		17:34 (KLZ_WT21)	07:11		07:41 (SAM_WT11)	07:59			07:52		08:52 (CBR_WT01)	08:37		
	22:00	119	21:20 (EVE_WT01)	21:18	117	20:50 (KLZ_WT13)	20:13	77	18:48 (KLZ_WT21)	19:05			17:06	62	16:36 (KLZ_WT16)	16:38		
11	05:42		06:36 (SAM_WT06)	06:24		17:34 (KLZ_WT21)	07:13		07:40 (SAM_WT11)	08:01			07:54		08:53 (CBR_WT01)	08:38		
	21:59	122	21:21 (EVE_WT01)	21:16	114	20:48 (KLZ_WT13)	20:11	73	18:45 (KLZ_WT21)	19:03			17:04	61	16:35 (KLZ_WT16)	16:38		
12	05:43		06:35 (SAM_WT06)	06:26		17:34 (KLZ_WT21)	07:14		07:39 (SAM_WT11)	08:02			07:56		08:52 (CBR_WT01)	08:39		
	21:58	125	21:22 (EVE_WT01)	21:14	112	20:46 (KLZ_WT13)	20:09	67	18:41 (KLZ_WT21)	19:01			17:03	57	16:25 (KLZ_WT22)	16:38		
13	05:44		06:35 (SAM_WT06)	06:27		17:33 (KLZ_WT21)	07:16		07:41 (SAM_WT11)	08:04			07:57		08:52 (CBR_WT01)	08:40		
	21:57	130	21:23 (EVE_WT01)	21:12	111	19:24 (KLZ_WT21)	20:06	59	18:38 (KLZ_WT21)	18:59			17:01	56	16:25 (KLZ_WT22)	16:38		
14	05:45		06:35 (SAM_WT06)	06:29		17:34 (KLZ_WT21)	07:17		07:42 (SAM_WT11)	08:06		08:55 (SAM_WT05)	07:59		08:53 (CBR_WT01)	08:41		
	21:56	131	21:24 (EVE_WT01)	21:11	110	19:24 (KLZ_WT21)	20:04	47	18:32 (KLZ_WT21)	18:57	2	08:57 (SAM_WT05)	17:00	54	16:24 (KLZ_WT22)	16:38		
15	05:46		06:35 (SAM_WT06)	06:30		17:33 (KLZ_WT21)	07:19		07:44 (SAM_WT11)	08:07		08:51 (SAM_WT05)	08:01		08:53 (CBR_WT01)	08:42		
	21:55	134	21:24 (EVE_WT01)	21:09	110	19:23 (KLZ_WT21)	20:02	30	18:25 (KLZ_WT21)	18:55	11	09:02 (SAM_WT05)	16:59	51	16:23 (KLZ_WT22)	16:38		
16	05:48		06:34 (SAM_WT06)	06:32		17:33 (KLZ_WT21)	07:21		07:45 (SAM_WT11)	08:09		08:48 (SAM_WT05)	08:02		08:54 (CBR_WT01)	08:43		
	21:54	134	21:23 (EVE_WT01)	21:07	115	20:32 (EVE_WT02)	19:59	13	07:58 (SAM_WT11)	18:52	15	09:03 (SAM_WT05)	16:57	47	16:22 (KLZ_WT22)	16:38		
17	05:49		06:34 (SAM_WT06)	06:33		17:33 (KLZ_WT21)	07:22		07:47 (SAM_WT11)	08:11		08:47 (SAM_WT05)	08:04		08:54 (CBR_WT01)	08:44		
	21:53	136	21:22 (EVE_WT01)	21:05	119	20:34 (EVE_WT02)	19:57	11	07:58 (SAM_WT11)	18:50	24	18:22 (KLZ_WT15)	16:56	43	16:20 (KLZ_WT22)	16:38		
18	05:50		06:34 (SAM_WT06)	06:35		17:33 (KLZ_WT21)	07:24		07:48 (SAM_WT11)	08:12		08:46 (SAM_WT05)	08:06		08:54 (CBR_WT01)	08:45		
	21:52	136	21:21 (EVE_WT01)	21:03	121	20:35 (EVE_WT02)	19:55	8	07:56 (SAM_WT11)	18:48	25	18:20 (KLZ_WT15)	16:55	33	09:27 (CBR_WT01)	16:39		
19	05:51		06:20 (SAM_WT03)	06:37		07:52 (SAM_WT07)	07:25		07:50 (SAM_WT11)	08:14		08:45 (SAM_WT05)	08:07		08:55 (CBR_WT01)	08:45		
	21:51	138	21:20 (EVE_WT01)	21:01	124	20:33 (EVE_WT02)	19:53	5	07:55 (SAM_WT11)	18:46	26	18:18 (KLZ_WT15)	16:53	32	09:27 (CBR_WT01)	16:39		
20	05:52		06:21 (SAM_WT03)	06:38		07:48 (SAM_WT07)	07:27		07:52 (SAM_WT11)	08:16		08:45 (SAM_WT05)	08:09		08:56 (CBR_WT01)	08:46		
	21:50	139	21:19 (EVE_WT01)	20:59	131	20:32 (EVE_WT02)	19:50	1	07:53 (SAM_WT11)	18:44	25	18:17 (KLZ_WT15)	16:52	31	09:27 (CBR_WT01)	16:39		
21	05:54		06:23 (SAM_WT03)	06:40		07:45 (SAM_WT07)	07:28		08:05 (SAM_WT04)	08:17		08:44 (SAM_WT05)	08:11		08:57 (CBR_WT01)	08:47		
	21:49	139	21:19 (EVE_WT01)	20:57	132	20:29 (EVE_WT02)	19:48	5	08:10 (SAM_WT04)	18:42	23	18:14 (KLZ_WT15)	16:51	30	09:27 (CBR_WT01)	16:40		
22	05:55		06:24 (SAM_WT03)	06:41		07:43 (SAM_WT07)	07:30		08:02 (SAM_WT04)	08:19		08:45 (SAM_WT05)	08:12		08:58 (CBR_WT01)	08:47		
	21:48	138	21:17 (EVE_WT01)	20:55	135	20:28 (EVE_WT02)	19:46	10	08:12 (SAM_WT04)	18:40	20	09:05 (SAM_WT05)	16:50	29	09:27 (CBR_WT01)	16:40		
23	05:56		06:25 (SAM_WT03)	06:43		07:09 (SAM_WT08)	07:32		08:00 (SAM_WT04)	08:21		08:47 (SAM_WT05)	08:14		08:58 (CBR_WT01)	08:48		
	21:47	135	21:16 (EVE_WT01)	20:52	141	20:25 (EVE_WT02)	19:44	13	08:13 (SAM_WT04)	18:38	18	09:05 (SAM_WT05)	16:49	28	09:26 (CBR_WT01)	16:41		
24	05:58		06:34 (SAM_WT06)	06:44		07:11 (SAM_WT08)	07:33		07:59 (SAM_WT04)	08:23		08:49 (SAM_WT05)	08:16		09:00 (CBR_WT01)	08:48		
	21:45	133	21:14 (EVE_WT01)	20:50	138	20:24 (EVE_WT02)	19:41	15	08:14 (SAM_WT04)	18:36	16	09:05 (SAM_WT05)	16:48	26	09:26 (CBR_WT01)	16:41		
25	05:59		06:34 (SAM_WT06)	06:46		07:12 (SAM_WT08)	07:35		07:59 (SAM_WT04)	07:24		07:51 (SAM_WT05)	08:17		09:01 (CBR_WT01)	08:48		
	21:44	134	21:14 (EVE_WT01)	20:48	137	19:16 (KLZ_WT21)	19:39	15	08:14 (SAM_WT04)	17:34	13	08:04 (SAM_WT05)	16:47	24	09:25 (CBR_WT01)	16:42		
26	06:00		06:34 (SAM_WT06)	06:48		07:14 (SAM_WT08)	07:36		08:01 (SAM_WT04)	07:26		07:52 (SAM_WT05)	08:19		09:02 (CBR_WT01)	08:49		
	21:43	132	19:26 (KLZ_WT21)	20:46	135	19:15 (KLZ_WT21)	19:37	13	08:14 (SAM_WT04)	17:32	10	08:02 (SAM_WT05)	16:46	22	09:24 (CBR_WT01)	16:43		
27	06:02		06:34 (SAM_WT06)	06:49		07:15 (SAM_WT08)	07:38		08:03 (SAM_WT04)	07:28		07:54 (SAM_WT05)	08:20		09:04 (CBR_WT01)	08:49		
	21:41	132	19:26 (KLZ_WT21)	20:44	134	19:14 (KLZ_WT21)	19:34	11	08:14 (SAM_WT04)	17:30	7	08:01 (SAM_WT05)	16:45	20	09:24 (CBR_WT01)	16:43		
28	06:03		06:36 (SAM_WT06)	06:51		07:37 (SAM_WT07)	07:40		08:04 (SAM_WT04)	07:30		07:56 (SAM_WT05)	08:22		09:06 (CBR_WT01)	08:49		
	21:40	130	19:26 (KLZ_WT21)	20:42	130	19:13 (KLZ_WT21)	19:32	8	08:12 (SAM_WT04)	17:28	12	16:19 (KLZ_WT22)	16:44	17	09:23 (CBR_WT01)	16:44		
29	06:05		06:36 (SAM_WT06)	06:52		07:36 (SAM_WT07)	07:41		08:06 (SAM_WT04)	07:31		16:07 (KLZ_WT22)	08:23		09:07 (CBR_WT01)	08:49		
	21:38	130	19:26 (KLZ_WT21)	20:40	129	19:11 (KLZ_WT21)	19:30	6	08:12 (SAM_WT04)	17:26	15	16:22 (KLZ_WT22)	16:43	14	09:21 (CBR_WT01)	16:45		
30	06:06		06:36 (SAM_WT06)	06:54		07:36 (SAM_WT07)	07:43		08:07 (SAM_WT04)	07:33		09:03 (CBR_WT01)	08:25		09:10 (CBR_WT01)	08:49		
	21:37	130	19:26 (KLZ_WT21)	20:38	127	19:10 (KLZ_WT21)	19:28	2	08:09 (SAM_WT04)	17:25	29	16:23 (KLZ_WT22)	16:43	10	09:20 (CBR_WT01)	16:46		
31	06:08		06:37 (SAM_WT06)	06:55		07:35 (SAM_WT07)				07:35		09:00 (CBR_WT01)				08:50		
	21:35	130	19:27 (KLZ_WT21)	20:35	125	19:08 (KLZ_WT21)				17:23	38	16:25 (KLZ_WT22)				16:47		
Potential sun hours	498			451			380			333			269			248		
Total, worst case		3863			3890			1432			329			1246			4	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,63			0,63			0,59			0,59			0,53	
Total reduction		0,28			0,29			0,27			0,21			0,15			0,12	
Total, real		1082			1117			381			69			191			0	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		13:30 (KLZ_WT11)	08:24		09:44 (CBR_WT01)	07:32		09:13 (CBR_WT01)	07:23		07:45 (SAM_WT04)	06:20		06:56 (SAM_WT11)	05:36		06:04 (SAM_WT02)
	16:48	48	15:53 (KLZ_WT10)	17:35	12	17:06 (KLZ_WT08)	18:25	82	17:50 (KLZ_WT22)	20:17	8	07:53 (SAM_WT04)	21:06	23	20:38 (EVE_WT02)	21:50	67	21:19 (EVE_WT01)
2	08:49		13:31 (KLZ_WT11)	08:22		09:36 (CBR_WT01)	07:30		09:13 (CBR_WT01)	07:21		07:43 (SAM_WT04)	06:18		06:42 (SAM_WT08)	05:36		06:04 (SAM_WT02)
	16:49	47	15:54 (KLZ_WT10)	17:36	29	17:07 (KLZ_WT08)	18:26	82	17:50 (KLZ_WT22)	20:19	12	07:55 (SAM_WT04)	21:08	26	20:40 (EVE_WT02)	21:52	72	21:20 (EVE_WT01)
3	08:49		13:32 (KLZ_WT11)	08:21		09:33 (CBR_WT01)	07:28		07:52 (SAM_WT05)	07:19		07:41 (SAM_WT04)	06:16		06:40 (SAM_WT08)	05:35		06:03 (SAM_WT02)
	16:50	46	15:54 (KLZ_WT10)	17:38	36	17:08 (KLZ_WT08)	18:28	91	17:50 (KLZ_WT22)	20:20	14	07:55 (SAM_WT04)	21:09	26	20:41 (EVE_WT02)	21:53	76	21:21 (EVE_WT01)
4	08:49		13:33 (KLZ_WT11)	08:19		09:31 (CBR_WT01)	07:26		07:50 (SAM_WT05)	07:16		07:39 (SAM_WT04)	06:15		06:39 (SAM_WT08)	05:34		06:19 (SAM_WT07)
	16:51	45	15:55 (KLZ_WT10)	17:40	42	17:09 (KLZ_WT08)	18:30	94	17:50 (KLZ_WT22)	20:22	17	07:56 (SAM_WT04)	21:11	25	20:43 (EVE_WT02)	21:54	77	21:21 (EVE_WT01)
5	08:49		13:35 (KLZ_WT11)	08:18		09:29 (CBR_WT01)	07:24		07:47 (SAM_WT05)	07:14		07:37 (SAM_WT04)	06:13		06:37 (SAM_WT08)	05:33		06:19 (SAM_WT07)
	16:52	44	15:56 (KLZ_WT10)	17:42	45	17:08 (KLZ_WT08)	18:32	94	17:48 (KLZ_WT22)	20:24	19	07:56 (SAM_WT04)	21:13	21	20:44 (EVE_WT02)	21:55	79	21:23 (EVE_WT01)
6	08:49		13:37 (KLZ_WT11)	08:16		09:26 (CBR_WT01)	07:21		07:45 (SAM_WT05)	07:12		07:35 (SAM_WT04)	06:11		06:35 (SAM_WT08)	05:33		06:17 (SAM_WT07)
	16:54	40	15:56 (KLZ_WT10)	17:44	48	17:07 (KLZ_WT08)	18:33	94	17:47 (KLZ_WT22)	20:25	20	07:55 (SAM_WT04)	21:14	13	20:44 (EVE_WT02)	21:55	83	21:23 (EVE_WT01)
7	08:48		13:40 (KLZ_WT11)	08:14		09:25 (CBR_WT01)	07:19		07:44 (SAM_WT05)	07:10		07:35 (SAM_WT04)	06:09		06:34 (SAM_WT08)	05:32		06:17 (SAM_WT07)
	16:55	37	15:57 (KLZ_WT10)	17:45	48	17:06 (KLZ_WT08)	18:35	92	17:46 (KLZ_WT22)	20:27	20	07:55 (SAM_WT04)	21:16	8	06:42 (SAM_WT08)	21:56	84	21:24 (EVE_WT01)
8	08:48		13:44 (KLZ_WT11)	08:13		09:24 (CBR_WT01)	07:17		07:43 (SAM_WT05)	07:08		07:35 (SAM_WT04)	06:08		06:32 (SAM_WT08)	05:32		06:16 (SAM_WT07)
	16:56	29	15:57 (KLZ_WT10)	17:47	44	17:04 (KLZ_WT08)	18:37	87	17:44 (KLZ_WT22)	20:28	19	07:54 (SAM_WT04)	21:17	9	06:41 (SAM_WT08)	21:57	87	21:25 (EVE_WT01)
9	08:47		15:32 (KLZ_WT10)	08:11		09:22 (CBR_WT01)	07:15		07:41 (SAM_WT05)	07:05		07:35 (SAM_WT04)	06:06		06:31 (SAM_WT08)	05:31		06:16 (SAM_WT07)
	16:58	26	15:58 (KLZ_WT10)	17:49	46	10:08 (CBR_WT01)	18:39	78	17:40 (KLZ_WT22)	20:30	18	07:53 (SAM_WT04)	21:19	10	06:41 (SAM_WT08)	21:58	88	21:26 (EVE_WT01)
10	08:47		15:32 (KLZ_WT10)	08:09		09:21 (CBR_WT01)	07:13		07:41 (SAM_WT05)	07:03		07:36 (SAM_WT04)	06:04		06:29 (SWB_WT01_RP)	05:31		06:16 (SAM_WT07)
	16:59	26	15:58 (KLZ_WT10)	17:51	48	10:09 (CBR_WT01)	18:40	69	09:59 (CBR_WT01)	20:32	16	07:52 (SAM_WT04)	21:20	6	06:38 (SAM_WT08)	21:59	89	21:27 (EVE_WT01)
11	08:46		15:32 (KLZ_WT10)	08:08		09:20 (CBR_WT01)	07:10		07:41 (SAM_WT05)	07:01		07:37 (SAM_WT04)	06:03		06:28 (SWB_WT01_RP)	05:31		06:16 (SAM_WT07)
	17:00	26	15:58 (KLZ_WT10)	17:53	50	10:10 (CBR_WT01)	18:42	67	18:17 (KLZ_WT15)	20:33	12	07:49 (SAM_WT04)	21:22	1	06:29 (SWB_WT01_RP)	22:00	91	21:28 (EVE_WT01)
12	08:46		15:32 (KLZ_WT10)	08:06		09:19 (CBR_WT01)	07:08		07:41 (SAM_WT05)	06:59		07:39 (SAM_WT04)	06:01			05:30		06:16 (SAM_WT07)
	17:02	27	15:59 (KLZ_WT10)	17:54	52	10:11 (CBR_WT01)	18:44	64	18:19 (KLZ_WT15)	20:35	7	07:46 (SAM_WT04)	21:24			22:00	90	21:27 (EVE_WT01)
13	08:45		15:33 (KLZ_WT10)	08:04		09:18 (CBR_WT01)	07:06		07:40 (SAM_WT05)	06:57			05:59			05:30		06:16 (SAM_WT07)
	17:03	27	16:00 (KLZ_WT10)	17:56	54	10:12 (CBR_WT01)	18:45	59	18:20 (KLZ_WT15)	20:37			21:25			22:01	91	21:27 (EVE_WT01)
14	08:44		15:34 (KLZ_WT10)	08:02		09:17 (CBR_WT01)	07:04		07:40 (SAM_WT05)	06:55			05:58		20:56 (KLZ_WT13)	05:30		06:16 (SAM_WT07)
	17:05	27	16:32 (NES_WT01)	17:58	56	10:13 (CBR_WT01)	18:47	47	18:21 (KLZ_WT15)	20:38			21:27	1	20:57 (KLZ_WT13)	22:01	90	21:27 (EVE_WT01)
15	08:44		15:34 (KLZ_WT10)	08:00		09:16 (CBR_WT01)	07:02		07:41 (SAM_WT05)	06:52			05:56		20:28 (KLZ_WT21)	05:30		06:16 (SAM_WT07)
	17:06	28	16:34 (NES_WT01)	18:00	57	10:13 (CBR_WT01)	18:49	27	08:08 (SAM_WT05)	20:40			21:28	6	20:59 (KLZ_WT13)	22:02	90	21:26 (EVE_WT01)
16	08:43		15:35 (KLZ_WT10)	07:58		09:16 (CBR_WT01)	06:59		07:41 (SAM_WT05)	06:50		07:13 (SAM_WT11)	05:55		20:22 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:08	28	16:36 (NES_WT01)	18:02	58	10:14 (CBR_WT01)	18:50	26	08:07 (SAM_WT05)	20:42	3	07:16 (SAM_WT11)	21:30	20	21:00 (KLZ_WT13)	22:03	89	21:26 (EVE_WT01)
17	08:42		15:35 (KLZ_WT10)	07:56		09:15 (CBR_WT01)	06:57		07:41 (SAM_WT05)	06:48		07:11 (SAM_WT11)	05:53		20:19 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:09	28	16:37 (NES_WT01)	18:03	59	10:14 (CBR_WT01)	18:52	24	08:05 (SAM_WT05)	20:43	7	07:18 (SAM_WT11)	21:31	26	21:01 (KLZ_WT13)	22:03	87	21:02 (KLZ_WT21)
18	08:41		15:36 (KLZ_WT10)	07:55		09:15 (CBR_WT01)	06:55		07:43 (SAM_WT05)	06:46		07:09 (SAM_WT11)	05:52		20:17 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:11	24	16:00 (KLZ_WT10)	18:05	60	10:15 (CBR_WT01)	18:54	20	08:03 (SAM_WT05)	20:45	10	07:19 (SAM_WT11)	21:32	31	21:02 (KLZ_WT13)	22:03	87	21:02 (KLZ_WT21)
19	08:40		15:37 (KLZ_WT10)	07:53		09:14 (CBR_WT01)	06:53		07:44 (SAM_WT05)	06:44		07:07 (SAM_WT11)	05:51		20:15 (KLZ_WT21)	05:29		06:16 (SAM_WT07)
	17:12	23	16:00 (KLZ_WT10)	18:07	61	10:15 (CBR_WT01)	18:55	17	08:01 (SAM_WT05)	20:47	13	07:20 (SAM_WT11)	21:34	36	21:04 (KLZ_WT13)	22:04	88	21:03 (KLZ_WT21)
20	08:39		15:37 (KLZ_WT10)	07:51		09:14 (CBR_WT01)	06:50		07:47 (SAM_WT05)	06:42		07:05 (SAM_WT11)	05:49		20:14 (KLZ_WT21)	05:30		06:16 (SAM_WT07)
	17:14	22	15:59 (KLZ_WT10)	18:09	63	17:42 (KLZ_WT16)	18:57	11	07:58 (SAM_WT05)	20:48	16	07:21 (SAM_WT11)	21:35	40	21:06 (KLZ_WT13)	22:04	88	21:03 (KLZ_WT21)
21	08:38		15:38 (KLZ_WT10)	07:49		09:13 (CBR_WT01)	06:48			06:40		07:03 (SAM_WT11)	05:48		20:12 (KLZ_WT21)	05:30		06:16 (SAM_WT07)
	17:16	21	15:59 (KLZ_WT10)	18:11	64	17:44 (KLZ_WT16)	18:59			20:50	18	07:21 (SAM_WT11)	21:37	42	21:06 (KLZ_WT13)	22:04	88	21:03 (KLZ_WT21)
22	08:37		15:40 (KLZ_WT10)	07:47		09:13 (CBR_WT01)	06:46			06:38		07:01 (SAM_WT11)	05:47		20:11 (KLZ_WT21)	05:30		06:17 (SAM_WT07)
	17:17	19	15:59 (KLZ_WT10)	18:12	62	10:15 (CBR_WT01)	19:00			20:52	21	07:22 (SAM_WT11)	21:38	44	21:06 (KLZ_WT13)	22:05	88	21:04 (KLZ_WT21)
23	08:36		15:41 (KLZ_WT10)	07:45		09:13 (CBR_WT01)	06:43			06:36		06:59 (SAM_WT11)	05:46		20:10 (KLZ_WT21)	05:30		06:17 (SAM_WT07)
	17:19	18	15:59 (KLZ_WT10)	18:14	73	17:45 (KLZ_WT22)	19:02			20:53	23	07:22 (SAM_WT11)	21:39	42	21:04 (KLZ_WT13)	22:05	88	21:04 (KLZ_WT21)
24	08:35		15:43 (KLZ_WT10)	07:43		09:13 (CBR_WT01)	06:41			06:34		06:57 (SAM_WT11)	05:44		20:10 (KLZ_WT21)	05:30		06:17 (SAM_WT07)
	17:21	14	15:57 (KLZ_WT10)	18:16	77	17:47 (KLZ_WT22)	19:04			20:55	25	07:22 (SAM_WT11)	21:41	40	20:50 (KLZ_WT21)	22:05	87	21:03 (KLZ_WT21)
25	08:33		15:46 (KLZ_WT10)	07:40		09:13 (CBR_WT01)	06:39			06:32		06:55 (SAM_WT11)	05:43		20:09 (KLZ_WT21)	05:31		06:18 (SAM_WT07)
	17:22	10	15:56 (KLZ_WT10)	18:18	80	17:48 (KLZ_WT22)	19:05			20:56	26	07:21 (SAM_WT11)	21:42	42	20:51 (KLZ_WT21)	22:05	87	21:04 (KLZ_WT21)
26	08:32		15:51 (KLZ_WT10)	07:38		09:13 (CBR_WT01)	06:37			06:30		06:54 (SAM_WT11)	05:42		20:08 (KLZ_WT21)	05:31		06:18 (SAM_WT07)
	17:24	1	15:52 (KLZ_WT10)	18:19	82	17:49 (KLZ_WT22)	19:07			20:58	27	07:21 (SAM_WT11)	21:43	44	20:52 (KLZ_WT21)	22:05	88	21:28 (EVE_WT01)
27	08:31			07:36		09:12 (CBR_WT01)	06:34			06:28		06:54 (SAM_WT11)	05:41		20:08 (KLZ_WT21)	05:32		06:18 (SAM_WT07)
	17:26			18:21	83	17:49 (KLZ_WT22)	19:09			21:00	26	07:20 (SAM_WT11)	21:45	45	20:53 (KLZ_WT21)	22:05	90	21:28 (EVE_WT01)
28	08:30			07:34		09:13 (CBR_WT01)	06:32			06:26		06:54 (SAM_WT11)	05:40		20:07 (KLZ_WT21)	05:32		06:19 (SAM_WT07)
	17:28			18:23	83	17:50 (KLZ_WT22)	19:10			21:01	26	07:20 (SAM_WT11)	21:46	46	20:53 (KLZ_WT21)	22:05	90	21:30 (EVE_WT01)
29	08:28		16:58 (KLZ_WT08)				07:30			06:24		06:55 (SAM_WT11)	05:39		06:07 (SAM_WT02)	05:33		06:19 (SAM_WT07)
	17:29	1	16:59 (KLZ_WT08)				20:12			21:03	25	07:20 (SAM_WT11)	21:47	48	20:55 (KLZ_WT21)	22:05	90	21:30 (EVE_WT01)
30	08:27		16:57 (KLZ_WT08)				07:28			06:22		06:55 (SAM_WT11)	05:38		06:06 (SAM_WT02)	05:33		06:20 (SAM_WT07)
	17:31	4	17:01 (KLZ_WT08)				20:14			21:05	25	20:37 (EVE_WT02)	21:48	50	21:17 (EVE_WT01)	22:04	90	21:31 (EVE_WT01)
31	08:25		16:56 (KLZ_WT08)				07:25		07:48 (SAM_WT04)				05:37		06:05 (SAM_WT02)			
	17:33	7	17:03 (KLZ_WT08)				20:15	4	07:52 (SAM_WT04)				21:49	59	21:18 (EVE_WT01)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		743			1572			1229			473			830			2579	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,72			0,56			0,57			0,64			0,58			0,60	
Total reduction		0,17			0,16			0,21			0,29			0,26			0,26	
Total, real		129			257			257			137			213			674	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 10 - Willem van Rubroeckstraat 26, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:21 (SAM_WT07)	06:09			06:57		07:37 (SAM_WT04)	07:44		08:20 (SAM_WT05)	07:36		08:51 (CBR_WT01)	08:26		15:14 (KLZ_WT10)
	22:04	91	21:32 (EVE_WT01)	21:34			20:33	12	07:49 (SAM_WT04)	19:25	62	18:58 (KLZ_WT15)	17:21	48	09:39 (CBR_WT01)	16:42	26	15:40 (KLZ_WT10)
2	05:34		06:20 (SAM_WT07)	06:10		06:39 (SWB_WT01_RP)	06:59		07:34 (SAM_WT04)	07:46		08:20 (SAM_WT05)	07:38		08:52 (CBR_WT01)	08:27		15:15 (KLZ_WT10)
	22:04	90	21:31 (EVE_WT01)	21:32	1	06:40 (SWB_WT01_RP)	20:31	16	07:50 (SAM_WT04)	19:23	65	18:56 (KLZ_WT15)	17:19	46	09:38 (CBR_WT01)	16:41	26	15:41 (KLZ_WT10)
3	05:35		06:21 (SAM_WT07)	06:12		06:40 (SWB_WT01_RP)	07:00		07:33 (SAM_WT04)	07:48		08:19 (SAM_WT05)	07:40		08:53 (CBR_WT01)	08:29		15:15 (KLZ_WT10)
	22:03	89	21:31 (EVE_WT01)	21:30	9	06:50 (SAM_WT08)	20:29	18	07:51 (SAM_WT04)	19:21	68	18:54 (KLZ_WT15)	17:17	47	16:34 (KLZ_WT08)	16:41	26	15:41 (KLZ_WT10)
4	05:36		06:22 (SAM_WT07)	06:13		06:41 (SAM_WT08)	07:02		07:32 (SAM_WT04)	07:49		08:19 (SAM_WT05)	07:42		08:55 (CBR_WT01)	08:30		15:16 (KLZ_WT10)
	22:03	88	21:31 (EVE_WT01)	21:29	9	06:50 (SAM_WT08)	20:27	19	07:51 (SAM_WT04)	19:19	70	10:38 (CBR_WT01)	17:16	47	16:36 (KLZ_WT08)	16:40	26	15:42 (KLZ_WT10)
5	05:37		06:22 (SAM_WT07)	06:15		06:43 (SAM_WT08)	07:03		07:32 (SAM_WT04)	07:51		08:20 (SAM_WT05)	07:43		08:56 (CBR_WT01)	08:31		13:25 (KLZ_WT11)
	22:03	86	21:30 (EVE_WT01)	21:27	9	06:52 (SAM_WT08)	20:24	20	07:52 (SAM_WT04)	19:16	83	18:20 (KLZ_WT22)	17:14	47	16:37 (KLZ_WT08)	16:40	36	15:42 (KLZ_WT10)
6	05:37		06:23 (SAM_WT07)	06:16		06:44 (SAM_WT08)	07:05		07:31 (SAM_WT04)	07:52		08:19 (SAM_WT05)	07:45		08:59 (CBR_WT01)	08:33		13:23 (KLZ_WT11)
	22:02	85	21:30 (EVE_WT01)	21:25	11	20:53 (EVE_WT02)	20:22	20	07:51 (SAM_WT04)	19:14	89	18:21 (KLZ_WT22)	17:12	44	16:38 (KLZ_WT08)	16:39	40	15:42 (KLZ_WT10)
7	05:38		06:25 (SAM_WT07)	06:18		06:46 (SAM_WT08)	07:06		07:32 (SAM_WT04)	07:54		08:20 (SAM_WT05)	07:47		09:01 (CBR_WT01)	08:34		13:21 (KLZ_WT11)
	22:02	81	21:29 (EVE_WT01)	21:23	14	20:55 (EVE_WT02)	20:20	19	07:51 (SAM_WT04)	19:12	93	18:23 (KLZ_WT22)	17:11	41	16:39 (KLZ_WT08)	16:39	44	15:42 (KLZ_WT10)
8	05:39		06:26 (SAM_WT07)	06:20		06:47 (SAM_WT08)	07:08		07:33 (SAM_WT04)	07:56		08:22 (SAM_WT05)	07:49		09:04 (CBR_WT01)	08:35		13:21 (KLZ_WT11)
	22:01	79	21:29 (EVE_WT01)	21:22	22	20:53 (EVE_WT02)	20:18	17	07:50 (SAM_WT04)	19:10	95	18:24 (KLZ_WT22)	17:09	36	16:39 (KLZ_WT08)	16:39	45	15:43 (KLZ_WT10)
9	05:40		06:27 (SAM_WT07)	06:21		06:48 (SAM_WT08)	07:10		07:35 (SAM_WT04)	07:57		08:23 (SAM_WT05)	07:50		09:08 (CBR_WT01)	08:36		13:21 (KLZ_WT11)
	22:00	76	21:29 (EVE_WT01)	21:20	25	20:51 (EVE_WT02)	20:15	15	07:50 (SAM_WT04)	19:08	94	18:23 (KLZ_WT22)	17:07	28	16:38 (KLZ_WT08)	16:38	46	15:43 (KLZ_WT10)
10	05:41		06:11 (SAM_WT02)	06:23		06:50 (SAM_WT08)	07:11		07:36 (SAM_WT04)	07:59		08:25 (SAM_WT05)	07:52		16:27 (KLZ_WT08)	08:37		13:20 (KLZ_WT11)
	22:00	74	21:28 (EVE_WT01)	21:18	25	20:50 (EVE_WT02)	20:13	12	07:48 (SAM_WT04)	19:05	93	18:24 (KLZ_WT22)	17:06	9	16:36 (KLZ_WT08)	16:38	47	15:43 (KLZ_WT10)
11	05:42		06:12 (SAM_WT02)	06:24		07:05 (SAM_WT11)	07:13		07:38 (SAM_WT04)	08:01		08:29 (SAM_WT05)	07:54		16:27 (KLZ_WT08)	08:38		13:20 (KLZ_WT11)
	21:59	68	21:27 (EVE_WT01)	21:16	24	20:48 (EVE_WT02)	20:11	9	07:47 (SAM_WT04)	19:03	86	18:24 (KLZ_WT22)	17:04	7	16:34 (KLZ_WT08)	16:38	48	15:43 (KLZ_WT10)
12	05:43		06:13 (SAM_WT02)	06:26		07:04 (SAM_WT11)	07:14		07:39 (SAM_WT04)	08:02		09:46 (CBR_WT01)	07:56		16:28 (KLZ_WT08)	08:39		13:20 (KLZ_WT11)
	21:58	62	21:27 (EVE_WT01)	21:14	24	20:46 (EVE_WT02)	20:09	5	07:44 (SAM_WT04)	19:01	82	18:23 (KLZ_WT22)	17:03	4	16:32 (KLZ_WT08)	16:38	48	15:43 (KLZ_WT10)
13	05:44		06:14 (SAM_WT02)	06:27		07:03 (SAM_WT11)	07:16			08:04		09:46 (CBR_WT01)	07:57		16:30 (KLZ_WT08)	08:40		13:20 (KLZ_WT11)
	21:57	52	21:26 (EVE_WT01)	21:12	23	07:26 (SAM_WT11)	20:06			18:59	83	18:23 (KLZ_WT22)	17:01	1	16:31 (KLZ_WT08)	16:38	50	15:44 (KLZ_WT10)
14	05:45		06:15 (SAM_WT02)	06:29		07:02 (SAM_WT11)	07:17			08:06		09:46 (CBR_WT01)	07:59			08:41		13:20 (KLZ_WT11)
	21:56	49	21:25 (EVE_WT01)	21:11	25	07:27 (SAM_WT11)	20:04			18:57	83	18:23 (KLZ_WT22)	17:00			16:38	49	15:44 (KLZ_WT10)
15	05:46		20:16 (KLZ_WT21)	06:30		07:01 (SAM_WT11)	07:19			08:07		09:46 (CBR_WT01)	08:01			08:42		13:20 (KLZ_WT11)
	21:55	47	21:03 (KLZ_WT21)	21:09	26	07:27 (SAM_WT11)	20:02			18:55	82	18:22 (KLZ_WT22)	16:59			16:38	49	15:44 (KLZ_WT10)
16	05:48		20:17 (KLZ_WT21)	06:32		07:01 (SAM_WT11)	07:21			08:09		09:44 (CBR_WT01)	08:02		15:23 (KLZ_WT10)	08:43		13:20 (KLZ_WT11)
	21:54	45	21:02 (KLZ_WT21)	21:07	27	07:28 (SAM_WT11)	19:59			18:52	81	18:20 (KLZ_WT22)	16:57	2	15:25 (KLZ_WT10)	16:38	51	15:45 (KLZ_WT10)
17	05:49		20:18 (KLZ_WT21)	06:33		07:00 (SAM_WT11)	07:22			08:11		09:44 (CBR_WT01)	08:04		15:19 (KLZ_WT10)	08:44		13:21 (KLZ_WT11)
	21:53	44	21:02 (KLZ_WT21)	21:05	28	07:28 (SAM_WT11)	19:57			18:50	79	18:19 (KLZ_WT22)	16:56	11	15:30 (KLZ_WT10)	16:38	51	15:46 (KLZ_WT10)
18	05:50		20:18 (KLZ_WT21)	06:35		07:02 (SAM_WT11)	07:24			08:12		09:44 (CBR_WT01)	08:06		15:17 (KLZ_WT10)	08:45		13:21 (KLZ_WT11)
	21:52	43	21:01 (KLZ_WT21)	21:03	26	07:28 (SAM_WT11)	19:55			18:48	77	18:17 (KLZ_WT22)	16:55	14	15:31 (KLZ_WT10)	16:39	50	15:45 (KLZ_WT10)
19	05:51		20:19 (KLZ_WT21)	06:37		07:03 (SAM_WT11)	07:25			08:14		09:45 (CBR_WT01)	08:07		15:15 (KLZ_WT10)	08:45		13:21 (KLZ_WT11)
	21:51	41	21:00 (KLZ_WT21)	21:01	24	07:27 (SAM_WT11)	19:53			18:46	71	18:15 (KLZ_WT22)	16:53	18	15:33 (KLZ_WT10)	16:39	51	15:46 (KLZ_WT10)
20	05:52		20:20 (KLZ_WT21)	06:38		07:05 (SAM_WT11)	07:27			08:16		09:45 (CBR_WT01)	08:09		15:15 (KLZ_WT10)	08:46		13:22 (KLZ_WT11)
	21:50	39	20:59 (KLZ_WT21)	20:59	22	07:27 (SAM_WT11)	19:50			18:44	64	18:17 (KLZ_WT16)	16:52	19	15:34 (KLZ_WT10)	16:39	51	15:47 (KLZ_WT10)
21	05:54		20:21 (KLZ_WT21)	06:40		07:06 (SAM_WT11)	07:28			08:17		09:44 (CBR_WT01)	08:11		15:14 (KLZ_WT10)	08:46		13:22 (KLZ_WT11)
	21:49	44	21:16 (KLZ_WT13)	20:57	20	07:26 (SAM_WT11)	19:48			18:42	65	18:14 (KLZ_WT16)	16:51	21	15:35 (KLZ_WT10)	16:40	51	15:47 (KLZ_WT10)
22	05:55		20:22 (KLZ_WT21)	06:41		07:08 (SAM_WT11)	07:30			08:19		09:44 (CBR_WT01)	08:12		15:14 (KLZ_WT10)	08:47		13:23 (KLZ_WT11)
	21:48	44	21:17 (KLZ_WT13)	20:55	18	07:26 (SAM_WT11)	19:46			18:40	63	18:12 (KLZ_WT16)	16:50	22	15:36 (KLZ_WT10)	16:40	51	15:48 (KLZ_WT10)
23	05:56		20:23 (KLZ_WT21)	06:43		07:09 (SAM_WT11)	07:32		08:32 (SAM_WT05)	08:21		09:45 (CBR_WT01)	08:14		15:13 (KLZ_WT10)	08:48		13:23 (KLZ_WT11)
	21:46	41	21:16 (KLZ_WT13)	20:52	16	07:25 (SAM_WT11)	19:43	9	08:41 (SAM_WT05)	18:38	60	10:45 (CBR_WT01)	16:49	23	15:36 (KLZ_WT10)	16:41	51	15:48 (KLZ_WT10)
24	05:58		20:24 (KLZ_WT21)	06:44		07:11 (SAM_WT11)	07:33		08:29 (SAM_WT05)	08:23		09:45 (CBR_WT01)	08:15		15:13 (KLZ_WT10)	08:48		13:23 (KLZ_WT11)
	21:45	38	21:14 (KLZ_WT13)	20:50	13	07:24 (SAM_WT11)	19:41	15	08:44 (SAM_WT05)	18:36	60	10:45 (CBR_WT01)	16:48	24	15:37 (KLZ_WT10)	16:41	51	15:48 (KLZ_WT10)
25	05:59		20:27 (KLZ_WT21)	06:46		07:12 (SAM_WT11)	07:35		08:26 (SAM_WT05)	07:24		08:46 (CBR_WT01)	08:17		15:13 (KLZ_WT10)	08:48		13:24 (KLZ_WT11)
	21:44	34	21:14 (KLZ_WT13)	20:48	10	07:22 (SAM_WT11)	19:39	19	08:45 (SAM_WT05)	17:34	59	09:45 (CBR_WT01)	16:47	28	16:15 (NES_WT01)	16:42	51	15:49 (KLZ_WT10)
26	06:00		20:28 (KLZ_WT21)	06:48		07:14 (SAM_WT11)	07:36		08:24 (SAM_WT05)	07:26		08:45 (CBR_WT01)	08:19		15:13 (KLZ_WT10)	08:49		13:25 (KLZ_WT11)
	21:42	30	21:12 (KLZ_WT13)	20:46	7	07:21 (SAM_WT11)	19:37	23	08:47 (SAM_WT05)	17:32	58	09:43 (CBR_WT01)	16:46	28	16:14 (NES_WT01)	16:43	50	15:49 (KLZ_WT10)
27	06:02		20:30 (KLZ_WT21)	06:49		07:15 (SAM_WT11)	07:38		08:23 (SAM_WT05)	07:28		08:46 (CBR_WT01)	08:20		15:13 (KLZ_WT10)	08:49		13:25 (KLZ_WT11)
	21:41	24	21:11 (KLZ_WT13)	20:44	2	07:17 (SAM_WT11)	19:34	25	08:48 (SAM_WT05)	17:30	57	09:43 (CBR_WT01)	16:45	28	16:13 (NES_WT01)	16:43	51	15:50 (KLZ_WT10)
28	06:03		20:34 (KLZ_WT21)	06:51			07:40		08:22 (SAM_WT05)	07:30		08:47 (CBR_WT01)	08:22		15:14 (KLZ_WT10)	08:49		13:26 (KLZ_WT11)
	21:40	15	21:10 (KLZ_WT13)	20:42			19:32	26	08:48 (SAM_WT05)	17:28	55	09:42 (CBR_WT01)	16:44	27	16:12 (NES_WT01)	16:44	50	15:50 (KLZ_WT10)
29	06:05		21:07 (KLZ_WT13)	06:52			07:41		08:21 (SAM_WT05)	07:31		08:48 (CBR_WT01)	08:23		15:13 (KLZ_WT10)	08:49		13:27 (KLZ_WT11)
	21:38	1	21:08 (KLZ_WT13)	20:40			19:30	40	10:24 (CBR_WT01)	17:26	53	09:41 (CBR_WT01)	16:43	27	15:40 (KLZ_WT10)	16:45	49	15:51 (KLZ_WT10)
30	06:06			06:54			07:43		08:20 (SAM_WT05)	07:33		08:49 (CBR_WT01)	08:25		15:14 (KLZ_WT10)	08:49		13:27 (KLZ_WT11)
	21:37			20:38			19:28	54	19:00 (KLZ_WT15)	17:25	52	09:41 (CBR_WT01)	16:43	27	15:41 (KLZ_WT10)	16:46	49	15:51 (KLZ_WT10)
31	06:08			06:55		07:39 (SAM_WT04)				07:35		08:50 (CBR_WT01)				08:49		13:28 (KLZ_WT11)
	21:35			20:35	8	07:47 (SAM_WT04)				17:23	50	09:40 (CBR_WT01)				16:47	50	15:52 (KLZ_WT10)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1600			468			393			2232			724			1414	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,58			0,64			0,59			0,56			0,64			0,71	
Total reduction		0,25			0,29			0,25			0,20			0,17			0,16	
Total, real		407			137			98			442			121			221	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May		June	
1	08:49	08:24		17:05 (NES_WT01)	07:32		13:53 (CBR_WT01)	07:23		08:19 (SAM_WT05)	06:20		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:48	17:35	1	17:06 (NES_WT01)	18:25	121	17:51 (KLZ_WT10)	20:17	195	16:35 (CBR_WT01)	21:06	110	20:38 (EVE_WT02)	21:50	47	20:50 (KLZ_WT21)
2	08:49	08:22			07:30		13:51 (CBR_WT01)	07:21		08:19 (SAM_WT05)	06:18		06:53 (SAM_WT04)	05:36		06:04 (SAM_WT08)
	16:49	17:36			18:26	125	17:51 (KLZ_WT10)	20:19	194	16:35 (CBR_WT01)	21:08	106	20:40 (EVE_WT02)	21:51	47	20:51 (KLZ_WT21)
3	08:49	08:21			07:28		13:49 (CBR_WT01)	07:19		08:19 (SAM_WT05)	06:16		06:53 (SAM_WT04)	05:35		06:03 (SAM_WT08)
	16:50	17:38			18:28	127	17:50 (KLZ_WT10)	20:20	194	16:35 (CBR_WT01)	21:09	102	20:41 (EVE_WT02)	21:53	47	20:50 (KLZ_WT21)
4	08:49	08:19			07:26		13:47 (CBR_WT01)	07:16		08:19 (SAM_WT05)	06:15		06:53 (SAM_WT04)	05:34		06:02 (SAM_WT08)
	16:51	17:40			18:30	128	17:49 (KLZ_WT10)	20:22	194	16:35 (CBR_WT01)	21:11	96	16:17 (CBR_WT01)	21:54	49	20:50 (KLZ_WT21)
5	08:49	08:18			07:24		13:44 (CBR_WT01)	07:14		08:19 (SAM_WT05)	06:13		06:53 (SAM_WT04)	05:33		06:02 (SAM_WT08)
	16:52	17:42			18:32	124	17:46 (KLZ_WT10)	20:24	193	16:35 (CBR_WT01)	21:13	102	20:41 (KLZ_WT21)	21:55	49	20:50 (KLZ_WT21)
6	08:49	08:16			07:21		13:43 (CBR_WT01)	07:12		08:18 (SAM_WT05)	06:11		06:53 (SAM_WT04)	05:33		06:01 (SAM_WT08)
	16:54	17:44			18:33	116	17:32 (KLZ_WT11)	20:25	192	16:34 (CBR_WT01)	21:14	101	20:43 (KLZ_WT21)	21:55	49	20:49 (KLZ_WT21)
7	08:48	08:14			07:19		13:41 (CBR_WT01)	07:10		08:18 (SAM_WT05)	06:09		06:54 (SAM_WT04)	05:32		06:01 (SAM_WT08)
	16:55	17:45			18:35	115	17:30 (KLZ_WT11)	20:27	191	16:34 (CBR_WT01)	21:16	99	20:46 (KLZ_WT21)	21:56	48	20:49 (KLZ_WT21)
8	08:48	08:13			07:17		13:40 (CBR_WT01)	07:08		08:19 (SAM_WT05)	06:08		06:55 (SAM_WT04)	05:32		06:00 (SAM_WT08)
	16:56	17:47			18:37	115	18:12 (KLZ_WT22)	20:28	189	16:34 (CBR_WT01)	21:17	95	20:47 (KLZ_WT21)	21:57	48	20:48 (KLZ_WT21)
9	08:47	08:11			07:15		13:38 (CBR_WT01)	07:05		08:19 (SAM_WT05)	06:06		06:56 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:57	17:49			18:38	118	18:13 (KLZ_WT22)	20:30	187	16:34 (CBR_WT01)	21:19	91	20:48 (KLZ_WT21)	21:58	48	20:48 (KLZ_WT21)
10	08:47	08:09			07:13		13:36 (CBR_WT01)	07:03		08:20 (SAM_WT05)	06:04		06:57 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59	17:51			18:40	124	18:15 (KLZ_WT22)	20:32	185	16:34 (CBR_WT01)	21:20	85	20:49 (KLZ_WT21)	21:59	47	20:48 (KLZ_WT21)
11	08:46	08:08			07:10		13:35 (CBR_WT01)	07:01		08:19 (SAM_WT05)	06:03		06:58 (SAM_WT04)	05:31		05:59 (SAM_WT08)
	17:00	17:53			18:42	129	18:17 (KLZ_WT22)	20:33	182	16:32 (CBR_WT01)	21:22	79	20:50 (KLZ_WT21)	21:59	47	20:47 (KLZ_WT21)
12	08:46	08:06			07:08		13:34 (CBR_WT01)	06:59		08:20 (SAM_WT05)	06:01		06:59 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02	17:54			18:44	134	18:18 (KLZ_WT22)	20:35	179	16:32 (CBR_WT01)	21:24	71	20:54 (KLZ_WT13)	22:00	47	20:47 (KLZ_WT21)
13	08:45	08:04			07:06		13:32 (CBR_WT01)	06:57		08:21 (SAM_WT05)	05:59		07:02 (SAM_WT04)	05:30		05:59 (SAM_WT11)
	17:03	17:56			18:45	136	18:17 (KLZ_WT22)	20:37	175	16:32 (CBR_WT01)	21:25	59	20:56 (KLZ_WT13)	22:01	47	20:47 (KLZ_WT21)
14	08:44	08:02			07:04		13:31 (CBR_WT01)	06:55		08:22 (SAM_WT05)	05:58		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:05	17:58			18:47	138	18:17 (KLZ_WT22)	20:38	171	16:31 (CBR_WT01)	21:27	33	20:57 (KLZ_WT13)	22:01	47	20:47 (KLZ_WT21)
15	08:44	08:00			07:01		07:50 (SAM_WT05)	06:52		08:23 (SAM_WT05)	05:56		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:06	18:00			18:49	146	18:17 (KLZ_WT22)	20:40	167	16:31 (CBR_WT01)	21:28	31	20:51 (KLZ_WT21)	22:02	46	20:47 (KLZ_WT21)
16	08:43	07:58			06:59		07:43 (SAM_WT05)	06:50		08:25 (SAM_WT05)	05:55		20:20 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:08	18:02			18:50	160	18:17 (KLZ_WT22)	20:42	161	16:31 (CBR_WT01)	21:30	32	20:52 (KLZ_WT21)	22:02	47	20:47 (KLZ_WT21)
17	08:42	07:56			06:57		07:39 (SAM_WT05)	06:48		08:26 (SAM_WT05)	05:53		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:09	18:03			18:52	166	18:15 (KLZ_WT22)	20:43	155	16:30 (CBR_WT01)	21:31	33	20:52 (KLZ_WT21)	22:03	46	20:47 (KLZ_WT21)
18	08:41	07:54			06:55		07:36 (SAM_WT05)	06:46		08:28 (SAM_WT05)	05:52		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:11	18:05			18:54	171	18:13 (KLZ_WT22)	20:45	149	16:30 (CBR_WT01)	21:32	33	20:52 (KLZ_WT21)	22:03	46	20:47 (KLZ_WT21)
19	08:40	07:53			06:52		07:34 (SAM_WT05)	06:44		08:31 (SAM_WT05)	05:51		20:19 (KLZ_WT21)	05:29		05:59 (SAM_WT11)
	17:12	18:07			18:55	171	18:10 (KLZ_WT22)	20:47	139	16:29 (CBR_WT01)	21:34	33	20:52 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
20	08:39	07:51		17:22 (KLZ_WT11)	06:50		07:32 (SAM_WT05)	06:42		07:08 (SAM_WT04)	05:49		20:20 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:14	18:09	6	17:28 (KLZ_WT11)	18:57	169	15:34 (CBR_WT01)	20:48	130	16:29 (CBR_WT01)	21:35	33	20:53 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
21	08:38	07:49		14:21 (CBR_WT01)	06:48		07:30 (SAM_WT05)	06:40		07:04 (SAM_WT04)	05:48		20:19 (KLZ_WT21)	05:30		05:59 (SAM_WT11)
	17:16	18:11	40	17:31 (KLZ_WT11)	18:59	173	15:34 (CBR_WT01)	20:50	129	16:28 (CBR_WT01)	21:37	33	20:52 (KLZ_WT21)	22:04	45	20:47 (KLZ_WT21)
22	08:37	07:47		14:15 (CBR_WT01)	06:46		07:28 (SAM_WT05)	06:38		07:01 (SAM_WT04)	05:47		20:19 (KLZ_WT21)	05:30		06:00 (SAM_WT11)
	17:17	18:12	54	17:33 (KLZ_WT11)	19:00	177	15:34 (CBR_WT01)	20:51	131	16:27 (CBR_WT01)	21:38	33	20:52 (KLZ_WT21)	22:04	45	20:48 (KLZ_WT21)
23	08:36	07:45		14:11 (CBR_WT01)	06:43		07:27 (SAM_WT05)	06:36		06:59 (SAM_WT04)	05:46		20:19 (KLZ_WT21)	05:30		06:00 (SAM_WT11)
	17:19	18:14	72	17:46 (KLZ_WT10)	19:02	180	15:35 (CBR_WT01)	20:53	131	16:27 (CBR_WT01)	21:39	33	20:52 (KLZ_WT21)	22:05	45	20:48 (KLZ_WT21)
24	08:35	07:42		14:07 (CBR_WT01)	06:41		07:25 (SAM_WT05)	06:34		06:58 (SAM_WT04)	05:44		06:11 (SWB_WT01_RP)	05:30		06:00 (SAM_WT11)
	17:21	18:16	88	17:50 (KLZ_WT08)	19:04	183	15:34 (CBR_WT01)	20:55	130	16:26 (CBR_WT01)	21:41	34	21:10 (EVE_WT01)	22:05	46	20:48 (KLZ_WT21)
25	08:33	07:40		14:04 (CBR_WT01)	06:39		07:24 (SAM_WT05)	06:32		06:56 (SAM_WT04)	05:43		06:10 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:22	18:18	99	17:52 (KLZ_WT08)	19:05	186	15:35 (CBR_WT01)	20:56	129	16:25 (CBR_WT01)	21:42	35	21:11 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
26	08:32	07:38		14:01 (CBR_WT01)	06:37		07:23 (SAM_WT05)	06:30		06:55 (SAM_WT04)	05:42		06:09 (SAM_WT08)	05:31		06:01 (SAM_WT11)
	17:24	18:19	108	17:54 (KLZ_WT08)	19:07	188	15:35 (CBR_WT01)	20:58	126	16:24 (CBR_WT01)	21:43	39	21:12 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
27	08:31	07:36		13:57 (CBR_WT01)	06:34		07:23 (SAM_WT05)	06:28		06:54 (SAM_WT04)	05:41		06:08 (SAM_WT08)	05:32		06:01 (SAM_WT11)
	17:26	18:21	116	17:55 (KLZ_WT08)	19:09	190	15:36 (CBR_WT01)	21:00	123	16:23 (CBR_WT01)	21:45	40	21:13 (EVE_WT01)	22:05	46	20:49 (KLZ_WT21)
28	08:30	07:34		13:55 (CBR_WT01)	06:32		07:21 (SAM_WT05)	06:26		06:54 (SAM_WT04)	05:40		06:07 (SAM_WT08)	05:32		06:02 (SAM_WT11)
	17:28	18:23	120	17:54 (KLZ_WT08)	19:10	191	15:35 (CBR_WT01)	21:01	119	16:22 (CBR_WT01)	21:46	42	20:51 (KLZ_WT21)	22:05	47	20:50 (KLZ_WT21)
29	08:28				07:30		08:21 (SAM_WT05)	06:24		06:54 (SAM_WT04)	05:39		06:06 (SAM_WT08)	05:33		06:02 (SAM_WT11)
	17:29				20:12	191	16:35 (CBR_WT01)	21:03	116	16:22 (CBR_WT01)	21:47	44	20:51 (KLZ_WT21)	22:05	46	20:50 (KLZ_WT21)
30	08:27				07:28		08:20 (SAM_WT05)	06:22		06:54 (SAM_WT04)	05:38		06:06 (SAM_WT08)	05:33		06:03 (SAM_WT08)
	17:31				20:14	194	16:35 (CBR_WT01)	21:05	112	16:21 (CBR_WT01)	21:48	44	20:51 (KLZ_WT21)	22:04	47	20:51 (KLZ_WT21)
31	08:25				07:25		08:20 (SAM_WT05)				05:37		06:05 (SAM_WT08)			
	17:33				20:15	195	16:36 (CBR_WT01)				21:49	46	20:51 (KLZ_WT21)			
Potential sun hours	262		279		367			415			482			495		
Total, worst case			704			4781			4768			1847			1401	
Sun reduction			0,30			0,38			0,46			0,46			0,44	
Oper. time red.			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.			0,71			0,70			0,70			0,64			0,67	
Total reduction			0,21			0,26			0,32			0,29			0,29	
Total, real			147			1244			1507			530			403	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 11 - Arbedkaai 3, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November	December
1	05:34		06:04 (SAM_WT08)	06:09		07:09 (SAM_WT04)	06:57		08:19 (SAM_WT05)	07:44		14:12 (CBR_WT01)	07:36	08:26
	22:04	47	20:52 (KLZ_WT21)	21:33	74	21:00 (KLZ_WT21)	20:33	182	16:32 (CBR_WT01)	19:25	135	18:57 (KLZ_WT22)	17:21	16:42
2	05:34		06:04 (SAM_WT08)	06:10		07:07 (SAM_WT04)	06:59		08:18 (SAM_WT05)	07:46		14:13 (CBR_WT01)	07:38	08:27
	22:04	48	20:52 (KLZ_WT21)	21:32	82	20:59 (KLZ_WT21)	20:31	184	16:31 (CBR_WT01)	19:23	132	18:56 (KLZ_WT22)	17:19	16:41
3	05:35		06:05 (SAM_WT08)	06:12		07:07 (SAM_WT04)	07:00		08:17 (SAM_WT05)	07:48		14:14 (CBR_WT01)	07:40	08:29
	22:03	48	20:53 (KLZ_WT21)	21:30	87	20:59 (KLZ_WT21)	20:29	187	16:32 (CBR_WT01)	19:21	127	18:54 (KLZ_WT22)	17:17	16:41
4	05:36		06:06 (SAM_WT08)	06:13		07:05 (SAM_WT04)	07:02		08:16 (SAM_WT05)	07:49		14:15 (CBR_WT01)	07:42	08:30
	22:03	48	20:54 (KLZ_WT21)	21:29	93	20:57 (KLZ_WT21)	20:27	189	16:31 (CBR_WT01)	19:19	122	18:52 (KLZ_WT22)	17:16	16:40
5	05:37		06:06 (SAM_WT08)	06:15		07:05 (SAM_WT04)	07:03		08:15 (SAM_WT05)	07:51		14:16 (CBR_WT01)	07:43	08:31
	22:03	48	20:54 (KLZ_WT21)	21:27	97	20:57 (KLZ_WT21)	20:24	191	16:31 (CBR_WT01)	19:16	115	18:50 (KLZ_WT22)	17:14	16:40
6	05:37		06:07 (SAM_WT08)	06:16		07:04 (SAM_WT04)	07:05		08:14 (SAM_WT05)	07:52		14:17 (CBR_WT01)	07:45	08:33
	22:02	48	20:55 (KLZ_WT21)	21:25	100	20:55 (KLZ_WT21)	20:22	192	16:30 (CBR_WT01)	19:14	114	18:05 (KLZ_WT11)	17:12	16:39
7	05:38		06:08 (SAM_WT08)	06:18		07:04 (SAM_WT04)	07:06		08:14 (SAM_WT05)	07:54		14:18 (CBR_WT01)	07:47	08:34
	22:02	48	20:56 (KLZ_WT21)	21:23	102	20:53 (KLZ_WT21)	20:20	193	16:30 (CBR_WT01)	19:12	116	18:07 (KLZ_WT11)	17:11	16:39
8	05:39		06:09 (SAM_WT08)	06:20		07:03 (SAM_WT04)	07:08		08:13 (SAM_WT05)	07:56		14:20 (CBR_WT01)	07:49	08:35
	22:01	48	20:57 (KLZ_WT21)	21:22	102	20:50 (KLZ_WT21)	20:18	194	16:29 (CBR_WT01)	19:10	119	18:20 (KLZ_WT10)	17:09	16:39
9	05:40		06:10 (SAM_WT08)	06:21		07:02 (SAM_WT04)	07:10		08:13 (SAM_WT05)	07:57		14:20 (CBR_WT01)	07:50	08:36
	22:00	48	20:57 (KLZ_WT21)	21:20	98	20:51 (EVE_WT02)	20:15	194	16:29 (CBR_WT01)	19:08	127	18:22 (KLZ_WT10)	17:07	16:38
10	05:41		06:11 (SAM_WT08)	06:23		07:02 (SAM_WT04)	07:11		08:12 (SAM_WT05)	07:59		14:22 (CBR_WT01)	07:52	08:37
	22:00	48	20:58 (KLZ_WT21)	21:18	103	20:50 (EVE_WT02)	20:13	195	16:28 (CBR_WT01)	19:05	128	18:24 (KLZ_WT10)	17:06	16:38
11	05:42		06:12 (SAM_WT08)	06:24		07:01 (SAM_WT04)	07:13		08:12 (SAM_WT05)	08:01		14:24 (CBR_WT01)	07:54	08:38
	21:59	47	20:59 (KLZ_WT21)	21:16	108	20:48 (EVE_WT02)	20:11	195	16:28 (CBR_WT01)	19:03	126	18:25 (KLZ_WT10)	17:04	16:38
12	05:43		06:13 (SAM_WT08)	06:26		07:02 (SAM_WT04)	07:14		08:11 (SAM_WT05)	08:02		14:25 (CBR_WT01)	07:56	08:39
	21:58	46	20:59 (KLZ_WT21)	21:14	110	16:29 (CBR_WT01)	20:09	195	16:27 (CBR_WT01)	19:01	123	18:24 (KLZ_WT10)	17:03	16:38
13	05:44		06:14 (SAM_WT08)	06:27		07:01 (SAM_WT04)	07:16		08:12 (SAM_WT05)	08:04		14:27 (CBR_WT01)	07:57	08:40
	21:57	46	21:00 (KLZ_WT21)	21:12	115	16:29 (CBR_WT01)	20:06	193	16:27 (CBR_WT01)	18:59	120	18:25 (KLZ_WT10)	17:01	16:38
14	05:45		06:15 (SAM_WT08)	06:29		07:02 (SAM_WT04)	07:17		08:11 (SAM_WT05)	08:06		14:29 (CBR_WT01)	07:59	08:41
	21:56	44	21:00 (KLZ_WT21)	21:11	118	16:30 (CBR_WT01)	20:04	193	16:26 (CBR_WT01)	18:57	119	18:28 (KLZ_WT08)	17:00	16:38
15	05:46		06:16 (SAM_WT08)	06:30		07:01 (SAM_WT04)	07:19		08:11 (SAM_WT05)	08:07		14:32 (CBR_WT01)	08:01	08:42
	21:55	42	21:00 (KLZ_WT21)	21:09	122	16:30 (CBR_WT01)	20:02	192	16:25 (CBR_WT01)	18:55	112	18:27 (KLZ_WT08)	16:58	16:38
16	05:48		06:17 (SAM_WT08)	06:32		07:02 (SAM_WT04)	07:21		08:11 (SAM_WT05)	08:09		14:33 (CBR_WT01)	08:02	08:43
	21:54	42	21:01 (KLZ_WT21)	21:07	124	16:31 (CBR_WT01)	19:59	190	16:24 (CBR_WT01)	18:52	106	18:24 (KLZ_WT08)	16:57	16:38
17	05:49		06:18 (SAM_WT08)	06:33		07:02 (SAM_WT04)	07:22		08:12 (SAM_WT05)	08:11		14:36 (CBR_WT01)	08:04	08:44
	21:53	40	21:22 (EVE_WT01)	21:05	127	16:31 (CBR_WT01)	19:57	188	16:24 (CBR_WT01)	18:50	95	18:22 (KLZ_WT08)	16:56	16:38
18	05:50		06:19 (SAM_WT08)	06:35		07:03 (SAM_WT04)	07:24		08:11 (SAM_WT05)	08:12		14:40 (CBR_WT01)	08:06	08:44
	21:52	36	21:21 (EVE_WT01)	21:03	129	16:32 (CBR_WT01)	19:55	186	16:22 (CBR_WT01)	18:48	81	18:19 (KLZ_WT10)	16:55	16:39
19	05:51		06:20 (SWB_WT01_RP)	06:37		07:04 (SAM_WT04)	07:25		08:12 (SAM_WT05)	08:14		14:43 (CBR_WT01)	08:07	08:45
	21:51	35	21:20 (EVE_WT01)	21:01	130	16:32 (CBR_WT01)	19:53	184	16:22 (CBR_WT01)	18:46	64	18:06 (KLZ_WT11)	16:53	16:39
20	05:52		06:21 (SWB_WT01_RP)	06:38		07:05 (SAM_WT04)	07:27		08:13 (SAM_WT05)	08:16		14:47 (CBR_WT01)	08:09	08:46
	21:50	34	21:19 (EVE_WT01)	20:59	131	16:32 (CBR_WT01)	19:50	182	16:22 (CBR_WT01)	18:44	51	18:03 (KLZ_WT11)	16:52	16:39
21	05:54		20:30 (KLZ_WT21)	06:40		07:06 (SAM_WT04)	07:28		08:14 (SAM_WT05)	08:17		14:54 (CBR_WT01)	08:11	08:46
	21:49	32	21:02 (KLZ_WT21)	20:57	130	16:32 (CBR_WT01)	19:48	177	16:20 (CBR_WT01)	18:42	33	18:01 (KLZ_WT11)	16:51	16:40
22	05:55		20:30 (KLZ_WT21)	06:41		07:09 (SAM_WT04)	07:30		08:15 (SAM_WT05)	08:19		17:54 (KLZ_WT11)	08:12	08:47
	21:48	32	21:02 (KLZ_WT21)	20:55	129	16:33 (CBR_WT01)	19:46	175	16:20 (CBR_WT01)	18:40	3	17:57 (KLZ_WT11)	16:50	16:40
23	05:56		20:29 (KLZ_WT21)	06:43		08:39 (SAM_WT05)	07:32		08:16 (SAM_WT05)	08:21			08:14	08:47
	21:46	33	21:02 (KLZ_WT21)	20:52	128	16:32 (CBR_WT01)	19:43	170	16:18 (CBR_WT01)	18:38			16:49	16:41
24	05:58		20:29 (KLZ_WT21)	06:44		08:35 (SAM_WT05)	07:33		08:17 (SAM_WT05)	08:23			08:15	08:48
	21:45	33	21:02 (KLZ_WT21)	20:50	141	16:33 (CBR_WT01)	19:41	167	18:52 (KLZ_WT22)	18:36			16:48	16:41
25	05:59		20:30 (KLZ_WT21)	06:46		08:31 (SAM_WT05)	07:35		08:18 (SAM_WT05)	07:24			08:17	08:48
	21:44	33	21:03 (KLZ_WT21)	20:48	149	16:32 (CBR_WT01)	19:39	170	18:55 (KLZ_WT22)	17:34			16:47	16:42
26	06:00		20:30 (KLZ_WT21)	06:48		08:29 (SAM_WT05)	07:36		08:21 (SAM_WT05)	07:26			08:19	08:49
	21:42	32	21:02 (KLZ_WT21)	20:46	156	16:33 (CBR_WT01)	19:37	168	18:57 (KLZ_WT22)	17:32			16:46	16:43
27	06:02		20:29 (KLZ_WT21)	06:49		08:26 (SAM_WT05)	07:38		08:24 (SAM_WT05)	07:28			08:20	08:49
	21:41	33	21:02 (KLZ_WT21)	20:44	162	16:32 (CBR_WT01)	19:34	162	18:58 (KLZ_WT22)	17:30			16:45	16:43
28	06:03		20:30 (KLZ_WT21)	06:51		08:25 (SAM_WT05)	07:40		08:27 (SAM_WT05)	07:29			08:22	08:49
	21:40	32	21:02 (KLZ_WT21)	20:42	167	16:33 (CBR_WT01)	19:32	154	18:58 (KLZ_WT22)	17:28			16:44	16:44
29	06:05		20:30 (KLZ_WT21)	06:52		08:23 (SAM_WT05)	07:41		14:11 (CBR_WT01)	07:31			08:23	08:49
	21:38	33	21:08 (KLZ_WT13)	20:40	171	16:32 (CBR_WT01)	19:30	139	18:58 (KLZ_WT22)	17:26			16:43	16:45
30	06:06		07:14 (SAM_WT04)	06:54		08:22 (SAM_WT05)	07:43		14:11 (CBR_WT01)	07:33			08:24	08:49
	21:37	47	21:07 (KLZ_WT13)	20:38	175	16:33 (CBR_WT01)	19:28	137	18:57 (KLZ_WT22)	17:25			16:43	16:46
31	06:08		07:11 (SAM_WT04)	06:55		08:20 (SAM_WT05)				07:35				08:49
	21:35	64	21:06 (KLZ_WT13)	20:35	179	16:32 (CBR_WT01)				17:23				16:47
Potential sun hours	498			451			380			333			269	248
Total, worst case		1295			3839			5418			2268			
Sun reduction		0,45			0,47			0,43			0,36			
Oper. time red.		0,98			0,98			0,98			0,98			
Wind dir. red.		0,62			0,70			0,69			0,72			
Total reduction		0,27			0,32			0,29			0,25			
Total, real		348			1224			1589			576			

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		09:18 (MVN_WT01)	07:32			07:23			06:20		06:44 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:48			17:35	7	09:25 (MVN_WT01)	18:25			20:17			21:06	19	07:03 (SAM_WT05)	21:50	23	20:40 (KLZ_WT10)
2	08:49			08:22			07:30			07:21		19:39 (KLZ_WT22)	06:18		06:42 (SAM_WT05)	05:36		20:17 (KLZ_WT10)
	16:49			17:36			18:26			20:19	7	19:46 (KLZ_WT22)	21:08	22	07:04 (SAM_WT05)	21:51	25	20:42 (KLZ_WT10)
3	08:49			08:21		17:07 (NES_WT01)	07:28			07:19		19:36 (KLZ_WT22)	06:16		06:41 (SAM_WT05)	05:35		20:16 (KLZ_WT10)
	16:50			17:38	2	17:09 (NES_WT01)	18:28			20:20	13	19:49 (KLZ_WT22)	21:09	24	07:05 (SAM_WT05)	21:53	27	20:43 (KLZ_WT10)
4	08:49			08:19		17:08 (NES_WT01)	07:26			07:17		19:34 (KLZ_WT22)	06:15		06:40 (SAM_WT05)	05:34		20:15 (KLZ_WT10)
	16:51			17:40	3	17:11 (NES_WT01)	18:30			20:22	17	19:51 (KLZ_WT22)	21:11	25	07:05 (SAM_WT05)	21:54	28	20:43 (KLZ_WT10)
5	08:49			08:18		17:08 (NES_WT01)	07:24			07:14		19:32 (KLZ_WT22)	06:13		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT08)
	16:53			17:42	5	17:13 (NES_WT01)	18:32			20:24	21	19:53 (KLZ_WT22)	21:13	26	07:05 (SAM_WT05)	21:55	30	20:44 (KLZ_WT10)
6	08:49			08:16		17:09 (NES_WT01)	07:21			07:12		19:30 (KLZ_WT22)	06:11		06:38 (SAM_WT05)	05:33		06:01 (SAM_WT08)
	16:54			17:44	6	17:15 (NES_WT01)	18:33			20:25	23	19:53 (KLZ_WT22)	21:14	27	07:05 (SAM_WT05)	21:55	32	20:45 (KLZ_WT10)
7	08:48			08:14		17:10 (NES_WT01)	07:19			07:10		19:29 (KLZ_WT22)	06:09		06:39 (SAM_WT05)	05:32		06:01 (SAM_WT08)
	16:55			17:45	5	17:15 (NES_WT01)	18:35			20:27	24	19:53 (KLZ_WT22)	21:16	27	07:06 (SAM_WT05)	21:56	34	20:46 (KLZ_WT10)
8	08:48			08:13			07:17			07:08		19:28 (KLZ_WT22)	06:08		06:38 (SAM_WT05)	05:32		06:00 (SAM_WT08)
	16:56			17:47			18:37			20:28	28	20:03 (KLZ_WT15)	21:17	27	07:05 (SAM_WT05)	21:57	35	20:46 (KLZ_WT10)
9	08:47			08:11			07:15			07:05		19:28 (KLZ_WT22)	06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:58			17:49			18:39			20:30	30	20:05 (KLZ_WT15)	21:19	30	07:06 (SAM_WT05)	21:58	36	20:47 (KLZ_WT10)
10	08:47			08:09			07:13			07:03		19:28 (KLZ_WT22)	06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	16:59			17:51			18:40			20:32	30	20:06 (KLZ_WT15)	21:20	32	07:05 (SAM_WT05)	21:59	37	20:48 (KLZ_WT10)
11	08:46			08:08			07:10			07:01		19:28 (KLZ_WT22)	06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT08)
	17:00			17:53			18:42			20:33	31	20:08 (KLZ_WT15)	21:22	34	07:05 (SAM_WT05)	22:00	39	20:49 (KLZ_WT10)
12	08:46			08:06			07:08			06:59		19:27 (KLZ_WT22)	06:01		06:26 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:02			17:54			18:44			20:35	29	20:07 (KLZ_WT15)	21:24	36	07:05 (SAM_WT05)	22:00	39	20:48 (KLZ_WT10)
13	08:45		09:14 (MVN_WT01)	08:04			07:06			06:57		19:27 (KLZ_WT22)	05:59		06:25 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:03	6	09:20 (MVN_WT01)	17:56			18:45			20:37	25	19:52 (KLZ_WT22)	21:25	37	07:05 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
14	08:44		09:13 (MVN_WT01)	08:02			07:04			06:55		19:27 (KLZ_WT22)	05:58		06:23 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:05	9	09:22 (MVN_WT01)	17:58			18:47			20:38	24	19:51 (KLZ_WT22)	21:27	37	07:03 (SAM_WT05)	22:01	40	20:49 (KLZ_WT10)
15	08:44		09:12 (MVN_WT01)	08:00			07:02			06:52		19:28 (KLZ_WT22)	05:56		06:22 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:06	11	09:23 (MVN_WT01)	18:00			18:49			20:40	22	19:50 (KLZ_WT22)	21:28	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
16	08:43		09:11 (MVN_WT01)	07:58			06:59		18:25 (KLZ_WT16)	06:50		19:29 (KLZ_WT22)	05:55		06:21 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:08	13	09:24 (MVN_WT01)	18:02			18:50	1	18:26 (KLZ_WT16)	20:42	20	19:49 (KLZ_WT22)	21:30	38	07:03 (SAM_WT05)	22:02	41	20:50 (KLZ_WT10)
17	08:42		09:10 (MVN_WT01)	07:56			06:57		18:24 (KLZ_WT16)	06:48		19:30 (KLZ_WT22)	05:53		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:09	15	09:25 (MVN_WT01)	18:03			18:52	3	18:27 (KLZ_WT16)	20:43	18	19:48 (KLZ_WT22)	21:31	37	07:01 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
18	08:41		09:10 (MVN_WT01)	07:54			06:55		18:25 (KLZ_WT16)	06:46		19:32 (KLZ_WT22)	05:52		06:19 (SAM_WT04)	05:29		05:59 (SAM_WT08)
	17:11	16	09:26 (MVN_WT01)	18:05			18:54	4	18:29 (KLZ_WT16)	20:45	14	19:46 (KLZ_WT22)	21:32	34	07:00 (SAM_WT05)	22:03	43	20:51 (KLZ_WT10)
19	08:40		09:10 (MVN_WT01)	07:53			06:53		18:26 (KLZ_WT16)	06:44		19:35 (KLZ_WT22)	05:51		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:12	17	09:27 (MVN_WT01)	18:07			18:55	5	18:31 (KLZ_WT16)	20:47	8	19:43 (KLZ_WT22)	21:34	33	07:00 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
20	08:39		09:09 (MVN_WT01)	07:51			06:50			06:42			05:49		06:20 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:14	18	09:27 (MVN_WT01)	18:09			18:57			20:48			21:35	28	06:58 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
21	08:38		09:09 (MVN_WT01)	07:49			06:48			06:40			05:48		06:19 (SAM_WT04)	05:30		05:59 (SAM_WT08)
	17:16	19	09:28 (MVN_WT01)	18:11			18:59			20:50			21:37	25	06:56 (SAM_WT05)	22:04	43	20:51 (KLZ_WT10)
22	08:37		09:09 (MVN_WT01)	07:47			06:46		18:29 (KLZ_WT08)	06:38			05:47		06:20 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:17	20	09:29 (MVN_WT01)	18:12			19:00	5	18:34 (KLZ_WT08)	20:52			21:38	15	06:35 (SAM_WT04)	22:04	43	20:52 (KLZ_WT10)
23	08:36		09:10 (MVN_WT01)	07:45			06:44		18:26 (KLZ_WT08)	06:36			05:46		06:21 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:19	20	09:30 (MVN_WT01)	18:14			19:02	10	18:36 (KLZ_WT08)	20:53			21:39	13	06:34 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
24	08:35		09:09 (MVN_WT01)	07:43			06:41		18:24 (KLZ_WT08)	06:34			05:44		06:22 (SAM_WT04)	05:30		06:00 (SAM_WT08)
	17:21	20	09:29 (MVN_WT01)	18:16			19:04	13	18:37 (KLZ_WT08)	20:55			21:41	11	06:33 (SAM_WT04)	22:05	43	20:52 (KLZ_WT10)
25	08:33		09:10 (MVN_WT01)	07:40			06:39		18:23 (KLZ_WT08)	06:32			05:43		06:23 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:22	20	09:30 (MVN_WT01)	18:18			19:05	15	18:38 (KLZ_WT08)	20:56			21:42	9	06:32 (SAM_WT04)	22:05	43	20:53 (KLZ_WT10)
26	08:32		09:11 (MVN_WT01)	07:38			06:37		18:22 (KLZ_WT08)	06:30			05:42		06:25 (SAM_WT04)	05:31		06:01 (SAM_WT08)
	17:24	19	09:30 (MVN_WT01)	18:19			19:07	16	18:38 (KLZ_WT08)	20:58			21:43	5	06:30 (SAM_WT04)	22:05	42	20:53 (KLZ_WT10)
27	08:31		09:11 (MVN_WT01)	07:36			06:34		18:22 (KLZ_WT08)	06:28			05:41		20:25 (KLZ_WT10)	05:32		06:01 (SAM_WT08)
	17:26	18	09:29 (MVN_WT01)	18:21			19:09	16	18:38 (KLZ_WT08)	21:00			21:45	6	20:31 (KLZ_WT10)	22:05	41	20:52 (KLZ_WT10)
28	08:30		09:12 (MVN_WT01)	07:34			06:32		18:22 (KLZ_WT08)	06:26		06:49 (SAM_WT05)	05:40		20:22 (KLZ_WT10)	05:32		06:02 (SAM_WT08)
	17:28	18	09:30 (MVN_WT01)	18:23			19:10	15	18:37 (KLZ_WT08)	21:01	9	06:58 (SAM_WT05)	21:46	12	20:34 (KLZ_WT10)	22:05	41	20:53 (KLZ_WT10)
29	08:28		09:12 (MVN_WT01)				07:30		19:22 (KLZ_WT08)	06:24		06:48 (SAM_WT05)	05:39		20:21 (KLZ_WT10)	05:33		06:02 (SAM_WT08)
	17:29	17	09:29 (MVN_WT01)				20:12	14	19:36 (KLZ_WT08)	21:03	13	07:01 (SAM_WT05)	21:47	16	20:37 (KLZ_WT10)	22:05	40	20:52 (KLZ_WT10)
30	08:27		09:14 (MVN_WT01)				07:28		19:23 (KLZ_WT08)	06:22		06:46 (SAM_WT05)	05:38		20:19 (KLZ_WT10)	05:33		06:03 (SAM_WT08)
	17:31	14	09:28 (MVN_WT01)				20:14	12	19:35 (KLZ_WT08)	21:05	16	07:02 (SAM_WT05)	21:48	19	20:38 (KLZ_WT10)	22:04	40	20:53 (KLZ_WT10)
31	08:25		09:15 (MVN_WT01)				07:25		19:25 (KLZ_WT08)				05:37		20:18 (KLZ_WT10)			
	17:33	12	09:27 (MVN_WT01)				20:15	9	19:34 (KLZ_WT08)				21:49	21	20:39 (KLZ_WT10)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case	302			28			138			422			763			1138		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,54			0,66			0,63			0,61			0,67			0,58		
Total reduction	0,13			0,19			0,23			0,28			0,30			0,25		
Total, real	39			5			32			117			227			286		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 12 - Terdonkkaai 8, 9042 Gent

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October	November			December
1	05:34		06:04 (SAM_WT08)	06:09		06:37 (SAM_WT04)	06:57		19:27 (KLZ_WT22)	07:44	07:36			08:26
	22:04	39	20:53 (KLZ_WT10)	21:33	35	07:15 (SAM_WT05)	20:33	32	20:07 (KLZ_WT15)	19:25	17:21			16:42
2	05:34		06:04 (SAM_WT08)	06:11		06:39 (SAM_WT04)	06:59		19:26 (KLZ_WT22)	07:46	07:38			08:27
	22:04	38	20:52 (KLZ_WT10)	21:32	34	07:16 (SAM_WT05)	20:31	30	20:04 (KLZ_WT15)	19:23	17:19			16:41
3	05:35		06:05 (SAM_WT08)	06:12		06:40 (SAM_WT04)	07:00		19:26 (KLZ_WT22)	07:48	07:40			08:29
	22:03	36	20:52 (KLZ_WT10)	21:30	31	07:16 (SAM_WT05)	20:29	30	20:03 (KLZ_WT15)	19:21	17:17			16:41
4	05:36		06:06 (SAM_WT08)	06:14		06:41 (SAM_WT04)	07:02		19:25 (KLZ_WT22)	07:49	07:42		16:39 (NES_WT01)	08:30
	22:03	35	20:52 (KLZ_WT10)	21:29	29	07:15 (SAM_WT05)	20:27	28	20:00 (KLZ_WT15)	19:19	17:16	6	16:45 (NES_WT01)	16:40
5	05:37		06:06 (SAM_WT08)	06:15		06:49 (SAM_WT05)	07:03		19:26 (KLZ_WT22)	07:51	07:43		16:38 (NES_WT01)	08:31
	22:03	34	20:51 (KLZ_WT10)	21:27	27	07:16 (SAM_WT05)	20:24	24	19:50 (KLZ_WT22)	19:16	17:14	6	16:44 (NES_WT01)	16:40
6	05:37		06:07 (SAM_WT08)	06:17		06:48 (SAM_WT05)	07:05		19:26 (KLZ_WT22)	07:52	07:45		16:38 (NES_WT01)	08:33
	22:02	33	20:51 (KLZ_WT10)	21:25	27	07:15 (SAM_WT05)	20:22	23	19:49 (KLZ_WT22)	19:14	17:12	5	16:43 (NES_WT01)	16:39
7	05:38		06:08 (SAM_WT08)	06:18		06:49 (SAM_WT05)	07:06		19:27 (KLZ_WT22)	07:54	07:47		16:38 (NES_WT01)	08:34
	22:02	31	20:51 (KLZ_WT10)	21:23	27	07:16 (SAM_WT05)	20:20	21	19:48 (KLZ_WT22)	19:12	17:11	3	16:41 (NES_WT01)	16:39
8	05:39		20:22 (KLZ_WT10)	06:20		06:49 (SAM_WT05)	07:08		19:28 (KLZ_WT22)	07:56	07:49		16:38 (NES_WT01)	08:35
	22:01	29	20:51 (KLZ_WT10)	21:22	26	07:15 (SAM_WT05)	20:18	17	19:45 (KLZ_WT22)	19:10	17:09	1	16:39 (NES_WT01)	16:39
9	05:40		20:23 (KLZ_WT10)	06:21		06:50 (SAM_WT05)	07:10		19:30 (KLZ_WT22)	07:57	07:50			08:36
	22:00	27	20:50 (KLZ_WT10)	21:20	25	07:15 (SAM_WT05)	20:15	14	19:44 (KLZ_WT22)	19:08	17:07			16:39
10	05:41		20:24 (KLZ_WT10)	06:23		06:50 (SAM_WT05)	07:11		19:32 (KLZ_WT22)	07:59	07:52		08:48 (MVN_WT01)	08:37
	22:00	26	20:50 (KLZ_WT10)	21:18	23	07:13 (SAM_WT05)	20:13	8	19:40 (KLZ_WT22)	19:05	17:06	8	08:56 (MVN_WT01)	16:38
11	05:42		20:25 (KLZ_WT10)	06:24		06:51 (SAM_WT05)	07:13			08:01	07:54		08:46 (MVN_WT01)	08:38
	21:59	24	20:49 (KLZ_WT10)	21:16	21	07:12 (SAM_WT05)	20:11			19:03	17:04	12	08:58 (MVN_WT01)	16:38
12	05:43		20:26 (KLZ_WT10)	06:26		06:53 (SAM_WT05)	07:14		19:17 (KLZ_WT08)	08:02	07:56		08:45 (MVN_WT01)	08:39
	21:58	22	20:48 (KLZ_WT10)	21:14	19	07:12 (SAM_WT05)	20:09	8	19:25 (KLZ_WT08)	19:01	17:03	14	08:59 (MVN_WT01)	16:38
13	05:44		20:27 (KLZ_WT10)	06:27		06:54 (SAM_WT05)	07:16		19:15 (KLZ_WT08)	08:04	07:57		08:44 (MVN_WT01)	08:40
	21:57	20	20:47 (KLZ_WT10)	21:12	16	07:10 (SAM_WT05)	20:06	11	19:26 (KLZ_WT08)	18:59	17:01	17	09:01 (MVN_WT01)	16:38
14	05:45		20:28 (KLZ_WT10)	06:29		06:56 (SAM_WT05)	07:17		19:13 (KLZ_WT08)	08:06	07:59		08:44 (MVN_WT01)	08:41
	21:56	18	20:46 (KLZ_WT10)	21:11	12	07:08 (SAM_WT05)	20:04	14	19:27 (KLZ_WT08)	18:57	17:00	18	09:02 (MVN_WT01)	16:38
15	05:46		20:30 (KLZ_WT10)	06:30		06:57 (SAM_WT05)	07:19		19:12 (KLZ_WT08)	08:07	08:01		08:44 (MVN_WT01)	08:42
	21:55	15	20:45 (KLZ_WT10)	21:09	8	07:05 (SAM_WT05)	20:02	15	19:27 (KLZ_WT08)	18:55	16:59	18	09:02 (MVN_WT01)	16:38
16	05:48		20:32 (KLZ_WT10)	06:32			07:21		19:11 (KLZ_WT08)	08:09	08:02		08:44 (MVN_WT01)	08:43
	21:54	10	20:42 (KLZ_WT10)	21:07			19:59	16	19:27 (KLZ_WT08)	18:52	16:57	19	09:03 (MVN_WT01)	16:38
17	05:49			06:34			07:22		19:11 (KLZ_WT08)	08:11	08:04		08:44 (MVN_WT01)	08:44
	21:53			21:05			19:57	16	19:27 (KLZ_WT08)	18:50	16:56	20	09:04 (MVN_WT01)	16:38
18	05:50		06:34 (SAM_WT04)	06:35			07:24		19:10 (KLZ_WT08)	08:12	08:06		08:43 (MVN_WT01)	08:45
	21:52	7	06:41 (SAM_WT04)	21:03			19:55	15	19:25 (KLZ_WT08)	18:48	16:55	20	09:03 (MVN_WT01)	16:39
19	05:51		06:32 (SAM_WT04)	06:37			07:25		19:11 (KLZ_WT08)	08:14	08:07		08:44 (MVN_WT01)	08:45
	21:51	10	06:42 (SAM_WT04)	21:01			19:53	14	19:25 (KLZ_WT08)	18:46	16:53	20	09:04 (MVN_WT01)	16:39
20	05:52		06:32 (SAM_WT04)	06:38			07:27		19:12 (KLZ_WT08)	08:16	08:09		08:44 (MVN_WT01)	08:46
	21:50	12	06:44 (SAM_WT04)	20:59			19:50	11	19:23 (KLZ_WT08)	18:44	16:52	20	09:04 (MVN_WT01)	16:39
21	05:54		06:31 (SAM_WT04)	06:40			07:28		19:13 (KLZ_WT08)	08:17	08:11		08:45 (MVN_WT01)	08:46
	21:49	14	06:45 (SAM_WT04)	20:57			19:48	7	19:20 (KLZ_WT08)	18:42	16:51	19	09:04 (MVN_WT01)	16:40
22	05:55		06:30 (SAM_WT04)	06:41			07:30			08:19	08:12		08:45 (MVN_WT01)	08:47
	21:48	21	07:05 (SAM_WT05)	20:55			19:46			18:40	16:50	18	09:03 (MVN_WT01)	16:40
23	05:56		06:30 (SAM_WT04)	06:43			07:32			08:21	08:14		08:46 (MVN_WT01)	08:47
	21:46	27	07:07 (SAM_WT05)	20:52			19:44			18:38	16:49	17	09:03 (MVN_WT01)	16:41
24	05:58		06:29 (SAM_WT04)	06:44		19:38 (KLZ_WT22)	07:33		19:10 (KLZ_WT16)	08:23	08:15		08:47 (MVN_WT01)	08:48
	21:45	31	07:08 (SAM_WT05)	20:50	9	19:47 (KLZ_WT22)	19:41	5	19:15 (KLZ_WT16)	18:36	16:48	17	09:04 (MVN_WT01)	16:41
25	05:59		06:29 (SAM_WT04)	06:46		19:35 (KLZ_WT22)	07:35		19:08 (KLZ_WT16)	07:24	08:17		08:48 (MVN_WT01)	08:48
	21:44	34	07:10 (SAM_WT05)	20:48	14	19:49 (KLZ_WT22)	19:39	4	19:12 (KLZ_WT16)	17:34	16:47	16	09:04 (MVN_WT01)	16:42
26	06:00		06:29 (SAM_WT04)	06:48		19:33 (KLZ_WT22)	07:36		19:07 (KLZ_WT16)	07:26	08:19		08:49 (MVN_WT01)	08:49
	21:42	36	07:11 (SAM_WT05)	20:46	18	19:51 (KLZ_WT22)	19:37	3	19:10 (KLZ_WT16)	17:32	16:46	13	09:02 (MVN_WT01)	16:43
27	06:02		06:30 (SAM_WT04)	06:49		19:31 (KLZ_WT22)	07:38		19:07 (KLZ_WT16)	07:28	08:20		08:51 (MVN_WT01)	08:49
	21:41	37	07:12 (SAM_WT05)	20:44	20	19:51 (KLZ_WT22)	19:34	1	19:08 (KLZ_WT16)	17:30	16:45	11	09:02 (MVN_WT01)	16:43
28	06:03		06:32 (SAM_WT04)	06:51		19:30 (KLZ_WT22)	07:40			07:29	08:22		08:53 (MVN_WT01)	08:49
	21:40	39	07:14 (SAM_WT05)	20:42	22	19:52 (KLZ_WT22)	19:32			17:28	16:44	9	09:02 (MVN_WT01)	16:44
29	06:05		06:33 (SAM_WT04)	06:52		19:28 (KLZ_WT22)	07:41			07:31	08:23		08:54 (MVN_WT01)	08:49
	21:38	38	07:14 (SAM_WT05)	20:40	24	19:52 (KLZ_WT22)	19:30			17:26	16:43	6	09:00 (MVN_WT01)	16:45
30	06:06		06:34 (SAM_WT04)	06:54		19:28 (KLZ_WT22)	07:43			07:33	08:25			08:49
	21:37	37	07:14 (SAM_WT05)	20:38	25	19:53 (KLZ_WT22)	19:28			17:25	16:43			16:46
31	06:08		06:36 (SAM_WT04)	06:55		19:27 (KLZ_WT22)				07:35				08:49
	21:35	36	07:15 (SAM_WT05)	20:35	29	20:07 (KLZ_WT15)				17:23				16:47
Potential sun hours	498			451			380			333	269			248
Total, worst case		816			521			367				333		
Sun reduction		0,45			0,47			0,43				0,27		
Oper. time red.		0,98			0,98			0,98				0,98		
Wind dir. red.		0,62			0,65			0,61				0,55		
Total reduction		0,27			0,30			0,26				0,14		
Total, real		221			155			95				48		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:31 (RHR_WT02)	08:24		08:50 (MVZ_WT02)	07:32		07:55 (MXS_WT01)	07:23		19:43 (KLZ_WT16)	06:20		06:44 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:48	19	09:50 (RHR_WT02)	17:35	40	17:06 (NES_WT01)	18:25	22	08:17 (MXS_WT01)	20:17	8	19:51 (KLZ_WT16)	21:06	6	06:50 (SAM_WT05)	21:50	63	20:53 (KLZ_WT22)
2	08:49		09:32 (RHR_WT02)	08:22		08:48 (MVZ_WT02)	07:30		07:53 (MXS_WT01)	07:21		19:43 (KLZ_WT16)	06:18		06:42 (SAM_WT05)	05:36		06:04 (SAM_WT11)
	16:49	19	09:51 (RHR_WT02)	17:36	41	17:07 (NES_WT01)	18:26	25	08:18 (MXS_WT01)	20:19	10	19:53 (KLZ_WT16)	21:08	8	06:50 (SAM_WT05)	21:52	63	20:54 (KLZ_WT22)
3	08:49		09:31 (RHR_WT02)	08:21		08:46 (MVZ_WT02)	07:28		07:53 (MXS_WT01)	07:19		19:43 (KLZ_WT16)	06:16		06:41 (SAM_WT05)	05:35		06:03 (SAM_WT11)
	16:50	19	09:50 (RHR_WT02)	17:38	41	17:08 (NES_WT01)	18:28	26	08:19 (MXS_WT01)	20:20	12	19:55 (KLZ_WT16)	21:09	10	06:51 (SAM_WT05)	21:53	65	20:55 (KLZ_WT22)
4	08:49		09:33 (RHR_WT02)	08:19		08:46 (MVZ_WT02)	07:26		07:52 (MXS_WT01)	07:17		19:43 (KLZ_WT16)	06:15		06:39 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:51	18	09:51 (RHR_WT02)	17:40	37	17:08 (NES_WT01)	18:30	27	08:19 (MXS_WT01)	20:22	14	19:57 (KLZ_WT16)	21:11	13	20:43 (KLZ_WT15)	21:54	68	20:55 (KLZ_WT22)
5	08:49		09:34 (RHR_WT02)	08:18		08:47 (MVZ_WT02)	07:24		07:51 (MXS_WT01)	07:14		19:43 (KLZ_WT16)	06:13		06:37 (SAM_WT05)	05:34		06:02 (SAM_WT11)
	16:53	17	09:51 (RHR_WT02)	17:42	27	17:07 (NES_WT01)	18:32	27	08:18 (MXS_WT01)	20:24	15	19:58 (KLZ_WT16)	21:13	16	20:44 (KLZ_WT15)	21:55	69	20:56 (KLZ_WT22)
6	08:49		09:34 (RHR_WT02)	08:16		08:49 (MVZ_WT02)	07:21		07:51 (MXS_WT01)	07:12		19:43 (KLZ_WT16)	06:11		06:36 (SAM_WT05)	05:33		06:01 (SAM_WT11)
	16:54	16	09:50 (RHR_WT02)	17:44	12	17:06 (NES_WT01)	18:33	27	08:18 (MXS_WT01)	20:25	13	19:56 (KLZ_WT16)	21:14	21	20:46 (KLZ_WT15)	21:55	72	20:57 (KLZ_WT22)
7	08:48		09:35 (RHR_WT02)	08:14			07:19		07:51 (MXS_WT01)	07:10		19:45 (KLZ_WT16)	06:09		06:34 (SAM_WT05)	05:32		06:01 (SAM_WT11)
	16:55	16	09:51 (RHR_WT02)	17:45			18:35	27	08:18 (MXS_WT01)	20:27	9	19:54 (KLZ_WT16)	21:16	24	20:47 (KLZ_WT15)	21:56	72	20:58 (KLZ_WT22)
8	08:48		09:36 (RHR_WT02)	08:13			07:17		07:51 (MXS_WT01)	07:08		19:48 (KLZ_WT16)	06:08		06:32 (SAM_WT04)	05:32		06:01 (SAM_WT11)
	16:56	14	09:50 (RHR_WT02)	17:47			18:37	27	08:18 (MXS_WT01)	20:29	2	19:50 (KLZ_WT16)	21:17	25	20:48 (KLZ_WT15)	21:57	73	20:59 (KLZ_WT22)
9	08:47		09:38 (RHR_WT02)	08:11			07:15		07:52 (MXS_WT01)	07:05			06:06		06:31 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:58	12	09:50 (RHR_WT02)	17:49			18:39	25	08:17 (MXS_WT01)	20:30			21:19	28	20:50 (KLZ_WT15)	21:58	73	20:59 (KLZ_WT22)
10	08:47		09:39 (RHR_WT02)	08:09			07:13		07:51 (MXS_WT01)	07:03			06:04		06:29 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	16:59	10	09:49 (RHR_WT02)	17:51			18:40	24	08:15 (MXS_WT01)	20:32			21:21	27	20:51 (KLZ_WT15)	21:59	75	20:59 (KLZ_WT22)
11	08:46		09:41 (RHR_WT02)	08:08			07:10		07:52 (MXS_WT01)	07:01			06:03		06:28 (SAM_WT04)	05:31		06:00 (SAM_WT11)
	17:00	7	09:48 (RHR_WT02)	17:53			18:42	22	08:14 (MXS_WT01)	20:33			21:22	28	20:53 (KLZ_WT15)	22:00	75	21:00 (KLZ_WT22)
12	08:46		09:14 (RHR_WT01)	08:06			07:08		07:54 (MXS_WT01)	06:59			06:01		06:26 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:02	3	09:17 (RHR_WT01)	17:54			18:44	19	08:13 (MXS_WT01)	20:35			21:24	22	20:54 (KLZ_WT15)	22:00	74	21:00 (KLZ_WT22)
13	08:45		09:14 (RHR_WT01)	08:04			07:06		07:56 (MXS_WT01)	06:57			05:59		06:25 (SAM_WT04)	05:30		06:00 (SAM_WT11)
	17:03	5	09:19 (RHR_WT01)	17:56			18:45	14	08:10 (MXS_WT01)	20:37			21:25	22	20:54 (KLZ_WT15)	22:01	75	21:00 (KLZ_WT22)
14	08:44		09:13 (RHR_WT01)	08:02			07:04		07:58 (MXS_WT01)	06:55			05:58		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:05	8	09:21 (RHR_WT01)	17:58			18:47	8	08:06 (MXS_WT01)	20:38			21:27	20	20:52 (KLZ_WT15)	22:01	74	21:01 (KLZ_WT22)
15	08:44		09:12 (RHR_WT01)	08:00			07:02			06:52			05:56		06:23 (SAM_WT04)	05:30		06:01 (SAM_WT11)
	17:06	10	09:22 (RHR_WT01)	18:00			18:49			20:40			21:28	18	20:52 (KLZ_WT15)	22:02	74	21:01 (KLZ_WT22)
16	08:43		09:11 (RHR_WT01)	07:58			06:59			06:50			05:55		06:25 (SAM_WT04)	05:30		06:02 (SAM_WT11)
	17:08	12	09:23 (RHR_WT01)	18:02			18:50			20:42			21:30	12	20:51 (KLZ_WT15)	22:03	75	21:02 (KLZ_WT22)
17	08:42		09:10 (MVZ_WT01)	07:56		08:20 (MVN_WT01)	06:57			06:48			05:54			05:30		06:02 (SAM_WT11)
	17:09	14	09:24 (RHR_WT01)	18:03	1	08:21 (MVN_WT01)	18:52			20:43			21:31			22:03	74	21:02 (KLZ_WT22)
18	08:41		09:09 (MVZ_WT01)	07:55		08:18 (MVN_WT01)	06:55			06:46			05:52		06:24 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:11	16	09:25 (RHR_WT01)	18:05	5	08:23 (MVN_WT01)	18:54			20:45			21:32	3	06:27 (CBR_WT01)	22:03	73	21:02 (KLZ_WT22)
19	08:40		09:08 (MVZ_WT01)	07:53		08:16 (MVN_WT01)	06:53			06:44			05:51		06:21 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:12	18	09:26 (RHR_WT01)	18:07	9	08:25 (MVN_WT01)	18:55			20:47			21:34	10	06:31 (CBR_WT01)	22:04	72	21:02 (KLZ_WT22)
20	08:39		09:06 (MVZ_WT01)	07:51		08:14 (MVN_WT01)	06:50			06:42			05:49		06:19 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:14	20	09:26 (RHR_WT01)	18:09	11	08:25 (MVN_WT01)	18:57			20:48			21:35	14	06:33 (CBR_WT01)	22:04	73	21:03 (KLZ_WT22)
21	08:38		09:05 (MVZ_WT01)	07:49		08:12 (MVN_WT01)	06:48			06:40			05:48		06:17 (CBR_WT01)	05:30		06:03 (SAM_WT11)
	17:16	22	09:27 (RHR_WT01)	18:11	14	08:26 (MVN_WT01)	18:59			20:50			21:37	16	06:33 (CBR_WT01)	22:04	73	21:03 (KLZ_WT22)
22	08:37		09:04 (MVZ_WT01)	07:47		08:11 (MVN_WT01)	06:46			06:38			05:47		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:17	24	09:28 (RHR_WT01)	18:12	15	08:26 (MVN_WT01)	19:00			20:52			21:38	19	06:35 (CBR_WT01)	22:04	73	21:04 (KLZ_WT22)
23	08:36		09:03 (MVZ_WT01)	07:45		08:11 (MVN_WT01)	06:44			06:36			05:46		06:16 (CBR_WT01)	05:30		06:04 (SAM_WT11)
	17:19	25	09:28 (RHR_WT01)	18:14	15	08:26 (MVN_WT01)	19:02			20:53			21:39	20	06:36 (CBR_WT01)	22:05	73	21:04 (KLZ_WT22)
24	08:35		09:01 (MVZ_WT01)	07:43		08:11 (MVN_WT01)	06:41			06:34			05:44		06:15 (CBR_WT01)	05:31		06:04 (SAM_WT11)
	17:21	27	09:28 (RHR_WT01)	18:16	14	08:25 (MVN_WT01)	19:04			20:55			21:41	21	06:36 (CBR_WT01)	22:05	73	21:03 (KLZ_WT22)
25	08:34		09:02 (MVZ_WT01)	07:41		08:05 (MXS_WT01)	06:39			06:32			05:43		06:15 (CBR_WT01)	05:31		06:05 (SAM_WT11)
	17:22	27	09:29 (RHR_WT01)	18:18	15	08:24 (MVN_WT01)	19:05			20:56			21:42	22	06:37 (CBR_WT01)	22:05	73	21:04 (KLZ_WT22)
26	08:32		09:03 (RHR_WT01)	07:38		08:02 (MXS_WT01)	06:37			06:30			05:42		06:09 (SAM_WT11)	05:31		06:04 (SAM_WT11)
	17:24	26	09:29 (RHR_WT01)	18:19	19	08:22 (MVN_WT01)	19:07			20:58			21:43	36	20:44 (KLZ_WT22)	22:05	74	21:04 (KLZ_WT22)
27	08:31		09:03 (RHR_WT01)	07:36		08:00 (MXS_WT01)	06:35			06:28			05:41		06:08 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:26	26	09:29 (RHR_WT01)	18:21	15	08:15 (MXS_WT01)	19:09			21:00			21:45	42	20:46 (KLZ_WT22)	22:05	74	21:04 (KLZ_WT22)
28	08:30		09:03 (RHR_WT01)	07:34		07:57 (MXS_WT01)	06:32			06:26			05:40		06:07 (SAM_WT11)	05:32		06:04 (SAM_WT11)
	17:28	29	16:58 (NES_WT01)	18:23	19	08:16 (MXS_WT01)	19:10			21:01			21:46	48	20:48 (KLZ_WT22)	22:05	74	21:04 (KLZ_WT22)
29	08:28		08:54 (MVZ_WT02)				07:30			06:24			05:39		06:07 (SAM_WT11)	05:33		06:05 (SAM_WT11)
	17:29	31	16:59 (NES_WT01)				20:12			21:03			21:47	51	20:50 (KLZ_WT22)	22:05	74	21:05 (KLZ_WT22)
30	08:27		08:53 (MVZ_WT02)				07:28		19:46 (KLZ_WT16)	06:22		06:46 (SAM_WT05)	05:38		06:06 (SAM_WT11)	05:33		06:04 (SAM_WT11)
	17:31	34	17:02 (NES_WT01)				20:14	3	19:49 (KLZ_WT16)	21:05	3	06:49 (SAM_WT05)	21:48	55	20:51 (KLZ_WT22)	22:04	75	21:04 (KLZ_WT22)
31	08:25		08:51 (MVZ_WT02)				07:26		19:45 (KLZ_WT16)				05:37		06:05 (SAM_WT11)			
	17:33	37	17:03 (NES_WT01)				20:15	5	19:50 (KLZ_WT16)				21:49	59	20:52 (KLZ_WT22)			
Potential sun hours	262			279			367			414			482			495		
Total, worst case		581			350			328			86			716			2168	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,55			0,58			0,55			0,61			0,65			0,63	
Total reduction		0,13			0,17			0,20			0,28			0,29			0,27	
Total, real		77			60			67			24			206			587	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 13 - Doornzele Dries 107, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT11)	06:09		06:37 (SAM_WT04)	06:57			07:44		08:33 (MXS_WT01)	07:36			08:26		09:23 (RHR_WT02)
	22:04	74	21:04 (KLZ_WT22)	21:34	26	21:04 (KLZ_WT15)	20:33			19:25	18	08:51 (MXS_WT01)	17:21			16:42	7	09:30 (RHR_WT02)
2	05:34		06:04 (SAM_WT11)	06:11		06:39 (SAM_WT04)	06:59			07:46		08:32 (MXS_WT01)	07:38			08:27		09:22 (RHR_WT02)
	22:04	76	21:04 (KLZ_WT22)	21:32	27	21:03 (KLZ_WT15)	20:31			19:23	20	08:52 (MXS_WT01)	17:19			16:41	10	09:32 (RHR_WT02)
3	05:35		06:05 (SAM_WT11)	06:12		06:40 (SAM_WT04)	07:00			07:48		08:30 (MXS_WT01)	07:40			08:29		09:21 (RHR_WT02)
	22:03	74	21:04 (KLZ_WT22)	21:30	28	21:01 (KLZ_WT15)	20:29			19:21	23	08:53 (MXS_WT01)	17:17			16:41	12	09:33 (RHR_WT02)
4	05:36		06:06 (SAM_WT11)	06:14		06:41 (SAM_WT04)	07:02		19:46 (KLZ_WT16)	07:49		08:29 (MXS_WT01)	07:42		16:30 (NES_WT01)	08:30		09:21 (RHR_WT02)
	22:03	73	21:04 (KLZ_WT22)	21:29	25	20:59 (KLZ_WT15)	20:27	1	19:47 (KLZ_WT16)	19:19	25	08:54 (MXS_WT01)	17:16	3	16:33 (NES_WT01)	16:40	14	09:35 (RHR_WT02)
5	05:37		06:06 (SAM_WT11)	06:15		06:45 (SAM_WT05)	07:03		19:42 (KLZ_WT16)	07:51		08:28 (MXS_WT01)	07:43		08:18 (MVZ_WT02)	08:31		09:21 (RHR_WT02)
	22:03	71	21:03 (KLZ_WT22)	21:27	24	20:58 (KLZ_WT15)	20:24	9	19:51 (KLZ_WT16)	19:16	26	08:54 (MXS_WT01)	17:14	14	16:36 (NES_WT01)	16:40	15	09:36 (RHR_WT02)
6	05:38		06:07 (SAM_WT11)	06:17		06:44 (SAM_WT05)	07:05		19:39 (KLZ_WT16)	07:53		08:27 (MXS_WT01)	07:45		08:17 (MVZ_WT02)	08:33		09:20 (RHR_WT02)
	22:02	72	21:03 (KLZ_WT22)	21:25	23	20:56 (KLZ_WT15)	20:22	13	19:52 (KLZ_WT16)	19:14	27	08:54 (MXS_WT01)	17:12	29	16:37 (NES_WT01)	16:40	16	09:36 (RHR_WT02)
7	05:38		06:08 (SAM_WT11)	06:18		06:46 (SAM_WT05)	07:07		19:38 (KLZ_WT16)	07:54		08:27 (MXS_WT01)	07:47		08:16 (MVZ_WT02)	08:34		09:20 (RHR_WT02)
	22:02	70	21:03 (KLZ_WT22)	21:23	19	20:55 (KLZ_WT15)	20:20	15	19:53 (KLZ_WT16)	19:12	27	08:54 (MXS_WT01)	17:11	37	16:38 (NES_WT01)	16:39	17	09:37 (RHR_WT02)
8	05:39		06:09 (SAM_WT11)	06:20		06:47 (SAM_WT05)	07:08		19:37 (KLZ_WT16)	07:56		08:27 (MXS_WT01)	07:49		08:17 (MVZ_WT02)	08:35		09:21 (RHR_WT02)
	22:01	68	21:03 (KLZ_WT22)	21:22	16	20:53 (KLZ_WT15)	20:18	14	19:51 (KLZ_WT16)	19:10	27	08:54 (MXS_WT01)	17:09	42	16:39 (NES_WT01)	16:39	18	09:39 (RHR_WT02)
9	05:40		06:10 (SAM_WT11)	06:21		06:49 (SAM_WT05)	07:10		19:37 (KLZ_WT16)	07:57		08:26 (MXS_WT01)	07:50		08:19 (MVZ_WT02)	08:36		09:21 (RHR_WT02)
	22:00	66	21:02 (KLZ_WT22)	21:20	11	07:00 (SAM_WT05)	20:15	12	19:49 (KLZ_WT16)	19:08	27	08:53 (MXS_WT01)	17:07	42	16:38 (NES_WT01)	16:39	18	09:39 (RHR_WT02)
10	05:41		06:11 (SAM_WT11)	06:23		06:50 (SAM_WT05)	07:11		19:36 (KLZ_WT16)	07:59		08:26 (MXS_WT01)	07:52		08:21 (MVZ_WT02)	08:37		09:21 (RHR_WT02)
	22:00	65	21:02 (KLZ_WT22)	21:18	9	06:59 (SAM_WT05)	20:13	10	19:46 (KLZ_WT16)	19:05	27	08:53 (MXS_WT01)	17:06	39	16:36 (NES_WT01)	16:38	19	09:40 (RHR_WT02)
11	05:42		06:12 (SAM_WT11)	06:24		06:51 (SAM_WT05)	07:13		19:36 (KLZ_WT16)	08:01		08:27 (MXS_WT01)	07:54		08:22 (MVZ_WT02)	08:38		09:21 (RHR_WT02)
	21:59	61	21:01 (KLZ_WT22)	21:16	7	06:58 (SAM_WT05)	20:11	9	19:45 (KLZ_WT16)	19:03	25	08:52 (MXS_WT01)	17:04	37	16:34 (NES_WT01)	16:38	19	09:40 (RHR_WT02)
12	05:43		06:13 (SAM_WT11)	06:26		06:53 (SAM_WT05)	07:14		19:36 (KLZ_WT16)	08:02		08:27 (MXS_WT01)	07:56		08:24 (MVZ_WT02)	08:39		09:21 (RHR_WT02)
	21:58	60	21:01 (KLZ_WT22)	21:14	5	06:58 (SAM_WT05)	20:09	6	19:42 (KLZ_WT16)	19:01	24	08:51 (MXS_WT01)	17:03	34	16:32 (NES_WT01)	16:38	20	09:41 (RHR_WT02)
13	05:44		06:14 (SAM_WT11)	06:27		06:54 (SAM_WT05)	07:16		19:37 (KLZ_WT16)	08:04		08:29 (MXS_WT01)	07:57		08:35 (RHR_WT01)	08:40		09:21 (RHR_WT02)
	21:57	58	21:00 (KLZ_WT22)	21:12	2	06:56 (SAM_WT05)	20:06	3	19:40 (KLZ_WT16)	18:59	21	08:50 (MXS_WT01)	17:01	30	16:31 (NES_WT01)	16:38	20	09:41 (RHR_WT02)
14	05:45		06:15 (SAM_WT11)	06:29			07:17			08:06		08:31 (MXS_WT01)	07:59		08:35 (RHR_WT01)	08:41		09:22 (RHR_WT02)
	21:56	54	20:59 (KLZ_WT22)	21:11			20:04			18:57	18	08:49 (MXS_WT01)	17:00	27	16:29 (NES_WT01)	16:38	20	09:42 (RHR_WT02)
15	05:46		06:16 (SAM_WT11)	06:30			07:19			08:07		08:33 (MXS_WT01)	08:01		08:36 (RHR_WT01)	08:42		09:22 (RHR_WT02)
	21:55	50	20:58 (KLZ_WT22)	21:09			20:02			18:55	20	08:53 (MVN_WT01)	16:59	26	09:02 (RHR_WT01)	16:38	21	09:43 (RHR_WT02)
16	05:48		06:17 (SAM_WT11)	06:32			07:21			08:09		08:34 (MXS_WT01)	08:02		08:36 (RHR_WT01)	08:43		09:23 (RHR_WT02)
	21:54	44	20:56 (KLZ_WT22)	21:07			20:00			18:53	19	08:54 (MVN_WT01)	16:57	26	09:02 (RHR_WT01)	16:38	21	09:44 (RHR_WT02)
17	05:49		06:18 (SAM_WT11)	06:34			07:22			08:11		08:43 (MVN_WT01)	08:04		08:36 (MVZ_WT01)	08:44		09:23 (RHR_WT02)
	21:53	39	20:54 (KLZ_WT22)	21:05			19:57			18:50	13	08:56 (MVN_WT01)	16:56	27	09:03 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
18	05:50		06:24 (CBR_WT01)	06:35			07:24			08:12		08:42 (MVN_WT01)	08:06		08:35 (MVZ_WT01)	08:45		09:23 (RHR_WT02)
	21:52	30	20:51 (KLZ_WT22)	21:03			19:55			18:48	15	08:57 (MVN_WT01)	16:55	27	09:02 (RHR_WT01)	16:39	21	09:44 (RHR_WT02)
19	05:51		06:24 (CBR_WT01)	06:37			07:25			08:14		08:42 (MVN_WT01)	08:07		08:37 (MVZ_WT01)	08:45		09:24 (RHR_WT02)
	21:51	22	06:46 (CBR_WT01)	21:01			19:53			18:46	15	08:57 (MVN_WT01)	16:53	25	09:02 (RHR_WT01)	16:39	21	09:45 (RHR_WT02)
20	05:53		06:26 (CBR_WT01)	06:38			07:27			08:16		08:42 (MVN_WT01)	08:09		08:39 (MVZ_WT01)	08:46		09:25 (RHR_WT02)
	21:50	20	06:46 (CBR_WT01)	20:59			19:50			18:44	15	08:57 (MVN_WT01)	16:52	24	09:03 (RHR_WT01)	16:39	21	09:46 (RHR_WT02)
21	05:54		06:27 (CBR_WT01)	06:40			07:28			08:17		08:43 (MVN_WT01)	08:11		08:41 (MVZ_WT01)	08:46		09:24 (RHR_WT02)
	21:49	19	06:46 (CBR_WT01)	20:57			19:48			18:42	13	08:56 (MVN_WT01)	16:51	22	09:03 (RHR_WT01)	16:40	22	09:46 (RHR_WT02)
22	05:55		06:27 (CBR_WT01)	06:41			07:30			08:19		08:45 (MVN_WT01)	08:12		08:43 (MVZ_WT01)	08:47		09:25 (RHR_WT02)
	21:48	18	06:45 (CBR_WT01)	20:55			19:46			18:40	11	08:56 (MVN_WT01)	16:50	20	09:03 (RHR_WT01)	16:40	22	09:47 (RHR_WT02)
23	05:56		06:28 (CBR_WT01)	06:43			07:32			08:21		08:47 (MVN_WT01)	08:14		08:44 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:46	15	06:43 (CBR_WT01)	20:52			19:44			18:38	8	08:55 (MVN_WT01)	16:49	18	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
24	05:58		06:30 (CBR_WT01)	06:45			07:33			08:23		08:49 (MVN_WT01)	08:15		08:46 (MVZ_WT01)	08:48		09:26 (RHR_WT02)
	21:45	13	06:43 (CBR_WT01)	20:50			19:41			18:36	4	08:53 (MVN_WT01)	16:48	16	09:02 (RHR_WT01)	16:41	21	09:47 (RHR_WT02)
25	05:59		06:32 (CBR_WT01)	06:46			07:35			07:24			08:17		08:48 (MVZ_WT01)	08:48		09:27 (RHR_WT02)
	21:44	8	06:40 (CBR_WT01)	20:48			19:39			17:34			16:47	14	09:02 (RHR_WT01)	16:42	21	09:48 (RHR_WT02)
26	06:01			06:48			07:36			07:26			08:19		08:49 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:42			20:46			19:37			17:32			16:46	12	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
27	06:02		20:55 (KLZ_WT15)	06:49			07:38			07:28			08:20		08:51 (RHR_WT01)	08:49		09:27 (RHR_WT02)
	21:41	4	20:59 (KLZ_WT15)	20:44			19:34			17:30			16:45	10	09:01 (RHR_WT01)	16:43	21	09:48 (RHR_WT02)
28	06:03		06:34 (SAM_WT04)	06:51			07:40			07:30			08:22		08:53 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:40	15	21:02 (KLZ_WT15)	20:42			19:32			17:28			16:44	8	09:01 (RHR_WT01)	16:44	21	09:49 (RHR_WT02)
29	06:05		06:33 (SAM_WT04)	06:52			07:41		08:41 (MXS_WT01)	07:31			08:23		08:54 (RHR_WT01)	08:49		09:28 (RHR_WT02)
	21:38	20	21:03 (KLZ_WT15)	20:40			19:30	4	08:45 (MXS_WT01)	17:26			16:44	6	09:00 (RHR_WT01)	16:45	21	09:49 (RHR_WT02)
30	06:06		06:34 (SAM_WT04)	06:54			07:43		08:35 (MXS_WT01)	07:33			08:25		08:56 (RHR_WT01)	08:49		09:29 (RHR_WT02)
	21:37	20	21:03 (KLZ_WT15)	20:38			19:28	13	08:48 (MXS_WT01)	17:25			16:43	3	08:59 (RHR_WT01)	16:46	20	09:49 (RHR_WT02)
31	06:08		06:36 (SAM_WT04)	06:56						07:35						08:49		09:30 (RHR_WT02)
	21:35	22	21:04 (KLZ_WT15)	20:35						17:23						16:47	20	09:50 (RHR_WT02)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		1301			222			109			468			618			582	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,64			0,60			0,55			0,57			0,54	
Total reduction		0,28			0,29			0,25			0,20			0,15			0,12	
Total, real		363			65			28			92			92			69	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:23 (RHR_WT03)	08:24		08:50 (MVZ_WT01)	07:32		08:04 (MVN_WT01)	07:23		19:36 (KLZ_WT16)	06:20		06:44 (CBR_WT01)	05:36		06:16 (KLZ_WT10)
	16:48	42	10:22 (ALB_WT01)	17:35	6	08:56 (MVZ_WT01)	18:25	4	08:08 (MVN_WT01)	20:17	16	19:52 (KLZ_WT16)	21:06	14	06:58 (CBR_WT01)	21:50	40	21:19 (KLZ_WT15)
2	08:49		09:23 (RHR_WT03)	08:23		08:48 (MVZ_WT01)	07:30			07:21		19:34 (KLZ_WT16)	06:18		06:42 (CBR_WT01)	05:36		06:17 (KLZ_WT10)
	16:49	41	10:22 (ALB_WT01)	17:36	7	08:55 (MVZ_WT01)	18:27			20:19	19	19:53 (KLZ_WT16)	21:08	16	06:58 (CBR_WT01)	21:52	40	21:20 (KLZ_WT15)
3	08:49		09:23 (RHR_WT03)	08:21		08:46 (MVZ_WT01)	07:28		07:51 (MXS_WT01)	07:19		19:33 (KLZ_WT16)	06:16		06:41 (CBR_WT01)	05:35		06:16 (KLZ_WT10)
	16:50	40	10:21 (ALB_WT01)	17:38	9	08:55 (MVZ_WT01)	18:28	1	07:52 (MXS_WT01)	20:20	22	19:55 (KLZ_WT16)	21:09	19	07:00 (CBR_WT01)	21:53	41	21:21 (KLZ_WT15)
4	08:49		09:24 (RHR_WT03)	08:19		08:45 (RHR_WT01)	07:26		07:49 (MXS_WT01)	07:17		19:33 (KLZ_WT16)	06:15		06:39 (SAM_WT04)	05:34		06:16 (KLZ_WT10)
	16:51	41	16:18 (NES_WT01)	17:40	10	08:55 (MVZ_WT01)	18:30	5	07:54 (MXS_WT01)	20:22	23	19:56 (KLZ_WT16)	21:11	21	07:00 (CBR_WT01)	21:54	42	21:21 (KLZ_WT15)
5	08:49		09:25 (RHR_WT03)	08:18		08:43 (RHR_WT01)	07:24		07:46 (MXS_WT01)	07:14		19:33 (KLZ_WT16)	06:13		06:40 (CBR_WT01)	05:34		06:17 (KLZ_WT10)
	16:53	38	16:19 (NES_WT01)	17:42	12	08:55 (RHR_WT01)	18:32	8	07:54 (MXS_WT01)	20:24	23	19:56 (KLZ_WT16)	21:13	19	06:59 (CBR_WT01)	21:55	41	21:22 (KLZ_WT15)
6	08:49		09:25 (RHR_WT03)	08:16		08:41 (RHR_WT01)	07:21		07:44 (MXS_WT01)	07:12		19:32 (KLZ_WT16)	06:11		06:36 (KLZ_WT11)	05:33		06:17 (KLZ_WT10)
	16:54	38	16:20 (NES_WT01)	17:44	15	08:56 (RHR_WT01)	18:33	11	07:55 (MXS_WT01)	20:25	23	19:55 (KLZ_WT16)	21:14	23	07:00 (CBR_WT01)	21:56	40	21:21 (KLZ_WT15)
7	08:48		09:26 (RHR_WT03)	08:15		08:39 (RHR_WT01)	07:19		07:42 (MXS_WT01)	07:10		19:32 (KLZ_WT16)	06:09		06:34 (KLZ_WT11)	05:32		06:01 (SAM_WT07)
	16:55	34	16:22 (NES_WT01)	17:45	17	08:56 (RHR_WT01)	18:35	13	07:55 (MXS_WT01)	20:27	23	19:55 (KLZ_WT16)	21:16	26	07:00 (CBR_WT01)	21:56	41	21:22 (KLZ_WT15)
8	08:48		09:26 (RHR_WT03)	08:13		08:38 (RHR_WT01)	07:17		07:40 (MXS_WT01)	07:08		19:32 (KLZ_WT16)	06:08		06:32 (KLZ_WT11)	05:32		06:01 (SAM_WT07)
	16:56	33	16:23 (NES_WT01)	17:47	18	08:56 (RHR_WT01)	18:37	16	07:56 (MXS_WT01)	20:29	22	19:54 (KLZ_WT16)	21:17	27	06:59 (CBR_WT01)	21:57	42	21:23 (KLZ_WT15)
9	08:47		09:27 (RHR_WT03)	08:11		08:36 (RHR_WT01)	07:15		07:38 (MXS_WT01)	07:06		19:33 (KLZ_WT16)	06:06		06:31 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	16:58	35	16:25 (NES_WT01)	17:49	20	08:56 (RHR_WT01)	18:39	17	07:55 (MXS_WT01)	20:30	20	19:53 (KLZ_WT16)	21:19	28	06:59 (CBR_WT01)	21:58	43	21:22 (KLZ_WT15)
10	08:47		09:27 (RHR_WT03)	08:09		08:34 (MVZ_WT02)	07:13		07:37 (MXS_WT01)	07:03		19:34 (KLZ_WT16)	06:04		06:29 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	16:59	35	16:26 (NES_WT01)	17:51	21	08:55 (RHR_WT01)	18:40	17	07:54 (MXS_WT01)	20:32	18	19:52 (KLZ_WT16)	21:21	29	06:58 (CBR_WT01)	21:59	43	21:23 (KLZ_WT15)
11	08:46		09:15 (RHR_WT02)	08:08		08:32 (MVZ_WT02)	07:10		07:38 (MXS_WT01)	07:01		19:35 (KLZ_WT16)	06:03		06:29 (KLZ_WT11)	05:31		06:00 (SAM_WT07)
	17:00	37	16:27 (NES_WT01)	17:53	23	08:55 (RHR_WT01)	18:42	15	07:53 (MXS_WT01)	20:33	16	19:51 (KLZ_WT16)	21:22	29	06:58 (CBR_WT01)	22:00	42	21:23 (KLZ_WT15)
12	08:46		09:14 (RHR_WT02)	08:06		08:38 (RHR_WT01)	07:08		07:39 (MXS_WT01)	06:59		19:36 (KLZ_WT16)	06:01		06:26 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:02	41	16:29 (NES_WT01)	17:55	16	08:54 (RHR_WT01)	18:44	13	07:52 (MXS_WT01)	20:35	12	19:48 (KLZ_WT16)	21:24	29	06:56 (CBR_WT01)	22:00	43	21:22 (KLZ_WT15)
13	08:45		09:14 (RHR_WT02)	08:04		08:39 (RHR_WT01)	07:06		07:40 (MXS_WT01)	06:57		19:40 (KLZ_WT16)	06:00		06:25 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:03	42	16:31 (NES_WT01)	17:56	13	08:52 (RHR_WT01)	18:45	10	07:50 (MXS_WT01)	20:37	4	19:44 (KLZ_WT16)	21:25	29	06:56 (CBR_WT01)	22:01	44	21:23 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02		08:42 (RHR_WT01)	07:04			06:55			05:58		06:23 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:05	44	16:32 (NES_WT01)	17:58	8	08:50 (RHR_WT01)	18:47			20:38			21:27	25	06:53 (CBR_WT01)	22:01	43	21:23 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00			07:02			06:52			05:56		06:22 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:06	45	16:32 (NES_WT01)	18:00			18:49			20:40			21:28	20	06:51 (CBR_WT01)	22:02	42	21:23 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58			06:59			06:50			05:55		06:21 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:08	44	16:32 (NES_WT01)	18:02			18:50			20:42			21:30	15	06:40 (KLZ_WT11)	22:03	44	21:24 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:56			06:57			06:48			05:54		06:19 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:09	44	16:33 (NES_WT01)	18:04			18:52			20:43			21:31	15	06:39 (KLZ_WT11)	22:03	42	21:24 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55			06:55			06:46			05:52		06:18 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:11	42	16:33 (NES_WT01)	18:05			18:54			20:45			21:33	11	06:37 (KLZ_WT11)	22:03	42	21:24 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53			06:53			06:44			05:51		06:17 (SAM_WT11)	05:30		05:59 (SAM_WT07)
	17:12	41	16:33 (NES_WT01)	18:07			18:55			20:47			21:34	12	06:29 (KLZ_WT10)	22:04	42	21:24 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51			06:50			06:42			05:49		06:20 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:14	36	16:33 (NES_WT01)	18:09			18:57			20:48			21:35	10	06:30 (KLZ_WT10)	22:04	43	21:24 (KLZ_WT15)
21	08:38		09:05 (RHR_WT02)	07:49			06:48			06:40		07:03 (SAM_WT05)	05:48		06:19 (KLZ_WT10)	05:30		05:59 (SAM_WT07)
	17:16	30	16:32 (NES_WT01)	18:11			18:59			20:50	2	07:05 (SAM_WT05)	21:37	13	06:32 (KLZ_WT10)	22:04	43	21:24 (KLZ_WT15)
22	08:37		09:05 (RHR_WT02)	07:47		08:10 (MVN_WT01)	06:46			06:38		07:01 (SAM_WT05)	05:47		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:17	28	16:32 (NES_WT01)	18:12	2	08:12 (MVN_WT01)	19:00			20:52	4	07:05 (SAM_WT05)	21:38	18	21:07 (KLZ_WT15)	22:05	43	21:25 (KLZ_WT15)
23	08:36		09:06 (RHR_WT02)	07:45		08:08 (MVN_WT01)	06:44			06:36		06:59 (SAM_WT05)	05:46		06:17 (KLZ_WT10)	05:30		06:00 (SAM_WT07)
	17:19	27	16:32 (NES_WT01)	18:14	5	08:13 (MVN_WT01)	19:02			20:53	6	07:05 (SAM_WT05)	21:39	22	21:09 (KLZ_WT15)	22:05	42	21:25 (KLZ_WT15)
24	08:35		09:06 (RHR_WT02)	07:43		08:06 (MVN_WT01)	06:41			06:34		06:57 (SAM_WT05)	05:44		06:16 (KLZ_WT10)	05:31		06:00 (SAM_WT07)
	17:21	21	16:30 (NES_WT01)	18:16	7	08:13 (MVN_WT01)	19:04			20:55	8	07:05 (SAM_WT05)	21:41	26	21:10 (KLZ_WT15)	22:05	42	21:25 (KLZ_WT15)
25	08:34		09:08 (RHR_WT02)	07:41		08:04 (MVN_WT01)	06:39			06:32		06:55 (SAM_WT05)	05:43		06:16 (KLZ_WT10)	05:31		06:01 (SAM_WT07)
	17:22	12	09:20 (RHR_WT02)	18:18	10	08:14 (MVN_WT01)	19:05			20:56	9	07:04 (SAM_WT05)	21:42	28	21:11 (KLZ_WT15)	22:05	42	21:26 (KLZ_WT15)
26	08:32		09:09 (RHR_WT02)	07:38		08:02 (MVN_WT01)	06:37			06:30		06:53 (SAM_WT05)	05:42		06:16 (KLZ_WT10)	05:31		06:01 (SAM_WT07)
	17:24	10	09:19 (RHR_WT02)	18:20	11	08:13 (MVN_WT01)	19:07			20:58	10	07:03 (SAM_WT05)	21:43	30	21:12 (KLZ_WT15)	22:05	43	21:26 (KLZ_WT15)
27	08:31		09:11 (RHR_WT02)	07:36		08:02 (MVN_WT01)	06:35			06:28		06:52 (SAM_WT05)	05:41		06:15 (KLZ_WT10)	05:32		06:02 (SAM_WT07)
	17:26	6	09:17 (RHR_WT02)	18:21	11	08:13 (MVN_WT01)	19:09			21:00	10	07:02 (SAM_WT05)	21:45	33	21:13 (KLZ_WT15)	22:05	43	21:26 (KLZ_WT15)
28	08:30			07:34		08:02 (MVN_WT01)	06:32			06:26		06:53 (SAM_WT05)	05:40		06:15 (KLZ_WT10)	05:32		06:02 (SAM_WT07)
	17:28			18:23	9	08:11 (MVN_WT01)	19:10			21:01	7	07:00 (SAM_WT05)	21:46	34	21:14 (KLZ_WT15)	22:05	42	21:26 (KLZ_WT15)
29	08:28						07:30		19:42 (KLZ_WT16)	06:24		06:48 (CBR_WT01)	05:39		06:16 (KLZ_WT10)	05:33		06:03 (SAM_WT07)
	17:29						20:12	5	19:47 (KLZ_WT16)	21:03	8	06:56 (CBR_WT01)	21:47	36	21:16 (KLZ_WT15)	22:05	43	21:27 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		19:39 (KLZ_WT16)	06:22		06:46 (CBR_WT01)	05:38		06:16 (KLZ_WT10)	05:33		06:03 (SAM_WT07)
	17:31	2	08:55 (MVZ_WT01)				20:14	10	19:49 (KLZ_WT16)	21:05	11	06:57 (CBR_WT01)	21:48	37	21:17 (KLZ_WT15)	22:04	43	21:27 (KLZ_WT15)
31	08:25		08:51 (MVZ_WT01)				07:26		19:37 (KLZ_WT16)				05:37		06:16 (KLZ_WT10)			
	17:33	4	08:55 (MVZ_WT01)				20:15	13	19:50 (KLZ_WT16)				21:49	38	21:18 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		933			250			158			316			732			1266	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,58			0,55			0,57			0,62			0,66			0,62	
Total reduction		0,14			0,16			0,21			0,28			0,30			0,27	
Total, real		132			41			33			89			217			341	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 14 - Abdijdreef 2, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:04 (SAM_WT07)	06:09		06:38 (KLZ_WT11)	06:57		19:34 (KLZ_WT16)	07:44		08:18 (MXS_WT01)	07:37		08:04 (MVZ_WT02)	08:26		08:57 (RHR_WT02)
	22:04	43	21:27 (KLZ_WT15)	21:34	29	07:07 (CBR_WT01)	20:33	16	19:50 (KLZ_WT16)	19:25	12	08:30 (MXS_WT01)	17:21	21	08:25 (RHR_WT01)	16:42	36	16:09 (NES_WT01)
2	05:35		06:04 (SAM_WT07)	06:11		06:39 (KLZ_WT11)	06:59		19:32 (KLZ_WT16)	07:46		08:17 (MXS_WT01)	07:38		08:06 (RHR_WT01)	08:27		09:10 (RHR_WT03)
	22:04	43	21:27 (KLZ_WT15)	21:32	29	07:08 (CBR_WT01)	20:31	18	19:50 (KLZ_WT16)	19:23	15	08:32 (MXS_WT01)	17:19	20	08:26 (RHR_WT01)	16:42	35	16:09 (NES_WT01)
3	05:35		06:05 (SAM_WT07)	06:12		06:40 (KLZ_WT11)	07:00		19:31 (KLZ_WT16)	07:48		08:15 (MXS_WT01)	07:40		08:07 (RHR_WT01)	08:29		09:10 (RHR_WT03)
	22:03	41	21:27 (KLZ_WT15)	21:30	29	07:09 (CBR_WT01)	20:29	21	19:52 (KLZ_WT16)	19:21	17	08:32 (MXS_WT01)	17:17	18	08:25 (RHR_WT01)	16:41	35	16:08 (NES_WT01)
4	05:36		06:06 (SAM_WT07)	06:14		06:41 (KLZ_WT11)	07:02		19:29 (KLZ_WT16)	07:49		08:15 (MXS_WT01)	07:42		08:09 (RHR_WT01)	08:30		09:11 (RHR_WT03)
	22:03	42	21:28 (KLZ_WT15)	21:29	28	07:09 (CBR_WT01)	20:27	22	19:51 (KLZ_WT16)	19:19	17	08:32 (MXS_WT01)	17:16	16	08:25 (RHR_WT01)	16:40	33	16:08 (NES_WT01)
5	05:37		06:07 (SAM_WT07)	06:15		06:43 (KLZ_WT11)	07:03		19:29 (KLZ_WT16)	07:51		08:16 (MXS_WT01)	07:43		08:11 (RHR_WT01)	08:31		09:11 (RHR_WT03)
	22:03	41	21:28 (KLZ_WT15)	21:27	26	07:09 (CBR_WT01)	20:24	23	19:52 (KLZ_WT16)	19:16	17	08:33 (MXS_WT01)	17:14	14	08:25 (RHR_WT01)	16:40	32	16:07 (NES_WT01)
6	05:38		06:23 (KLZ_WT10)	06:17		06:44 (KLZ_WT11)	07:05		19:28 (KLZ_WT16)	07:53		08:17 (MXS_WT01)	07:45		08:13 (RHR_WT01)	08:33		09:11 (RHR_WT03)
	22:02	41	21:28 (KLZ_WT15)	21:25	25	07:09 (CBR_WT01)	20:22	23	19:51 (KLZ_WT16)	19:14	14	08:31 (MXS_WT01)	17:12	12	08:25 (RHR_WT01)	16:40	37	16:06 (NES_WT01)
7	05:38		06:24 (KLZ_WT10)	06:18		06:46 (KLZ_WT11)	07:07		19:28 (KLZ_WT16)	07:54		08:19 (MXS_WT01)	07:47		08:15 (MVZ_WT01)	08:34		09:12 (RHR_WT03)
	22:02	41	21:28 (KLZ_WT15)	21:24	21	07:10 (CBR_WT01)	20:20	23	19:51 (KLZ_WT16)	19:12	12	08:31 (MXS_WT01)	17:11	10	08:25 (MVZ_WT01)	16:39	38	16:06 (NES_WT01)
8	05:39		06:24 (KLZ_WT10)	06:20		06:49 (CBR_WT01)	07:08		19:27 (KLZ_WT16)	07:56		08:21 (MXS_WT01)	07:49		08:17 (MVZ_WT01)	08:35		09:12 (RHR_WT03)
	22:01	40	21:28 (KLZ_WT15)	21:22	20	07:09 (CBR_WT01)	20:18	23	19:50 (KLZ_WT16)	19:10	10	08:31 (MXS_WT01)	17:09	9	08:26 (MVZ_WT01)	16:39	40	16:06 (NES_WT01)
9	05:40		06:24 (KLZ_WT10)	06:21		06:49 (SAM_WT04)	07:10		19:28 (KLZ_WT16)	07:57		08:22 (MXS_WT01)	07:50		08:19 (MVZ_WT01)	08:36		09:12 (RHR_WT03)
	22:00	41	21:28 (KLZ_WT15)	21:20	20	07:09 (CBR_WT01)	20:15	21	19:49 (KLZ_WT16)	19:08	7	08:29 (MXS_WT01)	17:07	7	08:26 (MVZ_WT01)	16:39	40	10:10 (ALB_WT01)
10	05:41		06:24 (KLZ_WT10)	06:23		06:50 (CBR_WT01)	07:11		19:27 (KLZ_WT16)	07:59		08:24 (MXS_WT01)	07:52		08:21 (MVZ_WT01)	08:37		09:13 (RHR_WT03)
	22:00	41	21:28 (KLZ_WT15)	21:18	18	07:08 (CBR_WT01)	20:13	19	19:46 (KLZ_WT16)	19:05	3	08:27 (MXS_WT01)	17:06	6	08:27 (MVZ_WT01)	16:38	40	10:11 (ALB_WT01)
11	05:42		06:24 (KLZ_WT10)	06:24		06:51 (CBR_WT01)	07:13		19:28 (KLZ_WT16)	08:01			07:54		08:23 (MVZ_WT01)	08:38		09:13 (RHR_WT03)
	21:59	39	21:27 (KLZ_WT15)	21:16	16	07:07 (CBR_WT01)	20:11	17	19:45 (KLZ_WT16)	19:03			17:04	4	08:27 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
12	05:43		06:24 (KLZ_WT10)	06:26		06:53 (CBR_WT01)	07:14		19:28 (KLZ_WT16)	08:02			07:56		08:24 (MVZ_WT01)	08:39		09:13 (RHR_WT03)
	21:58	40	21:27 (KLZ_WT15)	21:14	13	07:06 (CBR_WT01)	20:09	14	19:42 (KLZ_WT16)	19:01			17:03	2	08:26 (MVZ_WT01)	16:38	42	10:12 (ALB_WT01)
13	05:44		06:24 (KLZ_WT10)	06:27		06:54 (CBR_WT01)	07:16		19:30 (KLZ_WT16)	08:04		08:36 (MVN_WT01)	07:57			08:40		09:14 (RHR_WT03)
	21:57	39	21:26 (KLZ_WT15)	21:13	10	07:04 (CBR_WT01)	20:06	10	19:40 (KLZ_WT16)	18:59	7	08:43 (MVN_WT01)	17:01			16:38	42	10:13 (ALB_WT01)
14	05:45		06:24 (KLZ_WT10)	06:29		06:56 (CBR_WT01)	07:18		19:32 (KLZ_WT16)	08:06		08:34 (MVN_WT01)	07:59			08:41		09:14 (RHR_WT03)
	21:56	37	21:25 (KLZ_WT15)	21:11	7	07:03 (CBR_WT01)	20:04	5	19:37 (KLZ_WT16)	18:57	10	08:44 (MVN_WT01)	17:00			16:38	44	10:14 (ALB_WT01)
15	05:47		06:25 (KLZ_WT10)	06:30		07:01 (SAM_WT05)	07:19			08:07		08:34 (MVN_WT01)	08:01		08:44 (RHR_WT02)	08:42		09:15 (RHR_WT03)
	21:55	35	21:24 (KLZ_WT15)	21:09	7	07:08 (SAM_WT05)	20:02			18:55	11	08:45 (MVN_WT01)	16:59	6	08:50 (RHR_WT02)	16:38	44	10:15 (ALB_WT01)
16	05:48		06:25 (KLZ_WT10)	06:32		06:59 (SAM_WT05)	07:21			08:09		08:34 (MVN_WT01)	08:02		08:42 (RHR_WT02)	08:43		09:15 (RHR_WT03)
	21:54	33	21:23 (KLZ_WT15)	21:07	11	07:10 (SAM_WT05)	20:00			18:53	11	08:45 (MVN_WT01)	16:57	10	08:52 (RHR_WT02)	16:38	45	10:16 (ALB_WT01)
17	05:49		06:25 (KLZ_WT10)	06:34		07:00 (SAM_WT05)	07:22			08:11		08:36 (MVN_WT01)	08:04		08:42 (RHR_WT02)	08:44		09:16 (RHR_WT03)
	21:53	32	21:22 (KLZ_WT15)	21:05	10	07:10 (SAM_WT05)	19:57			18:50	9	08:45 (MVN_WT01)	16:56	12	08:54 (RHR_WT02)	16:39	46	10:17 (ALB_WT01)
18	05:50		06:25 (KLZ_WT10)	06:35		07:02 (SAM_WT05)	07:24			08:12		08:38 (MVN_WT01)	08:06		08:40 (RHR_WT02)	08:45		09:16 (RHR_WT03)
	21:52	29	21:21 (KLZ_WT15)	21:03	9	07:11 (SAM_WT05)	19:55			18:48	7	08:45 (MVN_WT01)	16:55	21	16:04 (NES_WT01)	16:39	44	10:16 (ALB_WT01)
19	05:51		06:25 (KLZ_WT10)	06:37		07:03 (SAM_WT05)	07:25			08:14		08:40 (MVN_WT01)	08:07		08:40 (RHR_WT02)	08:45		09:17 (RHR_WT03)
	21:51	28	21:20 (KLZ_WT15)	21:01	7	07:10 (SAM_WT05)	19:53			18:46	4	08:44 (MVN_WT01)	16:53	27	16:06 (NES_WT01)	16:39	44	10:17 (ALB_WT01)
20	05:53		06:27 (KLZ_WT10)	06:38		07:05 (SAM_WT05)	07:27			08:16		08:42 (MVN_WT01)	08:09		08:40 (RHR_WT02)	08:46		09:18 (RHR_WT03)
	21:50	24	21:20 (KLZ_WT15)	20:59	6	07:11 (SAM_WT05)	19:50			18:44	1	08:43 (MVN_WT01)	16:52	28	16:07 (NES_WT01)	16:39	45	10:18 (ALB_WT01)
21	05:54		06:27 (KLZ_WT10)	06:40		07:06 (SAM_WT05)	07:29			08:18			08:11		08:41 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	21	21:18 (KLZ_WT15)	20:57	4	07:10 (SAM_WT05)	19:48			18:42			16:51	30	16:08 (NES_WT01)	16:40	45	10:18 (ALB_WT01)
22	05:55		06:28 (KLZ_WT10)	06:41		07:08 (SAM_WT05)	07:30			08:19			08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	16	21:17 (KLZ_WT15)	20:55	1	07:09 (SAM_WT05)	19:46			18:40			16:50	36	16:09 (NES_WT01)	16:40	45	10:19 (ALB_WT01)
23	05:56		06:29 (KLZ_WT10)	06:43			07:32			08:21			08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	12	06:41 (KLZ_WT10)	20:53			19:44			18:38			16:49	41	16:09 (NES_WT01)	16:41	45	10:19 (ALB_WT01)
24	05:58		06:29 (SAM_WT11)	06:45			07:33			08:23			08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	11	06:40 (KLZ_WT10)	20:50			19:41			18:36			16:48	42	16:10 (NES_WT01)	16:41	45	10:19 (ALB_WT01)
25	05:59		06:28 (SAM_WT11)	06:46			07:35			07:24			08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	11	06:46 (KLZ_WT11)	20:48			19:39			17:34			16:47	44	16:11 (NES_WT01)	16:42	44	10:20 (ALB_WT01)
26	06:01		06:29 (SAM_WT11)	06:48			07:36			07:26			08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	13	06:49 (KLZ_WT11)	20:46			19:37			17:32			16:46	43	16:10 (NES_WT01)	16:43	46	10:21 (ALB_WT01)
27	06:02		06:30 (SAM_WT11)	06:49			07:38			07:28			08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	16	06:50 (KLZ_WT11)	20:44			19:34			17:30			16:45	43	16:11 (NES_WT01)	16:43	45	10:21 (ALB_WT01)
28	06:03		06:32 (SAM_WT11)	06:51			07:40			07:30		08:11 (RHR_WT01)	08:22		08:53 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:40	16	06:51 (KLZ_WT11)	20:42			19:32			17:28	9	08:20 (RHR_WT01)	16:44	44	16:12 (NES_WT01)	16:44	44	10:21 (ALB_WT01)
29	06:05		06:33 (SAM_WT11)	06:52			07:41			07:31		08:09 (RHR_WT01)	08:23		08:54 (RHR_WT02)	08:49		09:21 (RHR_WT03)
	21:38	24	07:03 (CBR_WT01)	20:40			19:30			17:27	13	08:22 (RHR_WT01)	16:44	43	16:11 (NES_WT01)	16:45	44	10:21 (ALB_WT01)
30	06:06		06:34 (SAM_WT11)	06:54		19:41 (KLZ_WT16)	07:43		08:20 (MXS_WT01)	07:33		08:04 (MVZ_WT02)	08:25		08:56 (RHR_WT02)	08:49		09:22 (RHR_WT03)
	21:37	29	07:05 (CBR_WT01)	20:38	4	19:45 (KLZ_WT16)	19:28	8	08:28 (MXS_WT01)	17:25	17	08:23 (RHR_WT01)	16:43	41	16:11 (NES_WT01)	16:46	43	10:21 (ALB_WT01)
31	06:08		06:36 (SAM_WT11)	06:56		19:36 (KLZ_WT16)				07:35		08:02 (MVZ_WT02)				08:50		09:22 (RHR_WT03)
	21:35	29	07:06 (CBR_WT01)	20:35	12	19:48 (KLZ_WT16)				17:23	22	08:24 (RHR_WT01)				16:47	43	10:21 (ALB_WT01)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		948			362			263			245			650			1293	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,64			0,67			0,61			0,56			0,59			0,55	
Total reduction		0,28			0,31			0,26			0,20			0,15			0,12	
Total, real		265			110			68			49			100			157	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 15 - Hageland 14, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (ATS_WT01)	08:24			07:32		07:55 (ALB_WT01)	07:23			06:20		06:49 (KLZ_WT22)	05:37		06:07 (KLZ_WT21)
	16:48	11	09:31 (ATS_WT01)	17:35			18:25	7	08:02 (ALB_WT01)	20:17			21:06	36	07:25 (KLZ_WT16)	21:51	11	06:18 (KLZ_WT21)
2	08:50		09:20 (ATS_WT01)	08:23			07:30			07:21			06:18		06:47 (KLZ_WT22)	05:36		06:09 (KLZ_WT21)
	16:49	12	09:32 (ATS_WT01)	17:37			18:27			20:19			21:08	37	07:24 (KLZ_WT16)	21:52	9	06:18 (KLZ_WT21)
3	08:49		09:20 (ATS_WT01)	08:21			07:28			07:19			06:17		06:47 (KLZ_WT22)	05:35		06:09 (KLZ_WT21)
	16:50	12	09:32 (ATS_WT01)	17:38			18:28			20:20			21:10	37	07:24 (KLZ_WT16)	21:53	8	06:17 (KLZ_WT21)
4	08:49		09:19 (ATS_WT01)	08:20			07:26			07:17			06:15		06:46 (KLZ_WT22)	05:34		06:11 (KLZ_WT21)
	16:52	13	09:32 (ATS_WT01)	17:40			18:30			20:22			21:11	36	07:22 (KLZ_WT16)	21:54	6	06:17 (KLZ_WT21)
5	08:49		09:19 (ATS_WT01)	08:18			07:24			07:14			06:13		06:45 (KLZ_WT22)	05:34		06:12 (KLZ_WT21)
	16:53	14	09:33 (ATS_WT01)	17:42			18:32			20:24			21:13	35	07:20 (KLZ_WT16)	21:55	3	06:15 (KLZ_WT21)
6	08:49		09:19 (ATS_WT01)	08:16			07:22			07:12			06:11		06:45 (KLZ_WT22)	05:33		
	16:54	13	09:32 (ATS_WT01)	17:44			18:34			20:25			21:14	34	07:19 (KLZ_WT16)	21:56		
7	08:48		09:21 (ATS_WT01)	08:15			07:19		07:42 (RHR_WT01)	07:10			06:09		06:45 (KLZ_WT22)	05:33		
	16:55	12	09:33 (ATS_WT01)	17:46			18:35	1	07:43 (RHR_WT01)	20:27			21:16	31	07:16 (KLZ_WT16)	21:57		
8	08:48		09:21 (ATS_WT01)	08:13			07:17		07:40 (RHR_WT01)	07:08			06:08		06:44 (KLZ_WT22)	05:32		
	16:56	11	09:32 (ATS_WT01)	17:47			18:37	1	07:41 (RHR_WT01)	20:29			21:18	26	07:10 (KLZ_WT22)	21:57		
9	08:48		09:22 (ATS_WT01)	08:11			07:15			07:06			06:06		06:45 (KLZ_WT22)	05:32		
	16:58	11	09:33 (ATS_WT01)	17:49			18:39			20:30			21:19	25	07:10 (KLZ_WT22)	21:58		
10	08:47		09:23 (ATS_WT01)	08:09			07:13			07:03			06:04		06:44 (KLZ_WT22)	05:31		
	16:59	9	09:32 (ATS_WT01)	17:51			18:40			20:32			21:21	25	07:09 (KLZ_WT22)	21:59		
11	08:47		09:24 (ATS_WT01)	08:08			07:11			07:01			06:03		06:45 (KLZ_WT22)	05:31		
	17:00	7	09:31 (ATS_WT01)	17:53			18:42			20:34			21:22	25	07:10 (KLZ_WT22)	22:00		
12	08:46		09:27 (ATS_WT01)	08:06			07:08			06:59		07:22 (KLZ_WT08)	06:01		06:45 (KLZ_WT22)	05:30		
	17:02	4	09:31 (ATS_WT01)	17:55			18:44			20:35	1	07:23 (KLZ_WT08)	21:24	24	07:09 (KLZ_WT22)	22:00		
13	08:45			08:04			07:06			06:57		07:19 (KLZ_WT08)	06:00		06:46 (KLZ_WT22)	05:30		
	17:03			17:56			18:45			20:37	3	07:22 (KLZ_WT08)	21:25	23	07:09 (KLZ_WT22)	22:01		
14	08:45			08:02			07:04			06:55		07:17 (KLZ_WT08)	05:58		06:47 (KLZ_WT22)	05:30		
	17:05			17:58			18:47			20:39	4	07:21 (KLZ_WT08)	21:27	21	07:08 (KLZ_WT22)	22:02		
15	08:44			08:00			07:02			06:53		07:15 (KLZ_WT08)	05:57		06:47 (KLZ_WT22)	05:30		
	17:06			18:00			18:49			20:40	4	07:19 (KLZ_WT08)	21:28	20	07:07 (KLZ_WT22)	22:02		
16	08:43			07:59			06:59			06:50		07:13 (CBR_WT01)	05:55		06:48 (KLZ_WT22)	05:30		
	17:08			18:02			18:51			20:42	3	07:16 (CBR_WT01)	21:30	19	07:07 (KLZ_WT22)	22:03		
17	08:42			07:57			06:57			06:48		07:11 (KLZ_WT16)	05:54		06:19 (KLZ_WT23)	05:30		
	17:09			18:04			18:52			20:43	11	07:22 (KLZ_WT16)	21:31	19	07:05 (KLZ_WT22)	22:03		
18	08:41			07:55			06:55			06:46		07:09 (KLZ_WT16)	05:52		06:18 (KLZ_WT23)	05:30		
	17:11			18:05			18:54			20:45	15	07:24 (KLZ_WT16)	21:33	19	07:04 (KLZ_WT22)	22:03		
19	08:40			07:53			06:53			06:44		07:07 (KLZ_WT16)	05:51		06:17 (KLZ_WT21)	05:30		
	17:13			18:07			18:56			20:47	18	07:25 (KLZ_WT16)	21:34	17	07:03 (KLZ_WT22)	22:04		
20	08:39			07:51			06:50			06:42		07:05 (KLZ_WT16)	05:50		06:16 (KLZ_WT21)	05:30		
	17:14			18:09			18:57			20:48	21	07:26 (KLZ_WT16)	21:35	14	07:01 (KLZ_WT22)	22:04		
21	08:38			07:49			06:48			06:40		07:03 (KLZ_WT16)	05:48		06:15 (KLZ_WT21)	05:30		
	17:16			18:11			18:59			20:50	24	07:27 (KLZ_WT16)	21:37	8	06:23 (KLZ_WT23)	22:04		
22	08:37			07:47			06:46			06:38		07:02 (KLZ_WT16)	05:47		06:14 (KLZ_WT21)	05:30		
	17:17			18:13			19:01			20:52	25	07:27 (KLZ_WT16)	21:38	9	06:23 (KLZ_WT23)	22:05		
23	08:36			07:45			06:44			06:36		07:01 (KLZ_WT16)	05:46		06:12 (KLZ_WT21)	05:30		
	17:19			18:14			19:02			20:53	27	07:28 (KLZ_WT16)	21:40	10	06:22 (KLZ_WT23)	22:05		
24	08:35			07:43			06:41			06:34		07:00 (KLZ_WT16)	05:45		06:11 (KLZ_WT21)	05:31		
	17:21			18:16			19:04			20:55	28	07:28 (KLZ_WT16)	21:41	10	06:21 (KLZ_WT23)	22:05		
25	08:34			07:41			06:39			06:32		07:00 (KLZ_WT16)	05:43		06:10 (KLZ_WT21)	05:31		
	17:23			18:18			19:06			20:57	28	07:28 (KLZ_WT16)	21:42	11	06:21 (KLZ_WT23)	22:05		
26	08:32			07:39		08:02 (ALB_WT01)	06:37			06:30		06:59 (KLZ_WT16)	05:42		06:09 (KLZ_WT21)	05:31		
	17:24			18:20	3	08:05 (ALB_WT01)	19:07			20:58	28	07:27 (KLZ_WT16)	21:43	11	06:20 (KLZ_WT23)	22:05		
27	08:31			07:36		08:00 (ALB_WT01)	06:35			06:28		06:59 (KLZ_WT16)	05:41		06:08 (KLZ_WT21)	05:32		
	17:26			18:21	5	08:05 (ALB_WT01)	19:09			21:00	28	07:27 (KLZ_WT16)	21:45	11	06:19 (KLZ_WT21)	22:05		
28	08:30			07:34		07:57 (ALB_WT01)	06:32			06:26		06:56 (KLZ_WT22)	05:40		06:08 (KLZ_WT21)	05:32		
	17:28			18:23	6	08:03 (ALB_WT01)	19:11			21:01	32	07:28 (KLZ_WT16)	21:46	12	06:20 (KLZ_WT21)	22:05		
29	08:28						07:30			06:24		06:53 (KLZ_WT22)	05:39		06:07 (KLZ_WT21)	05:33		
	17:30						20:12			21:03	34	07:27 (KLZ_WT16)	21:47	13	06:20 (KLZ_WT21)	22:05		
30	08:27						07:28			06:22		06:50 (KLZ_WT22)	05:38		06:06 (KLZ_WT21)	05:33		
	17:31						20:14			21:05	36	07:26 (KLZ_WT16)	21:48	13	06:19 (KLZ_WT21)	22:04		
31	08:26						07:26						05:37		06:07 (KLZ_WT21)			
	17:33						20:15						21:49	12	06:19 (KLZ_WT21)			
Potential sun hours	262			279			367			414			482			494		
Total, worst case		129			14			9			370			643			37	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,53			0,55			0,55			0,65			0,67			0,70	
Total reduction		0,13			0,16			0,21			0,29			0,30			0,30	
Total, real		16			2			2			108			192			11	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 15 - Hageland 14, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September	October			November			December		
1	05:34			06:09		06:55 (KLZ_WT22)	06:57	07:45			07:37			08:26		09:06 (ATS_WT01)
	22:04			21:34	24	07:19 (KLZ_WT22)	20:33	19:26			17:21			16:42	7	09:13 (ATS_WT01)
2	05:35			06:11		06:55 (KLZ_WT22)	06:59	07:46			07:38			08:27		09:06 (ATS_WT01)
	22:04			21:32	25	07:20 (KLZ_WT22)	20:31	19:23			17:19			16:42	9	09:15 (ATS_WT01)
3	05:35			06:12		06:55 (KLZ_WT22)	07:00	07:48			07:40			08:29		09:06 (ATS_WT01)
	22:04			21:30	25	07:20 (KLZ_WT22)	20:29	19:21			17:18			16:41	10	09:16 (ATS_WT01)
4	05:36			06:14		06:55 (KLZ_WT22)	07:02	07:49			07:42			08:30		09:06 (ATS_WT01)
	22:03			21:29	26	07:21 (KLZ_WT22)	20:27	19:19			17:16			16:41	11	09:17 (ATS_WT01)
5	05:37			06:15		06:55 (KLZ_WT22)	07:04	07:51			07:44			08:31		09:06 (ATS_WT01)
	22:03			21:27	25	07:20 (KLZ_WT22)	20:25	19:17			17:14			16:40	12	09:18 (ATS_WT01)
6	05:38			06:17		06:54 (KLZ_WT22)	07:05	07:53		08:17 (RHR_WT01)	07:45			08:33		09:06 (ATS_WT01)
	22:02			21:25	32	07:26 (KLZ_WT16)	20:22	19:14	1	08:18 (RHR_WT01)	17:12			16:40	12	09:18 (ATS_WT01)
7	05:39		06:19 (KLZ_WT21)	06:18		06:55 (KLZ_WT22)	07:07	07:54			07:47			08:34		09:06 (ATS_WT01)
	22:02	1	06:20 (KLZ_WT21)	21:24	34	07:29 (KLZ_WT16)	20:20	19:12			17:11			16:39	14	09:20 (ATS_WT01)
8	05:39		06:18 (KLZ_WT21)	06:20		06:55 (KLZ_WT22)	07:08	07:56			07:49			08:35		09:07 (ATS_WT01)
	22:01	5	06:23 (KLZ_WT21)	21:22	35	07:30 (KLZ_WT16)	20:18	19:10			17:09			16:39	13	09:20 (ATS_WT01)
9	05:40		06:17 (KLZ_WT21)	06:21		06:56 (KLZ_WT22)	07:10	07:58			07:51			08:36		09:08 (ATS_WT01)
	22:00	7	06:24 (KLZ_WT21)	21:20	36	07:32 (KLZ_WT16)	20:16	19:08			17:08			16:39	12	09:20 (ATS_WT01)
10	05:41		06:16 (KLZ_WT21)	06:23		06:56 (KLZ_WT22)	07:11	07:59			07:52			08:37		09:09 (ATS_WT01)
	22:00	9	06:25 (KLZ_WT21)	21:18	36	07:32 (KLZ_WT16)	20:13	19:06			17:06			16:39	12	09:21 (ATS_WT01)
11	05:42		06:16 (KLZ_WT21)	06:24		06:57 (KLZ_WT22)	07:13	08:01			07:54			08:38		09:10 (ATS_WT01)
	21:59	10	06:26 (KLZ_WT21)	21:16	37	07:34 (KLZ_WT16)	20:11	19:03			17:04			16:38	11	09:21 (ATS_WT01)
12	05:43		06:15 (KLZ_WT21)	06:26		06:57 (KLZ_WT22)	07:14	08:03		08:31 (ALB_WT01)	07:56			08:39		09:11 (ATS_WT01)
	21:58	12	06:27 (KLZ_WT21)	21:15	37	07:34 (KLZ_WT16)	20:09	19:01	4	08:35 (ALB_WT01)	17:03			16:38	11	09:22 (ATS_WT01)
13	05:44		06:15 (KLZ_WT21)	06:27		06:59 (KLZ_WT22)	07:16	08:04		08:29 (ALB_WT01)	07:57			08:40		09:12 (ATS_WT01)
	21:57	12	06:27 (KLZ_WT21)	21:13	36	07:35 (KLZ_WT16)	20:06	18:59	7	08:36 (ALB_WT01)	17:02			16:38	10	09:22 (ATS_WT01)
14	05:46		06:15 (KLZ_WT21)	06:29		07:01 (KLZ_WT22)	07:18	08:06		08:31 (ALB_WT01)	07:59			08:41		09:13 (ATS_WT01)
	21:57	13	06:28 (KLZ_WT21)	21:11	34	07:35 (KLZ_WT16)	20:04	18:57	6	08:37 (ALB_WT01)	17:00			16:38	10	09:23 (ATS_WT01)
15	05:47		06:16 (KLZ_WT21)	06:31		07:04 (KLZ_WT22)	07:19	08:08		08:33 (ALB_WT01)	08:01			08:42		09:14 (ATS_WT01)
	21:56	12	06:28 (KLZ_WT21)	21:09	30	07:34 (KLZ_WT16)	20:02	18:55	4	08:37 (ALB_WT01)	16:59			16:38	9	09:23 (ATS_WT01)
16	05:48		06:17 (KLZ_WT21)	06:32		07:07 (KLZ_WT16)	07:21	08:09		08:35 (ALB_WT01)	08:03			08:43		09:15 (ATS_WT01)
	21:55	12	06:29 (KLZ_WT21)	21:07	28	07:35 (KLZ_WT16)	20:00	18:53	2	08:37 (ALB_WT01)	16:57			16:38	9	09:24 (ATS_WT01)
17	05:49		06:18 (KLZ_WT21)	06:34		07:06 (KLZ_WT16)	07:22	08:11			08:04			08:44		09:16 (ATS_WT01)
	21:54	11	06:29 (KLZ_WT21)	21:05	28	07:34 (KLZ_WT16)	19:57	18:51			16:56			16:39	8	09:24 (ATS_WT01)
18	05:50		06:19 (KLZ_WT21)	06:35		07:06 (KLZ_WT16)	07:24	08:13			08:06			08:45		09:16 (ATS_WT01)
	21:53	11	06:30 (KLZ_WT23)	21:03	28	07:34 (KLZ_WT16)	19:55	18:48			16:55			16:39	8	09:24 (ATS_WT01)
19	05:51		06:21 (KLZ_WT21)	06:37		07:06 (KLZ_WT16)	07:25	08:14			08:08			08:45		09:17 (ATS_WT01)
	21:51	10	06:31 (KLZ_WT23)	21:01	27	07:33 (KLZ_WT16)	19:53	18:46			16:54			16:39	8	09:25 (ATS_WT01)
20	05:53		06:22 (KLZ_WT21)	06:38		07:07 (KLZ_WT16)	07:27	08:16			08:09			08:46		09:18 (ATS_WT01)
	21:50	10	06:32 (KLZ_WT23)	20:59	26	07:33 (KLZ_WT16)	19:51	18:44			16:52			16:40	8	09:26 (ATS_WT01)
21	05:54		06:23 (KLZ_WT21)	06:40		07:07 (KLZ_WT16)	07:29	08:18			08:11			08:47		09:18 (ATS_WT01)
	21:49	9	06:32 (KLZ_WT23)	20:57	25	07:32 (KLZ_WT16)	19:48	18:42			16:51			16:40	8	09:26 (ATS_WT01)
22	05:55		06:24 (KLZ_WT21)	06:42		07:08 (KLZ_WT16)	07:30	08:19			08:12			08:47		09:19 (ATS_WT01)
	21:48	8	06:32 (KLZ_WT23)	20:55	24	07:32 (KLZ_WT16)	19:46	18:40			16:50			16:40	8	09:27 (ATS_WT01)
23	05:57		06:25 (KLZ_WT21)	06:43		07:09 (KLZ_WT16)	07:32	08:21			08:14			08:48		09:19 (ATS_WT01)
	21:47	9	07:08 (KLZ_WT22)	20:53	21	07:30 (KLZ_WT16)	19:44	18:38			16:49			16:41	8	09:27 (ATS_WT01)
24	05:58		06:27 (KLZ_WT21)	06:45		07:11 (KLZ_WT16)	07:33	08:23			08:16			08:48		09:19 (ATS_WT01)
	21:45	15	07:12 (KLZ_WT22)	20:51	18	07:29 (KLZ_WT16)	19:41	18:36			16:48			16:42	8	09:27 (ATS_WT01)
25	05:59		06:28 (KLZ_WT23)	06:46		07:12 (KLZ_WT16)	07:35	07:24			08:17			08:48		09:20 (ATS_WT01)
	21:44	18	07:14 (KLZ_WT22)	20:48	14	07:26 (KLZ_WT16)	19:39	17:34			16:47			16:42	8	09:28 (ATS_WT01)
26	06:01		06:29 (KLZ_WT23)	06:48		07:14 (KLZ_WT16)	07:37	07:26			08:19			08:49		09:20 (ATS_WT01)
	21:43	19	07:15 (KLZ_WT22)	20:46	10	07:24 (KLZ_WT16)	19:37	17:32			16:46			16:43	8	09:28 (ATS_WT01)
27	06:02		06:31 (KLZ_WT23)	06:49		07:15 (CBR_WT01)	07:38	07:28			08:20			08:49		09:20 (ATS_WT01)
	21:41	19	07:17 (KLZ_WT22)	20:44	3	07:18 (CBR_WT01)	19:35	17:30			16:45			16:44	9	09:29 (ATS_WT01)
28	06:03		06:58 (KLZ_WT22)	06:51		07:17 (KLZ_WT08)	07:40	07:30			08:22			08:49		09:20 (ATS_WT01)
	21:40	19	07:17 (KLZ_WT22)	20:42	4	07:21 (KLZ_WT08)	19:32	17:29			16:44			16:44	9	09:29 (ATS_WT01)
29	06:05		06:57 (KLZ_WT22)	06:53		07:18 (KLZ_WT08)	07:41	07:31			08:23			08:49		09:20 (ATS_WT01)
	21:38	21	07:18 (KLZ_WT22)	20:40	4	07:22 (KLZ_WT08)	19:30	17:27			16:44			16:45	9	09:29 (ATS_WT01)
30	06:06		06:57 (KLZ_WT22)	06:54		07:20 (KLZ_WT08)	07:43	07:33			08:25		09:08 (ATS_WT01)	08:50		09:20 (ATS_WT01)
	21:37	22	07:19 (KLZ_WT22)	20:38	3	07:23 (KLZ_WT08)	19:28	17:25			16:43	4	09:12 (ATS_WT01)	16:46	10	09:30 (ATS_WT01)
31	06:08		06:56 (KLZ_WT22)	06:56		07:21 (KLZ_WT08)		07:35						08:50		09:20 (ATS_WT01)
	21:35	23	07:19 (KLZ_WT22)	20:36	1	07:22 (KLZ_WT08)		17:23						16:47	10	09:30 (ATS_WT01)
Potential sun hours	498			451			380	333			269			248		
Total, worst case		317			736				24			4			299	
Sun reduction		0,45			0,47				0,36			0,27			0,23	
Oper. time red.		0,98			0,98				0,98			0,98			0,98	
Wind dir. red.		0,69			0,65				0,55			0,53			0,53	
Total reduction		0,30			0,30				0,20			0,14			0,12	
Total, real		95			219				5			1			35	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50			08:24		08:50 (ALB_WT01)	07:32			07:23		07:46 (CBR_WT01)	06:20		06:44 (KLZ_WT21)	05:37		
	16:48			17:35	35	09:29 (KLZ_WT16)	18:25			20:17	37	08:39 (KLZ_WT22)	21:06	53	07:47 (KLZ_WT15)	21:51		
2	08:50			08:23		08:48 (ALB_WT01)	07:30			07:21		07:44 (CBR_WT01)	06:18		06:42 (KLZ_WT21)	05:36		
	16:49			17:37	38	09:29 (KLZ_WT16)	18:27			20:19	37	08:38 (KLZ_WT22)	21:08	53	07:46 (KLZ_WT15)	21:52		
3	08:49			08:21		08:46 (ALB_WT01)	07:28			07:19		08:07 (KLZ_WT22)	06:17		06:41 (KLZ_WT21)	05:35		
	16:50			17:38	40	09:29 (KLZ_WT16)	18:28			20:20	30	08:37 (KLZ_WT22)	21:10	55	07:47 (KLZ_WT15)	21:53		
4	08:49			08:20		08:45 (RHR_WT03)	07:26			07:17		08:08 (KLZ_WT22)	06:15		06:39 (KLZ_WT21)	05:34		
	16:51			17:40	42	09:31 (KLZ_WT16)	18:30			20:22	29	08:37 (KLZ_WT22)	21:11	56	07:46 (KLZ_WT15)	21:54		
5	08:49			08:18		08:43 (RHR_WT03)	07:24			07:14		08:08 (KLZ_WT22)	06:13		06:37 (KLZ_WT23)	05:34		
	16:53			17:42	39	09:31 (KLZ_WT16)	18:32			20:24	28	08:36 (KLZ_WT22)	21:13	56	07:45 (KLZ_WT15)	21:55		
6	08:49			08:16		08:41 (RHR_WT03)	07:22			07:12		08:09 (KLZ_WT22)	06:11		06:38 (KLZ_WT23)	05:33		
	16:54			17:44	40	09:31 (KLZ_WT16)	18:34			20:25	26	08:35 (KLZ_WT22)	21:14	55	07:45 (KLZ_WT15)	21:56		
7	08:48			08:15		08:39 (RHR_WT02)	07:19			07:10		08:09 (KLZ_WT22)	06:09		06:38 (KLZ_WT23)	05:32		
	16:55			17:46	41	09:31 (KLZ_WT16)	18:35			20:27	23	08:32 (KLZ_WT22)	21:16	53	07:44 (KLZ_WT15)	21:57		
8	08:48			08:13		08:38 (RHR_WT02)	07:17			07:08		08:10 (KLZ_WT22)	06:08		06:39 (KLZ_WT21)	05:32		
	16:56			17:47	37	09:32 (KLZ_WT16)	18:37			20:29	20	08:30 (KLZ_WT22)	21:18	49	07:43 (KLZ_WT15)	21:57		
9	08:48			08:11		08:56 (KLZ_WT16)	07:15			07:06		08:12 (KLZ_WT22)	06:06		06:41 (KLZ_WT21)	05:32		
	16:58			17:49	36	09:32 (KLZ_WT16)	18:39			20:30	16	08:28 (KLZ_WT22)	21:19	45	07:43 (KLZ_WT15)	21:58		
10	08:47			08:09		08:56 (KLZ_WT16)	07:13			07:03		08:15 (KLZ_WT22)	06:04		06:42 (KLZ_WT21)	05:31		
	16:59			17:51	35	09:31 (KLZ_WT16)	18:40			20:32	10	08:25 (KLZ_WT22)	21:21	40	07:42 (KLZ_WT15)	21:59		
11	08:47			08:08		08:56 (KLZ_WT16)	07:11			07:01			06:03		07:10 (KLZ_WT15)	05:31		06:00 (KLZ_WT17)
	17:00			17:53	35	09:31 (KLZ_WT16)	18:42			20:34			21:22	31	07:41 (KLZ_WT15)	22:00	1	06:01 (KLZ_WT17)
12	08:46			08:06		08:57 (KLZ_WT16)	07:08			06:59			06:01		07:10 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:02			17:55	34	09:31 (KLZ_WT16)	18:44			20:35			21:24	29	07:39 (KLZ_WT15)	22:00	1	06:00 (KLZ_WT17)
13	08:45			08:04		08:57 (KLZ_WT16)	07:06		07:29 (KLZ_WT08)	06:57			06:00		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:03			17:56	33	09:30 (KLZ_WT16)	18:45	3	07:32 (KLZ_WT08)	20:37			21:25	27	07:39 (KLZ_WT15)	22:01	1	06:00 (KLZ_WT17)
14	08:45			08:02		08:58 (KLZ_WT16)	07:04		07:26 (KLZ_WT08)	06:55			05:58		07:12 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:05			17:58	31	09:29 (KLZ_WT16)	18:47	6	07:32 (KLZ_WT08)	20:39			21:27	25	07:37 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
15	08:44			08:00		08:58 (KLZ_WT16)	07:02		07:24 (KLZ_WT08)	06:53			05:57		07:14 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:06			18:00	30	09:28 (KLZ_WT16)	18:49	7	07:31 (KLZ_WT08)	20:40			21:28	22	07:36 (KLZ_WT15)	22:02	1	06:00 (KLZ_WT17)
16	08:43			07:58		08:22 (RHR_WT01)	06:59		07:23 (KLZ_WT08)	06:50		07:26 (KLZ_WT15)	05:55		07:16 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:08			18:02	29	09:27 (KLZ_WT16)	18:51	7	07:30 (KLZ_WT08)	20:42	9	07:35 (KLZ_WT15)	21:30	19	07:35 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
17	08:42			07:57		08:20 (RHR_WT01)	06:57		07:25 (KLZ_WT08)	06:48		07:22 (KLZ_WT15)	05:54		07:17 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:09			18:04	28	09:26 (KLZ_WT16)	18:52	3	07:28 (KLZ_WT08)	20:43	17	07:39 (KLZ_WT15)	21:31	15	07:32 (KLZ_WT15)	22:03	1	06:00 (KLZ_WT17)
18	08:41			07:55		08:18 (RHR_WT01)	06:55			06:46		07:19 (KLZ_WT15)	05:52		07:20 (KLZ_WT15)	05:30		05:59 (KLZ_WT17)
	17:11			18:05	23	09:24 (KLZ_WT16)	18:54			20:45	22	07:41 (KLZ_WT15)	21:33	9	07:29 (KLZ_WT15)	22:04	1	06:00 (KLZ_WT17)
19	08:40			07:53		09:04 (KLZ_WT16)	06:53			06:44		07:07 (SAM_WT07)	05:51			05:30		05:59 (KLZ_WT17)
	17:13			18:07	17	09:21 (KLZ_WT16)	18:56			20:47	27	07:42 (KLZ_WT15)	21:34			22:04	1	06:00 (KLZ_WT17)
20	08:39			07:51		09:07 (KLZ_WT16)	06:50			06:42		07:05 (SAM_WT07)	05:50			05:30		05:59 (KLZ_WT17)
	17:14			18:09	11	09:18 (KLZ_WT16)	18:57			20:48	32	07:44 (KLZ_WT15)	21:35			22:04	1	06:00 (KLZ_WT17)
21	08:38			07:49			06:48			06:40		07:03 (SAM_WT07)	05:48			05:30		06:00 (KLZ_WT17)
	17:16			18:11			18:59			20:50	35	07:45 (KLZ_WT15)	21:37			22:04	1	06:01 (KLZ_WT17)
22	08:37			07:47			06:46		07:20 (KLZ_WT22)	06:38		07:12 (KLZ_WT15)	05:47			05:30		06:00 (KLZ_WT17)
	17:17			18:13			19:01	13	07:33 (KLZ_WT22)	20:52	33	07:45 (KLZ_WT15)	21:38			22:05	1	06:01 (KLZ_WT17)
23	08:36			07:45			06:44		07:17 (KLZ_WT22)	06:36		07:11 (KLZ_WT15)	05:46			05:30		06:00 (KLZ_WT17)
	17:19			18:14			19:02	18	07:35 (KLZ_WT22)	20:53	35	07:46 (KLZ_WT15)	21:40			22:05	1	06:01 (KLZ_WT17)
24	08:35			07:43			06:41		07:15 (KLZ_WT22)	06:34		07:10 (KLZ_WT15)	05:45			05:31		06:00 (KLZ_WT17)
	17:21			18:16			19:04	22	07:37 (KLZ_WT22)	20:55	36	07:46 (KLZ_WT15)	21:41			22:05	1	06:01 (KLZ_WT17)
25	08:34		09:06 (KLZ_WT16)	07:41			06:39		07:13 (KLZ_WT22)	06:32		07:09 (KLZ_WT15)	05:43			05:31		06:01 (KLZ_WT17)
	17:23	11	09:17 (KLZ_WT16)	18:18			19:06	25	07:38 (KLZ_WT22)	20:57	38	07:47 (KLZ_WT15)	21:42			22:05	1	06:02 (KLZ_WT17)
26	08:32		09:04 (KLZ_WT16)	07:39		08:02 (MVN_WT01)	06:37		07:12 (KLZ_WT22)	06:30		07:08 (KLZ_WT15)	05:42			05:31		06:01 (KLZ_WT17)
	17:24	16	09:20 (KLZ_WT16)	18:20	1	08:03 (MVN_WT01)	19:07	27	07:39 (KLZ_WT22)	20:58	39	07:47 (KLZ_WT15)	21:43			22:05	1	06:02 (KLZ_WT17)
27	08:31		09:02 (KLZ_WT16)	07:36			06:35		07:11 (KLZ_WT22)	06:28		06:51 (KLZ_WT21)	05:41			05:32		06:02 (KLZ_WT17)
	17:26	20	09:22 (KLZ_WT16)	18:21			19:09	28	07:39 (KLZ_WT22)	21:00	41	07:47 (KLZ_WT15)	21:45			22:05	1	06:03 (KLZ_WT17)
28	08:30		09:01 (KLZ_WT16)	07:34			06:32		07:10 (KLZ_WT22)	06:26		06:50 (KLZ_WT21)	05:40			05:32		06:02 (KLZ_WT17)
	17:28	23	09:24 (KLZ_WT16)	18:23			19:11	30	07:40 (KLZ_WT22)	21:01	44	07:48 (KLZ_WT15)	21:46			22:05	1	06:03 (KLZ_WT17)
29	08:28		09:00 (KLZ_WT16)				07:30		07:52 (CBR_WT01)	06:24		06:48 (KLZ_WT21)	05:39			05:33		06:03 (KLZ_WT17)
	17:29	25	09:25 (KLZ_WT16)				20:12	32	08:39 (KLZ_WT22)	21:03	48	07:48 (KLZ_WT15)	21:47			22:05	1	06:04 (KLZ_WT17)
30	08:27		08:53 (ALB_WT01)				07:28		07:50 (CBR_WT01)	06:22		06:46 (KLZ_WT21)	05:38			05:33		06:03 (KLZ_WT17)
	17:31	29	09:27 (KLZ_WT16)				20:14	34	08:39 (KLZ_WT22)	21:05	49	07:47 (KLZ_WT15)	21:48			22:05	1	06:04 (KLZ_WT17)
31	08:26		08:51 (ALB_WT01)				07:26		07:48 (CBR_WT01)				05:37					
	17:33	32	09:27 (KLZ_WT16)				20:15	36	08:39 (KLZ_WT22)				21:49					
Potential sun hours	262			279			367			415			482			495		
Total, worst case	156			655			291			761			692			20		
Sun reduction	0,25			0,30			0,38			0,46			0,46			0,44		
Oper. time red.	0,98			0,98			0,98			0,98			0,98			0,98		
Wind dir. red.	0,55			0,55			0,60			0,63			0,65			0,71		
Total reduction	0,13			0,16			0,22			0,29			0,29			0,31		
Total, real	21			105			65			217			201			6		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 16 - Molendreef 5, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December
1	05:34		06:04 (KLZ_WT17)	06:09		07:20 (KLZ_WT15)	06:57			07:45		08:09 (KLZ_WT08)	07:37		08:26 (KLZ_WT16)	08:26
	22:04	1	06:05 (KLZ_WT17)	21:34	30	07:50 (KLZ_WT15)	20:33			19:26	2	08:11 (KLZ_WT08)	17:21	35	09:01 (KLZ_WT16)	16:42
2	05:35		06:04 (KLZ_WT17)	06:11		06:55 (KLZ_WT21)	06:59		08:13 (KLZ_WT22)	07:46			07:38		08:26 (KLZ_WT16)	08:27
	22:04	1	06:05 (KLZ_WT17)	21:32	35	07:52 (KLZ_WT15)	20:31	10	08:23 (KLZ_WT22)	19:23			17:19	35	09:01 (KLZ_WT16)	16:42
3	05:35			06:12		06:52 (KLZ_WT21)	07:00		08:10 (KLZ_WT22)	07:48			07:40		08:08 (RHR_WT02)	08:29
	22:04			21:30	42	07:52 (KLZ_WT15)	20:29	16	08:26 (KLZ_WT22)	19:21			17:18	37	09:02 (KLZ_WT16)	16:41
4	05:36			06:14		06:51 (KLZ_WT21)	07:02		08:08 (KLZ_WT22)	07:49			07:42		08:09 (RHR_WT02)	08:30
	22:03			21:29	47	07:54 (KLZ_WT15)	20:27	19	08:27 (KLZ_WT22)	19:19			17:16	41	09:01 (KLZ_WT16)	16:40
5	05:37			06:15		06:49 (KLZ_WT21)	07:03		08:06 (KLZ_WT22)	07:51			07:44		08:11 (RHR_WT03)	08:31
	22:03			21:27	50	07:54 (KLZ_WT15)	20:24	23	08:29 (KLZ_WT22)	19:17			17:14	41	09:01 (KLZ_WT16)	16:40
6	05:38			06:17		06:48 (KLZ_WT21)	07:05		08:04 (KLZ_WT22)	07:53			07:45		08:13 (RHR_WT03)	08:33
	22:02			21:25	53	07:54 (KLZ_WT15)	20:22	26	08:30 (KLZ_WT22)	19:14			17:12	41	09:01 (KLZ_WT16)	16:40
7	05:38			06:18		06:47 (KLZ_WT23)	07:07		08:03 (KLZ_WT22)	07:54			07:47		08:15 (RHR_WT03)	08:34
	22:02			21:24	56	07:55 (KLZ_WT15)	20:20	28	08:31 (KLZ_WT22)	19:12			17:11	42	09:00 (KLZ_WT16)	16:39
8	05:39			06:20		06:47 (KLZ_WT21)	07:08		08:02 (KLZ_WT22)	07:56			07:49		08:17 (ALB_WT01)	08:35
	22:01			21:22	57	07:55 (KLZ_WT15)	20:18	29	08:31 (KLZ_WT22)	19:10			17:09	40	09:00 (KLZ_WT16)	16:39
9	05:40			06:21		06:49 (KLZ_WT21)	07:10		08:01 (KLZ_WT22)	07:58			07:51		08:19 (ALB_WT01)	08:36
	22:00			21:20	56	07:56 (KLZ_WT15)	20:16	31	08:32 (KLZ_WT22)	19:08			17:08	38	09:00 (KLZ_WT16)	16:39
10	05:41			06:23		06:50 (KLZ_WT21)	07:11		07:37 (CBR_WT01)	07:59			07:52		08:21 (ALB_WT01)	08:37
	22:00			21:18	55	07:55 (KLZ_WT15)	20:13	37	08:31 (KLZ_WT22)	19:06			17:06	34	08:59 (KLZ_WT16)	16:38
11	05:42			06:24		06:52 (KLZ_WT21)	07:13		07:38 (CBR_WT01)	08:01			07:54		08:23 (ALB_WT01)	08:38
	21:59			21:16	53	07:56 (KLZ_WT15)	20:11	37	08:31 (KLZ_WT22)	19:03			17:04	32	08:59 (KLZ_WT16)	16:38
12	05:43			06:26		06:53 (KLZ_WT21)	07:14		07:39 (CBR_WT01)	08:03			07:56		08:31 (KLZ_WT16)	08:39
	21:58			21:15	51	07:55 (KLZ_WT15)	20:09	37	08:31 (KLZ_WT22)	19:01			17:03	27	08:58 (KLZ_WT16)	16:38
13	05:44			06:27		06:54 (KLZ_WT21)	07:16		07:41 (CBR_WT01)	08:04			07:57		08:32 (KLZ_WT16)	08:40
	21:57			21:13	50	07:55 (KLZ_WT15)	20:06	36	08:31 (KLZ_WT22)	18:59			17:02	25	08:57 (KLZ_WT16)	16:38
14	05:45			06:29		06:56 (KLZ_WT21)	07:18		07:42 (CBR_WT01)	08:06			07:59		08:33 (KLZ_WT16)	08:41
	21:57			21:11	46	07:55 (KLZ_WT15)	20:04	33	08:30 (KLZ_WT22)	18:57			17:00	23	08:56 (KLZ_WT16)	16:38
15	05:47			06:31		06:57 (KLZ_WT21)	07:19		07:59 (KLZ_WT22)	08:07			08:01		08:35 (KLZ_WT16)	08:42
	21:56			21:09	43	07:54 (KLZ_WT15)	20:02	30	08:29 (KLZ_WT22)	18:55			16:59	20	08:55 (KLZ_WT16)	16:38
16	05:48			06:32		07:15 (KLZ_WT15)	07:21		08:00 (KLZ_WT22)	08:09		08:35 (MVN_WT01)	08:03		08:37 (KLZ_WT16)	08:43
	21:55			21:07	39	07:54 (KLZ_WT15)	20:00	29	08:29 (KLZ_WT22)	18:53	1	08:36 (MVN_WT01)	16:57	16	08:53 (KLZ_WT16)	16:38
17	05:49			06:34		07:15 (KLZ_WT15)	07:22		08:00 (KLZ_WT22)	08:11			08:04		08:40 (KLZ_WT16)	08:44
	21:54			21:05	38	07:53 (KLZ_WT15)	19:57	27	08:27 (KLZ_WT22)	18:51			16:56	11	08:51 (KLZ_WT16)	16:39
18	05:50			06:35		07:16 (KLZ_WT15)	07:24		08:01 (KLZ_WT22)	08:13			08:06			08:45
	21:53			21:03	37	07:53 (KLZ_WT15)	19:55	25	08:26 (KLZ_WT22)	18:48			16:55			16:39
19	05:51			06:37		07:16 (KLZ_WT15)	07:25		08:02 (KLZ_WT22)	08:14			08:08			08:45
	21:51			21:01	36	07:52 (KLZ_WT15)	19:53	22	08:24 (KLZ_WT22)	18:46			16:54			16:39
20	05:53			06:38		07:17 (KLZ_WT15)	07:27		08:03 (KLZ_WT22)	08:16			08:09			08:46
	21:50			20:59	35	07:52 (KLZ_WT15)	19:51	19	08:22 (KLZ_WT22)	18:44			16:52			16:40
21	05:54			06:40		07:17 (KLZ_WT15)	07:29		08:05 (KLZ_WT22)	08:18			08:11			08:47
	21:49			20:57	33	07:50 (KLZ_WT15)	19:48	14	08:19 (KLZ_WT22)	18:42			16:51			16:40
22	05:55			06:41		07:08 (SAM_WT07)	07:30		08:10 (KLZ_WT22)	08:19		09:36 (KLZ_WT16)	08:12			08:47
	21:48			20:55	34	07:49 (KLZ_WT15)	19:46	4	08:14 (KLZ_WT22)	18:40	14	09:50 (KLZ_WT16)	16:50			16:40
23	05:57			06:43		07:09 (SAM_WT07)	07:32			08:21		09:34 (KLZ_WT16)	08:14			08:48
	21:47			20:53	31	07:47 (KLZ_WT15)	19:44			18:38	18	09:52 (KLZ_WT16)	16:49			16:41
24	05:58			06:45		07:11 (SAM_WT07)	07:33			08:23		08:49 (RHR_WT01)	08:16			08:48
	21:45			20:51	27	07:46 (KLZ_WT15)	19:41			18:36	25	09:55 (KLZ_WT16)	16:48			16:42
25	05:59		07:34 (KLZ_WT15)	06:46		07:22 (KLZ_WT15)	07:35			07:24		07:51 (RHR_WT01)	08:17			08:48
	21:44	3	07:37 (KLZ_WT15)	20:48	21	07:43 (KLZ_WT15)	19:39			17:34	27	08:56 (KLZ_WT16)	16:47			16:42
26	06:01		07:29 (KLZ_WT15)	06:48		07:25 (KLZ_WT15)	07:37			07:26		07:53 (RHR_WT01)	08:19			08:49
	21:43	12	07:41 (KLZ_WT15)	20:46	16	07:41 (KLZ_WT15)	19:37			17:32	30	08:58 (KLZ_WT16)	16:46			16:43
27	06:02		07:28 (KLZ_WT15)	06:49		07:28 (KLZ_WT15)	07:38		08:05 (KLZ_WT08)	07:28		08:28 (KLZ_WT16)	08:20			08:49
	21:41	16	07:44 (KLZ_WT15)	20:44	8	07:36 (KLZ_WT15)	19:35	7	08:12 (KLZ_WT08)	17:30	30	08:58 (KLZ_WT16)	16:45			16:44
28	06:03		07:26 (KLZ_WT15)	06:51			07:40		08:04 (KLZ_WT08)	07:30		08:27 (KLZ_WT16)	08:22			08:49
	21:40	20	07:46 (KLZ_WT15)	20:42			19:32	8	08:12 (KLZ_WT08)	17:28	32	08:59 (KLZ_WT16)	16:44			16:44
29	06:05		07:24 (KLZ_WT15)	06:52			07:41		08:06 (KLZ_WT08)	07:31		08:26 (KLZ_WT16)	08:23			08:49
	21:38	23	07:47 (KLZ_WT15)	20:40			19:30	6	08:12 (KLZ_WT08)	17:27	34	09:00 (KLZ_WT16)	16:44			16:45
30	06:06		07:23 (KLZ_WT15)	06:54			07:43		08:08 (KLZ_WT08)	07:33		08:26 (KLZ_WT16)	08:25			08:50
	21:37	26	07:49 (KLZ_WT15)	20:38			19:28	4	08:12 (KLZ_WT08)	17:25	34	09:00 (KLZ_WT16)	16:43			16:46
31	06:08		07:22 (KLZ_WT15)	06:56						07:35		08:26 (KLZ_WT16)				08:50
	21:35	28	07:50 (KLZ_WT15)	20:36						17:23	35	09:01 (KLZ_WT16)				16:47
Potential sun hours	498			451			380			333			269			248
Total, worst case		130			1079			557			282			538		
Sun reduction		0,45			0,47			0,43			0,36			0,27		
Oper. time red.		0,98			0,98			0,98			0,98			0,98		
Wind dir. red.		0,64			0,65			0,61			0,55			0,55		
Total reduction		0,28			0,30			0,26			0,19			0,14		
Total, real		37			319			143			55			77		

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		12:37 (KLZ_WT16)	08:24			07:32			07:23		07:46 (CBR_WT01)	06:20			05:37		06:24 (KLZ_WT21)
	16:48	47	13:24 (KLZ_WT16)	17:35			18:25			20:17	66	09:28 (KLZ_WT22)	21:06			21:51	15	06:39 (KLZ_WT21)
2	08:50		12:38 (KLZ_WT16)	08:23			07:30			07:21		07:43 (CBR_WT01)	06:18			05:36		06:25 (KLZ_WT21)
	16:49	46	13:24 (KLZ_WT16)	17:37			18:27			20:19	68	09:27 (KLZ_WT22)	21:08			21:52	14	06:39 (KLZ_WT21)
3	08:49		12:39 (KLZ_WT16)	08:21			07:28			07:19		07:44 (CBR_WT01)	06:17			05:35		06:26 (KLZ_WT21)
	16:50	46	13:25 (KLZ_WT16)	17:38			18:28			20:20	66	09:27 (KLZ_WT22)	21:10			21:53	12	06:38 (KLZ_WT21)
4	08:49		12:39 (KLZ_WT16)	08:19			07:26		07:49 (KLZ_WT08)	07:17		07:46 (CBR_WT01)	06:15			05:34		06:27 (KLZ_WT21)
	16:51	45	13:24 (KLZ_WT16)	17:40			18:30	5	07:54 (KLZ_WT08)	20:22	61	09:27 (KLZ_WT22)	21:11			21:54	10	06:37 (KLZ_WT21)
5	08:49		12:40 (KLZ_WT16)	08:18			07:24		07:47 (KLZ_WT08)	07:14		08:30 (KLZ_WT22)	06:13			05:34		06:28 (KLZ_WT21)
	16:53	44	13:24 (KLZ_WT16)	17:42			18:32	9	07:56 (KLZ_WT08)	20:24	56	09:26 (KLZ_WT22)	21:13			21:55	8	06:36 (KLZ_WT21)
6	08:49		12:41 (KLZ_WT16)	08:16		08:41 (RHR_WT01)	07:22		07:44 (KLZ_WT08)	07:12		08:29 (KLZ_WT22)	06:11		06:36 (SAM_WT06)	05:33		06:30 (KLZ_WT21)
	16:54	43	13:24 (KLZ_WT16)	17:44	2	08:43 (RHR_WT01)	18:33	12	07:56 (KLZ_WT08)	20:25	56	09:25 (KLZ_WT22)	21:14	2	06:38 (SAM_WT06)	21:56	4	06:34 (KLZ_WT21)
7	08:48		09:18 (ALB_WT01)	08:15		08:39 (RHR_WT01)	07:19		07:43 (KLZ_WT08)	07:10		08:29 (KLZ_WT22)	06:09		06:34 (SAM_WT06)	05:32		
	16:55	44	13:24 (KLZ_WT16)	17:46	3	08:42 (RHR_WT01)	18:35	14	07:57 (KLZ_WT08)	20:27	55	09:24 (KLZ_WT22)	21:16	3	06:37 (SAM_WT06)	21:56		
8	08:48		09:17 (ALB_WT01)	08:13		08:38 (RHR_WT01)	07:17		07:42 (KLZ_WT08)	07:08		08:29 (KLZ_WT22)	06:08		06:32 (KLZ_WT23)	05:32		
	16:56	43	13:23 (KLZ_WT16)	17:47	5	08:43 (RHR_WT01)	18:37	15	07:57 (KLZ_WT08)	20:29	55	09:24 (KLZ_WT22)	21:17	4	06:36 (SAM_WT06)	21:57		
9	08:48		09:17 (ALB_WT01)	08:11		08:36 (RHR_WT01)	07:15		07:42 (KLZ_WT08)	07:06		08:29 (KLZ_WT22)	06:06		06:31 (KLZ_WT21)	05:31		
	16:58	43	13:24 (KLZ_WT16)	17:49	5	08:41 (RHR_WT01)	18:39	15	07:57 (KLZ_WT08)	20:30	54	09:23 (KLZ_WT22)	21:19	6	06:37 (KLZ_WT23)	21:58		
10	08:47		09:16 (ALB_WT01)	08:09		08:34 (RHR_WT01)	07:13		07:42 (KLZ_WT08)	07:03		08:29 (KLZ_WT22)	06:04		06:29 (KLZ_WT21)	05:31		
	16:59	43	13:23 (KLZ_WT16)	17:51	6	08:40 (RHR_WT01)	18:40	13	07:55 (KLZ_WT08)	20:32	54	09:23 (KLZ_WT22)	21:21	9	06:38 (KLZ_WT23)	21:59		
11	08:46		09:15 (ALB_WT01)	08:08			07:11		07:43 (KLZ_WT08)	07:01		08:30 (KLZ_WT22)	06:03		06:28 (KLZ_WT21)	05:31		
	17:00	42	13:22 (KLZ_WT16)	17:53			18:42	11	07:54 (KLZ_WT08)	20:34	52	09:22 (KLZ_WT22)	21:22	11	06:39 (KLZ_WT21)	22:00		
12	08:46		09:15 (ALB_WT01)	08:06			07:08		07:44 (KLZ_WT08)	06:59		08:29 (KLZ_WT22)	06:01		06:26 (KLZ_WT21)	05:30		
	17:02	41	13:22 (KLZ_WT16)	17:55			18:44	8	07:52 (KLZ_WT08)	20:35	51	09:20 (KLZ_WT22)	21:24	13	06:39 (KLZ_WT21)	22:00		
13	08:45		09:14 (ALB_WT01)	08:04			07:06			06:57		08:29 (KLZ_WT22)	06:00		06:25 (KLZ_WT21)	05:30		
	17:03	39	13:21 (KLZ_WT16)	17:56			18:45			20:37	50	09:19 (KLZ_WT22)	21:25	15	06:40 (KLZ_WT21)	22:01		
14	08:45		09:13 (ALB_WT01)	08:02			07:04			06:55		08:30 (KLZ_WT22)	05:58		06:23 (KLZ_WT21)	05:30		
	17:05	38	13:20 (KLZ_WT16)	17:58			18:47			20:39	47	09:17 (KLZ_WT22)	21:27	17	06:40 (KLZ_WT21)	22:02		
15	08:44		09:12 (ALB_WT01)	08:00			07:02			06:53		08:31 (KLZ_WT22)	05:57		06:22 (KLZ_WT21)	05:30		
	17:06	35	13:18 (KLZ_WT16)	18:00			18:49			20:40	45	09:16 (KLZ_WT22)	21:28	19	06:41 (KLZ_WT21)	22:02		
16	08:43		09:12 (ALB_WT01)	07:58			06:59			06:50		08:32 (KLZ_WT22)	05:55		06:21 (KLZ_WT21)	05:30		
	17:08	29	13:15 (KLZ_WT16)	18:02			18:51			20:42	43	09:15 (KLZ_WT22)	21:30	21	06:42 (KLZ_WT21)	22:03		
17	08:42		09:10 (RHR_WT03)	07:57			06:57			06:48		08:33 (KLZ_WT22)	05:54		06:19 (KLZ_WT21)	05:30		
	17:09	17	13:10 (KLZ_WT16)	18:04			18:52			20:43	40	09:13 (KLZ_WT22)	21:31	23	06:42 (KLZ_WT21)	22:03		
18	08:41		09:09 (RHR_WT03)	07:55			06:55		07:55 (KLZ_WT22)	06:46		08:34 (KLZ_WT22)	05:52		06:18 (KLZ_WT21)	05:30		
	17:11	13	09:23 (ALB_WT01)	18:05			18:54	18	08:13 (KLZ_WT22)	20:45	37	09:11 (KLZ_WT22)	21:33	24	06:42 (KLZ_WT21)	22:03		
19	08:40		09:08 (RHR_WT03)	07:53			06:53		07:51 (KLZ_WT22)	06:44		08:35 (KLZ_WT22)	05:51		06:19 (KLZ_WT21)	05:30		
	17:13	13	09:23 (ALB_WT01)	18:07			18:56	25	08:16 (KLZ_WT22)	20:47	34	09:09 (KLZ_WT22)	21:34	23	06:42 (KLZ_WT21)	22:04		
20	08:39		09:07 (RHR_WT03)	07:51		08:14 (MVN_WT01)	06:50		07:49 (KLZ_WT22)	06:42		08:37 (KLZ_WT22)	05:49		06:19 (KLZ_WT21)	05:30		
	17:14	11	09:22 (ALB_WT01)	18:09	2	08:16 (MVN_WT01)	18:57	30	08:19 (KLZ_WT22)	20:48	30	09:07 (KLZ_WT22)	21:35	24	06:43 (KLZ_WT21)	22:04		
21	08:38		09:05 (RHR_WT03)	07:49		08:12 (MVN_WT01)	06:48		07:45 (KLZ_WT22)	06:40		08:38 (KLZ_WT22)	05:48		06:19 (KLZ_WT21)	05:30		
	17:16	7	09:12 (RHR_WT03)	18:11	3	08:15 (MVN_WT01)	18:59	35	08:20 (KLZ_WT22)	20:50	26	09:04 (KLZ_WT22)	21:37	24	06:43 (KLZ_WT21)	22:04		
22	08:37		09:04 (RHR_WT03)	07:47		08:10 (MVN_WT01)	06:46		07:08 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:18 (KLZ_WT21)	05:30		
	17:17	8	09:12 (RHR_WT03)	18:12	3	08:13 (MVN_WT01)	19:01	40	08:22 (KLZ_WT22)	20:52	22	09:01 (KLZ_WT22)	21:38	24	06:42 (KLZ_WT21)	22:05		
23	08:36		09:03 (RHR_WT03)	07:45			06:44		07:06 (KLZ_WT10)	06:36		06:59 (SAM_WT07)	05:46		06:19 (KLZ_WT21)	05:30		
	17:19	9	09:12 (RHR_WT03)	18:14			19:02	45	08:24 (KLZ_WT22)	20:53	15	08:56 (KLZ_WT22)	21:40	23	06:42 (KLZ_WT21)	22:05		
24	08:35		09:02 (RHR_WT03)	07:43		08:06 (MXS_WT01)	06:41		07:04 (KLZ_WT10)	06:34		06:57 (SAM_WT07)	05:44		06:19 (KLZ_WT21)	05:31		
	17:21	10	09:12 (RHR_WT03)	18:16	2	08:08 (MXS_WT01)	19:04	50	08:25 (KLZ_WT22)	20:55	5	07:02 (SAM_WT07)	21:41	23	06:42 (KLZ_WT21)	22:05		
25	08:34		09:02 (RHR_WT03)	07:41		08:04 (MXS_WT01)	06:39		07:01 (KLZ_WT10)	06:32		06:55 (SAM_WT07)	05:43		06:19 (KLZ_WT21)	05:31		
	17:22	8	09:10 (RHR_WT03)	18:18	2	08:06 (MXS_WT01)	19:06	53	08:25 (KLZ_WT22)	20:57	6	07:01 (SAM_WT07)	21:42	22	06:41 (KLZ_WT21)	22:05		
26	08:32		08:59 (RHR_WT02)	07:39			06:37		07:02 (KLZ_WT10)	06:30		06:53 (SAM_WT07)	05:42		06:20 (KLZ_WT21)	05:31		
	17:24	4	09:08 (RHR_WT03)	18:20			19:07	51	08:26 (KLZ_WT22)	20:58	7	07:00 (SAM_WT07)	21:43	21	06:41 (KLZ_WT21)	22:05		
27	08:31		08:57 (RHR_WT02)	07:36			06:35		06:57 (KLZ_WT11)	06:28			05:41		06:20 (KLZ_WT21)	05:32		
	17:26	3	09:00 (RHR_WT02)	18:21			19:09	52	08:27 (KLZ_WT22)	21:00			21:45	21	06:41 (KLZ_WT21)	22:05		
28	08:30		08:56 (RHR_WT02)	07:34			06:32		06:55 (KLZ_WT11)	06:26			05:40		06:22 (KLZ_WT21)	05:32		
	17:28	4	09:00 (RHR_WT02)	18:23			19:10	54	08:27 (KLZ_WT22)	21:01			21:46	19	06:41 (KLZ_WT21)	22:05		
29	08:28		08:54 (RHR_WT02)				07:30		07:52 (CBR_WT01)	06:24			05:39		06:22 (KLZ_WT21)	05:33		
	17:29	4	08:58 (RHR_WT02)				20:12	57	09:27 (KLZ_WT22)	21:03			21:47	19	06:41 (KLZ_WT21)	22:05		
30	08:27						07:28		07:50 (CBR_WT01)	06:22			05:38		06:23 (KLZ_WT21)	05:33		
	17:31						20:14	60	09:27 (KLZ_WT22)	21:05			21:48	17	06:40 (KLZ_WT21)	22:04		
31	08:26						07:26		07:48 (CBR_WT01)				05:37		06:23 (KLZ_WT21)			
	17:33						20:15	63	09:27 (KLZ_WT22)				21:49	16	06:39 (KLZ_WT21)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		779			33			735			1101			443			63	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,65			0,56			0,58			0,58			0,69			0,69	
Total reduction		0,16			0,16			0,21			0,26			0,31			0,30	
Total, real		122			5			157			289			137			19	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	Minutes with flicker	First time (hh:mm) with flicker Last time (hh:mm) with flicker	(WTG causing flicker first time) (WTG causing flicker last time)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 17 - Amerigo Vespuccistraat 2A, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34			06:09		06:37 (KLZ_WT21)	06:57		08:28 (KLZ_WT22)	07:45		08:24 (KLZ_WT08)	07:37		08:04 (RHR_WT01)	08:26		08:57 (ALB_WT01)
	22:04			21:34	12	06:49 (KLZ_WT21)	20:33	53	09:21 (KLZ_WT22)	19:25	6	08:30 (KLZ_WT08)	17:21	6	08:10 (RHR_WT01)	16:42	42	13:04 (KLZ_WT16)
2	05:35			06:11		06:39 (KLZ_WT21)	06:59		08:27 (KLZ_WT22)	07:46		08:22 (KLZ_WT08)	07:38		08:06 (RHR_WT01)	08:27		08:59 (ALB_WT01)
	22:04			21:32	10	06:49 (KLZ_WT21)	20:31	54	09:21 (KLZ_WT22)	19:23	10	08:32 (KLZ_WT08)	17:19	5	08:11 (RHR_WT01)	16:42	43	13:06 (KLZ_WT16)
3	05:35			06:12		06:40 (KLZ_WT21)	07:00		08:27 (KLZ_WT22)	07:48		08:20 (KLZ_WT08)	07:40		08:08 (RHR_WT01)	08:29		09:00 (ALB_WT01)
	22:04			21:30	8	06:48 (KLZ_WT23)	20:29	54	09:21 (KLZ_WT22)	19:21	13	08:33 (KLZ_WT08)	17:18	4	08:12 (RHR_WT01)	16:41	43	13:07 (KLZ_WT16)
4	05:36			06:14		06:41 (KLZ_WT21)	07:02		08:26 (KLZ_WT22)	07:49		08:19 (KLZ_WT08)	07:42		08:09 (RHR_WT01)	08:30		09:02 (ALB_WT01)
	22:03			21:29	5	06:46 (KLZ_WT23)	20:27	55	09:21 (KLZ_WT22)	19:19	14	08:33 (KLZ_WT08)	17:16	3	08:12 (RHR_WT01)	16:40	43	13:08 (KLZ_WT16)
5	05:37			06:15		06:43 (KLZ_WT23)	07:03		08:26 (KLZ_WT22)	07:51		08:19 (KLZ_WT08)	07:44		08:11 (RHR_WT01)	08:31		09:03 (ALB_WT01)
	22:03			21:27	4	06:47 (SAM_WT06)	20:24	56	09:22 (KLZ_WT22)	19:17	15	08:34 (KLZ_WT08)	17:14	1	08:12 (RHR_WT01)	16:40	44	13:09 (KLZ_WT16)
6	05:38			06:17		06:44 (SAM_WT06)	07:05		08:25 (KLZ_WT22)	07:53		08:18 (KLZ_WT08)	07:45			08:33		09:04 (ALB_WT01)
	22:02			21:25	3	06:47 (SAM_WT06)	20:22	56	09:21 (KLZ_WT22)	19:14	15	08:33 (KLZ_WT08)	17:12			16:40	44	13:10 (KLZ_WT16)
7	05:38		06:35 (KLZ_WT21)	06:18		06:46 (SAM_WT06)	07:07		08:25 (KLZ_WT22)	07:54		08:19 (KLZ_WT08)	07:47			08:34		12:27 (KLZ_WT16)
	22:02	6	06:41 (KLZ_WT21)	21:24	1	06:47 (SAM_WT06)	20:20	56	09:21 (KLZ_WT22)	19:12	13	08:32 (KLZ_WT08)	17:11			16:39	44	13:11 (KLZ_WT16)
8	05:39		06:34 (KLZ_WT21)	06:20			07:08		07:40 (CBR_WT01)	07:56		08:21 (KLZ_WT08)	07:49			08:35		12:27 (KLZ_WT16)
	22:01	9	06:43 (KLZ_WT21)	21:22			20:18	61	09:21 (KLZ_WT22)	19:10	11	08:32 (KLZ_WT08)	17:09			16:39	45	13:12 (KLZ_WT16)
9	05:40		06:33 (KLZ_WT21)	06:21			07:10		07:38 (CBR_WT01)	07:58		08:22 (KLZ_WT08)	07:51			08:36		12:27 (KLZ_WT16)
	22:00	11	06:44 (KLZ_WT21)	21:20			20:15	66	09:21 (KLZ_WT22)	19:08	7	08:29 (KLZ_WT08)	17:08			16:39	46	13:13 (KLZ_WT16)
10	05:41		06:33 (KLZ_WT21)	06:23			07:11		07:36 (CBR_WT01)	07:59		08:24 (KLZ_WT08)	07:52			08:37		12:27 (KLZ_WT16)
	22:00	13	06:46 (KLZ_WT21)	21:18			20:13	68	09:20 (KLZ_WT22)	19:05	2	08:26 (KLZ_WT08)	17:06			16:38	46	13:13 (KLZ_WT16)
11	05:42		06:32 (KLZ_WT21)	06:24			07:13		07:38 (CBR_WT01)	08:01			07:54			08:38		12:27 (KLZ_WT16)
	21:59	15	06:47 (KLZ_WT21)	21:16			20:11	66	09:20 (KLZ_WT22)	19:03			17:04			16:38	47	13:14 (KLZ_WT16)
12	05:43		06:32 (KLZ_WT21)	06:26			07:14		07:39 (CBR_WT01)	08:02			07:56			08:39		12:27 (KLZ_WT16)
	21:58	15	06:47 (KLZ_WT21)	21:14			20:09	64	09:19 (KLZ_WT22)	19:01			17:03			16:38	48	13:15 (KLZ_WT16)
13	05:44		06:31 (KLZ_WT21)	06:27			07:16		07:41 (CBR_WT01)	08:04			07:57		08:26 (RHR_WT02)	08:40		12:27 (KLZ_WT16)
	21:57	17	06:48 (KLZ_WT21)	21:13			20:06	61	09:19 (KLZ_WT22)	18:59			17:01	4	08:30 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
14	05:45		06:31 (KLZ_WT21)	06:29			07:18		07:42 (CBR_WT01)	08:06			07:59		08:28 (RHR_WT02)	08:41		12:27 (KLZ_WT16)
	21:56	18	06:49 (KLZ_WT21)	21:11			20:04	58	09:17 (KLZ_WT22)	18:57			17:00	4	08:32 (RHR_WT02)	16:38	49	13:16 (KLZ_WT16)
15	05:47		06:30 (KLZ_WT21)	06:31			07:19		07:44 (KLZ_WT11)	08:07			08:01		08:30 (RHR_WT02)	08:42		12:28 (KLZ_WT16)
	21:56	20	06:50 (KLZ_WT21)	21:09			20:02	54	09:17 (KLZ_WT22)	18:55			16:59	3	08:33 (RHR_WT02)	16:38	49	13:17 (KLZ_WT16)
16	05:48		06:30 (KLZ_WT21)	06:32		07:02 (SAM_WT07)	07:21		07:45 (KLZ_WT11)	08:09		08:35 (MXS_WT01)	08:03		08:32 (RHR_WT02)	08:43		12:28 (KLZ_WT16)
	21:55	20	06:50 (KLZ_WT21)	21:07	3	07:05 (SAM_WT07)	20:00	53	09:15 (KLZ_WT22)	18:53	2	08:37 (MXS_WT01)	16:57	6	08:42 (RHR_WT03)	16:38	50	13:18 (KLZ_WT16)
17	05:49		06:30 (KLZ_WT21)	06:34		07:00 (SAM_WT07)	07:22		08:25 (KLZ_WT22)	08:11		08:36 (MXS_WT01)	08:04		08:36 (RHR_WT03)	08:44		12:29 (KLZ_WT16)
	21:54	21	06:51 (KLZ_WT21)	21:05	7	07:07 (SAM_WT07)	19:57	49	09:14 (KLZ_WT22)	18:50	2	08:38 (MXS_WT01)	16:56	8	08:44 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
18	05:50		06:29 (KLZ_WT21)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT10)	08:13		08:38 (MXS_WT01)	08:06		08:36 (RHR_WT03)	08:45		12:28 (KLZ_WT16)
	21:53	22	06:51 (KLZ_WT21)	21:03	6	07:08 (SAM_WT07)	19:55	54	09:14 (KLZ_WT22)	18:48	1	08:39 (MXS_WT01)	16:55	10	08:46 (RHR_WT03)	16:39	50	13:18 (KLZ_WT16)
19	05:51		06:29 (KLZ_WT21)	06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT10)	08:14			08:08		08:37 (RHR_WT03)	08:45		12:29 (KLZ_WT16)
	21:51	22	06:51 (KLZ_WT21)	21:01	5	07:08 (SAM_WT07)	19:53	51	09:12 (KLZ_WT22)	18:46			16:54	9	08:46 (RHR_WT03)	16:39	50	13:19 (KLZ_WT16)
20	05:53		06:29 (KLZ_WT21)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT10)	08:16		08:42 (MVN_WT01)	08:09		08:39 (RHR_WT03)	08:46		12:30 (KLZ_WT16)
	21:50	23	06:52 (KLZ_WT21)	20:59	17	09:03 (KLZ_WT22)	19:50	45	09:10 (KLZ_WT22)	18:44	4	08:46 (MVN_WT01)	16:52	8	08:47 (RHR_WT03)	16:39	50	13:20 (KLZ_WT16)
21	05:54		06:29 (KLZ_WT21)	06:40		07:06 (SAM_WT07)	07:29		07:53 (KLZ_WT10)	08:18		08:43 (MVN_WT01)	08:11		08:41 (RHR_WT03)	08:47		12:30 (KLZ_WT16)
	21:49	23	06:52 (KLZ_WT21)	20:57	23	09:06 (KLZ_WT22)	19:48	41	09:08 (KLZ_WT22)	18:42	3	08:46 (MVN_WT01)	16:51	7	08:48 (RHR_WT03)	16:40	50	13:20 (KLZ_WT16)
22	05:55		06:29 (KLZ_WT21)	06:41		08:43 (KLZ_WT22)	07:30		08:30 (KLZ_WT22)	08:19		08:45 (MVN_WT01)	08:12		08:43 (RHR_WT03)	08:47		12:31 (KLZ_WT16)
	21:48	23	06:52 (KLZ_WT21)	20:55	26	09:09 (KLZ_WT22)	19:46	36	09:06 (KLZ_WT22)	18:40	1	08:46 (MVN_WT01)	16:50	11	08:58 (ALB_WT01)	16:40	50	13:21 (KLZ_WT16)
23	05:56		06:29 (KLZ_WT21)	06:43		08:40 (KLZ_WT22)	07:32		08:31 (KLZ_WT22)	08:21			08:14		08:44 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:47	23	06:52 (KLZ_WT21)	20:53	31	09:11 (KLZ_WT22)	19:44	32	09:03 (KLZ_WT22)	18:38			16:49	13	08:59 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
24	05:58		06:29 (KLZ_WT21)	06:45		08:39 (KLZ_WT22)	07:33		08:34 (KLZ_WT22)	08:23			08:16		08:46 (RHR_WT03)	08:48		12:31 (KLZ_WT16)
	21:45	24	06:53 (KLZ_WT21)	20:50	34	09:13 (KLZ_WT22)	19:41	27	09:01 (KLZ_WT22)	18:36			16:48	13	09:00 (ALB_WT01)	16:41	50	13:21 (KLZ_WT16)
25	05:59		06:29 (KLZ_WT21)	06:46		08:36 (KLZ_WT22)	07:35		08:37 (KLZ_WT22)	07:24			08:17		08:48 (RHR_WT03)	08:48		12:32 (KLZ_WT16)
	21:44	24	06:53 (KLZ_WT21)	20:48	38	09:14 (KLZ_WT22)	19:39	21	08:58 (KLZ_WT22)	17:34			16:47	15	12:47 (KLZ_WT16)	16:42	50	13:22 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT21)	06:48		08:35 (KLZ_WT22)	07:37		08:42 (KLZ_WT22)	07:26			08:19		08:50 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:43	23	06:52 (KLZ_WT21)	20:46	41	09:16 (KLZ_WT22)	19:37	9	08:51 (KLZ_WT22)	17:32			16:46	29	12:53 (KLZ_WT16)	16:43	50	13:23 (KLZ_WT16)
27	06:02		06:30 (KLZ_WT21)	06:49		08:33 (KLZ_WT22)	07:38			07:28			08:20		08:51 (ALB_WT01)	08:49		12:33 (KLZ_WT16)
	21:41	22	06:52 (KLZ_WT21)	20:44	44	09:17 (KLZ_WT22)	19:35			17:30			16:45	35	12:57 (KLZ_WT16)	16:44	50	13:23 (KLZ_WT16)
28	06:03		06:32 (KLZ_WT21)	06:51		08:33 (KLZ_WT22)	07:40			07:30			08:22		08:53 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:40	20	06:52 (KLZ_WT21)	20:42	45	09:18 (KLZ_WT22)	19:32			17:28			16:44	37	12:59 (KLZ_WT16)	16:44	49	13:23 (KLZ_WT16)
29	06:05		06:33 (KLZ_WT21)	06:52		08:31 (KLZ_WT22)	07:41			07:31			08:23		08:54 (ALB_WT01)	08:49		12:34 (KLZ_WT16)
	21:38	19	06:52 (KLZ_WT21)	20:40	47	09:18 (KLZ_WT22)	19:30			17:27			16:44	39	13:01 (KLZ_WT16)	16:45	49	13:23 (KLZ_WT16)
30	06:06		06:35 (KLZ_WT21)	06:54		08:30 (KLZ_WT22)	07:43			07:33			08:25		08:56 (ALB_WT01)	08:50		12:35 (KLZ_WT16)
	21:37	17	06:52 (KLZ_WT21)	20:38	50	09:20 (KLZ_WT22)	19:28			17:25			16:43	41	13:03 (KLZ_WT16)	16:46	48	13:23 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT21)	06:56		08:29 (KLZ_WT22)				07:35						08:50		12:36 (KLZ_WT16)
	21:35	15	06:51 (KLZ_WT21)	20:35	51	09:20 (KLZ_WT22)				17:23						16:47	48	13:24 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		465			511			1300			119			311			1476	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,69			0,59			0,58			0,56			0,60			0,68	
Total reduction		0,30			0,27			0,25			0,20			0,16			0,15	
Total, real		141			138			320			24			49			220	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January			February			March			April			May			June		
1	08:50		09:20 (RHR_WT03)	08:24		08:50 (RHR_WT01)	07:32		08:12 (KLZ_WT08)	07:23		07:46 (SAM_WT05)	06:20		18:40 (KLZ_WT15)	05:37		06:09 (KLZ_WT21)
	16:48	55	15:34 (KLZ_WT16)	17:35	7	08:57 (RHR_WT01)	18:25	17	08:29 (KLZ_WT08)	20:17	103	10:54 (KLZ_WT22)	21:06	75	19:55 (KLZ_WT15)	21:51	104	19:58 (KLZ_WT15)
2	08:50		09:20 (RHR_WT03)	08:23		08:48 (RHR_WT01)	07:30		08:13 (KLZ_WT08)	07:21		07:47 (CBR_WT01)	06:18		18:40 (KLZ_WT15)	05:36		06:10 (KLZ_WT21)
	16:49	52	15:35 (KLZ_WT16)	17:37	8	08:56 (RHR_WT01)	18:27	15	08:28 (KLZ_WT08)	20:19	100	10:53 (KLZ_WT22)	21:08	76	19:56 (KLZ_WT15)	21:52	102	19:58 (KLZ_WT15)
3	08:49		09:20 (RHR_WT03)	08:21		08:47 (RHR_WT01)	07:28		08:14 (KLZ_WT08)	07:19		07:48 (CBR_WT01)	06:17		18:40 (KLZ_WT15)	05:35		06:10 (KLZ_WT21)
	16:50	52	15:35 (KLZ_WT16)	17:38	8	08:55 (RHR_WT01)	18:28	12	08:26 (KLZ_WT08)	20:20	96	10:52 (KLZ_WT22)	21:10	77	19:57 (KLZ_WT15)	21:53	101	19:58 (KLZ_WT15)
4	08:49		09:19 (RHR_WT03)	08:19			07:26		08:17 (KLZ_WT08)	07:17		09:25 (KLZ_WT22)	06:15		18:39 (KLZ_WT15)	05:34		06:09 (KLZ_WT21)
	16:51	52	15:35 (KLZ_WT16)	17:40			18:30	18	09:26 (KLZ_WT22)	20:22	87	10:52 (KLZ_WT22)	21:11	78	19:57 (KLZ_WT15)	21:54	101	19:57 (KLZ_WT15)
5	08:49		09:19 (RHR_WT03)	08:18			07:24		09:06 (KLZ_WT22)	07:14		09:25 (KLZ_WT22)	06:13		18:38 (KLZ_WT15)	05:34		06:10 (KLZ_WT21)
	16:53	53	15:36 (KLZ_WT16)	17:42			18:32	26	09:32 (KLZ_WT22)	20:24	86	10:51 (KLZ_WT22)	21:13	79	19:57 (KLZ_WT15)	21:55	101	19:58 (KLZ_WT15)
6	08:49		09:18 (RHR_WT03)	08:16			07:21		09:02 (KLZ_WT22)	07:12		09:24 (KLZ_WT22)	06:11		18:39 (KLZ_WT15)	05:33		06:10 (KLZ_WT21)
	16:54	53	15:35 (KLZ_WT16)	17:44			18:33	35	09:37 (KLZ_WT22)	20:25	85	10:49 (KLZ_WT22)	21:14	79	19:58 (KLZ_WT15)	21:56	100	19:57 (KLZ_WT15)
7	08:48		09:18 (RHR_WT03)	08:15			07:19		08:58 (KLZ_WT22)	07:10		09:24 (KLZ_WT22)	06:09		18:38 (KLZ_WT15)	05:32		06:10 (KLZ_WT21)
	16:55	54	15:36 (KLZ_WT16)	17:46			18:35	42	09:40 (KLZ_WT22)	20:27	85	10:49 (KLZ_WT22)	21:16	80	19:58 (KLZ_WT15)	21:56	100	19:58 (KLZ_WT15)
8	08:48		09:17 (RHR_WT03)	08:13			07:17		08:56 (KLZ_WT22)	07:08		09:24 (KLZ_WT22)	06:08		06:32 (SAM_WT06)	05:32		06:11 (KLZ_WT21)
	16:56	54	15:36 (KLZ_WT16)	17:47			18:37	47	09:43 (KLZ_WT22)	20:29	84	10:48 (KLZ_WT22)	21:17	81	19:57 (KLZ_WT15)	21:57	99	19:58 (KLZ_WT15)
9	08:48		09:17 (RHR_WT03)	08:11			07:15		08:53 (KLZ_WT22)	07:06		07:28 (SAM_WT04)	06:06		06:31 (SAM_WT06)	05:31		06:11 (KLZ_WT21)
	16:58	55	15:37 (KLZ_WT16)	17:49			18:39	52	09:45 (KLZ_WT22)	20:30	83	10:47 (KLZ_WT22)	21:19	83	19:58 (KLZ_WT15)	21:58	99	19:58 (KLZ_WT15)
10	08:47		09:17 (RHR_WT03)	08:09			07:13		08:50 (KLZ_WT22)	07:03		09:25 (KLZ_WT22)	06:04		06:29 (SAM_WT06)	05:31		06:11 (KLZ_WT21)
	16:59	55	15:37 (KLZ_WT16)	17:51			18:40	56	09:46 (KLZ_WT22)	20:32	81	10:46 (KLZ_WT22)	21:21	86	19:58 (KLZ_WT15)	21:59	99	19:58 (KLZ_WT15)
11	08:46		09:18 (RHR_WT03)	08:08			07:11		08:48 (KLZ_WT22)	07:01		09:25 (KLZ_WT22)	06:03		06:28 (SAM_WT06)	05:31		06:12 (KLZ_WT21)
	17:00	52	15:37 (KLZ_WT16)	17:53			18:42	60	09:48 (KLZ_WT22)	20:34	79	10:44 (KLZ_WT22)	21:22	86	19:58 (KLZ_WT15)	22:00	97	19:58 (KLZ_WT15)
12	08:46		09:20 (RHR_WT03)	08:06			07:08		08:46 (KLZ_WT22)	06:59		09:25 (KLZ_WT22)	06:01		06:26 (SAM_WT06)	05:30		06:11 (KLZ_WT21)
	17:02	49	15:37 (KLZ_WT16)	17:55			18:44	64	09:50 (KLZ_WT22)	20:35	77	10:42 (KLZ_WT22)	21:24	88	19:58 (KLZ_WT15)	22:00	99	19:58 (KLZ_WT15)
13	08:45		09:21 (RHR_WT03)	08:04			07:06		08:45 (KLZ_WT22)	06:57		09:25 (KLZ_WT22)	06:00		06:25 (KLZ_WT23)	05:30		06:12 (KLZ_WT21)
	17:03	46	15:37 (KLZ_WT16)	17:56			18:45	66	09:51 (KLZ_WT22)	20:37	83	19:24 (KLZ_WT15)	21:25	87	19:58 (KLZ_WT15)	22:01	97	19:58 (KLZ_WT15)
14	08:44		09:13 (RHR_WT02)	08:02			07:04		08:42 (KLZ_WT22)	06:55		09:25 (KLZ_WT22)	05:58		06:23 (KLZ_WT23)	05:30		06:12 (KLZ_WT21)
	17:05	44	15:37 (KLZ_WT16)	17:58			18:47	69	09:51 (KLZ_WT22)	20:38	98	19:32 (KLZ_WT15)	21:27	89	19:58 (KLZ_WT15)	22:02	96	19:58 (KLZ_WT15)
15	08:44		09:12 (RHR_WT02)	08:00		08:24 (MVN_WT01)	07:02		08:41 (KLZ_WT22)	06:53		09:26 (KLZ_WT22)	05:56		06:22 (KLZ_WT23)	05:30		06:12 (KLZ_WT21)
	17:06	40	15:37 (KLZ_WT16)	18:00	2	08:26 (MVN_WT01)	18:49	72	09:53 (KLZ_WT22)	20:40	103	19:36 (KLZ_WT15)	21:28	91	19:58 (KLZ_WT15)	22:02	96	19:58 (KLZ_WT15)
16	08:43		09:11 (RHR_WT02)	07:58		08:22 (MVN_WT01)	06:59		08:40 (KLZ_WT22)	06:50		07:13 (SAM_WT11)	05:55		06:21 (KLZ_WT23)	05:30		06:13 (KLZ_WT21)
	17:08	40	15:37 (KLZ_WT16)	18:02	3	08:25 (MVN_WT01)	18:50	74	09:54 (KLZ_WT22)	20:42	107	19:38 (KLZ_WT15)	21:30	94	19:59 (KLZ_WT15)	22:03	96	19:58 (KLZ_WT15)
17	08:42		09:10 (RHR_WT02)	07:57		08:20 (MVN_WT01)	06:57		08:39 (KLZ_WT22)	06:48		07:11 (SAM_WT11)	05:54		06:19 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:09	40	15:37 (KLZ_WT16)	18:04	5	08:25 (MVN_WT01)	18:52	76	09:55 (KLZ_WT22)	20:43	112	19:41 (KLZ_WT15)	21:31	95	19:58 (KLZ_WT15)	22:03	96	19:59 (KLZ_WT15)
18	08:41		09:09 (RHR_WT02)	07:55		08:18 (MVN_WT01)	06:55		07:17 (KLZ_WT10)	06:46		07:09 (SAM_WT11)	05:52		06:18 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:11	40	15:37 (KLZ_WT16)	18:05	5	08:23 (MVN_WT01)	18:54	80	09:54 (KLZ_WT22)	20:45	113	19:43 (KLZ_WT15)	21:33	97	19:58 (KLZ_WT15)	22:03	96	19:59 (KLZ_WT15)
19	08:40		09:08 (RHR_WT02)	07:53		08:16 (MXS_WT01)	06:53		07:15 (KLZ_WT10)	06:44		09:29 (KLZ_WT22)	05:51		06:17 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:12	39	15:36 (KLZ_WT16)	18:07	5	08:21 (MXS_WT01)	18:56	84	09:55 (KLZ_WT22)	20:47	111	19:44 (KLZ_WT15)	21:34	99	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
20	08:39		09:07 (RHR_WT02)	07:51		08:16 (MXS_WT01)	06:50		07:13 (KLZ_WT10)	06:42		09:29 (KLZ_WT22)	05:49		06:16 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:14	37	15:36 (KLZ_WT16)	18:09	9	08:25 (KLZ_WT08)	18:57	88	09:56 (KLZ_WT22)	20:48	113	19:46 (KLZ_WT15)	21:35	100	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
21	08:38		09:07 (RHR_WT02)	07:49		08:16 (KLZ_WT08)	06:48		07:10 (KLZ_WT10)	06:40		09:30 (KLZ_WT22)	05:48		06:15 (KLZ_WT21)	05:30		06:13 (KLZ_WT21)
	17:16	34	15:35 (KLZ_WT16)	18:11	11	08:27 (KLZ_WT08)	18:59	92	09:56 (KLZ_WT22)	20:50	113	19:47 (KLZ_WT15)	21:37	101	19:59 (KLZ_WT15)	22:04	96	19:59 (KLZ_WT15)
22	08:37		15:07 (KLZ_WT16)	07:47		08:15 (KLZ_WT08)	06:46		07:09 (KLZ_WT10)	06:38		07:01 (SAM_WT07)	05:47		06:13 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)
	17:17	27	15:34 (KLZ_WT16)	18:12	14	08:29 (KLZ_WT08)	19:01	93	09:56 (KLZ_WT22)	20:52	115	19:49 (KLZ_WT15)	21:38	102	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
23	08:36		15:09 (KLZ_WT16)	07:45		08:13 (KLZ_WT08)	06:44		07:06 (KLZ_WT11)	06:36		06:59 (SAM_WT07)	05:46		06:12 (KLZ_WT21)	05:30		06:14 (KLZ_WT21)
	17:19	24	15:33 (KLZ_WT16)	18:14	17	08:30 (KLZ_WT08)	19:02	92	09:56 (KLZ_WT22)	20:53	115	19:50 (KLZ_WT15)	21:40	102	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
24	08:35		15:12 (KLZ_WT16)	07:43		08:13 (KLZ_WT08)	06:41		07:04 (KLZ_WT11)	06:34		06:57 (SAM_WT07)	05:44		06:11 (KLZ_WT21)	05:31		06:14 (KLZ_WT21)
	17:21	20	15:32 (KLZ_WT16)	18:16	18	08:31 (KLZ_WT08)	19:04	89	09:57 (KLZ_WT22)	20:55	115	19:51 (KLZ_WT15)	21:41	103	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
25	08:34		15:14 (KLZ_WT16)	07:41		08:12 (KLZ_WT08)	06:39		07:01 (KLZ_WT11)	06:32		06:55 (SAM_WT07)	05:43		06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)
	17:22	16	15:30 (KLZ_WT16)	18:18	19	08:31 (KLZ_WT08)	19:05	92	09:56 (KLZ_WT22)	20:57	115	19:51 (KLZ_WT15)	21:42	104	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
26	08:32		15:19 (KLZ_WT16)	07:39		08:12 (KLZ_WT08)	06:37		06:59 (KLZ_WT11)	06:30		06:53 (SAM_WT07)	05:42		06:10 (KLZ_WT21)	05:31		06:15 (KLZ_WT21)
	17:24	8	15:27 (KLZ_WT16)	18:20	19	08:31 (KLZ_WT08)	19:07	92	09:56 (KLZ_WT22)	20:58	113	19:52 (KLZ_WT15)	21:43	103	19:58 (KLZ_WT15)	22:05	96	20:00 (KLZ_WT15)
27	08:31			07:36		08:12 (KLZ_WT08)	06:35		06:57 (CBR_WT01)	06:28		06:51 (SAM_WT07)	05:41		06:10 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)
	17:26			18:21	19	08:31 (KLZ_WT08)	19:09	91	09:56 (KLZ_WT22)	21:00	111	19:53 (KLZ_WT15)	21:45	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
28	08:30		08:56 (RHR_WT01)	07:34		08:11 (KLZ_WT08)	06:32		06:55 (CBR_WT01)	06:26		06:51 (SAM_WT07)	05:40		06:09 (KLZ_WT21)	05:32		06:15 (KLZ_WT21)
	17:28	1	08:57 (RHR_WT01)	18:23	19	08:30 (KLZ_WT08)	19:10	95	09:56 (KLZ_WT22)	21:01	106	19:54 (KLZ_WT15)	21:46	103	19:58 (KLZ_WT15)	22:05	96	20:01 (KLZ_WT15)
29	08:28		08:54 (MVZ_WT01)				07:30		07:52 (CBR_WT01)	06:24		06:53 (SAM_WT07)	05:39		06:10 (KLZ_WT21)	05:33		06:16 (KLZ_WT21)
	17:29	3	08:57 (RHR_WT01)				20:12	97	10:55 (KLZ_WT22)	21:03	95	19:55 (KLZ_WT15)	21:47	103	19:58 (KLZ_WT15)	22:05	97	20:02 (KLZ_WT15)
30	08:27		08:53 (MVZ_WT01)				07:28		07:50 (CBR_WT01)	06:22		18:41 (KLZ_WT15)	05:38		06:10 (KLZ_WT21)	05:33		06:15 (KLZ_WT21)
	17:31	5	08:58 (RHR_WT01)				20:14	99	10:55 (KLZ_WT22)	21:05	74	19:55 (KLZ_WT15)	21:48	103	19:58 (KLZ_WT15)	22:04	98	20:02 (KLZ_WT15)
31	08:26		08:51 (RHR_WT01)				07:26		07:48 (CBR_WT01)				05:37		06:09 (KLZ_WT21)			
	17:33	6	08:57 (RHR_WT01)				20:15	102	10:55 (KLZ_WT22)				21:49	104	19:58 (KLZ_WT15)			
Potential sun hours	262			279			367			415			482			495		
Total, worst case		1106			188			2087			2958			2851			2934	
Sun reduction		0,25			0,30			0,38			0,46			0,46			0,44	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,70			0,56			0,56			0,57			0,61			0,62	
Total reduction		0,17			0,16			0,21			0,26			0,27			0,27	
Total, real		186			31			433			762			778			791	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling Shadow receptor: 18 - Pachtgoederen 1, 9940 Evergem

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July			August			September			October			November			December		
1	05:34		06:16 (KLZ_WT21)	06:09		06:37 (SAM_WT06)	06:57		09:24 (KLZ_WT22)	07:44		09:24 (KLZ_WT22)	07:37			08:26		09:00 (RHR_WT03)
	22:04	97	20:02 (KLZ_WT15)	21:34	86	20:08 (KLZ_WT15)	20:33	79	10:43 (KLZ_WT22)	19:25	65	10:29 (KLZ_WT22)	17:21			16:42	52	15:19 (KLZ_WT16)
2	05:35		06:15 (KLZ_WT21)	06:11		06:39 (SAM_WT06)	06:59		09:23 (KLZ_WT22)	07:46		09:26 (KLZ_WT22)	07:38			08:27		09:00 (RHR_WT03)
	22:04	99	20:02 (KLZ_WT15)	21:32	86	20:09 (KLZ_WT15)	20:31	81	10:44 (KLZ_WT22)	19:23	61	10:27 (KLZ_WT22)	17:19			16:42	55	15:20 (KLZ_WT16)
3	05:35		06:16 (KLZ_WT21)	06:12		06:40 (SAM_WT06)	07:00		07:26 (SAM_WT04)	07:48		09:27 (KLZ_WT22)	07:40			08:29		09:00 (RHR_WT03)
	22:04	98	20:03 (KLZ_WT15)	21:30	84	20:08 (KLZ_WT15)	20:29	83	10:45 (KLZ_WT22)	19:21	58	10:25 (KLZ_WT22)	17:17			16:41	55	15:20 (KLZ_WT16)
4	05:36		06:16 (KLZ_WT21)	06:14		06:41 (SAM_WT06)	07:02		09:21 (KLZ_WT22)	07:49		09:29 (KLZ_WT22)	07:42			08:30		09:02 (RHR_WT03)
	22:03	99	20:03 (KLZ_WT15)	21:29	83	20:07 (KLZ_WT15)	20:27	84	10:45 (KLZ_WT22)	19:19	54	10:23 (KLZ_WT22)	17:16			16:40	54	15:21 (KLZ_WT16)
5	05:37		06:17 (KLZ_WT21)	06:15		06:43 (SAM_WT06)	07:03		09:21 (KLZ_WT22)	07:51		09:32 (KLZ_WT22)	07:44			08:31		09:03 (RHR_WT03)
	22:03	99	20:04 (KLZ_WT15)	21:27	81	20:08 (KLZ_WT15)	20:24	85	10:46 (KLZ_WT22)	19:16	49	10:21 (KLZ_WT22)	17:14			16:40	54	15:21 (KLZ_WT16)
6	05:38		06:16 (KLZ_WT21)	06:17		18:48 (KLZ_WT15)	07:05		09:20 (KLZ_WT22)	07:53		09:33 (KLZ_WT22)	07:45			08:33		09:04 (RHR_WT03)
	22:02	101	20:04 (KLZ_WT15)	21:25	79	20:07 (KLZ_WT15)	20:22	85	10:45 (KLZ_WT22)	19:14	44	10:17 (KLZ_WT22)	17:12			16:40	53	15:21 (KLZ_WT16)
7	05:38		06:16 (KLZ_WT21)	06:18		18:48 (KLZ_WT15)	07:07		09:20 (KLZ_WT22)	07:54		09:36 (KLZ_WT22)	07:47			08:34		09:06 (RHR_WT03)
	22:02	101	20:04 (KLZ_WT15)	21:24	79	20:07 (KLZ_WT15)	20:20	86	10:46 (KLZ_WT22)	19:12	38	10:14 (KLZ_WT22)	17:11			16:39	53	15:23 (KLZ_WT16)
8	05:39		06:17 (KLZ_WT21)	06:20		18:48 (KLZ_WT15)	07:08		09:19 (KLZ_WT22)	07:56		09:40 (KLZ_WT22)	07:49		08:18 (RHR_WT01)	08:35		09:07 (RHR_WT03)
	22:01	102	20:05 (KLZ_WT15)	21:22	78	20:06 (KLZ_WT15)	20:18	87	10:46 (KLZ_WT22)	19:10	31	10:11 (KLZ_WT22)	17:09	8	08:26 (RHR_WT01)	16:39	53	15:23 (KLZ_WT16)
9	05:40		06:17 (KLZ_WT21)	06:21		18:49 (KLZ_WT15)	07:10		07:43 (CBR_WT01)	07:58		09:44 (KLZ_WT22)	07:50		08:19 (RHR_WT01)	08:36		09:08 (RHR_WT03)
	22:00	102	20:05 (KLZ_WT15)	21:20	77	20:06 (KLZ_WT15)	20:15	96	10:47 (KLZ_WT22)	19:08	21	10:05 (KLZ_WT22)	17:07	8	08:27 (RHR_WT01)	16:39	52	15:23 (KLZ_WT16)
10	05:41		06:17 (KLZ_WT21)	06:23		18:48 (KLZ_WT15)	07:11		07:40 (CBR_WT01)	07:59		08:50 (KLZ_WT08)	07:52		08:21 (RHR_WT01)	08:37		09:09 (RHR_WT03)
	22:00	102	20:05 (KLZ_WT15)	21:18	77	20:05 (KLZ_WT15)	20:13	100	10:46 (KLZ_WT22)	19:05	9	08:59 (KLZ_WT08)	17:06	7	08:28 (RHR_WT01)	16:38	52	15:24 (KLZ_WT16)
11	05:42		06:18 (KLZ_WT21)	06:24		18:49 (KLZ_WT15)	07:13		07:38 (SAM_WT05)	08:01		08:48 (KLZ_WT08)	07:54		08:23 (RHR_WT01)	08:38		09:10 (RHR_WT03)
	21:59	102	20:06 (KLZ_WT15)	21:16	76	20:05 (KLZ_WT15)	20:11	104	10:47 (KLZ_WT22)	19:03	13	09:01 (KLZ_WT08)	17:04	6	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
12	05:43		06:18 (KLZ_WT21)	06:26		18:49 (KLZ_WT15)	07:14		07:39 (CBR_WT01)	08:02		08:47 (KLZ_WT08)	07:56		08:24 (MVZ_WT01)	08:39		09:11 (RHR_WT03)
	21:58	102	20:06 (KLZ_WT15)	21:14	75	20:04 (KLZ_WT15)	20:09	101	10:46 (KLZ_WT22)	19:01	15	09:02 (KLZ_WT08)	17:03	5	08:29 (RHR_WT01)	16:38	55	15:24 (KLZ_WT16)
13	05:44		06:18 (KLZ_WT21)	06:27		10:00 (KLZ_WT22)	07:16		07:41 (CBR_WT01)	08:04		08:45 (KLZ_WT08)	07:57		08:26 (MVZ_WT01)	08:40		09:12 (RHR_WT03)
	21:57	102	20:06 (KLZ_WT15)	21:13	77	20:03 (KLZ_WT15)	20:06	100	10:46 (KLZ_WT22)	18:59	17	09:02 (KLZ_WT08)	17:01	3	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
14	05:45		06:18 (KLZ_WT21)	06:29		07:00 (SAM_WT07)	07:18		07:42 (CBR_WT01)	08:06		08:44 (KLZ_WT08)	07:59		08:28 (RHR_WT01)	08:41		09:13 (RHR_WT03)
	21:56	104	20:07 (KLZ_WT15)	21:11	97	20:02 (KLZ_WT15)	20:04	98	10:45 (KLZ_WT22)	18:57	19	09:03 (KLZ_WT08)	17:00	1	08:29 (RHR_WT01)	16:38	56	15:25 (KLZ_WT16)
15	05:47		06:19 (KLZ_WT21)	06:30		06:57 (SAM_WT07)	07:19		07:44 (CBR_WT01)	08:07		08:44 (KLZ_WT08)	08:01			08:42		09:14 (RHR_WT03)
	21:56	103	20:07 (KLZ_WT15)	21:09	109	20:01 (KLZ_WT15)	20:02	95	10:46 (KLZ_WT22)	18:55	19	09:03 (KLZ_WT08)	16:59			16:38	57	15:26 (KLZ_WT16)
16	05:48		06:19 (KLZ_WT21)	06:32		06:59 (SAM_WT07)	07:21		07:45 (CBR_WT01)	08:09		08:44 (KLZ_WT08)	08:02		14:52 (KLZ_WT16)	08:43		09:15 (RHR_WT03)
	21:55	103	20:07 (KLZ_WT15)	21:07	111	20:00 (KLZ_WT15)	20:00	92	10:45 (KLZ_WT22)	18:53	19	09:03 (KLZ_WT08)	16:57	8	15:00 (KLZ_WT16)	16:38	58	15:27 (KLZ_WT16)
17	05:49		06:19 (KLZ_WT21)	06:34		07:00 (SAM_WT07)	07:22		07:47 (KLZ_WT11)	08:11		08:44 (KLZ_WT08)	08:04		14:48 (KLZ_WT16)	08:44		09:16 (RHR_WT03)
	21:54	103	20:07 (KLZ_WT15)	21:05	115	19:59 (KLZ_WT15)	19:57	93	10:45 (KLZ_WT22)	18:50	18	09:02 (KLZ_WT08)	16:56	16	15:04 (KLZ_WT16)	16:39	58	15:27 (KLZ_WT16)
18	05:50		06:20 (KLZ_WT21)	06:35		07:02 (SAM_WT07)	07:24		07:49 (KLZ_WT11)	08:12		08:44 (KLZ_WT08)	08:06		14:46 (KLZ_WT16)	08:45		09:16 (RHR_WT03)
	21:52	103	20:07 (KLZ_WT15)	21:03	115	19:58 (KLZ_WT15)	19:55	91	10:44 (KLZ_WT22)	18:48	18	09:02 (KLZ_WT08)	16:55	20	15:06 (KLZ_WT16)	16:39	57	15:27 (KLZ_WT16)
19	05:51		06:20 (KLZ_WT21)	06:37		07:03 (SAM_WT07)	07:25		07:50 (KLZ_WT11)	08:14		08:45 (KLZ_WT08)	08:07		14:43 (KLZ_WT16)	08:45		09:17 (RHR_WT03)
	21:51	103	20:07 (KLZ_WT15)	21:01	115	19:56 (KLZ_WT15)	19:53	90	10:43 (KLZ_WT22)	18:46	16	09:01 (KLZ_WT08)	16:53	24	15:07 (KLZ_WT16)	16:39	58	15:28 (KLZ_WT16)
20	05:53		06:22 (KLZ_WT21)	06:38		07:05 (SAM_WT07)	07:27		07:52 (KLZ_WT11)	08:16		08:46 (KLZ_WT08)	08:09		14:42 (KLZ_WT16)	08:46		09:18 (RHR_WT03)
	21:50	104	20:09 (KLZ_WT15)	20:59	114	19:55 (KLZ_WT15)	19:50	93	10:43 (KLZ_WT22)	18:44	14	09:00 (KLZ_WT08)	16:52	27	15:09 (KLZ_WT16)	16:39	58	15:29 (KLZ_WT16)
21	05:54		06:23 (KLZ_WT21)	06:40		09:36 (KLZ_WT22)	07:29		07:55 (KLZ_WT10)	08:18		08:48 (KLZ_WT08)	08:11		08:43 (RHR_WT02)	08:47		09:18 (RHR_WT03)
	21:49	102	20:08 (KLZ_WT15)	20:57	113	19:53 (KLZ_WT15)	19:48	93	10:42 (KLZ_WT22)	18:42	9	08:57 (KLZ_WT08)	16:51	34	15:11 (KLZ_WT16)	16:40	58	15:29 (KLZ_WT16)
22	05:55		06:24 (KLZ_WT21)	06:41		09:35 (KLZ_WT22)	07:30		07:55 (KLZ_WT10)	08:19		08:45 (MXS_WT01)	08:12		08:43 (RHR_WT02)	08:47		09:19 (RHR_WT03)
	21:48	100	20:08 (KLZ_WT15)	20:55	113	19:52 (KLZ_WT15)	19:46	93	10:41 (KLZ_WT22)	18:40	5	08:50 (MXS_WT01)	16:50	37	15:12 (KLZ_WT16)	16:40	58	15:30 (KLZ_WT16)
23	05:56		06:25 (KLZ_WT21)	06:43		09:33 (KLZ_WT22)	07:32		07:56 (KLZ_WT10)	08:21		08:47 (MXS_WT01)	08:14		08:44 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:47	100	20:08 (KLZ_WT15)	20:53	112	19:49 (KLZ_WT15)	19:44	90	10:40 (KLZ_WT22)	18:38	5	08:52 (MXS_WT01)	16:49	39	15:12 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
24	05:58		06:27 (KLZ_WT21)	06:45		09:32 (KLZ_WT22)	07:33		07:58 (KLZ_WT10)	08:23		08:49 (MVN_WT01)	08:16		08:46 (RHR_WT02)	08:48		09:19 (RHR_WT03)
	21:45	99	20:09 (KLZ_WT15)	20:50	112	19:48 (KLZ_WT15)	19:41	86	10:39 (KLZ_WT22)	18:36	5	08:54 (MVN_WT01)	16:48	40	15:14 (KLZ_WT16)	16:41	58	15:30 (KLZ_WT16)
25	05:59		06:28 (KLZ_WT21)	06:46		07:12 (SAM_WT11)	07:35		08:00 (KLZ_WT10)	07:24		07:51 (MVN_WT01)	08:17		08:48 (RHR_WT02)	08:48		09:20 (RHR_WT03)
	21:44	98	20:09 (KLZ_WT15)	20:48	113	19:45 (KLZ_WT15)	19:39	81	10:38 (KLZ_WT22)	17:34	5	07:56 (MVN_WT01)	16:47	40	15:15 (KLZ_WT16)	16:42	58	15:31 (KLZ_WT16)
26	06:01		06:29 (KLZ_WT21)	06:48		07:14 (SAM_WT11)	07:36		09:20 (KLZ_WT22)	07:26		07:53 (MVN_WT01)	08:19		08:49 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:43	96	20:09 (KLZ_WT15)	20:46	111	19:43 (KLZ_WT15)	19:37	77	10:37 (KLZ_WT22)	17:32	3	07:56 (MVN_WT01)	16:46	40	15:15 (KLZ_WT16)	16:43	58	15:31 (KLZ_WT16)
27	06:02		06:30 (KLZ_WT23)	06:49		07:15 (SAM_WT11)	07:38		09:21 (KLZ_WT22)	07:28		07:54 (MVN_WT01)	08:20		08:51 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:41	95	20:08 (KLZ_WT15)	20:44	107	19:40 (KLZ_WT15)	19:35	75	10:36 (KLZ_WT22)	17:30	1	07:55 (MVN_WT01)	16:45	40	15:16 (KLZ_WT16)	16:43	58	15:32 (KLZ_WT16)
28	06:03		06:32 (KLZ_WT23)	06:51		09:28 (KLZ_WT22)	07:40		09:21 (KLZ_WT22)	07:30			08:22		08:53 (RHR_WT02)	08:49		09:20 (RHR_WT03)
	21:40	92	20:09 (KLZ_WT15)	20:42	102	19:37 (KLZ_WT15)	19:32	73	10:34 (KLZ_WT22)	17:28			16:44	42	15:17 (KLZ_WT16)	16:44	57	15:32 (KLZ_WT16)
29	06:05		06:33 (KLZ_WT23)	06:52		09:26 (KLZ_WT22)	07:41		09:22 (KLZ_WT22)	07:31			08:23		09:01 (RHR_WT03)	08:49		09:20 (RHR_WT03)
	21:38	91	20:09 (KLZ_WT15)	20:40	96	19:32 (KLZ_WT15)	19:30	71	10:33 (KLZ_WT22)	17:27			16:44	46	15:17 (KLZ_WT16)	16:45	57	15:32 (KLZ_WT16)
30	06:06		06:34 (KLZ_WT23)	06:54		09:26 (KLZ_WT22)	07:43		09:24 (KLZ_WT22)	07:33			08:25		09:01 (RHR_WT03)	08:50		09:20 (RHR_WT03)
	21:37	87	20:08 (KLZ_WT15)	20:38	81	19:24 (KLZ_WT15)	19:28	67	10:31 (KLZ_WT22)	17:25			16:43	50	15:19 (KLZ_WT16)	16:46	56	15:33 (KLZ_WT16)
31	06:08		06:36 (KLZ_WT23)	06:56		09:24 (KLZ_WT22)				07:35						08:50		09:20 (RHR_WT03)
	21:35	88	20:09 (KLZ_WT15)	20:35	78	10:42 (KLZ_WT22)				17:23						16:47	56	15:33 (KLZ_WT16)
Potential sun hours	498			451			380			333			269			248		
Total, worst case		3077			2952			2629			631			541			1733	
Sun reduction		0,45			0,47			0,43			0,36			0,27			0,23	
Oper. time red.		0,98			0,98			0,98			0,98			0,98			0,98	
Wind dir. red.		0,62			0,58			0,56			0,56			0,70			0,68	
Total reduction		0,27			0,26			0,24			0,20			0,18			0,15	
Total, real		839			781			623			124			99			261	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)		First time (hh:mm) with flicker	(WTG causing flicker first time)
	Sun set (hh:mm)	Minutes with flicker	Last time (hh:mm) with flicker	(WTG causing flicker last time)

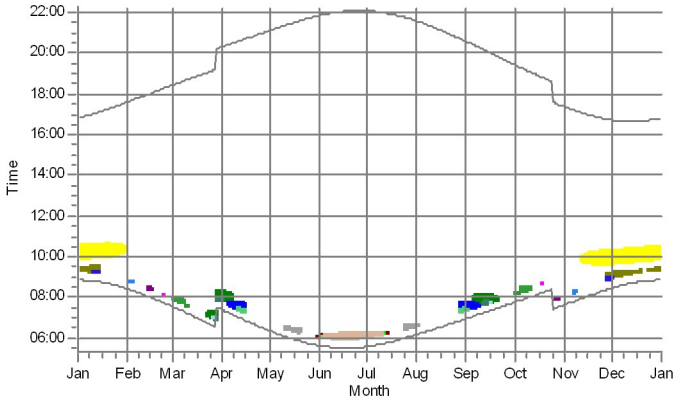
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Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

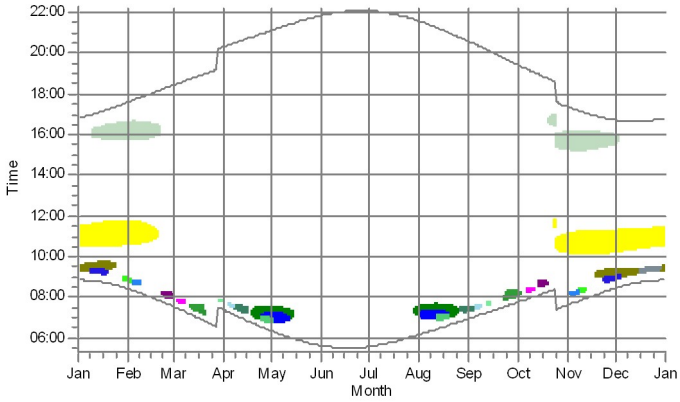
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

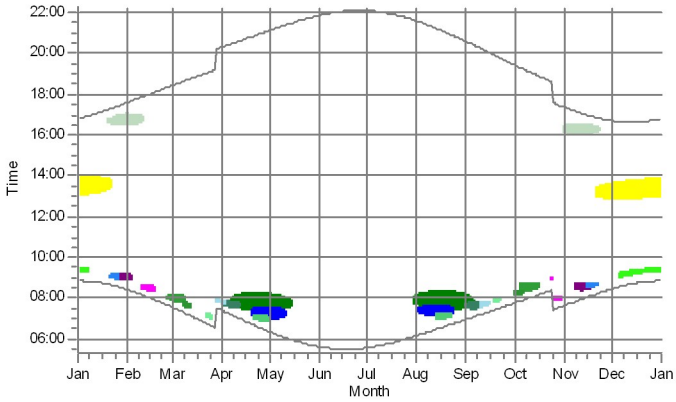
1: Hoogstraat 54, 9940 Evergem



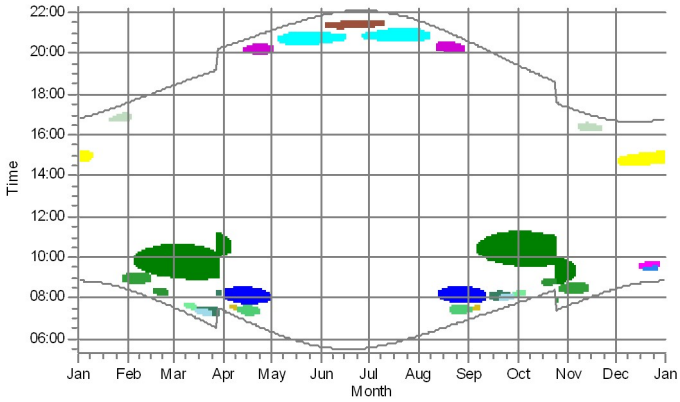
2: Pachtgoederen 2, 9940 Evergem



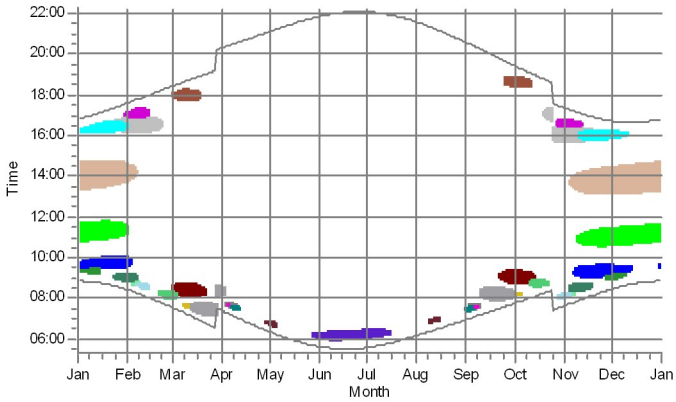
3: Pachtgoederen 2, 9940 Evergem



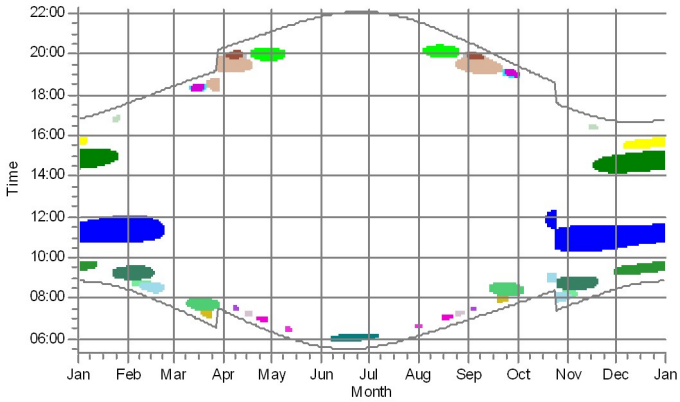
4: James Cookstraat 10, 9042 Gent



5: Pelikaanstraat 60, 9940 Evergem



6: Christoffel Columbuslaan 23, 9042 Gent



WTGs

- KLZ_WT21: KLZ_WT21 Armasteel
- KLZ_WT22: KLZ_WT22 Magelaanstraat
- KLZ_WT23: KLZ_WT23 Stukwerkers
- KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
- KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
- KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
- KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
- KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
- KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
- KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
- SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
- SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
- SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
- EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
- TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)
- SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!

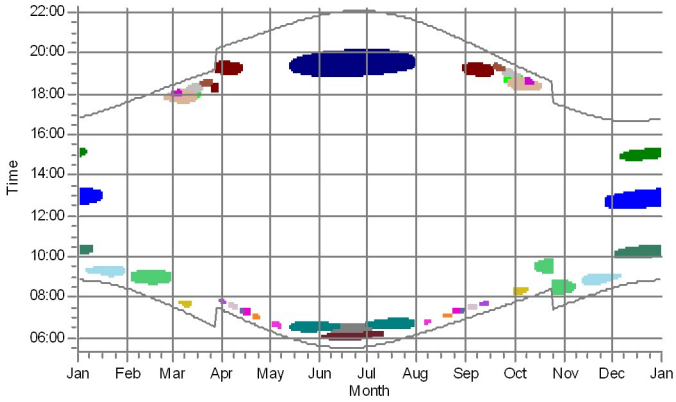
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

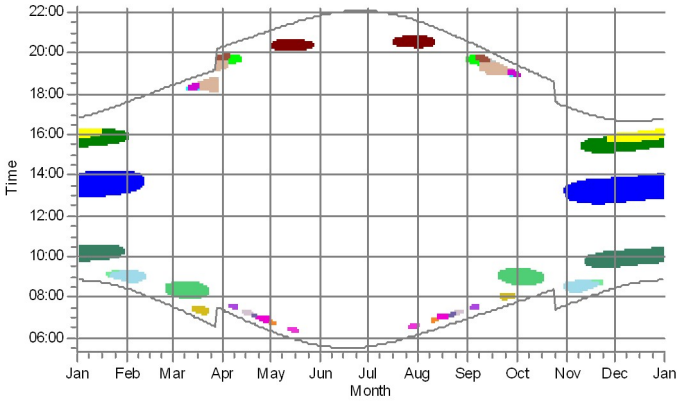
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

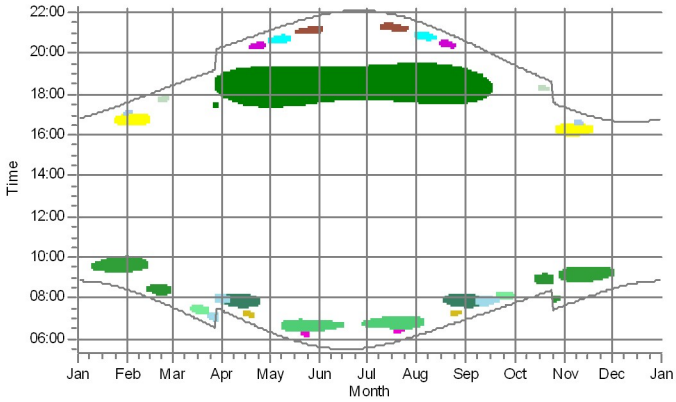
7: Christoffel Columbuslaan 23, 9042 Gent



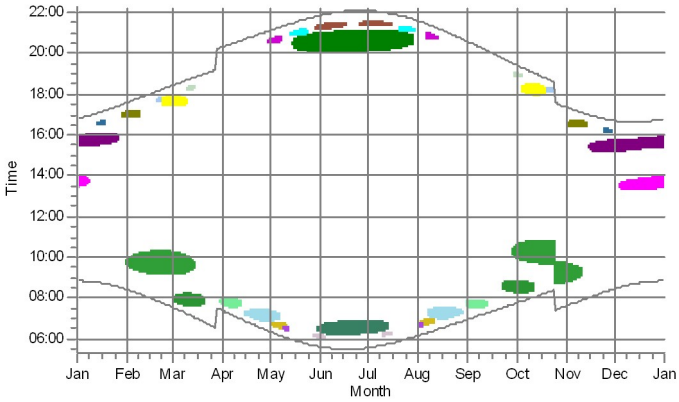
8: Christoffel Columbuslaan 17, 9042 Gent



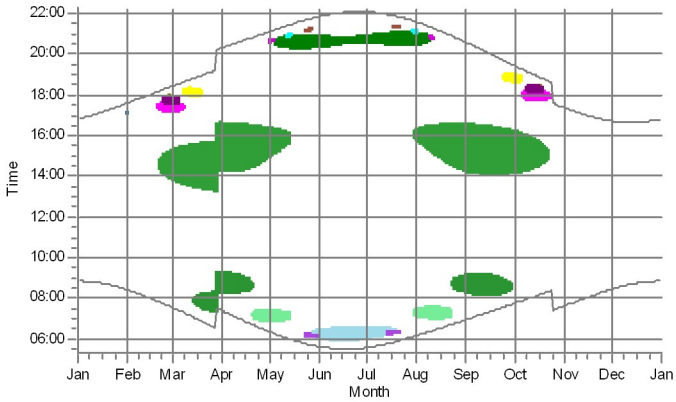
9: Willem van Rubroeckstraat 2, 9042 Gent



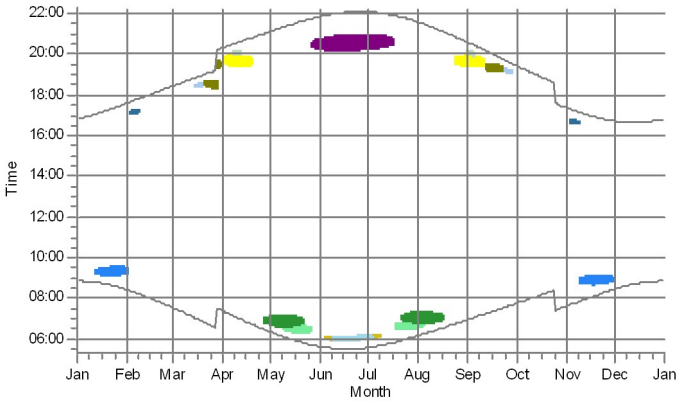
10: Willem van Rubroeckstraat 26, 9042 Gent



11: Arbedkaai 3, 9042 Gent



12: Terdonkkaai 8, 9042 Gent



WTGs

- KLZ_WT21: KLZ_WT21 Armasteel
- KLZ_WT22: KLZ_WT22 Magelaanstraat
- KLZ_WT23: KLZ_WT23 Stukwerkers
- KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)
- KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
- KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)
- KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)
- KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)
- KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)
- KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)
- SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)
- SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)
- SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)
- SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)
- SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)
- EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)
- EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)
- SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!
- SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!

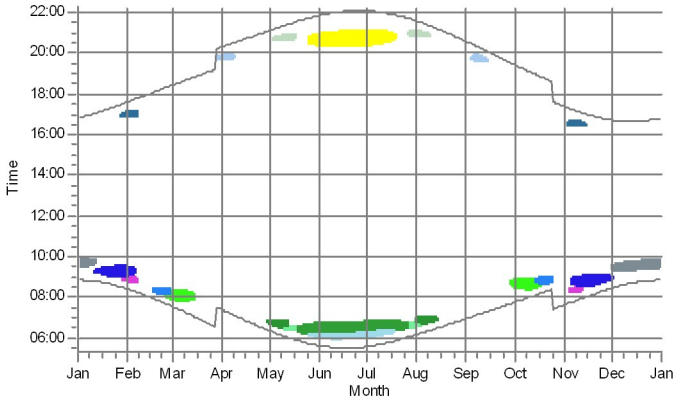
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

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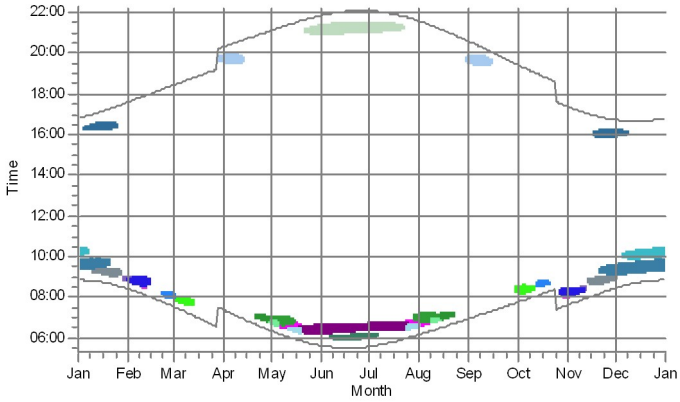
SHADOW - Calendar, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

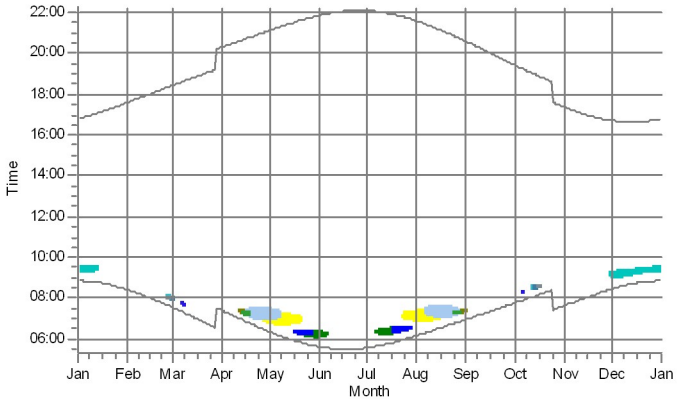
13: Doornzele Dries 107, 9940 Evergem



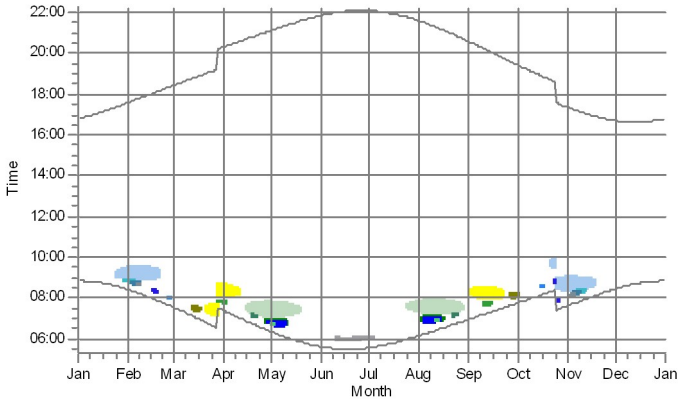
14: Abdijdreef 2, 9940 Evergem



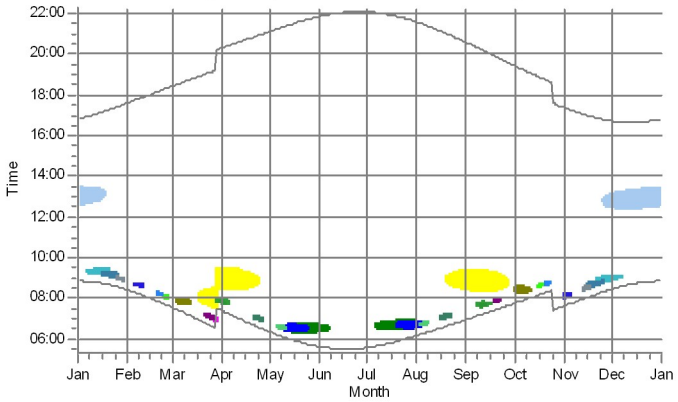
15: Hageland 14, 9940 Evergem



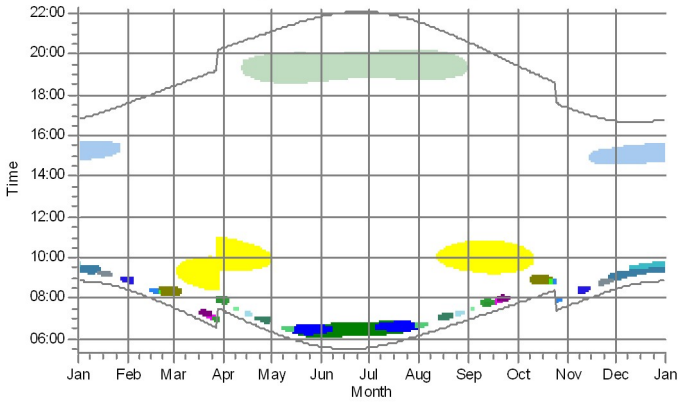
16: Molendreef 5, 9940 Evergem



17: Amerigo Vespuccistraat 2A, 9940 Evergem



18: Pachtgoederen 1, 9940 Evergem



WTGs

- KLZ_WT21: KLZ_WT21 Armasteel
- KLZ_WT22: KLZ_WT22 Magelaanstraat
- KLZ_WT23: KLZ_WT23 Stukwerkers
- KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)
- KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)
- KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)
- KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)
- KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)
- KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)
- MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)
- ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)
- CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)
- ATS_WT01: NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)
- NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)
- SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)
- SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)
- SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)
- SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)
- SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)
- MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)
- MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)
- RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)
- RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)
- RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)
- MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:27-16:01/34 16:48 14:26-15:14/48	08:24 17:35	07:32 09:04-10:34/90 18:25	07:23 17:59-18:52/53 07:53-08:17/24 20:17 10:09-10:57/48	06:20 06:44-08:09/85 21:06 17:25-19:16/111	05:36 06:07-06:39/32 17:38-19:14/96 21:51 20:06-20:56/50
2	08:50 15:27-16:01/34 16:49 14:27-15:14/47	08:23 17:36	07:30 09:03-10:34/91 18:26	07:21 17:56-18:54/58 07:52-08:16/24 20:19 10:12-10:54/42	06:18 06:42-08:08/86 21:08 17:25-19:16/111	05:36 06:09-06:39/30 17:40-19:14/94 21:52 20:06-20:57/51
3	08:49 15:28-16:02/34 16:50 14:28-15:13/45	08:21 17:38	07:28 09:03-10:34/91 18:28	07:19 17:54-18:57/63 07:52-08:15/23 20:20 10:14-10:50/36	06:16 06:41-08:08/87 21:09 17:25-19:16/111	05:35 06:09-06:38/29 17:40-19:14/94 21:53 20:06-20:57/51
4	08:49 15:28-16:02/34 16:51 14:28-15:13/45	08:19 17:40	07:26 09:03-10:35/92 18:30	07:17 17:51-18:59/68 07:53-08:14/21 20:22 10:17-10:46/29	06:15 06:39-08:06/87 21:11 17:26-19:16/110	05:34 06:09-06:39/29 17:40-19:13/93 21:54 20:05-20:57/52
5	08:49 15:28-16:03/35 16:52 14:29-15:13/44	08:18 17:42	07:24 09:01-10:34/93 18:32	07:14 17:49-19:01/72 07:54-08:13/19 20:24 10:23-10:40/17	06:13 06:38-06:55/17 17:25-19:16/111 21:13 20:30-20:41/11 06:56-08:05/69	05:33 06:10-06:39/29 17:41-19:14/93 21:55 20:06-20:58/52
6	08:49 15:28-16:03/35 16:54 14:29-15:13/44	08:16 09:40-10:00/20 17:44	07:21 09:01-10:34/93 18:33	07:12 17:46-19:01/75 20:25 07:55-08:10/15	06:11 06:39-06:55/16 17:25-19:16/111 06:57-07:26/29 21:14 20:27-20:43/16 07:27-08:05/38	05:33 06:10-06:39/29 17:41-19:13/92 21:56 20:05-20:58/53
7	08:48 15:29-16:04/35 16:55 14:30-15:14/44	08:15 09:36-10:05/29 17:45	07:19 09:01-10:34/93 18:35	07:10 17:45-19:03/78 07:57-08:07/10 20:27 07:51-07:54/3	06:09 06:39-06:54/15 17:26-19:16/110 06:57-07:25/28 21:16 20:26-20:46/20 07:28-08:03/35	05:32 06:10-06:39/29 17:42-19:14/92 21:56 20:06-20:59/53
8	08:48 15:29-16:04/35 16:56 14:30-15:13/43	08:13 09:33-10:09/36 17:47	07:17 09:01-10:34/93 18:37	07:08 17:43-19:05/82 20:29 07:44-08:01/17	06:08 06:39-06:53/14 17:26-19:16/110 06:57-07:24/27 21:17 20:24-20:47/23 07:28-08:01/33	05:32 06:11-06:40/29 17:42-19:13/91 21:57 20:05-20:59/54
9	08:47 15:30-16:05/35 16:58 14:31-15:14/43	08:11 09:30-10:12/42 17:49	07:15 09:01-10:34/93 18:39	07:05 17:41-19:06/85 20:30 07:41-08:04/23	06:06 06:31-06:35/4 20:23-20:48/25 07:30-08:00/30 21:19 06:41-06:52/11 17:27-19:16/109 06:58-07:23/25	05:31 06:11-06:39/28 17:43-19:14/91 21:58 20:06-21:00/54
10	08:47 15:29-16:06/37 16:59 14:32-15:14/42	08:09 09:28-10:14/46 17:51	07:13 09:00-10:32/92 18:40	07:03 17:40-19:07/87 20:32 07:38-08:06/28	06:04 06:29-06:37/8 20:22-20:49/27 07:31-07:58/27 21:21 06:42-06:49/7 17:27-19:16/109 06:59-07:22/23	05:31 06:11-06:40/29 17:44-19:14/90 21:59 20:06-21:00/54
11	08:46 15:30-16:06/36 17:00 14:32-15:14/42	08:08 09:25-10:16/51 17:53	07:10 09:00-10:32/92 18:42	07:01 17:39-19:08/89 20:33 07:36-08:08/32	06:03 06:28-06:39/11 17:28-19:16/108 07:00-07:21/21 21:22 20:22-20:50/28 07:33-07:57/24	05:31 06:12-06:40/28 17:45-19:14/89 22:00 20:06-21:01/55
12	08:46 15:30-16:06/36 17:02 14:34-15:14/40	08:06 09:23-10:18/55 17:54	07:08 09:00-10:32/92 18:44	06:59 17:37-19:08/91 20:35 07:33-08:08/35	06:01 06:26-06:39/13 17:27-19:16/109 07:01-07:19/18 21:24 20:21-20:50/29 07:34-07:55/21	05:30 06:11-06:40/29 17:44-19:14/90 22:00 20:06-21:00/54
13	08:45 15:31-16:07/36 17:03 14:35-15:14/39	08:04 09:21-10:20/59 17:56	07:06 09:00-10:31/91 18:45	06:57 17:35-19:09/94 20:37 07:32-08:09/37	05:59 06:25-06:40/15 17:28-19:16/108 07:03-07:17/14 21:25 20:21-20:51/30 07:37-07:53/16	05:30 06:12-06:40/28 17:45-19:14/89 22:01 20:06-21:01/55
14	08:44 15:31-16:07/36 17:05 14:35-15:14/39	08:02 09:19-10:22/63 17:58	07:04 08:59-10:30/91 18:47	06:55 17:34-19:10/96 20:38 07:30-08:10/40	05:58 06:23-06:40/17 17:28-19:15/107 07:05-07:14/9 21:27 20:20-20:51/31 07:41-07:48/7	05:30 06:12-06:40/28 17:45-19:14/89 22:02 20:06-21:01/55
15	08:44 15:32-16:08/36 17:06 14:36-15:14/38	08:00 09:18-10:23/65 18:00	07:02 08:59-10:29/90 18:49	06:52 17:33-19:11/98 20:40 07:29-08:11/42	05:56 06:22-06:41/19 17:29-19:16/107 21:28 20:20-20:51/31	05:30 06:12-06:40/28 17:46-19:14/88 22:02 20:06-21:02/56
16	08:43 15:32-16:08/36 17:08 14:37-15:13/36	07:58 09:16-10:24/68 18:02	06:59 09:00-10:29/89 18:50	06:50 17:32-19:12/100 20:42 07:28-08:12/44	05:55 06:21-06:42/21 17:30-19:16/106 21:30 20:20-20:52/32	05:30 06:13-06:41/28 17:46-19:14/88 22:03 20:06-21:02/56
17	08:42 15:32-16:08/36 17:09 14:39-15:13/34	07:56 09:15-10:26/71 18:03	06:57 08:59-10:27/88 18:52	06:48 17:31-19:12/101 20:43 07:27-08:12/45	05:53 06:19-06:42/23 17:29-19:15/106 21:31 20:19-20:52/33	05:29 06:13-06:41/28 17:47-19:15/88 22:03 20:07-21:02/55
18	08:41 15:33-16:08/35 17:11 14:40-15:13/33	07:55 09:14-10:27/73 18:05	06:55 08:59-10:26/87 18:54	06:46 17:31-19:13/102 20:45 07:26-08:13/47	05:52 06:18-06:42/24 17:30-19:15/105 21:33 20:17-20:52/35	05:29 06:13-06:41/28 17:47-19:15/88 22:03 20:07-21:02/55
19	08:40 15:34-16:09/35 17:12 14:42-15:12/30	07:53 09:12-10:28/76 18:07	06:53 09:00-10:25/85 18:55	06:44 17:30-19:13/103 07:10-07:19/9 20:47 07:26-08:13/47	05:51 06:17-06:42/25 17:31-19:15/104 21:34 20:15-20:52/37	05:29 06:13-06:41/28 17:47-19:15/88 22:04 20:07-21:03/56
20	08:39 15:35-16:09/34 17:14 14:43-15:11/28	07:51 09:11-10:29/78 18:09	06:50 09:00-10:24/84 18:57	06:42 17:29-19:14/105 07:06-07:22/16 20:48 07:25-08:13/48	05:49 06:16-06:43/27 17:32-19:16/104 21:35 20:14-20:53/39	05:30 06:13-06:41/28 17:47-19:15/88 22:04 20:07-21:03/56
21	08:38 15:34-16:08/34 17:16 14:44-15:09/25	07:49 09:10-10:30/80 18:11	06:48 09:00-10:22/82 18:59	06:40 17:29-19:14/105 07:04-07:24/20 20:50 07:25-08:13/48	05:48 06:15-06:43/28 17:31-19:15/104 21:37 20:12-20:52/40	05:30 06:13-06:41/28 17:47-19:15/88 22:04 20:07-21:03/56
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23	08:36 15:36-16:08/32 17:19 14:50-15:07/17	07:45 09:09-10:31/82 18:14	06:44 09:01-10:19/78 19:02 07:06-07:10/4	06:36 17:27-19:15/108 20:53 07:01-08:13/72	05:46 06:12-06:42/30 17:33-19:15/102 21:39 20:10-20:52/42	05:30 06:14-06:42/28 17:48-19:16/88 22:05 20:08-21:04/56
24	08:35 15:37-16:07/30 17:21 14:53-15:03/10	07:43 09:08-10:32/84 18:16	06:41 09:02-10:18/76 19:04 07:04-07:14/10	06:34 17:27-19:15/108 20:55 06:59-08:12/73	05:44 06:11-06:42/31 17:34-19:14/100 21:41 20:10-20:52/42	05:30 06:14-06:42/28 17:48-19:16/88 22:05 20:08-21:03/55
25	08:34 15:38-16:07/29 17:22	07:41 09:07-10:33/86 18:18	06:39 09:02-10:15/73 19:05 07:01-07:15/14	06:32 17:26-19:15/109 20:56 06:58-08:12/74	05:43 06:10-06:41/31 17:34-19:14/100 21:42 20:09-20:52/43	05:31 06:15-06:43/28 17:49-19:17/88 22:05 20:09-21:04/55
26	08:32 15:40-16:07/27 17:24	07:38 09:06-10:33/87 18:19	06:37 09:03-10:13/70 19:07 06:59-07:16/17	06:30 17:26-19:15/109 20:58 06:57-08:12/75	05:42 06:09-06:41/32 17:35-19:14/99 21:43 20:08-20:52/44	05:31 06:15-06:43/28 17:48-19:17/89 22:05 20:09-21:04/55
27	08:31 15:41-16:06/25 17:26	07:36 09:06-10:34/88 18:21	06:34 09:04-10:11/67 19:09 06:57-07:17/20	06:28 06:51-06:52/1 06:56-08:11/75 21:00 17:26-19:15/109	05:41 06:08-06:41/33 17:35-19:14/99 21:45 20:08-20:53/45	05:32 06:15-06:43/28 17:48-19:16/88 22:05 20:08-21:04/56
28	08:30 15:43-16:05/22 17:28	07:34 09:04-10:33/89 18:23	06:32 17:22-17:32/10 06:55-07:18/23 19:10 09:04-10:08/64	06:26 06:50-06:54/4 06:57-08:10/73 21:01 17:25-19:15/110	05:40 06:08-06:41/33 17:36-19:14/98 21:46 20:07-20:53/46	05:32 06:15-06:43/28 17:49-19:17/88 22:05 20:09-21:04/55
29	08:28 15:44-16:03/19 17:29		07:30 18:13-18:41/28 07:53-08:17/24 20:12 10:06-11:06/60	06:24 06:48-06:55/7 06:56-08:11/75 21:03 17:26-19:16/110	05:39 06:07-06:41/34 17:37-19:15/98 21:47 20:08-20:55/47	05:33 06:16-06:44/28 17:48-19:17/89 22:05 20:09-21:04/55
30	08:27 15:47-16:02/15 17:31		07:28 18:07-18:46/39 07:53-08:17/24 20:14 10:07-11:03/56	06:22 06:46-06:55/9 06:56-08:10/74 21:05 17:26-19:16/110	05:38 06:06-06:40/34 17:38-19:14/96 21:48 20:07-20:55/48	05:33 06:15-06:44/29 17:48-19:18/90 22:04 20:10-21:05/55
31	08:25 15:50-15:58/8 17:33		07:25 18:03-18:50/47 07:53-08:17/24 20:15 10:09-11:01/52		05:37 06:07-06:39/32 17:38-19:14/96 21:49 20:07-20:56/49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1855	1510	2851	4357	5669	5181

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: KLZ_WT21 - KLZ_WT21 Armasteel

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:16-06:44/28 17:49-19:18/89	06:09 06:37-06:49/12 17:38-19:26/108 07:11-07:30/19	06:57 17:38-19:07/89	07:44 09:39-11:10/91	07:37 08:58-09:44/46	08:26 15:12-15:48/36
	22:04 20:10-21:05/55	21:34 20:31-21:00/29 07:44-08:06/22	20:33 07:35-08:07/32	19:25	17:21	16:42 14:14-14:56/42
2	05:34 06:15-06:44/29 17:48-19:18/90	06:11 06:39-06:49/10 20:31-20:59/28 07:43-08:08/25	06:59 17:38-19:05/87	07:46 09:39-11:11/92	07:38 09:00-09:41/41	08:27 15:13-15:49/36
	22:04 20:10-21:04/54	21:32 06:55-06:58/3 17:38-19:27/109 07:10-07:32/22	20:31 07:36-08:04/28	19:23	17:19	16:41 14:15-14:57/42
3	05:35 06:16-06:44/28 17:48-19:19/91	06:12 06:40-06:47/7 20:33-20:59/26 07:41-08:10/29	07:00 17:39-19:04/85	07:48 09:38-11:10/92	07:40 09:02-09:37/35	08:29 15:13-15:48/35
	22:04 20:11-21:05/54	21:30 06:52-07:01/9 17:37-19:26/109 07:09-07:33/24	20:29 07:39-08:02/23	19:21	17:17	16:41 14:15-14:57/42
4	05:36 06:16-06:45/29 17:48-19:19/91	06:14 06:41-06:44/3 20:33-20:57/24 07:39-08:10/31	07:02 17:40-19:02/82	07:49 09:38-11:11/93	07:42 09:06-09:34/28	08:30 15:14-15:49/35
	22:03 20:11-21:05/54	21:29 06:51-07:03/12 17:36-19:26/110 07:08-07:33/25	20:27 07:41-07:58/17	19:19	17:16	16:40 14:15-14:58/43
5	05:37 06:17-06:45/28 17:48-19:19/91	06:15 06:49-07:03/14 17:36-19:26/110 07:07-07:34/27	07:03 17:42-19:00/78 07:54-08:04/10	07:51 09:38-11:11/93	07:43 09:11-09:29/18	08:31 15:14-15:49/35
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6	05:37 06:16-06:45/29 17:48-19:20/92	06:17 06:48-07:04/16 17:36-19:26/110 07:06-07:35/29	07:05 17:42-18:58/76	07:53 09:37-11:10/93	07:45	08:33 15:14-15:49/35
	22:02 20:11-21:05/54	21:25 20:36-20:55/19 07:37-08:13/36	20:22 07:51-08:06/15	19:14	17:12	16:39 14:15-14:59/44
7	05:38 06:16-06:45/29 17:48-19:20/92	06:18 06:48-07:05/17 17:36-19:26/110	07:06 17:44-18:56/72 07:49-08:08/19	07:54 09:37-11:10/93	07:47	08:34 15:15-15:50/35
	22:02 20:12-21:05/53	21:24 20:38-20:53/15 07:06-08:14/68	20:20 10:18-10:34/16	19:12	17:11	16:39 14:16-15:00/44
8	05:39 06:17-06:46/29 17:47-19:21/94	06:20 06:47-08:15/88 17:35-19:26/111	07:08 17:45-18:53/68 07:47-08:08/21	07:56 09:37-11:10/93	07:49	08:35 15:16-15:50/34
	22:01 20:13-21:05/52	21:22 20:40-20:50/10	20:18 10:12-10:40/28	19:10	17:09	16:39 14:16-15:01/45
9	05:40 06:17-06:46/29 17:47-19:21/94	06:21 06:49-08:16/87	07:10 17:48-18:51/63 07:47-08:09/22	07:57 09:37-11:09/92	07:50	08:36 15:16-15:50/34
	22:00 20:13-21:05/52	21:20 17:34-19:25/111	20:15 10:09-10:44/35	19:08	17:07	16:38 14:16-15:01/45
10	05:41 06:16-06:46/30 17:47-19:22/95	06:23 06:50-08:16/86	07:11 17:49-18:48/59 07:45-08:09/24	07:59 09:37-11:09/92	07:52	08:37 15:16-15:50/34
	22:00 20:14-21:05/51	21:18 17:34-19:25/111	20:13 10:05-10:47/42	19:05	17:06	16:38 14:16-15:03/47
11	05:42 06:16-06:47/31 17:47-19:22/95	06:24 06:52-08:17/85	07:13 17:52-18:45/53 07:45-08:09/24	08:01 09:37-11:08/91	07:54 15:22-15:31/9	08:38 15:17-15:51/34
	21:59 20:14-21:04/50	21:16 17:34-19:24/110	20:11 10:03-10:50/47	19:03	17:04	16:38 14:16-15:04/48
12	05:43 06:15-06:47/32 17:47-19:22/95	06:26 06:53-08:18/85	07:14 17:54-18:41/47 07:44-08:09/25	08:02 09:38-11:08/90	07:56 15:18-15:33/15	08:39 15:17-15:51/34
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	21:35 20:31-21:01/30 07:47-08:04/17	20:35 07:33-08:08/35		17:23		16:47 14:25-15:14/49
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	5355	5551	2970	2520	1152	2520

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: KLZ_WT22 - KLZ_WT22 Magelaanstraat

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:53-16:10/17 14:44-15:07/23 10:34-11:26/52	08:24 16:32-16:56/24	07:32 17:27-17:50/23	07:23 08:08-10:54/166	06:20 06:49-07:07/18	05:36 20:24-20:53/29
	16:48 15:35-15:47/12 13:03-13:52/49 09:54-10:30/36	17:35 10:39-11:41/62	18:25	20:17	21:06	21:51
2	08:50 15:53-16:11/18 14:45-15:07/22 10:34-11:27/53	08:23 16:31-16:56/25	07:30 17:27-17:50/23	07:21 08:07-10:53/166	06:18 06:47-07:08/21	05:36 20:25-20:54/29
	16:49 15:36-15:47/11 13:04-13:52/48 09:54-10:31/37	17:36 10:39-11:41/62	18:27	20:19 19:39-19:46/7	21:08	21:52
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	16:50 15:38-15:47/9 13:05-13:53/48 09:55-10:32/37	17:38 10:39-11:40/61	18:28	20:20 19:36-19:49/13	21:09	21:53
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30	08:27 16:32-16:55/23 10:17-10:25/8		07:28 08:08-10:55/167	06:22 06:50-07:07/17	05:38 20:27-20:51/24	05:33 20:26-21:04/38
	17:31 10:38-11:41/63		20:14	21:05	21:48	22:04
31	08:26 16:31-16:55/24		07:26 08:08-10:55/167		05:37 20:25-20:52/27	
	17:33 10:38-11:41/63		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	4178	1259	3097	3551	540	1121

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: KLZ_WT22 - KLZ_WT22 Magelaanstraat

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34	20:27-21:04/37	06:09	06:55-07:19/24	06:57	09:24-10:43/79 19:27-19:53/26	07:44	09:24-10:29/65	07:37	16:03-16:26/23	08:26	15:41-15:54/13 09:39-11:15/96
	22:04		21:34		20:33	08:28-09:21/53	19:25	18:39-18:57/18	17:21	10:14-11:05/51	16:42	12:53-13:34/41
2	05:35	20:26-21:04/38	06:11	06:55-07:20/25	06:59	09:23-10:44/81 08:13-08:23/10	07:46	09:26-10:27/61	07:38	16:03-16:27/24	08:27	15:41-15:56/15 10:18-11:15/57
	22:04		21:32		20:31	08:27-09:21/54 19:26-19:52/26	19:23	18:39-18:56/17	17:19	10:13-11:06/53	16:42	12:53-13:36/43 09:40-10:17/37
3	05:35	20:27-21:04/37	06:12	06:55-07:20/25	07:00	09:23-10:45/82 08:10-08:26/16	07:48	09:27-10:25/58	07:40	16:01-16:26/25	08:29	15:41-15:56/15 12:52-13:36/44 09:40-10:17/37
	22:04		21:30		20:29	08:27-09:21/54 19:26-19:52/26	19:21	18:39-18:54/15	17:17	10:13-11:08/55	16:41	14:39-14:46/7 10:18-11:15/57
4	05:36	20:28-21:04/36	06:14	06:55-07:21/26	07:02	08:08-10:45/157	07:49	09:29-10:23/54	07:42	16:01-16:27/26	08:30	15:41-15:57/16 12:53-13:38/45 09:41-10:18/37
	22:03		21:29		20:27	19:25-19:51/26	19:19	18:40-18:52/12	17:16	10:11-11:08/57	16:40	14:38-14:49/11 10:19-11:16/57
5	05:37	20:28-21:03/35	06:15	06:55-07:20/25	07:03	08:06-10:46/160	07:51	09:32-10:21/49 18:09-18:20/11	07:44	16:01-16:27/26	08:31	15:41-15:58/17 12:53-13:38/45 09:41-10:18/37
	22:03		21:27		20:24	19:26-19:50/24	19:16	18:42-18:50/8	17:14	10:11-11:08/57	16:40	14:36-14:51/15 10:20-11:15/55
6	05:38	20:28-21:03/35	06:17	06:54-07:20/26	07:05	08:04-10:45/161	07:53	09:33-10:17/44	07:45	16:01-16:27/26	08:33	15:41-15:58/17 12:52-13:39/47 09:41-10:18/37
	22:02		21:25		20:22	19:26-19:49/23	19:14	18:06-18:21/15	17:12	10:10-11:09/59	16:40	14:35-14:52/17 10:20-11:15/55
7	05:38	20:29-21:03/34	06:18	06:55-07:20/25	07:07	08:03-10:46/163	07:54	09:36-10:14/38	07:47	16:01-16:27/26	08:34	15:42-15:59/17 14:35-14:54/19 10:21-11:16/55
	22:02		21:24		20:20	19:27-19:48/21	19:12	18:04-18:23/19	17:11	10:10-11:10/60	16:39	15:28-15:32/4 12:53-13:40/47 09:42-10:19/37
8	05:39	20:30-21:03/33	06:20	06:55-07:19/24	07:08	08:02-10:46/164	07:56	09:40-10:11/31	07:49	16:01-16:27/26	08:35	15:42-15:59/17 14:35-14:54/19 10:22-11:16/54
	22:01		21:22		20:18	19:28-19:45/17	19:10	18:03-18:24/21	17:09	10:10-11:11/61	16:39	15:27-15:34/7 12:53-13:40/47 09:43-10:19/36
9	05:40	20:31-21:02/31	06:21	06:56-07:19/23	07:10	08:01-10:47/166	07:57	09:44-10:05/21	07:50	16:02-16:27/25	08:36	15:42-16:00/18 14:34-14:55/21 10:23-11:16/53
	22:00		21:20		20:15	19:30-19:44/14	19:08	18:02-18:23/21	17:07	10:10-11:11/61	16:39	15:26-15:35/9 12:53-13:41/48 09:43-10:20/37
10	05:41	20:32-21:02/30	06:23	06:56-07:18/22	07:11	08:00-10:46/166	07:59	18:01-18:24/23	07:52	16:03-16:27/24	08:37	15:42-16:00/18 14:34-14:56/22 10:23-11:16/53
	22:00		21:18		20:13	19:32-19:40/8	19:05		17:06	10:10-11:12/62	16:38	15:26-15:36/10 12:53-13:41/48 09:43-10:20/37
11	05:42	20:33-21:01/28	06:24	06:57-07:17/20	07:13	08:00-10:47/167	08:01	18:01-18:24/23	07:54	16:03-16:27/24	08:38	15:43-16:00/17 14:34-14:57/23 10:24-11:16/52
	21:59		21:16		20:11		19:03		17:04	10:10-11:13/63	16:38	15:25-15:37/12 12:53-13:42/49 09:44-10:20/36
12	05:43	20:33-21:01/28	06:26	06:57-07:16/19	07:14	07:59-10:46/167	08:02	18:00-18:23/23	07:56	16:03-16:25/22 09:48-09:57/9	08:39	15:43-16:01/18 14:34-14:58/24 10:24-11:16/52
	21:58		21:14		20:09		19:01		17:03	10:09-11:12/63	16:38	15:25-15:38/13 12:53-13:42/49 09:44-10:20/36
13	05:44	20:34-21:00/26	06:27	10:00-10:03/3	07:16	07:59-10:46/167	08:04	18:00-18:23/23	07:57	16:04-16:25/21 09:45-10:00/15	08:40	15:44-16:01/17 14:34-14:58/24 10:25-11:16/51
	21:57		21:13	06:59-07:15/16	20:06		18:59		17:01	10:09-11:13/64	16:38	15:25-15:39/14 12:54-13:43/49 09:45-10:21/36
14	05:45	20:36-20:59/23	06:29	09:53-10:12/19	07:18	07:59-10:45/166	08:06	18:00-18:23/23	07:59	16:05-16:24/19 09:43-10:03/20	08:41	15:44-16:02/18 14:34-14:59/25 10:26-11:17/51
	21:56		21:11	07:01-07:12/11	20:04		18:57		17:00	10:09-11:13/64	16:38	15:25-15:40/15 12:54-13:44/50 09:45-10:21/36
15	05:47	20:37-20:58/21	06:30	09:48-10:16/28	07:19	09:18-10:46/88	08:07	18:01-18:22/21	08:01	16:07-16:23/16 09:42-10:05/23	08:42	15:45-16:02/17 14:35-15:00/25 10:27-11:17/50
	21:56		21:09	07:04-07:07/3	20:02	07:59-09:17/78	18:55		16:59	10:09-11:13/64	16:38	15:26-15:40/14 12:55-13:44/49 09:46-10:22/36
16	05:48	20:39-20:56/17	06:32	09:46-10:19/33	07:21	09:17-10:45/88	08:09	18:01-18:20/19	08:02	16:09-16:22/13 09:41-10:06/25	08:43	15:45-16:03/18 14:35-15:01/26 10:27-11:17/50
	21:55		21:07		20:00	08:00-09:15/75	18:53		16:57	10:10-11:14/64	16:38	15:26-15:41/15 12:55-13:45/50 09:47-10:22/35
17	05:49	20:40-20:54/14	06:34	09:43-10:22/39	07:22	09:17-10:45/88	08:11	18:02-18:19/17	08:04	16:11-16:20/9 09:40-10:08/28	08:44	15:46-16:03/17 14:36-15:02/26 10:28-11:18/50
	21:54		21:05		19:57	08:00-09:14/74	18:50		16:56	10:10-11:14/64	16:39	15:27-15:42/15 12:56-13:46/50 09:47-10:23/36
18	05:50	20:44-20:51/7	06:35	09:41-10:24/43	07:24	09:18-10:44/86	08:12	18:03-18:17/14	08:06	10:11-11:14/63	08:45	15:46-16:03/17 14:35-15:01/26 10:28-11:18/50
	21:52		21:03		19:55	08:01-09:14/73	18:48		16:55	09:40-10:09/29	16:39	15:26-15:42/16 12:55-13:46/51 09:47-10:22/35
19	05:51		06:37	09:39-10:26/47	07:25	09:17-10:43/86 08:02-08:24/22	08:14	18:06-18:15/9	08:07	10:10-11:14/64	08:45	15:47-16:04/17 14:36-15:02/26 10:29-11:18/49
	21:51		21:01		19:53	08:26-09:12/46	18:46		16:53	09:38-10:09/31	16:39	15:27-15:43/16 12:56-13:46/50 09:48-10:23/35
20	05:53		06:38	09:38-10:28/50	07:27	09:18-10:43/85 08:03-08:22/19	08:16		08:09	09:38-11:14/96	08:46	15:48-16:05/17 14:37-15:03/26 10:30-11:19/49
	21:50		20:59	08:50-09:03/13	19:50	08:28-09:10/42	18:44		16:52		16:39	15:28-15:44/16 12:57-13:47/50 09:49-10:24/35
21	05:54		06:40	09:36-10:30/54	07:29	09:18-10:42/84 08:05-08:19/14	08:18		08:11	13:04-13:19/15	08:47	15:47-16:05/18 14:37-15:03/26 10:30-11:19/49
	21:49		20:57	08:45-09:06/21	19:48	08:28-09:08/40	18:42		16:51	09:38-11:15/97	16:40	15:28-15:44/16 12:57-13:47/50 09:49-10:24/35
22	05:55		06:41	09:35-10:32/57	07:30	09:18-10:41/83 08:10-08:14/4	08:19		08:12	13:01-13:22/21	08:47	15:48-16:06/18 14:38-15:04/26 10:31-11:20/49
	21:48		20:55	08:43-09:09/26	19:46	08:30-09:06/36	18:40		16:50	09:38-11:15/97	16:40	15:29-15:45/16 12:58-13:48/50 09:50-10:25/35
23	05:56	07:06-07:08/2	06:43	09:33-10:33/60	07:32	09:18-10:40/82	08:21		08:14	12:59-13:24/25	08:48	15:48-16:06/18 14:38-15:04/26 10:31-11:20/49
	21:47		20:53	08:40-09:11/31	19:44	08:31-09:03/32	18:38		16:49	09:37-11:14/97	16:41	15:29-15:45/16 12:58-13:48/50 09:50-10:25/35
24	05:58	07:03-07:12/9	06:45	09:32-10:35/63 19:38-19:47/9	07:33	09:19-10:39/80 18:50-18:52/2	08:23	11:32-11:45/13	08:16	12:58-13:26/28	08:48	15:49-16:06/17 14:38-15:04/26 10:31-11:20/49
	21:45		20:50	08:39-09:13/34	19:41	08:34-09:01/27	18:36		16:48	09:38-11:15/97	16:41	15:29-15:45/16 12:58-13:48/50 09:50-10:25/35
25	05:59	07:01-07:14/13	06:46	09:30-10:36/66 19:35-19:49/14	07:35	09:20-10:38/78 18:45-18:55/10	07:24	10:27-10:50/23	08:17	12:57-13:28/31	08:48	15:50-16:07/17 14:39-15:05/26 10:32-11:22/50
	21:44		20:48	08:36-09:14/38	19:39	08:37-08:58/21	17:34		16:47	09:38-11:15/97	16:42	15:30-15:46/16 12:59-13:49/50 09:51-10:26/35
26	06:01	06:59-07:15/16	06:48	09:30-10:38/68 19:33-19:51/18	07:36	09:20-10:37/77 18:43-18:57/14	07:26	10:24-10:54/30	08:19	12:55-13:29/34	08:49	15:50-16:07/17 14:39-15:05/26 10:32-11:22/50
	21:43		20:46	08:35-09:16/41	19:37	08:42-08:51/9	17:32		16:46	09:38-11:14/96	16:43	15:31-15:46/15 13:00-13:50/50 09:51-10:27/36
27	06:02	06:59-07:17/18	06:49	09:28-10:38/70 19:31-19:51/20	07:38	09:21-10:36/75	07:28	10:21-10:56/35	08:20	15:45-15:48/3 09:38-11:15/97	08:49	15:50-16:08/18 14:40-15:06/26 10:32-11:22/50
	21:41		20:44	08:33-09:17/44	19:34	18:42-18:58/16	17:30		16:45	12:55-13:30/35	16:43	15:31-15:46/15 13:00-13:50/50 09:52-10:27/35
28	06:03	06:58-07:17/19	06:51	09:28-10:40/72 19:30-19:52/22	07:40	09:21-10:34/73	07:30	16:10-16:19/9	08:22	15:43-15:51/8 09:39-11:15/96	08:49	15:51-16:08/17 14:40-15:06/26 10:32-11:23/51
	21:40		20:42	08:33-09:18/45	19:32	18:40-18:58/18	17:28	10:19-10:58/39	16:44	12:54-13:32/38	16:44	15:32-15:46/14 13:00-13:50/50 09:52-10:27/35
29	06:05	06:57-07:18/21	06:52	09:26-10:40/74 19:28-19:52/24	07:41	09:22-10:33/71	07:31	16:07-16:22/15	08:23	15:42-15:52/10 09:38-11:15/97	08:49	15:51-16:08/17 14:41-15:06/25 10:33-11:23/50
	21:38		20:40	08:31-09:18/47	19:30	18:40-18:58/18	17:27	10:17-11:00/43	16:44	12:53-13:33/40	16:45	15:32-15:47/15 13:01-13:50/49 09:52-10:28/36
30	06:06	06:57-07:19/22	06:54	09:26-10:42/76 19:28-19:53/25	07:43	09:24-10:31/67	07:33	16:05-16:23/18	08:25	15:42-15:54/12 09:39-11:15/96	08:50	15:51-16:09/18 14:42-15:06/24 10:33-11:24/51
	21:37		20:38	08:30-09:20/50	19:28	18:39-18:57/18	17:25	10:16-11:02/46	16:43	12:54-13:34/40	16:46	15:33-15:47/14 13:02-13:51/49 09:53-10:28/35
31	06:08	06:56-07:19/23	06:56	09:24-10:42/78 19:27-19:53/26			07:35	16:04-16:25/21			08:50	15:52-16:09/17 14:43-15:06/23 10:33-11:25/52
	21:35		20:35	08:29-09:20/51			17:23	10:15-11:04/49			16:47	15:34-15:47/13 13:02-13:51/49 09:53-10:29/36
Potential sun hours	498		451		380		333		269		248	
Sum of minutes with flicker		653		1913		4443		1114		3107		5753

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 12:35-14:01/86 09:32-09:41/9	08:24 13:12-14:07/55 09:37-09:56/19	07:32	07:23	06:20 06:44-07:27/43	05:36 06:20-06:34/14
	16:48 10:49-11:38/49	17:35 10:50-11:58/68	18:25	20:17	21:06	21:50
2	08:49 12:36-14:01/85 09:32-09:42/10	08:22 13:13-14:06/53 09:38-09:54/16	07:30	07:21 08:05-08:17/12	06:18 06:42-07:27/45	05:36 06:22-06:35/13
	16:49 10:49-11:39/50	17:36 10:49-11:58/69	18:26	20:19	21:08	21:52
3	08:49 12:37-14:02/85 09:32-09:44/12	08:21 13:14-14:05/51 09:40-09:51/11	07:28	07:19 08:02-08:21/19	06:16 06:41-07:27/46	05:35 06:22-06:34/12
	16:50 10:50-11:40/50	17:38 10:49-11:58/69	18:28	20:20	21:09	21:53
4	08:49 12:37-14:02/85 09:31-09:45/14	08:19 13:16-14:05/49	07:26	07:16 07:59-08:23/24	06:15 06:39-07:26/47	05:34 06:23-06:33/10
	16:51 10:49-11:41/52	17:40 10:50-11:58/68	18:30	20:22	21:11	21:54
5	08:49 12:38-14:03/85 09:31-09:46/15	08:18 13:17-14:03/46	07:24	07:14 07:57-08:25/28	06:13 06:37-07:25/48	05:33 06:24-06:32/8
	16:52 10:49-11:42/53	17:42 10:50-11:58/68	18:32	20:24 07:37-07:44/7	21:13	21:55
6	08:49 12:39-14:03/84 09:30-09:47/17	08:16 13:19-14:02/43	07:21	07:12 07:54-08:25/31	06:11 06:38-07:25/47	05:33 06:25-06:31/6
	16:54 10:49-11:42/53	17:44 10:50-11:57/67	18:33	20:25 07:34-07:45/11	21:14	21:56
7	08:48 12:40-14:04/84 09:30-09:48/18	08:14 13:21-14:00/39	07:19	07:10 07:53-08:26/33	06:09 06:38-06:49/11	05:32 06:28-06:29/1
	16:55 10:49-11:43/54	17:45 10:51-11:57/66	18:35	20:27 07:32-07:46/14	21:16 06:50-07:23/33	21:56
8	08:48 12:41-14:04/83 09:29-09:49/20	08:13 13:24-13:58/34	07:17	07:08 07:52-08:27/35	06:08 06:32-06:35/3 06:50-07:21/31	05:32
	16:56 10:49-11:44/55	17:47 10:52-11:57/65	18:37	20:29 07:30-07:46/16	21:17 06:39-06:47/8	21:57
9	08:47 12:43-14:05/82 09:29-09:51/22	08:11 13:27-13:56/29	07:15	07:05 07:51-08:28/37	06:06 06:31-06:37/6 07:07-07:20/13	05:31
	16:57 10:49-11:45/56	17:49 10:52-11:56/64	18:38	20:30 07:29-07:47/18	21:19 06:42-06:46/4 06:52-07:05/13	21:58
10	08:47 12:44-14:05/81 09:29-09:51/22	08:09 13:31-13:52/21	07:13	07:03 07:50-08:28/38	06:04 06:29-06:38/9 06:53-07:02/9	05:31
	16:59 10:49-11:46/57	17:51 10:53-11:56/63	18:40	20:32 07:29-07:47/18	21:21 07:09-07:17/8	21:59
11	08:46 12:45-14:06/81 09:28-09:52/24	08:08 10:53-11:55/62	07:10	07:01 07:49-08:28/39	06:03 06:28-06:39/11	05:31
	17:00 10:49-11:46/57	17:53	18:42	20:33 07:29-07:46/17	21:22 06:56-07:00/4	22:00
12	08:46 12:47-14:06/79 09:29-09:54/25	08:06 10:54-11:54/60	07:08	06:59 07:48-08:28/40	06:01 06:26-06:39/13	05:30
	17:02 10:49-11:48/59	17:54	18:44	20:35 07:28-07:45/17	21:24	22:00
13	08:45 12:49-14:07/78 09:29-09:54/25	08:04 10:54-11:53/59	07:06	06:57 07:47-08:28/41	05:59 06:25-06:40/15	05:30
	17:03 10:49-11:49/60	17:56	18:45	20:37 07:29-07:44/15	21:25	22:01
14	08:44 12:51-14:07/76 09:29-09:55/26	08:02 10:55-11:51/56	07:04	06:55 07:47-08:28/41	05:58 06:23-06:40/17	05:30
	17:05 10:49-11:49/60	17:58	18:47	20:38 07:30-07:42/12	21:27	22:01
15	08:44 12:54-14:08/74 09:29-09:56/27	08:00 10:56-11:50/54	07:02	06:52 07:47-08:27/40	05:56 06:22-06:40/18	05:30
	17:06 10:49-11:50/61	18:00	18:49	20:40 07:31-07:40/9	21:28	22:02
16	08:43 13:02-14:08/66 09:29-09:56/27	07:58 10:57-11:49/52	06:59	06:50 07:47-08:27/40	05:55 06:21-06:40/19	05:29
	17:08 10:49-11:51/62	18:02	18:50	20:42	21:30	22:03
17	08:42 13:02-14:08/66 09:29-09:57/28	07:56 10:59-11:47/48	06:57	06:48 07:46-08:27/41	05:53 06:19-06:39/20	05:29
	17:09 10:49-11:51/62	18:03	18:52	20:43	21:31	22:03
18	08:41 13:03-14:09/66 09:29-09:57/28	07:55 11:00-11:45/45	06:55	06:46 07:47-08:26/39	05:52 06:18-06:39/21	05:29
	17:11 10:49-11:52/63	18:05	18:54	20:45	21:33	22:03
19	08:40 13:03-14:09/66 09:29-09:58/29	07:53 11:02-11:42/40	06:53	06:44 07:47-08:25/38	05:51 06:17-06:39/22	05:29
	17:12 10:49-11:53/64	18:07	18:55	20:47	21:34	22:04
20	08:39 13:04-14:09/65 09:29-09:59/30	07:51 11:04-11:40/36	06:50	06:42 07:47-08:25/38	05:49 06:16-06:39/23	05:30
	17:14 10:49-11:54/65	18:09	18:57	20:48 07:12-07:21/9	21:35	22:04
21	08:38 13:04-14:09/65 09:29-09:58/29	07:49 11:07-11:36/29	06:48	06:40 07:47-08:24/37	05:48 06:15-06:38/23	05:30
	17:16 10:48-11:54/66	18:11	18:59	20:50 07:09-07:24/15	21:37	22:04
22	08:37 13:04-14:09/65 09:29-09:59/30	07:47 11:11-11:31/20	06:46	06:38 07:48-08:23/35	05:47 06:14-06:37/23	05:30
	17:17 10:48-11:54/66	18:12	19:00	20:52 07:07-07:25/18	21:38	22:05
23	08:36 13:05-14:09/64 09:30-09:59/29	07:45	06:43	06:36 07:48-08:21/33	05:46 06:12-06:36/24	05:30
	17:19 10:48-11:55/67	18:14	19:02	20:53 07:05-07:26/21	21:39	22:05
24	08:35 13:05-14:09/64 09:31-10:00/29	07:43	06:41	06:34 07:49-08:20/31	05:44 06:12-06:36/24	05:30
	17:21 10:48-11:55/67	18:16	19:04	20:55 07:04-07:27/23	21:41	22:05
25	08:34 13:06-14:09/63 09:30-09:59/29	07:40	06:39	06:32 07:50-08:18/28	05:43 06:12-06:36/24	05:31
	17:22 10:48-11:56/68	18:18	19:05	20:56 06:55-07:27/32	21:42	22:05
26	08:32 13:07-14:09/62 09:31-10:00/29	07:38	06:37	06:30 07:51-08:16/25	05:42 06:13-06:36/23	05:31
	17:24 10:49-11:57/68	18:19	19:07	20:58 06:53-07:28/35	21:43	22:05
27	08:31 13:07-14:09/62 09:31-09:59/28	07:36	06:34	06:28 07:52-08:14/22	05:41 06:15-06:36/21	05:32
	17:26 10:48-11:57/69	18:21	19:09	21:00 06:51-07:28/37	21:45	22:05
28	08:30 13:08-14:09/61 09:32-09:59/27	07:34	06:32	06:26 07:54-08:12/18	05:40 06:18-06:36/18	05:32
	17:28 10:49-11:57/68	18:23	19:10	21:01 06:51-07:28/37	21:46	22:05
29	08:28 13:09-14:08/59 09:33-09:58/25		07:30	06:24 06:48-06:49/1 06:50-07:28/38	05:39 06:19-06:36/17	05:33
	17:29 10:48-11:57/69		20:12	21:03 07:58-08:09/11	21:47	22:05
30	08:27 13:10-14:08/58 09:34-09:58/24		07:28	06:22 06:46-07:28/42	05:38 06:20-06:36/16	05:33
	17:31 10:49-11:58/69		20:14	21:05	21:48	22:04
31	08:25 13:11-14:07/56 09:35-09:57/22		07:25		05:37 06:20-06:35/15	
	17:33 10:49-11:58/69		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	4853	1694	0	1356	835	64

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: KLZ_WT23 - KLZ_WT23 Stukwerkers

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 22:04	06:09 06:37-06:49/12 21:34	06:57 07:48-08:27/39 20:33 07:28-07:45/17	07:44 19:25	07:36 13:00-13:22/22 17:21 10:22-11:25/63	08:26 12:27-13:48/81 09:11-09:34/23 16:42 10:31-11:29/58
2	05:34 22:04	06:10 06:39-06:49/10 07:05-07:12/7 21:32 07:23-07:25/2	06:59 07:48-08:26/38 20:31 07:27-07:45/18	07:46 19:23	07:38 12:56-13:26/30 17:19 10:22-11:26/64	08:27 12:27-13:48/81 09:12-09:34/22 16:41 10:32-11:29/57
3	05:35 22:03	06:12 06:40-06:48/8 07:02-07:14/12 21:30 07:18-07:29/11	07:00 07:49-08:26/37 20:29 07:27-07:45/18	07:48 19:21	07:40 12:52-13:28/36 17:17 10:21-11:26/65	08:29 12:26-13:48/82 09:12-09:34/22 16:41 10:32-11:28/56
4	05:36 22:03	06:13 06:41-06:46/5 07:16-07:30/14 21:29 06:51-06:57/6 07:01-07:15/14	07:02 07:49-08:24/35 20:27 07:27-07:43/16	07:49 19:19	07:42 12:50-13:30/40 17:16 10:20-11:27/67	08:30 12:26-13:49/83 09:14-09:34/20 16:40 10:34-11:29/55
5	05:37 22:03	06:15 06:43-06:45/2 07:00-07:32/32 21:27 06:49-06:58/9	07:03 07:50-08:23/33 20:24 07:29-07:43/14	07:51 19:16	07:43 12:48-13:32/44 17:14 10:20-11:27/67	08:31 12:25-13:49/84 09:15-09:34/19 16:40 10:34-11:29/55
6	05:37 06:32-06:37/5 22:02	06:16 06:48-07:33/45 21:25	07:05 07:50-08:21/31 20:22 07:30-07:41/11	07:52 19:14	07:45 12:47-13:33/46 17:12 10:20-11:28/68	08:33 12:25-13:49/84 09:16-09:33/17 16:39 10:35-11:28/53
7	05:38 06:31-06:38/7 22:02	06:18 06:47-07:34/47 21:23	07:06 07:52-08:20/28 20:20 07:32-07:40/8	07:54 19:12	07:47 12:46-13:35/49 09:16-09:17/1 17:11 10:20-11:28/68	08:34 12:25-13:50/85 09:18-09:33/15 16:39 10:36-11:29/53
8	05:39 06:30-06:40/10 22:01	06:20 06:47-07:35/48 21:22	07:08 07:53-08:17/24 20:18 07:33-07:35/2	07:56 19:10	07:49 12:45-13:36/51 09:11-09:23/12 17:09 10:20-11:28/68	08:35 12:25-13:50/85 09:19-09:33/14 16:39 10:37-11:29/52
9	05:40 06:30-06:41/11 22:00	06:21 06:49-07:36/47 21:20	07:10 07:55-08:15/20 20:15	07:57 19:08	07:50 12:44-13:37/53 09:09-09:25/16 17:07 10:20-11:29/69	08:36 12:25-13:50/85 09:20-09:32/12 16:38 10:38-11:29/51
10	05:41 06:29-06:42/13 22:00	06:23 06:50-07:36/46 21:18	07:11 07:58-08:11/13 20:13	07:59 19:05	07:52 12:43-13:38/55 09:08-09:27/19 17:06 10:20-11:29/69	08:37 12:25-13:51/86 09:21-09:31/10 16:38 10:38-11:28/50
11	05:42 06:29-06:42/13 21:59	06:24 06:52-07:35/43 21:16	07:13 20:11	08:01 19:03	07:54 12:42-13:39/57 09:07-09:29/22 17:04 10:21-11:29/68	08:38 12:25-13:51/86 09:22-09:31/9 16:38 10:39-11:28/49
12	05:43 06:29-06:43/14 21:58	06:26 06:53-07:36/43 21:14	07:14 20:09	08:02 19:01	07:56 12:41-13:39/58 09:05-09:29/24 17:03 10:20-11:29/69	08:39 12:25-13:51/86 09:24-09:30/6 16:38 10:40-11:28/48
13	05:44 06:28-06:44/16 21:57	06:27 06:54-07:36/42 21:12	07:16 20:06	08:04 18:59	07:57 12:41-13:40/59 09:05-09:30/25 17:01 10:20-11:29/69	08:40 12:25-13:51/86 16:38 10:40-11:29/49
14	05:45 06:28-06:44/16 21:56	06:29 08:05-08:18/13 21:11 06:58-07:36/38	07:17 20:04	08:06 18:57	07:59 12:40-13:41/61 09:04-09:31/27 17:00 10:21-11:29/68	08:41 12:25-13:52/87 16:38 10:41-11:29/48
15	05:46 06:28-06:45/17 21:55	06:30 08:01-08:20/19 21:09 06:58-07:35/37	07:19 20:02	08:07 18:55	08:01 12:40-13:42/62 09:04-09:32/28 16:59 10:21-11:29/68	08:42 12:26-13:52/86 16:38 10:42-11:29/47
16	05:48 06:27-06:45/18 21:54	06:32 07:59-08:22/23 21:07 06:59-07:35/36	07:21 19:59	08:09 18:52	08:02 12:40-13:42/62 09:04-09:32/28 16:57 10:22-11:30/68	08:43 12:26-13:53/87 16:38 10:43-11:30/47
17	05:49 06:23-06:46/23 21:53	06:33 07:57-08:23/26 21:05 07:00-07:34/34	07:22 19:57	08:11 18:50	08:04 12:40-13:43/63 09:04-09:33/29 16:56 10:22-11:30/68	08:44 12:27-13:54/87 16:38 10:44-11:30/46
18	05:50 06:22-06:46/24 21:52	06:35 07:56-08:25/29 21:03 07:02-07:34/32	07:24 19:55	08:12 18:48	08:06 12:39-13:43/64 09:05-09:34/29 16:55 10:22-11:29/67	08:45 12:26-13:53/87 16:39 10:44-11:30/46
19	05:51 06:22-06:46/24 21:51	06:37 07:54-08:26/32 21:01 07:10-07:32/22	07:25 19:53	08:14 11:47-11:57/10 18:46	08:07 12:39-13:43/64 09:04-09:33/29 16:53 10:22-11:29/67	08:45 12:27-13:54/87 16:39 10:45-11:30/45
20	05:52 06:22-06:47/25 21:50	06:38 07:54-08:27/33 20:59 07:11-07:32/21	07:27 19:50	08:16 11:41-12:04/23 18:44	08:09 12:39-13:44/65 09:04-09:34/30 16:52 10:23-11:29/66	08:46 12:28-13:55/87 16:39 10:46-11:31/45
21	05:54 06:23-06:47/24 21:49	06:40 07:52-08:27/35 20:57 07:12-07:30/18	07:28 19:48	08:17 11:37-12:08/31 18:42	08:11 12:40-13:45/65 09:05-09:34/29 16:51 10:24-11:30/66	08:47 12:28-13:55/87 16:40 10:46-11:31/45
22	05:55 06:24-06:48/24 21:48	06:41 07:52-08:29/37 20:55 07:14-07:28/14	07:30 19:46	08:19 11:34-12:11/37 18:40	08:12 12:40-13:45/65 09:05-09:35/30 16:50 10:25-11:30/65	08:47 12:29-13:56/87 16:40 10:47-11:32/45
23	05:56 06:25-06:48/23 21:47	06:43 07:51-08:28/37 20:52 07:16-07:25/9	07:32 19:43	08:21 11:32-12:14/42 18:38	08:14 12:39-13:45/66 09:05-09:34/29 16:49 10:25-11:29/64	08:48 12:29-13:56/87 16:41 10:47-11:32/45
24	05:58 06:27-06:50/23 21:45	06:44 07:50-08:29/39 20:50	07:33 19:41	08:23 11:30-12:16/46 18:36	08:16 12:40-13:46/66 09:06-09:35/29 16:48 10:26-11:29/63	08:48 12:29-13:56/87 16:41 10:47-11:32/45
25	05:59 06:28-06:50/22 21:44	06:46 07:49-08:29/40 20:48	07:35 19:39	07:24 10:29-11:18/49 17:34	08:17 12:40-13:46/66 09:07-09:35/28 16:47 10:27-11:30/63	08:48 12:30-13:57/87 16:42 10:48-11:33/45
26	06:00 06:29-06:50/21 21:42	06:48 07:49-08:29/40 20:46	07:36 19:37	07:26 10:28-11:19/51 17:32	08:19 12:40-13:46/66 09:07-09:34/27 16:46 10:27-11:29/62	08:49 12:31-13:57/86 16:43 10:48-11:34/46
27	06:02 06:30-06:50/20 21:41	06:49 07:48-08:29/41 20:44	07:38 19:34	07:28 10:26-11:20/54 17:30	08:20 12:33-13:47/74 09:08-09:35/27 16:45 10:28-11:29/61	08:49 12:31-13:58/87 16:43 10:48-11:34/46
28	06:03 06:32-06:51/19 21:40	06:51 07:49-08:29/40 20:42 07:33-07:42/9	07:40 19:32	07:30 10:25-11:21/56 17:28	08:22 12:31-13:47/76 09:09-09:35/26 16:44 10:29-11:29/60	08:49 12:32-13:58/86 16:44 10:48-11:35/47
29	06:05 06:33-06:50/17 21:38	06:52 07:48-08:28/40 20:40 07:31-07:43/12	07:41 19:30	07:31 10:24-11:23/59 17:26	08:23 12:29-13:47/78 09:09-09:34/25 16:43 10:29-11:29/60	08:49 12:32-13:59/87 16:45 10:48-11:36/48
30	06:06 06:34-06:51/17 21:37	06:54 07:48-08:29/41 20:38 07:30-07:45/15	07:43 19:28	07:33 10:23-11:24/61 17:25	08:25 12:28-13:48/80 09:10-09:35/25 16:43 10:30-11:29/59	08:49 12:33-13:59/86 16:46 10:48-11:36/48
31	06:08 06:36-06:50/14 21:35	06:55 07:48-08:27/39 20:35 07:28-07:45/17		07:35 13:08-13:16/8 17:23 10:23-11:25/62		08:50 12:34-14:00/86 09:34-09:38/4 16:47 10:49-11:37/48
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	460	1423	402	589	4306	4366

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:37-09:40/3	08:24 08:50-08:54/4	07:32 07:55-08:02/7	07:23	06:20	05:37
	16:48 10:05-10:22/17	17:35	18:25	20:17	21:06	21:50
2	08:49 10:07-10:22/15	08:22 08:48-08:54/6	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 10:07-10:21/14	08:21 08:46-08:53/7	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 10:08-10:21/13	08:19 08:46-08:53/7	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 10:10-10:20/10	08:18	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 10:11-10:19/8	08:16	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:20/2	08:14	07:19	07:10	06:09	05:32
	16:55 10:15-10:17/2	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:17-09:21/4	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:16-09:22/6	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:15-09:22/7	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08	06:59	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:14-09:23/9	08:04	07:06	06:57	06:00	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:24/11	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:12-09:24/12	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:12-09:24/12	07:56	06:57	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:13-09:23/10	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:15-09:23/8	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:17-09:22/5	07:51	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:05/3	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:05/5	06:35	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:03/6	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:54/1		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	195	38	7	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: ALB_WT01 - ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 192,9 m) (22)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	08:57-09:04/7
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	08:59-09:05/6
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40		08:29	09:00-09:04/4
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42		08:30	09:02-09:05/3
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43		08:31	09:03-09:05/2
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:53		07:45	08:18-08:20/2	08:33	09:04-09:05/1
	22:02	21:25	20:22	19:14		17:12		16:40	09:58-10:05/7
7	05:38	06:18	07:07	07:54		07:47	08:16-08:23/7	08:34	09:57-10:07/10
	22:02	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:24/7	08:35	09:57-10:09/12
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:25/6	08:36	09:56-10:10/14
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:25/4	08:37	09:56-10:11/15
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:26/3	08:38	09:27-09:30/3
	21:59	21:16	20:11	19:03		17:04		16:38	09:56-10:12/16
12	05:43	06:26	07:14	08:02	08:31-08:35/4	07:56		08:39	09:26-09:31/5
	21:58	21:14	20:09	19:01		17:03		16:38	09:56-10:12/16
13	05:44	06:27	07:16	08:04	08:29-08:36/7	07:57		08:40	09:26-09:32/6
	21:57	21:12	20:06	18:59		17:01		16:38	09:56-10:13/17
14	05:45	06:29	07:17	08:06	08:31-08:37/6	07:59		08:41	09:26-09:33/7
	21:56	21:11	20:04	18:57		17:00		16:38	09:56-10:14/18
15	05:47	06:30	07:19	08:07	08:33-08:37/4	08:01		08:42	09:26-09:34/8
	21:55	21:09	20:02	18:55		16:59		16:38	09:56-10:15/19
16	05:48	06:32	07:21	08:09	08:35-08:37/2	08:02		08:43	09:26-09:35/9
	21:54	21:07	20:00	18:53		16:57		16:38	09:57-10:16/19
17	05:49	06:34	07:22	08:11		08:04		08:44	09:27-09:36/9
	21:53	21:05	19:57	18:50		16:56		16:39	09:57-10:17/20
18	05:50	06:35	07:24	08:12		08:06		08:44	09:27-09:36/9
	21:52	21:03	19:55	18:48		16:55		16:39	09:57-10:16/19
19	05:51	06:37	07:25	08:14		08:07		08:45	09:27-09:37/10
	21:51	21:01	19:53	18:46		16:53		16:39	09:58-10:17/19
20	05:53	06:38	07:27	08:16		08:09		08:46	09:28-09:38/10
	21:50	20:59	19:50	18:44		16:52		16:39	09:58-10:18/20
21	05:54	06:40	07:28	08:17		08:11		08:46	09:28-09:38/10
	21:49	20:57	19:48	18:42		16:51		16:40	09:58-10:18/20
22	05:55	06:41	07:30	08:19		08:12	08:53-08:58/5	08:47	09:29-09:39/10
	21:48	20:55	19:46	18:40		16:50		16:40	09:59-10:19/20
23	05:56	06:43	07:32	08:21		08:14	08:51-08:59/8	08:47	09:29-09:39/10
	21:46	20:52	19:44	18:38		16:49		16:41	09:59-10:19/20
24	05:58	06:45	07:33	08:23		08:15	08:50-09:00/10	08:48	09:29-09:39/10
	21:45	20:50	19:41	18:36		16:48		16:41	09:59-10:19/20
25	05:59	06:46	07:35	07:24		08:17	08:50-09:02/12	08:48	09:30-09:40/10
	21:44	20:48	19:39	17:34		16:47		16:42	10:01-10:20/19
26	06:01	06:48	07:36	07:26		08:19	08:50-09:02/12	08:49	09:31-09:40/9
	21:42	20:46	19:37	17:32		16:46		16:43	10:01-10:21/20
27	06:02	06:49	07:38	07:28		08:20	08:51-09:03/12	08:49	09:31-09:40/9
	21:41	20:44	19:34	17:30		16:45		16:43	10:02-10:21/19
28	06:03	06:51	07:40	07:29		08:22	08:53-09:04/11	08:49	09:32-09:40/8
	21:40	20:42	19:32	17:28		16:44		16:44	10:02-10:21/19
29	06:05	06:52	07:41	07:31		08:23	08:54-09:03/9	08:49	09:33-09:40/7
	21:38	20:40	19:30	17:27		16:44		16:45	10:03-10:21/18
30	06:06	06:54	07:43	07:33		08:24	08:56-09:04/8	08:49	09:34-09:40/6
	21:37	20:38	19:28	17:25		16:43		16:46	10:03-10:21/18
31	06:08	06:56		07:35				08:49	09:35-09:40/5
	21:35	20:35		17:23				16:47	10:04-10:21/17
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	23		116		644	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: ATS_WT01 - NORDEX N149/5.X-powercurve 5700 149.0 !O! hub: 156,5 m (TOT: 231,0 m) (25)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:20-09:31/11	08:24	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:44	07:36	08:26 09:06-09:13/7
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49 09:20-09:32/12	08:22	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 09:06-09:15/9
	16:49	17:37	18:27	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49 09:20-09:32/12	08:21	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29 09:06-09:16/10
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:18	16:41
4	08:49 09:19-09:32/13	08:19	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42	08:30 09:06-09:17/11
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:41
5	08:49 09:19-09:33/14	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31 09:06-09:18/12
	16:53	17:42	18:32	20:24	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49 09:19-09:32/13	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45	08:33 09:06-09:18/12
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:40
7	08:48 09:21-09:33/12	08:14	07:19	07:10	06:09	05:33	05:39	06:18	07:07	07:54	07:47	08:34 09:06-09:20/14
	16:55	17:46	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:21-09:32/11	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35 09:07-09:20/13
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:22-09:33/11	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:57	07:50	08:36 09:08-09:20/12
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:08	16:39
10	08:47 09:23-09:32/9	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:09-09:21/12
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46 09:24-09:31/7	08:08	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:10-09:21/11
	17:00	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:27-09:31/4	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:56	08:39 09:11-09:22/11
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57	08:40 09:12-09:22/10
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:18	08:06	07:59	08:41 09:13-09:23/10
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42 09:14-09:23/9
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43 09:15-09:24/9
	17:08	18:02	18:50	20:42	21:30	22:02	21:54	21:07	20:00	18:53	16:57	16:38
17	08:42	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44 09:16-09:24/8
	17:09	18:04	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39
18	08:41	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06	08:44 09:16-09:24/8
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:25/8
	17:13	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39
20	08:39	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09	08:46 09:18-09:26/8
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40
21	08:38	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:17	08:11	08:46 09:18-09:26/8
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:47 09:19-09:27/8
	17:17	18:12	19:00	20:52	21:38	22:04	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14	08:47 09:19-09:27/8
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:44	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:15	08:48 09:19-09:27/8
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42
25	08:33	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48 09:20-09:28/8
	17:23	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31	06:01	06:48	07:36	07:26	08:19	08:49 09:20-09:28/8
	17:24	18:20	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:29/9
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:44
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22	08:49 09:20-09:29/9
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23	08:49 09:20-09:29/9
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:27	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 09:08-09:12/4	08:49 09:20-09:30/10
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:25		07:26		05:37		06:08	06:56		07:35		08:49 09:20-09:30/10
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	129	0	0	0	0	0	0	0	0	0	4	299

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 09:22-09:57/35 17:35 08:50-09:07/17	07:32 13:53-15:15/82 07:55-08:08/13 18:25 09:13-10:12/59	07:23 07:46-08:01/15 20:17 14:16-16:35/139	06:20 06:44-06:58/14 21:06 15:01-16:20/79	05:36 06:13-06:40/27 21:50
2	08:49 16:49	08:22 09:22-09:56/34 17:36 08:48-09:07/19	07:30 13:51-15:17/86 07:53-08:09/16 18:26 09:13-10:12/59	07:21 07:43-07:59/16 20:19 14:16-16:35/139	06:18 06:42-06:58/16 21:08 15:04-16:19/75	05:36 06:14-06:41/27 21:51
3	08:49 16:50	08:21 09:22-09:56/34 17:38 08:48-09:08/20	07:28 13:49-15:19/90 07:51-08:09/18 18:28 09:14-10:11/57	07:19 07:44-07:57/13 20:20 14:16-16:35/139	06:16 06:41-07:00/19 21:09 15:06-16:17/71	05:35 06:14-06:40/26 21:53
4	08:49 16:51	08:19 09:23-10:00/37 17:40 08:48-09:09/21	07:26 13:47-15:21/94 07:49-08:09/20 18:30 09:15-10:10/55	07:16 07:46-07:50/4 20:22 14:16-16:35/139	06:15 06:40-07:00/20 21:11 15:10-16:17/67	05:34 06:13-06:40/27 21:54
5	08:49 16:52	08:18 09:23-10:02/39 17:42 08:48-09:09/21	07:24 13:44-15:21/97 07:47-08:07/20 18:32 09:14-10:08/54	07:14 14:16-16:35/139 20:24	06:13 06:40-06:59/19 21:13 15:13-16:16/63	05:33 06:14-06:41/27 21:55
6	08:49 16:54	08:16 09:24-10:04/40 17:44 08:47-09:09/22	07:21 13:43-15:23/100 07:44-08:07/23 18:33 09:15-10:07/52	07:12 14:16-16:34/138 20:25	06:11 06:40-07:00/20 21:14 15:16-16:14/58	05:33 06:14-06:41/27 21:55
7	08:48 16:55	08:14 09:25-10:05/40 17:45 08:47-09:09/22	07:19 13:41-15:24/103 07:43-08:05/22 18:35 09:16-10:06/50	07:10 14:16-16:34/138 20:27	06:09 06:40-07:00/20 21:16 15:20-16:13/53	05:32 06:14-06:41/27 21:56
8	08:48 16:56	08:13 09:24-10:07/43 17:47 08:49-09:09/20	07:17 13:40-15:26/106 07:54-08:04/10 18:37 09:17-10:04/47 07:45-07:51/6	07:08 14:16-16:34/138 20:28	06:08 06:39-06:59/20 21:17 15:23-16:11/48	05:32 06:15-06:42/27 21:57
9	08:47 16:58	08:11 09:22-10:08/46 17:49 08:49-09:09/20	07:15 13:38-15:26/108 18:38 09:18-10:01/43	07:05 14:17-16:34/137 20:30	06:06 06:40-06:59/19 21:19 15:26-16:10/44	05:31 06:15-06:41/26 21:58
10	08:47 16:59	08:09 09:21-10:09/48 17:51 08:49-09:08/19	07:13 13:36-15:27/111 18:40 09:19-09:59/40	07:03 14:17-16:34/137 20:32	06:04 06:40-06:58/18 21:20 15:30-16:08/38	05:31 06:15-06:42/27 21:59
11	08:46 09:31-09:35/4 17:00	08:08 09:20-10:10/50 17:53 08:50-09:07/17	07:10 13:35-15:28/113 18:42 09:21-09:57/36	07:01 14:17-16:32/135 20:33	06:03 06:41-06:58/17 21:22 15:34-16:07/33	05:31 06:16-06:42/26 21:59
12	08:46 09:28-09:38/10 17:02	08:06 09:19-10:11/52 17:54 08:51-09:06/15	07:08 13:34-15:30/116 07:31-07:35/4 18:44 09:23-09:54/31	06:59 14:18-16:32/134 20:35	06:01 06:41-06:56/15 21:24 15:38-16:04/26	05:30 06:15-06:41/26 22:00
13	08:45 09:27-09:41/14 17:03	08:04 09:18-10:12/54 17:56 08:53-09:03/10	07:06 13:32-15:30/118 07:29-07:36/7 18:45 09:25-09:50/25	06:57 14:19-16:32/133 20:37	05:59 06:43-06:56/13 21:25 15:43-16:00/17	05:30 06:15-06:42/27 22:01
14	08:44 09:26-09:43/17 17:05	08:02 09:17-10:13/56 17:58	07:04 13:31-15:31/120 07:26-07:36/10 18:47 09:29-09:45/16	06:55 14:20-16:31/131 20:38	05:58 06:44-06:53/9 21:27	05:30 06:16-06:42/26 22:01
15	08:44 09:25-09:44/19 17:06	08:00 09:16-10:13/57 18:00	07:01 13:30-15:31/121 18:49 07:24-07:36/12	06:52 07:15-07:17/2 20:40 14:21-16:31/130	05:56 06:47-06:51/4 21:28	05:30 06:16-06:42/26 22:02
16	08:43 09:24-09:46/22 17:08	07:58 09:16-10:14/58 18:02	06:59 13:29-15:32/123 18:50 07:22-07:36/14	06:50 07:13-07:16/3 20:42 14:23-16:31/128	05:55 21:30	05:29 06:16-06:43/27 22:02
17	08:42 09:23-09:47/24 17:09	07:56 09:15-10:14/59 18:03	06:57 13:27-15:32/125 18:52 07:22-07:35/13	06:48 07:11-07:15/4 20:43 14:24-16:30/126	05:53 21:31	05:29 06:17-06:43/26 22:03
18	08:41 09:23-09:48/25 17:11	07:54 09:15-10:15/60 18:05	06:55 13:26-15:33/127 18:54 07:22-07:33/11	06:46 14:26-16:30/124 20:45	05:52 06:24-06:27/3 21:32	05:29 06:17-06:43/26 22:03
19	08:40 09:22-09:50/28 17:12	07:53 09:14-10:15/61 18:07	06:53 13:25-15:34/129 18:55 07:23-07:32/9	06:44 14:28-16:29/121 20:47	05:51 06:21-06:31/10 21:34	05:29 06:17-06:43/26 22:04
20	08:39 09:22-09:51/29 17:14	07:51 09:14-10:15/61 18:09	06:50 13:25-15:34/129 18:57	06:42 14:30-16:29/119 20:48	05:49 06:19-06:33/14 21:35	05:30 06:17-06:43/26 22:04
21	08:38 09:21-09:51/30 17:16	07:49 14:21-14:48/27 18:11 09:13-10:15/62	06:48 13:23-15:34/131 18:59	06:40 14:32-16:28/116 20:50	05:48 06:17-06:33/16 21:37	05:30 06:17-06:43/26 22:04
22	08:37 09:21-09:52/31 17:17	07:47 14:15-14:53/38 18:12 09:13-10:15/62	06:46 13:22-15:34/132 19:00	06:38 14:34-16:27/113 20:51	05:47 06:16-06:35/19 21:38	05:30 06:18-06:44/26 22:04
23	08:36 09:21-09:53/32 17:19	07:45 14:11-14:58/47 18:14 09:13-10:15/62	06:43 13:22-15:35/133 19:02	06:36 14:37-16:27/110 20:53	05:46 06:16-06:36/20 21:39	05:30 06:18-06:44/26 22:05
24	08:35 09:20-09:53/33 17:21	07:42 14:07-15:02/55 18:16 09:13-10:15/62	06:41 13:20-15:34/134 19:04	06:34 14:39-16:26/107 20:55	05:44 06:15-06:36/21 21:41	05:30 06:18-06:44/26 22:05
25	08:33 09:20-09:54/34 17:22	07:40 14:04-15:05/61 18:18 09:13-10:15/62	06:39 13:20-15:35/135 19:05	06:32 14:42-16:25/103 20:56	05:43 06:15-06:37/22 21:42	05:31 06:19-06:45/26 22:05
26	08:32 09:21-09:55/34 17:24	07:38 14:01-15:08/67 08:02-08:04/2 18:19 09:13-10:15/62	06:37 13:19-15:35/136 19:07	06:30 14:45-16:24/99 20:58	05:42 06:14-06:37/23 21:43	05:31 06:19-06:45/26 22:05
27	08:31 09:20-09:55/35 17:26	07:36 13:57-15:10/73 08:00-08:07/7 18:21 09:12-10:13/61	06:34 06:57-07:01/4 19:09 13:19-15:36/137	06:28 14:48-16:23/95 21:00	05:41 06:14-06:38/24 21:45	05:32 06:18-06:44/26 22:05
28	08:30 09:21-09:56/35 17:28	07:34 13:55-15:13/78 07:57-08:07/10 18:23 09:13-10:13/60	06:32 06:55-07:02/7 19:10 13:18-15:35/137	06:26 14:51-16:22/91 21:01	05:40 06:13-06:38/25 21:46	05:32 06:19-06:45/26 22:05
29	08:28 09:20-09:55/35 17:29 08:54-09:02/8		07:30 07:52-08:01/9 20:12 14:18-16:35/137	06:24 06:48-06:56/8 21:03 14:55-16:22/87	05:39 06:14-06:39/25 21:47	05:33 06:20-06:46/26 22:05
30	08:27 09:21-09:56/35 17:31 08:53-09:04/11		07:28 07:50-08:01/11 20:14 14:17-16:35/138	06:22 06:46-06:57/11 21:05 14:58-16:21/83	05:38 06:14-06:40/26 21:48	05:33 06:19-06:46/27 22:04
31	08:25 09:21-09:56/35 17:33 08:51-09:05/14		07:25 07:48-08:01/13 20:15 14:17-16:36/139		05:37 06:14-06:40/26 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	594	2165	4583	3744	1189	791

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: CBR_WT01 - VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (23)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:20-06:46/26 22:04	06:09 06:52-07:07/15 21:33 15:46-16:15/29	06:57 14:17-16:32/135 20:33	07:44 14:12-16:09/117 08:09-08:15/6 19:25 10:03-10:32/29	07:36 08:51-09:39/48 17:21 08:19-08:38/19	08:26 09:13-09:17/4 16:42
2	05:34 06:19-06:46/27 22:04	06:10 06:51-07:08/17 21:32 15:42-16:17/35	06:59 14:15-16:31/136 20:31	07:46 14:13-16:08/115 08:11-08:13/2 19:23 10:01-10:35/34	07:38 08:52-09:38/46 17:19 08:18-08:39/21	08:27 16:41
3	05:35 06:20-06:46/26 22:03	06:12 06:50-07:09/19 21:30 15:39-16:19/40	07:00 14:15-16:32/137 20:29	07:48 14:14-16:06/112 19:21 09:58-10:36/38	07:40 08:53-09:36/43 17:17 08:17-08:38/21	08:29 16:41
4	05:36 06:20-06:47/27 22:03	06:13 06:49-07:09/20 21:29 15:35-16:21/46	07:02 14:13-16:31/138 20:27	07:49 14:15-16:05/110 19:19 09:56-10:38/42	07:42 08:54-09:34/40 17:16 08:17-08:39/22	08:30 16:40
5	05:37 06:20-06:46/26 22:03	06:15 06:50-07:09/19 21:27 15:32-16:22/50	07:03 14:13-16:31/138 20:24	07:51 14:16-16:03/107 08:32-08:39/7 19:16 09:55-10:40/45 08:23-08:27/4	07:43 08:54-09:33/39 17:14 08:17-08:39/22	08:31 16:40
6	05:37 06:20-06:47/27 22:02	06:16 06:49-07:09/20 21:25 15:28-16:23/55	07:05 14:12-16:30/138 20:22	07:52 14:17-16:01/104 08:29-08:41/12 19:14 09:53-10:41/48 08:20-08:28/8	07:45 08:53-09:31/38 17:12 08:18-08:39/21	08:33 16:39
7	05:38 06:20-06:47/27 22:02	06:18 06:50-07:10/20 21:23 15:25-16:25/60	07:06 14:11-16:30/139 20:20	07:54 14:18-16:00/102 08:19-08:42/23 19:12 09:52-10:42/50	07:47 08:53-09:29/36 17:11 08:18-08:39/21	08:34 16:39
8	05:39 06:21-06:47/26 22:01	06:20 06:49-07:09/20 21:22 15:21-16:25/64	07:08 07:40-07:44/4 20:18 14:10-16:29/139	07:56 14:20-15:58/98 08:21-08:43/22 19:10 09:51-10:44/53	07:49 08:53-09:27/34 17:09 08:19-08:39/20	08:35 16:39
9	05:40 06:21-06:48/27 22:00	06:21 06:50-07:09/19 21:20 15:18-16:26/68	07:10 07:38-07:51/13 20:15 14:10-16:29/139	07:57 14:20-15:56/96 08:22-08:43/21 19:08 09:49-10:44/55	07:50 08:52-09:27/35 17:07 08:19-08:38/19	08:36 16:38
10	05:41 06:21-06:48/27 22:00	06:23 06:50-07:08/18 21:18 15:15-16:27/72	07:11 07:36-07:52/16 20:13 14:09-16:28/139	07:59 14:22-15:54/92 08:24-08:43/19 19:05 09:48-10:45/57	07:52 08:52-09:27/35 17:06 08:21-08:38/17	08:37 16:38
11	05:42 06:22-06:48/26 21:59	06:24 06:51-07:07/16 21:16 15:11-16:27/76	07:13 07:38-07:53/15 20:11 14:09-16:28/139	08:01 14:24-15:52/88 08:26-08:43/17 19:03 09:48-10:46/58	07:54 08:53-09:28/35 17:04 08:23-08:37/14	08:38 16:38
12	05:43 06:22-06:48/26 21:58	06:26 06:53-07:06/13 21:14 15:08-16:29/81	07:14 07:39-07:52/13 20:09 14:08-16:27/139	08:02 14:25-15:49/84 08:28-08:42/14 19:01 09:46-10:45/59	07:56 08:52-09:27/35 17:03 08:24-08:35/11	08:39 16:38
13	05:44 06:22-06:48/26 21:57	06:27 06:54-07:04/10 21:12 15:04-16:29/85	07:16 07:41-07:53/12 20:06 14:09-16:27/138	08:04 14:27-15:47/80 08:29-08:41/12 18:59 09:46-10:46/60	07:57 08:52-09:27/35 17:01 08:26-08:33/7	08:40 16:38
14	05:45 06:22-06:48/26 21:56	06:29 06:56-07:03/7 21:11 15:01-16:30/89	07:17 07:42-07:52/10 20:04 14:08-16:26/138	08:06 14:29-15:45/76 08:31-08:40/9 18:57 09:46-10:46/60	07:59 08:53-09:28/35 17:00	08:41 16:38
15	05:46 06:23-06:48/25 21:55	06:30 14:57-16:30/93 21:09	07:19 07:44-07:51/7 20:02 14:08-16:25/137	08:07 14:32-15:42/70 08:33-08:38/5 18:55 09:46-10:47/61	08:01 08:53-09:28/35 16:59	08:42 16:38
16	05:48 06:23-06:48/25 21:54	06:32 14:55-16:31/96 21:07	07:21 07:45-07:49/4 19:59 14:07-16:24/137	08:09 14:33-15:39/66 18:52 09:44-10:46/62	08:02 08:54-09:28/34 16:57	08:43 16:38
17	05:49 06:23-06:47/24 21:53	06:33 14:51-16:31/100 21:05	07:22 14:08-16:24/136 19:57	08:11 14:36-15:35/59 18:50 09:44-10:46/62	08:04 08:54-09:28/34 16:56	08:44 16:38
18	05:50 06:24-06:47/23 21:52	06:35 14:48-16:32/104 21:03	07:24 14:07-16:22/135 19:55	08:12 14:40-15:32/52 18:48 09:44-10:47/63	08:06 08:54-09:27/33 16:55	08:44 16:39
19	05:51 06:24-06:46/22 21:51	06:37 14:44-16:32/108 21:01	07:25 14:08-16:22/134 19:53	08:14 14:43-15:28/45 18:46 09:45-10:47/62	08:07 08:55-09:27/32 16:53	08:45 16:39
20	05:52 06:26-06:46/20 21:50	06:38 14:42-16:32/110 20:59	07:27 14:08-16:22/134 19:50	08:16 14:47-15:22/35 18:44 09:45-10:47/62	08:09 08:56-09:27/31 16:52	08:46 16:39
21	05:54 06:27-06:46/19 21:49	06:40 14:39-16:32/113 20:57	07:28 14:08-16:20/132 19:48	08:17 14:54-15:16/22 18:42 09:44-10:46/62	08:11 08:57-09:27/30 16:51	08:46 16:40
22	05:55 06:27-06:45/18 21:48	06:41 14:36-16:33/117 20:55	07:30 14:08-16:20/132 19:46	08:19 09:44-10:45/61 18:40	08:12 08:58-09:27/29 16:50	08:47 16:40
23	05:56 06:28-06:43/15 21:46	06:43 14:33-16:32/119 20:52	07:32 14:08-16:18/130 19:43	08:21 09:45-10:45/60 18:38	08:14 08:58-09:26/28 16:49	08:47 16:41
24	05:58 06:30-06:43/13 21:45	06:44 14:31-16:33/122 20:50	07:33 14:09-16:17/128 19:41 08:08-08:14/6	08:23 09:45-10:45/60 18:36	08:15 09:00-09:26/26 16:48	08:48 16:41
25	05:59 06:32-06:40/8 21:44	06:46 07:14-07:15/1 20:48 14:28-16:32/124	07:35 14:09-16:16/127 19:39 08:05-08:16/11	07:24 08:46-09:45/59 17:34	08:17 09:01-09:25/24 16:47	08:48 16:42
26	06:00 21:42	06:48 07:14-07:18/4 20:46 14:27-16:33/126	07:36 14:09-16:15/126 19:37 08:04-08:17/13	07:26 08:45-09:43/58 17:32	08:19 09:02-09:24/22 16:46	08:49 16:43
27	06:02 21:41	06:49 07:15-07:18/3 20:44 14:24-16:32/128	07:38 14:10-16:14/124 19:34 08:03-08:18/15	07:28 08:46-09:43/57 17:30	08:20 09:04-09:24/20 16:45	08:49 16:43
28	06:03 21:40	06:51 07:17-07:19/2 20:42 14:23-16:33/130	07:40 14:10-16:12/122 19:32 08:04-08:17/13	07:29 08:47-09:42/55 17:28 08:25-08:30/5	08:22 09:06-09:23/17 16:44	08:49 16:44
29	06:05 06:56-07:03/7 21:38	06:52 14:21-16:32/131 20:40	07:41 14:11-16:12/121 08:06-08:17/11 19:30 10:12-10:24/12	07:31 08:48-09:41/53 17:26 08:22-08:34/12	08:23 09:07-09:21/14 16:43	08:49 16:45
30	06:06 06:53-07:05/12 21:37 15:58-16:06/8	06:54 14:20-16:33/133 20:38	07:43 14:11-16:10/119 08:08-08:16/8 19:28 10:06-10:28/22	07:33 08:49-09:41/52 17:25 08:21-08:35/14	08:24 09:10-09:20/10 16:43	08:49 16:46
31	06:08 06:53-07:06/13 21:35 15:51-16:12/21	06:55 14:18-16:32/134 20:35	 	07:35 08:50-09:40/50 17:23 08:20-08:37/17	 	08:49 16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	643	3081	4211	3646	1188	4

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 18:25	07:23 19:46-19:51/5 20:17	06:20 21:06	05:36 21:15-21:19/4 21:51 21:06-21:13/7
2	08:50 16:49	08:23 17:36	07:30 17:59-18:01/2 18:27	07:21 19:46-19:53/7 20:19	06:18 21:08	05:36 21:16-21:20/4 21:52 21:08-21:13/5
3	08:50 16:50	08:21 17:38	07:28 17:54-18:03/9 18:28	07:19 19:46-19:55/9 20:20	06:16 21:10	05:35 21:16-21:21/5 21:53
4	08:49 16:51	08:20 17:40	07:26 17:52-18:05/13 18:30	07:17 19:48-19:57/9 20:22	06:15 21:11	05:34 21:16-21:21/5 21:54
5	08:49 16:53	08:18 17:42	07:24 17:49-18:06/17 18:32	07:14 19:50-19:58/8 20:24	06:13 21:13	05:34 21:17-21:23/6 21:55
6	08:49 16:54	08:16 17:44	07:22 17:48-18:08/20 18:33	07:12 19:52-19:59/7 20:25	06:11 21:14	05:33 21:17-21:23/6 21:56
7	08:48 16:55	08:15 17:45	07:19 17:48-18:10/22 18:35	07:10 19:51-20:01/10 20:27	06:09 21:16	05:32 21:18-21:24/6 21:57
8	08:48 16:56	08:13 17:47	07:17 17:47-18:12/25 18:37	07:08 19:52-20:03/11 20:29	06:08 21:18	05:32 21:18-21:25/7 21:57
9	08:48 16:58	08:11 17:49	07:15 17:47-18:12/25 18:39	07:06 19:52-20:05/13 20:30	06:06 21:19	05:31 21:18-21:26/8 21:58
10	08:47 16:59	08:09 17:51	07:13 17:46-18:12/26 18:40	07:03 19:53-20:06/13 20:32	06:04 21:21	05:31 21:18-21:27/9 21:59
11	08:47 17:00	08:08 17:53	07:11 17:46-18:12/26 18:42	07:01 19:53-20:03/10 20:34	06:03 21:22	05:31 21:18-21:28/10 22:00
12	08:46 17:02	08:06 17:55	07:08 17:46-18:11/25 18:44	06:59 19:55-20:01/6 20:35	06:01 21:24	05:30 21:17-21:27/10 22:00
13	08:45 17:03	08:04 17:56	07:06 17:46-18:11/25 18:45	06:57 20:37	05:59 21:25	05:30 21:17-21:28/11 22:01
14	08:45 17:05	08:02 17:58	07:04 17:46-18:09/23 18:47	06:55 20:39	05:58 21:27	05:30 21:18-21:29/11 22:02
15	08:44 17:06	08:00 18:00	07:02 17:47-18:08/21 18:49	06:53 20:40	05:56 21:28	05:30 21:18-21:29/11 22:02
16	08:43 17:08	07:58 18:02	06:59 17:49-18:07/18 18:50	06:50 20:42	05:55 21:30	05:30 21:18-21:30/12 22:03
17	08:42 17:09	07:57 18:04	06:57 17:50-18:04/14 18:52	06:48 20:43	05:54 21:31	05:29 21:18-21:30/12 22:03
18	08:41 17:11	07:55 18:05	06:55 17:53-18:01/8 18:54	06:46 20:45	05:52 21:02-21:03/1 21:33	05:29 21:18-21:31/13 22:04
19	08:40 17:12	07:53 18:07	06:53 18:29-18:31/2 18:56	06:44 20:47	05:51 21:02-21:04/2 21:34	05:30 21:18-21:31/13 22:04
20	08:39 17:14	07:51 18:09	06:50 18:29-18:32/3 18:57	06:42 20:48	05:49 21:02-21:06/4 21:36	05:30 21:18-21:31/13 22:04
21	08:38 17:16	07:49 18:11	06:48 18:27-18:33/6 18:59	06:40 20:50	05:48 21:01-21:06/5 21:37	05:30 21:18-21:31/13 22:04
22	08:37 17:17	07:47 18:12	06:46 18:27-18:35/8 19:01	06:38 20:52	05:47 21:01-21:07/6 21:38	05:30 21:19-21:32/13 22:05
23	08:36 17:19	07:45 18:14	06:44 18:28-18:37/9 19:02	06:36 20:53	05:46 21:01-21:09/8 21:40	05:30 21:19-21:32/13 22:05
24	08:35 17:21	07:43 18:16	06:41 18:28-18:38/10 19:04	06:34 20:55	05:44 21:01-21:10/9 21:41	05:30 21:19-21:32/13 22:05
25	08:34 17:22	07:41 18:18	06:39 18:30-18:36/6 19:06	06:32 20:57	05:43 21:01-21:11/10 21:42	05:31 21:20-21:33/13 22:05
26	08:32 17:24	07:39 18:20	06:37 19:07	06:30 20:58	05:42 21:02-21:12/10 21:44	05:31 21:20-21:32/12 22:05
27	08:31 17:26	07:36 18:21	06:35 19:09	06:28 21:00	05:41 21:02-21:13/11 21:45	05:32 21:20-21:32/12 22:05
28	08:30 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:02-21:14/12 21:46	05:32 21:21-21:32/11 22:05
29	08:28 17:29		07:30 20:12	06:24 21:03	05:39 21:04-21:16/12 21:47	05:33 21:21-21:32/11 22:05
30	08:27 17:31		07:28 19:47-19:49/2 20:14	06:22 21:05	05:38 21:16-21:17/1 21:48 21:04-21:15/11	05:33 21:21-21:32/11 22:05
31	08:26 17:33		07:26 19:47-19:50/3 20:15		05:37 21:15-21:18/3 21:50 21:05-21:14/9	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	0	0	368	108	114	310

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: EVE_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (52)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 21:22-21:32/10	06:09	06:57 19:53-20:03/10	07:45 18:25-18:50/25	07:37	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 21:22-21:31/9	06:11	06:59 19:51-20:03/12	07:46 18:25-18:50/25	07:38	08:28
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 21:23-21:31/8	06:12	07:00 19:50-20:03/13	07:48 18:23-18:49/26	07:40	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 21:24-21:31/7	06:14	07:02 19:49-20:00/11	07:49 18:24-18:49/25	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 21:23-21:30/7	06:15	07:03 19:49-19:58/9	07:51 18:24-18:49/25	07:44	08:32
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 21:23-21:30/7	06:17	07:05 19:48-19:55/7	07:53 18:23-18:47/24	07:45	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 21:23-21:29/6	06:18	07:07 19:46-19:54/8	07:54 18:24-18:45/21	07:47	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 21:23-21:29/6	06:20	07:08 19:42-19:51/9	07:56 18:25-18:43/18	07:49	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 21:24-21:29/5	06:21	07:10 19:41-19:49/8	07:58 18:25-18:40/15	07:51	08:36
	22:01	21:20	20:16	19:08	17:07	16:39
10	05:41 21:24-21:28/4	06:23	07:11 19:39-19:46/7	07:59 18:27-18:38/11	07:52	08:37
	22:00 21:16-21:20/4	21:18	20:13	19:05	17:06	16:38
11	05:42 21:24-21:27/3	06:24	07:13 19:39-19:45/6	08:01 18:30-18:36/6	07:54	08:39
	21:59 21:15-21:21/6	21:16	20:11	19:03	17:04	16:38
12	05:43 21:24-21:27/3	06:26	07:14 19:38-19:42/4	08:02	07:56	08:40
	21:58 21:14-21:22/8	21:15	20:09	19:01	17:03	16:38
13	05:44 21:24-21:26/2	06:27	07:16 19:39-19:40/1	08:04	07:57	08:41
	21:57 21:13-21:23/10	21:13	20:06	18:59	17:01	16:38
14	05:45 21:13-21:25/12	06:29	07:18	08:06	07:59	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 21:12-21:24/12	06:30	07:19	08:07	08:01	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 21:12-21:23/11	06:32	07:21	08:09	08:03	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 21:11-21:22/11	06:34	07:22	08:11	08:04	08:44
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18	05:50 21:11-21:21/10	06:35	07:24 19:18-19:23/5	08:13	08:06	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 21:11-21:20/9	06:37	07:25 19:16-19:26/10	08:14	08:08	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 21:10-21:19/9	06:38	07:27 19:15-19:24/9	08:16	08:09	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:11-21:19/8	06:40	07:29 19:13-19:21/8	08:18	08:11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55 21:11-21:17/6	06:41	07:30 19:13-19:20/7	08:19	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 21:11-21:16/5	06:43	07:32 19:12-19:17/5	08:21	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 21:11-21:14/3	06:45	07:33 19:13-19:15/2	08:23	08:16	08:48
	21:45	20:51	19:41	18:36	16:48	16:41
25	05:59 21:12-21:14/2	06:46	07:35 18:38-18:41/3	07:24	08:17	08:49
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:33-18:46/13	07:26	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:31-18:48/17	07:28	08:20	08:49
	21:41	20:44	19:35	17:30	16:45	16:43
28	06:03	06:51	07:40 18:29-18:48/19	07:30	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 18:27-18:50/23	07:31	08:23	08:50
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06	06:54	07:43 18:26-18:49/23	07:33	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:55-20:01/6		07:35		08:50
	21:35	20:36		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	203	6	249	221	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: EVE_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 180,0 m) (53)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 16:59-17:05/6 17:35	07:32 17:57-17:59/2 18:25	07:23 20:17	06:20 20:36-20:38/2 21:06	05:36 21:51
2	08:50 16:49	08:23 16:58-17:07/9 17:36	07:30 17:57-18:01/4 18:27	07:21 20:19	06:18 20:35-20:40/5 21:08	05:36 21:52
3	08:50 16:50	08:21 16:57-17:09/12 17:38	07:28 17:57-18:03/6 18:28	07:19 20:20	06:16 20:35-20:41/6 21:10	05:35 21:53
4	08:49 16:51	08:20 16:57-17:11/14 17:40	07:26 17:58-18:05/7 18:30	07:17 20:22	06:15 20:36-20:43/7 21:11	05:34 21:54
5	08:49 16:53	08:18 16:56-17:13/17 17:42	07:24 17:58-18:06/8 18:32	07:14 20:24	06:13 20:37-20:44/7 21:13	05:34 21:55
6	08:49 16:54	08:16 16:56-17:15/19 17:44	07:22 18:00-18:05/5 18:33	07:12 20:25	06:11 20:38-20:44/6 21:14	05:33 21:56
7	08:48 16:55	08:15 16:56-17:16/20 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:57
8	08:48 16:56	08:13 16:57-17:18/21 17:47	07:17 18:37	07:08 20:29	06:08 21:18	05:32 21:57
9	08:48 16:58	08:11 16:57-17:17/20 17:49	07:15 18:39	07:06 20:30	06:06 21:19	05:31 21:58
10	08:47 16:59	08:09 16:57-17:17/20 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 21:59
11	08:47 17:00	08:08 16:58-17:16/18 17:53	07:11 18:42	07:01 20:34	06:03 21:22	05:31 22:00
12	08:46 17:02	08:06 16:59-17:15/16 17:55	07:08 18:16-18:19/3 18:44	06:59 20:35	06:01 21:24	05:30 22:00
13	08:45 17:03	08:04 17:01-17:13/12 17:56	07:06 18:15-18:20/5 18:45	06:57 20:37	06:00 21:25	05:30 22:01
14	08:45 17:05	08:02 17:03-17:11/8 17:58	07:04 18:16-18:22/6 18:47	06:55 20:39	05:58 21:27	05:30 22:02
15	08:44 17:06	08:00 18:00	07:02 18:16-18:24/8 18:49	06:53 20:09-20:14/5 20:40	05:56 21:28	05:30 22:02
16	08:43 17:08	07:58 18:02	06:59 18:16-18:26/10 18:50	06:50 20:07-20:15/8 20:42	05:55 21:30	05:30 22:03
17	08:42 17:09	07:57 18:04	06:57 18:16-18:27/11 18:52	06:48 20:06-20:17/11 20:43	05:54 21:31	05:30 22:03
18	08:41 17:11	07:55 18:05	06:55 18:17-18:28/11 18:54	06:46 20:04-20:19/15 20:45	05:52 21:33	05:30 22:04
19	08:40 17:12	07:53 18:07	06:53 18:19-18:26/7 18:56	06:44 20:04-20:20/16 20:47	05:51 21:34	05:30 22:04
20	08:39 17:14	07:51 18:09	06:50 18:57	06:42 20:03-20:22/19 20:48	05:49 21:35	05:30 22:04
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28	08:30 17:28	07:34 18:23	06:32 19:10	06:26 20:04-20:20/16 21:01	05:40 21:46	05:32 22:05
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31	08:26 16:59-17:03/4 17:33		07:26 20:15		05:37 21:50	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	4	212	93	281	33	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

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511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December
1	05:34	06:09		06:57		07:45	18:55-18:58/3	07:37	16:27-16:47/20	08:26
	22:04	21:34		20:33		19:25		17:21		16:42
2	05:34	06:11		06:59		07:46	18:55-18:56/1	07:38	16:27-16:47/20	08:28
	22:04	21:32		20:31		19:23		17:19		16:42
3	05:35	06:12		07:00		07:48		07:40	16:26-16:47/21	08:29
	22:04	21:30		20:29		19:21		17:17		16:41
4	05:36	06:14		07:02		07:49		07:42	16:25-16:46/21	08:30
	22:03	21:29		20:27		19:19		17:16		16:40
5	05:37	06:15		07:03		07:51		07:44	16:26-16:44/18	08:32
	22:03	21:27		20:24		19:17		17:14		16:40
6	05:38	06:17	20:50-20:53/3	07:05		07:53		07:45	16:26-16:42/16	08:33
	22:02	21:25		20:22		19:14		17:12		16:40
7	05:38	06:18	20:48-20:55/7	07:07		07:54		07:47	16:27-16:41/14	08:34
	22:02	21:24		20:20		19:12		17:11		16:39
8	05:39	06:20	20:46-20:53/7	07:08		07:56	18:35-18:42/7	07:49	16:27-16:39/12	08:35
	22:01	21:22		20:18		19:10		17:09		16:39
9	05:40	06:21	20:45-20:51/6	07:10		07:58	18:32-18:40/8	07:51	16:28-16:38/10	08:36
	22:00	21:20		20:16		19:08		17:07		16:39
10	05:41	06:23	20:45-20:50/5	07:11		07:59	18:32-18:38/6	07:52	16:30-16:36/6	08:37
	22:00	21:18		20:13		19:05		17:06		16:38
11	05:42	06:24	20:44-20:48/4	07:13		08:01	18:31-18:36/5	07:54	16:31-16:35/4	08:38
	21:59	21:16		20:11		19:03		17:04		16:38
12	05:43	06:26	20:44-20:46/2	07:14		08:02	18:30-18:33/3	07:56		08:40
	21:58	21:15	20:19-20:22/3	20:09		19:01		17:03		16:38
13	05:44	06:27	20:15-20:25/10	07:16		08:04		07:57		08:40
	21:57	21:13		20:06		18:59		17:01		16:38
14	05:45	06:29	20:13-20:28/15	07:18		08:06		07:59		08:41
	21:57	21:11		20:04		18:57		17:00		16:38
15	05:46	06:30	20:11-20:28/17	07:19		08:07		08:01		08:42
	21:56	21:09		20:02		18:55		16:59		16:38
16	05:48	06:32	20:10-20:32/22	07:21		08:09		08:03		08:43
	21:55	21:07		20:00		18:53		16:57		16:38
17	05:49	06:34	20:09-20:34/25	07:22		08:11		08:04		08:44
	21:54	21:05		19:57		18:50		16:56		16:39
18	05:50	06:35	20:09-20:35/26	07:24		08:13		08:06		08:45
	21:53	21:03		19:55		18:48		16:55		16:39
19	05:51	06:37	20:07-20:33/26	07:25		08:14		08:08		08:45
	21:51	21:01		19:53		18:46		16:53		16:39
20	05:53	06:38	20:08-20:32/24	07:27		08:16		08:09		08:46
	21:50	20:59		19:50		18:44		16:52		16:39
21	05:54	06:40	20:07-20:29/22	07:29		08:18		08:11		08:47
	21:49	20:57		19:48		18:42		16:51		16:40
22	05:55	06:41	20:07-20:28/21	07:30		08:19		08:12		08:47
	21:48	20:55		19:46		18:40		16:50		16:40
23	05:56	06:43	20:07-20:25/18	07:32		08:21		08:14		08:48
	21:47	20:53		19:44		18:38		16:49		16:41
24	05:58	06:45	20:07-20:24/17	07:33	19:04-19:08/4	08:23		08:16		08:48
	21:45	20:51		19:41		18:36		16:48		16:41
25	05:59	06:46	20:07-20:21/14	07:35	19:00-19:10/10	07:24		08:17		08:49
	21:44	20:48		19:39		17:34		16:47		16:42
26	06:01	06:48	20:09-20:20/11	07:37	18:59-19:10/11	07:26		08:19		08:49
	21:43	20:46		19:37		17:32		16:46		16:43
27	06:02	06:49	20:09-20:17/8	07:38	18:58-19:08/10	07:28		08:20		08:49
	21:41	20:44		19:35		17:30		16:45		16:43
28	06:03	06:51	20:11-20:15/4	07:40	18:57-19:05/8	07:30	16:32-16:41/9	08:22		08:49
	21:40	20:42		19:32		17:28		16:44		16:44
29	06:05	06:52		07:41	18:57-19:03/6	07:31	16:30-16:43/13	08:23		08:50
	21:38	20:40		19:30		17:27		16:44		16:45
30	06:06	06:54		07:43	18:55-19:00/5	07:33	16:28-16:45/17	08:25		08:50
	21:37	20:38		19:28		17:25		16:43		16:46
31	06:08	06:56				07:35	16:28-16:46/18			08:50
	21:35	20:36				17:23				16:47
Potential sun hours	498	452		380		333		269		248
Sum of minutes with flicker	0	317		54		90		162		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT01 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (3)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50 16:48	08:24 17:34	07:32 18:25	07:23 20:17	06:20 21:06	05:36 06:24-06:41/17 21:50	05:34 06:37-06:41/4 22:04 06:04-06:10/6	06:09 21:34	06:57 07:26-07:29/3 20:33	07:44 19:25	07:36 17:21	08:26 16:42
2	08:49 16:49	08:22 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:35 06:25-06:41/16 21:52	05:34 06:35-06:41/6 22:04 06:04-06:09/5	06:10 21:32	06:59 07:24-07:30/6 20:31	07:46 19:23	07:38 17:19	08:27 16:41
3	08:49 16:50	08:21 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 06:25-06:40/15 21:53	05:35 06:35-06:43/8 22:04 06:05-06:09/4	06:12 21:30	07:00 07:26-07:31/5 20:29	07:48 19:21	07:40 17:17	08:29 16:41
4	08:49 16:51	08:19 17:40	07:26 18:30	07:16 20:22	06:14 21:11	05:34 06:25-06:40/15 21:54	05:36 06:35-06:44/9 22:03 06:06-06:09/3	06:13 21:29	07:02 07:27-07:31/4 20:27	07:49 19:19	07:42 17:16	08:30 16:40
5	08:49 16:52	08:18 17:42	07:24 18:32	07:14 20:24	06:13 21:13	05:33 06:27-06:40/13 21:55	05:36 06:33-06:44/11 22:03 06:06-06:07/1	06:15 21:27	07:03 07:29-07:30/1 20:24	07:51 19:16	07:43 17:14	08:31 16:40
6	08:49 16:54	08:16 17:43	07:21 18:33	07:12 20:25	06:11 21:14	05:33 06:27-06:39/12 21:56	05:37 06:33-06:45/12 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 17:12	08:33 16:39
7	08:48 16:55	08:14 17:45	07:19 18:35	07:10 07:32-07:33/1 20:27	06:09 21:16	05:32 06:28-06:39/11 21:56	05:38 06:33-06:46/13 22:02	06:18 21:23	07:06 20:20	07:54 19:12	07:47 17:10	08:34 16:39
8	08:48 16:56	08:13 17:47	07:17 18:37	07:08 07:30-07:34/4 20:28	06:07 21:17	05:32 06:28-06:38/10 21:57 06:00-06:02/2	05:39 06:33-06:47/14 22:01	06:19 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 16:39
9	08:47 16:57	08:11 17:49	07:15 18:38	07:05 07:28-07:33/5 20:30	06:06 21:19	05:31 06:29-06:38/9 21:58 06:00-06:03/3	05:40 06:33-06:48/15 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 17:07	08:36 16:38
10	08:47 16:59	08:09 17:51	07:13 18:40	07:03 07:26-07:32/6 20:32	06:04 21:21	05:31 06:31-06:37/6 21:59 06:00-06:04/4	05:41 06:33-06:48/15 22:00	06:23 21:18	07:11 20:13	07:59 19:05	07:52 17:06	08:37 16:38
11	08:46 17:00	08:08 17:53	07:10 18:42	07:01 07:27-07:30/3 20:33	06:02 21:22	05:30 06:31-06:36/5 22:00 05:59-06:04/5	05:42 06:32-06:49/17 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:24	05:30 06:33-06:35/2 22:00 05:59-06:05/6	05:43 06:32-06:49/17 21:58	06:26 21:14	07:14 20:09	08:02 19:01	07:56 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 05:59-06:06/7 22:01	05:44 06:32-06:50/18 21:57	06:27 21:12	07:16 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:04	08:02 17:58	07:04 18:47	06:54 20:38	05:58 06:29-06:34/5 21:27	05:30 05:59-06:06/7 22:01	05:45 06:32-06:50/18 21:56	06:29 21:11	07:17 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:44 17:06	08:00 18:00	07:01 18:49	06:52 20:40	05:56 06:27-06:37/10 21:28	05:29 05:59-06:07/8 22:02	05:46 06:32-06:51/19 21:55	06:30 21:09	07:19 20:02	08:07 18:54	08:01 16:58	08:42 16:38
16	08:43 17:07	07:58 18:02	06:59 18:50	06:50 20:42	05:55 06:26-06:38/12 21:30	05:29 05:59-06:07/8 22:03	05:47 06:32-06:51/19 21:54	06:32 21:07	07:21 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 06:24-06:39/15 21:31	05:29 05:59-06:07/8 22:03	05:49 06:31-06:51/20 21:53	06:33 21:05	07:22 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:54 18:05	06:55 18:54	06:46 20:45	05:52 06:24-06:40/16 21:33	05:29 05:59-06:07/8 22:03	05:50 06:31-06:51/20 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 16:54	08:45 16:39
19	08:40 17:12	07:53 18:07	06:52 18:55	06:44 20:47	05:51 06:23-06:40/17 21:34	05:29 05:59-06:08/9 22:04	05:51 06:31-06:51/20 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:51 18:09	06:50 18:57	06:42 20:48	05:49 06:23-06:41/18 21:35	05:29 05:59-06:08/9 22:04	05:52 06:31-06:51/20 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:15	07:49 18:10	06:48 18:59	06:40 20:50	05:48 06:22-06:41/19 21:37	05:30 05:59-06:08/9 22:04	05:54 06:32-06:52/20 21:49	06:40 20:57	07:28 19:48	08:17 18:42	08:11 16:51	08:47 16:40
22	08:37 17:17	07:47 18:12	06:46 19:00	06:38 20:52	05:47 06:22-06:41/19 21:38	05:30 06:00-06:09/9 22:05	05:55 06:32-06:51/19 21:48	06:41 20:55	07:30 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:45 18:14	06:43 19:02	06:36 20:53	05:45 06:22-06:41/19 21:39	05:30 06:00-06:09/9 22:05	05:56 06:32-06:51/19 21:47	06:43 20:52	07:32 19:43	08:21 18:38	08:14 16:49	08:48 16:41
24	08:35 17:21	07:43 18:16	06:41 19:04	06:34 20:55	05:44 06:22-06:42/20 21:41	05:30 06:00-06:09/9 22:05	05:58 06:33-06:50/17 21:45	06:44 20:50	07:33 19:41	08:23 18:36	08:16 16:48	08:48 16:41
25	08:34 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 06:22-06:42/20 21:42	05:31 06:01-06:09/8 22:05	05:59 06:34-06:51/17 21:44	06:46 20:48	07:35 19:39	08:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 06:22-06:42/20 21:43	05:31 06:01-06:09/8 22:05	06:00 06:34-06:50/16 21:42	06:48 20:46	07:36 19:37	08:26 17:32	08:19 16:46	08:49 16:42
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 06:22-06:42/20 21:45	05:31 06:01-06:09/8 22:05	06:02 06:35-06:49/14 21:41	06:49 20:44	07:38 19:34	08:28 17:30	08:20 16:45	08:49 16:43
28	08:30 17:27	07:34 18:23	06:32 19:10	06:26 21:01	05:40 06:22-06:41/19 21:46	05:32 06:02-06:09/7 22:05	06:03 06:37-06:48/11 21:40	06:51 20:42	07:40 19:32	08:29 17:28	08:22 16:44	08:49 16:44
29	08:28 17:29		07:30 20:12	06:24 21:03	05:39 06:22-06:41/19 21:47	05:32 06:02-06:09/7 22:05	06:05 06:38-06:46/8 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 17:31		07:28 20:14	06:22 21:05	05:38 06:23-06:42/19 21:48	05:33 06:03-06:09/6 22:04	06:06 21:37	06:54 20:38	07:43 19:28	07:33 17:24	08:25 16:43	08:49 16:46
31	08:25 17:33		07:25 20:15		05:37 06:24-06:41/17 21:49		06:07 21:35	06:55 20:35		07:35 17:23		08:50 16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	19	304	295	455	0	19	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT02 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (1)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36	05:34 06:25-06:37/12	06:09	06:57	07:44	07:36	08:26
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35	05:34 06:26-06:36/10	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35 06:27-06:36/9	06:12	07:00 07:31-07:38/7	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16 07:39-07:42/3	06:14	05:34	05:36 06:29-06:35/6	06:13	07:02 07:29-07:38/9	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14 07:37-07:43/6	06:13	05:33	05:36	06:15	07:03 07:29-07:39/10	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12 07:34-07:42/8	06:11	05:33	05:37	06:16	07:05 07:30-07:38/8	07:52	07:45	08:33
	16:54	17:44	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10 07:32-07:42/10	06:09	05:32	05:38	06:18	07:06 07:32-07:38/6	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08 07:32-07:41/9	06:07	05:32 06:24-06:27/3	05:39	06:19	07:08 07:33-07:37/4	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05 07:33-07:40/7	06:06	05:31 06:22-06:30/8	05:40	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:22-06:31/9	05:41	06:23	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:20-06:32/12	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:20-06:33/13	05:43	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:20-06:34/14	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 06:20-06:34/14	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 06:20-06:35/15	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 06:20-06:36/16	05:47	06:32	07:21	08:09	08:02	08:43
	17:08	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 06:20-06:36/16	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29 06:20-06:36/16	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29 06:20-06:37/17	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 06:20-06:37/17	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30 06:20-06:37/17	05:54	06:40	07:28	08:17	08:11	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:21-06:38/17	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:21-06:38/17	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30 06:21-06:38/17	05:58	06:44	07:33	08:23	08:16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31 06:21-06:37/16	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:22-06:38/16	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:43
27	08:31	07:36	06:34	06:28	05:41	05:31 06:22-06:37/15	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32 06:23-06:38/15	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32 06:23-06:37/14	06:05	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33 06:24-06:37/13	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	43	0	327	37	0	44	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT04 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (4)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50 16:48	08:24 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:36 18:54-19:56/62 21:51	05:34 18:58-20:06/68 22:04	06:09 21:34	06:57 20:33	07:44 19:25	07:37 17:21	08:26 16:42
2	08:50 16:49	08:23 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 18:55-19:57/62 21:52	05:34 18:58-20:05/67 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 17:19	08:27 16:41
3	08:49 16:50	08:21 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 18:54-19:57/63 21:53	05:35 18:59-20:06/67 22:04	06:12 21:30	07:00 20:29	07:48 19:21	07:40 17:17	08:29 16:41
4	08:49 16:51	08:19 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 18:54-19:58/64 21:54	05:36 18:59-20:06/67 22:03	06:13 21:29	07:02 20:27	07:49 19:19	07:42 17:16	08:30 16:40
5	08:49 16:52	08:18 17:42	07:24 18:32	07:14 20:24	06:13 21:13	05:33 18:54-19:59/65 21:55	05:37 18:59-20:05/66 22:03	06:15 21:27	07:03 20:24	07:51 19:16	07:43 17:14	08:31 16:40
6	08:49 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 18:54-19:59/65 21:56	05:37 19:00-20:05/65 22:02	06:16 21:25	07:05 20:22	07:53 19:14	07:45 17:12	08:33 16:39
7	08:48 16:55	08:15 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 18:54-20:00/66 21:56	05:38 19:00-20:05/65 22:02	06:18 21:24	07:06 20:20	07:54 19:12	07:47 17:11	08:34 16:39
8	08:48 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 21:17	05:32 18:53-20:00/67 21:57	05:39 19:01-20:05/64 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 17:09	08:35 16:39
9	08:48 16:57	08:11 17:49	07:15 18:39	07:05 20:30	06:06 21:19	05:31 18:54-20:00/66 21:58	05:40 19:02-20:05/63 22:00	06:21 21:20	07:10 20:15	07:57 19:08	07:50 17:07	08:36 16:38
10	08:47 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 18:54-20:01/67 21:59	05:41 19:02-20:05/63 22:00	06:23 21:18	07:11 20:13	07:59 19:05	07:52 17:06	08:37 16:38
11	08:46 17:00	08:08 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:30 18:53-20:01/68 22:00	05:42 19:03-20:04/61 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:24	05:30 18:54-20:01/67 22:00	05:43 19:03-20:04/61 21:58	06:26 21:14	07:14 20:09	08:02 19:01	07:56 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 18:54-20:02/68 22:01	05:44 19:04-20:04/60 21:57	06:27 21:13	07:16 08:13-08:17/4 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 19:16-19:30/14 21:27	05:30 18:54-20:02/68 22:02	05:45 19:04-20:03/59 21:56	06:29 21:11	07:17 08:09-08:20/11 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:44 17:06	08:00 18:00	07:02 18:49	06:52 20:40	05:56 19:12-19:35/23 21:28	05:30 18:54-20:03/69 22:02	05:46 19:05-20:02/57 21:56	06:30 21:09	07:19 08:07-08:22/15 20:02	08:07 18:55	08:01 16:58	08:42 16:38
16	08:43 17:08	07:58 18:02	06:59 18:50	06:50 20:42	05:55 19:10-19:38/28 21:30	05:29 18:54-20:03/69 22:03	05:47 19:06-20:02/56 21:55	06:32 21:07	07:21 08:05-08:22/17 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 19:07-19:39/32 21:31	05:29 18:55-20:03/68 22:03	05:49 19:06-20:01/55 21:54	06:33 21:05	07:22 08:04-08:23/19 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:55 18:05	06:55 07:24-07:32/8 18:54	06:46 20:45	05:52 19:05-19:41/36 21:33	05:29 18:55-20:04/69 22:03	05:50 19:07-20:00/53 21:52	06:35 21:03	07:24 08:03-08:23/20 19:55	08:12 18:48	08:06 16:55	08:45 16:39
19	08:40 17:12	07:53 18:07	06:53 07:21-07:35/14 18:55	06:44 20:47	05:51 19:04-19:43/39 21:34	05:29 18:55-20:04/69 22:04	05:51 19:08-19:59/51 21:51	06:37 21:01	07:25 08:03-08:23/20 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:51 18:09	06:50 07:20-07:36/16 18:57	06:42 20:48	05:49 19:03-19:45/42 21:35	05:29 18:55-20:04/69 22:04	05:52 19:08-19:58/50 21:50	06:38 20:59	07:27 08:03-08:23/20 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:16	07:49 18:11	06:48 07:18-07:36/18 18:59	06:40 20:50	05:48 19:01-19:45/44 21:37	05:30 18:55-20:04/69 22:04	05:54 19:10-19:58/48 21:49	06:40 20:57	07:28 08:02-08:22/20 19:48	08:17 18:42	08:11 16:51	08:47 16:40
22	08:37 17:17	07:47 18:12	06:46 07:17-07:36/19 19:00	06:38 20:52	05:47 19:00-19:47/47 21:38	05:30 18:56-20:05/69 22:05	05:55 19:11-19:57/46 21:48	06:41 20:55	07:30 08:03-08:22/19 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:45 18:14	06:44 07:16-07:37/21 19:02	06:36 20:53	05:45 18:59-19:48/49 21:40	05:30 18:56-20:05/69 22:05	05:56 19:12-19:55/43 21:47	06:43 20:53	07:32 08:03-08:20/17 19:44	08:21 18:38	08:14 16:49	08:48 16:41
24	08:35 17:21	07:43 18:16	06:41 07:16-07:37/21 19:04	06:34 20:55	05:44 18:58-19:49/51 21:41	05:30 18:56-20:05/69 22:05	05:58 19:13-19:54/41 21:45	06:44 20:50	07:33 08:04-08:19/15 19:41	08:23 18:36	08:16 16:48	08:48 16:41
25	08:34 17:22	07:41 18:18	06:39 07:15-07:35/20 19:05	06:32 20:56	05:43 18:58-19:50/52 21:42	05:31 18:56-20:05/69 22:05	05:59 19:15-19:53/38 21:44	06:46 20:48	07:35 08:06-08:16/10 19:39	07:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 07:16-07:35/19 19:07	06:30 20:58	05:42 18:57-19:51/54 21:43	05:31 18:57-20:05/68 22:05	06:00 19:16-19:51/35 21:43	06:48 20:46	07:36 19:37	07:26 17:32	08:19 16:46	08:49 16:43
27	08:31 17:26	07:36 18:21	06:34 07:16-07:34/18 19:09	06:28 21:00	05:41 18:57-19:52/55 21:45	05:31 18:56-20:05/69 22:05	06:02 19:18-19:49/31 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:30 17:27	07:34 18:23	06:32 07:16-07:32/16 19:10	06:26 21:01	05:40 18:56-19:52/56 21:46	05:32 18:57-20:06/69 22:05	06:03 19:21-19:47/26 21:40	06:51 20:42	07:40 19:32	07:30 17:28	08:22 16:44	08:49 16:44
29	08:28 17:29		07:30 08:18-08:30/12 20:12	06:24 21:03	05:39 18:55-19:53/58 21:47	05:32 18:57-20:05/68 22:05	06:05 19:24-19:44/20 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 17:31		07:28 08:21-08:27/6 20:14	06:22 21:05	05:38 18:56-19:55/59 21:48	05:33 18:58-20:06/68 22:04	06:06 19:28-19:38/10 21:37	06:54 20:38	07:43 19:28	07:33 17:25	08:25 16:43	08:50 16:46
31	08:25 17:33		07:25 20:15		05:37 18:55-19:55/60 21:49		06:08 21:35	06:55 20:35		07:35 17:23		08:50 16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	208	0	799	2018	1556	0	207	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32	08:20-08:33/13	07:23	19:02-19:30/28	06:20		05:36	06:04-06:06/2
	16:48	17:35	18:25		20:17		21:06		21:51	
2	08:50	08:23	07:30	08:18-08:35/17	07:21	19:02-19:31/29	06:18	20:20-20:26/6	05:36	06:04-06:07/3
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28	08:16-08:37/21	07:19	19:01-19:31/30	06:16	20:17-20:29/12	05:35	06:03-06:06/3
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26	08:14-08:39/25	07:17	19:01-19:31/30	06:15	20:16-20:31/15	05:34	06:02-06:06/4
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24	08:11-08:39/28	07:14	19:01-19:31/30	06:13	20:14-20:32/18	05:33	06:02-06:06/4
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21	08:10-08:40/30	07:12	19:01-19:30/29	06:11	20:13-20:33/20	05:33	06:01-06:05/4
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19	08:09-08:41/32	07:10	19:01-19:29/28	06:09	20:12-20:34/22	05:32	06:01-06:05/4
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	08:09-08:41/32	07:08	19:02-19:28/26	06:08	20:11-20:34/23	05:32	06:02-06:05/3
	16:56	17:47	18:37		20:29		21:17		21:57	
9	08:48	08:11	07:15	08:08-08:41/33	07:05	19:02-19:28/26	06:06	20:11-20:35/24	05:31	
	16:57	17:49	18:39		20:30		21:19		21:58	
10	08:47	08:09	07:13	08:07-08:41/34	07:03	19:03-19:26/23	06:04	20:10-20:35/25	05:31	
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:46	08:08	07:10	08:07-08:41/34	07:01	19:04-19:24/20	06:03	20:11-20:36/25	05:31	
	17:00	17:53	18:42		20:33		21:22		22:00	
12	08:46	08:06	07:08	08:07-08:40/33	06:59	19:06-19:22/16	06:01	20:10-20:36/26	05:30	
	17:02	17:54	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	08:07-08:40/33	06:57	19:08-19:20/12	05:59	20:11-20:36/25	05:30	
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	08:07-08:39/32	06:55		05:58	20:10-20:36/26	05:30	
	17:05	17:58	18:47		20:38		21:27		22:02	
15	08:44	08:00	07:02	08:07-08:38/31	06:52		05:56	20:11-20:36/25	05:30	
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	08:08-08:37/29	06:50		05:55	20:11-20:36/25	05:29	
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	08:08-08:35/27	06:48		05:53	20:11-20:35/24	05:29	
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	08:09-08:33/24	06:46		05:52	20:12-20:35/23	05:29	
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:53	08:11-08:31/20	06:44		05:51	20:12-20:35/23	05:29	
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50	08:13-08:29/16	06:42		05:49	20:13-20:34/21	05:30	
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48	08:15-08:24/9	06:40		05:48	20:13-20:33/20	05:30	
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46		06:38		05:47	20:14-20:32/18	05:30	
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:44		06:36		05:46	20:16-20:32/16	05:30	
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41		06:34		05:44	20:17-20:31/14	05:30	
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:41	06:39		06:32		05:43	20:18-20:30/12	05:31	
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37	18:15-18:22/7	06:30		05:42	20:20-20:28/8	05:31	
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34	18:11-18:25/14	06:28		05:41	20:22-20:26/4	05:32	
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32	18:08-18:26/18	06:26		05:40		05:32	
	17:28	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	19:06-19:28/22	06:24		05:39		05:33	
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	19:05-19:30/25	06:22		05:38		05:33	
	17:31		20:14		21:05		21:48		22:04	
31	08:26		07:25	19:04-19:31/27			05:37	06:05-06:06/1		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	666		327		501		27	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT05 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (5)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34		06:09	20:21-20:46/25	06:57	19:04-19:24/20	07:44	08:46-09:19/33	07:37	08:26
	22:04		21:34		20:33		19:25		17:21	16:42
2	05:34		06:10	20:20-20:45/25	06:59	19:01-19:24/23	07:46	08:46-09:19/33	07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35		06:12	20:21-20:46/25	07:00	19:00-19:26/26	07:48	08:45-09:19/34	07:40	08:29
	22:04		21:30		20:29		19:21		17:17	16:41
4	05:36		06:13	20:21-20:45/24	07:02	18:59-19:25/26	07:49	08:45-09:18/33	07:42	08:30
	22:03		21:29		20:27		19:19		17:16	16:40
5	05:37	06:07-06:11/4	06:15	20:22-20:45/23	07:03	18:58-19:26/28	07:51	08:46-09:18/32	07:44	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37	06:07-06:11/4	06:16	20:22-20:43/21	07:05	18:57-19:26/29	07:53	08:45-09:17/32	07:45	08:33
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38	06:08-06:12/4	06:18	20:23-20:43/20	07:06	18:57-19:26/29	07:54	08:46-09:16/30	07:47	08:34
	22:02		21:24		20:20		19:12		17:11	16:39
8	05:39	06:09-06:13/4	06:20	20:24-20:41/17	07:08	18:55-19:25/30	07:56	08:47-09:15/28	07:49	08:35
	22:01		21:22		20:18		19:10		17:09	16:39
9	05:40	06:10-06:13/3	06:21	20:25-20:39/14	07:10	18:56-19:25/29	07:57	08:47-09:13/26	07:50	08:36
	22:00		21:20		20:15		19:08		17:07	16:38
10	05:41	06:11-06:14/3	06:23	20:27-20:37/10	07:11	18:55-19:24/29	07:59	08:49-09:12/23	07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42	06:12-06:14/2	06:24		07:13	18:55-19:23/28	08:01	08:51-09:11/20	07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43	06:13-06:15/2	06:26		07:14	18:55-19:22/27	08:02	08:53-09:09/16	07:56	08:39
	21:58		21:14		20:09		19:01		17:03	16:38
13	05:44	06:14-06:15/1	06:27		07:16	18:56-19:21/25	08:04	08:56-09:04/8	07:57	08:40
	21:57		21:13		20:06		18:59		17:01	16:38
14	05:45		06:29		07:17	18:56-19:19/23	08:06		07:59	08:41
	21:56		21:11		20:04		18:57		17:00	16:38
15	05:46		06:30		07:19	18:58-19:17/19	08:07		08:01	08:42
	21:56		21:09		20:02		18:55		16:59	16:38
16	05:48		06:32		07:21	18:59-19:14/15	08:09		08:02	08:43
	21:55		21:07		20:00		18:52		16:57	16:38
17	05:49	20:30-20:37/7	06:33		07:22	19:02-19:11/9	08:11		08:04	08:44
	21:54		21:05		19:57		18:50		16:56	16:38
18	05:50	20:28-20:39/11	06:35		07:24		08:12		08:06	08:45
	21:52		21:03		19:55		18:48		16:55	16:39
19	05:51	20:27-20:40/13	06:37		07:25		08:14		08:07	08:45
	21:51		21:01		19:53		18:46		16:53	16:39
20	05:52	20:26-20:41/15	06:38		07:27		08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54	20:26-20:43/17	06:40		07:28		08:18		08:11	08:47
	21:49		20:57		19:48		18:42		16:51	16:40
22	05:55	20:24-20:43/19	06:41		07:30	09:03-09:07/4	08:19		08:12	08:47
	21:48		20:55		19:46		18:40		16:50	16:40
23	05:56	20:23-20:44/21	06:43		07:32	08:57-09:11/14	08:21		08:14	08:48
	21:47		20:53		19:44		18:38		16:49	16:41
24	05:58	20:22-20:44/22	06:44		07:33	08:55-09:14/19	08:23		08:16	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59	20:23-20:45/22	06:46		07:35	08:52-09:15/23	07:24		08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00	20:22-20:45/23	06:48		07:36	08:51-09:17/26	07:26		08:19	08:49
	21:43		20:46		19:37		17:32		16:46	16:43
27	06:02	20:21-20:46/25	06:49		07:38	08:50-09:18/28	07:28		08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03	20:22-20:46/24	06:51		07:40	08:48-09:18/30	07:30		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:05	20:21-20:46/25	06:52		07:41	08:48-09:19/31	07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06	20:20-20:46/26	06:54	19:09-19:21/12	07:43	08:46-09:19/33	07:33		08:25	08:50
	21:37		20:38		19:28		17:25		16:43	16:46
31	06:08	20:21-20:47/26	06:55	19:05-19:22/17			07:35			08:50
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	323		233		623		348		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 10:51-11:38/47 16:48	08:24 11:17-11:28/11 17:35	07:32 18:25	07:23 19:39-19:49/10 20:17	06:20 19:47-20:12/25 21:06	05:36 21:51
2	08:50 10:51-11:38/47 16:49	08:23 17:36	07:30 18:26	07:21 19:38-19:51/13 20:19	06:18 19:47-20:11/24 21:08	05:36 06:04-06:06/2 21:52
3	08:49 10:52-11:39/47 16:50	08:21 17:38	07:28 18:28	07:19 19:37-19:52/15 20:20	06:16 19:47-20:10/23 21:10	05:35 06:03-06:06/3 21:53
4	08:49 10:52-11:39/47 16:51	08:19 17:40	07:26 18:30	07:17 19:36-19:53/17 20:22	06:15 19:49-20:10/21 21:11	05:34 06:02-06:06/4 21:54
5	08:49 10:52-11:40/48 16:52	08:18 17:42	07:24 18:32	07:14 19:36-19:53/17 20:24	06:13 19:50-20:09/19 21:13	05:33 06:02-06:06/4 21:55
6	08:49 10:52-11:40/48 16:54	08:16 17:44	07:21 17:59-18:02/3 18:33	07:12 19:34-19:52/18 20:25	06:11 19:50-20:07/17 21:14	05:33 06:01-06:06/5 21:56
7	08:48 10:53-11:41/48 16:55	08:15 17:45	07:19 17:56-18:06/10 18:35	07:10 19:35-19:51/16 20:27	06:09 19:53-20:06/13 21:16	05:32 06:01-06:07/6 21:56
8	08:48 10:53-11:41/48 16:56	08:13 17:47	07:17 17:54-18:08/14 18:37	07:08 19:35-19:51/16 20:29	06:08 19:54-20:04/10 21:17	05:32 06:01-06:07/6 21:57
9	08:48 10:54-11:42/48 16:58	08:11 17:49	07:15 17:52-18:08/16 18:39	07:05 19:36-19:50/14 20:30	06:06 21:19	05:31 06:00-06:07/7 21:58
10	08:47 10:54-11:42/48 16:59	08:09 17:51	07:13 17:51-18:09/18 18:40	07:03 19:38-19:48/10 20:32	06:04 21:21	05:31 06:00-06:07/7 21:59
11	08:46 10:54-11:42/48 17:00	08:08 17:53	07:10 17:51-18:09/18 18:42	07:01 19:39-19:44/5 20:34	06:03 21:22	05:31 06:00-06:08/8 22:00
12	08:46 10:56-11:43/47 17:02	08:06 17:54	07:08 17:51-18:09/18 18:44	06:59 20:35	06:01 21:24	05:30 05:59-06:07/8 22:00
13	08:45 10:56-11:43/47 17:03	08:04 17:56	07:06 17:50-18:08/18 18:45	06:57 20:37	05:59 21:25	05:30 05:59-06:07/8 22:01
14	08:44 10:56-11:43/47 17:05	08:02 17:58	07:04 17:51-18:08/17 18:47	06:55 20:38	05:58 21:27	05:30 05:59-06:08/9 22:02
15	08:44 10:57-11:43/46 17:06	08:00 18:00	07:02 17:52-18:07/15 18:49	06:52 20:40	05:56 21:28	05:30 05:59-06:08/9 22:02
16	08:43 10:57-11:43/46 17:08	07:58 18:02	06:59 17:53-18:06/13 18:50	06:50 20:42	05:55 21:30	05:29 05:59-06:08/9 22:03
17	08:42 10:58-11:44/46 17:09	07:57 18:03	06:57 17:55-18:02/7 18:52	06:48 20:43	05:53 21:31	05:29 05:59-06:08/9 22:03
18	08:41 10:58-11:44/46 17:11	07:55 18:05	06:55 18:54	06:46 20:45	05:52 21:33	05:29 05:59-06:08/9 22:03
19	08:40 10:59-11:44/45 17:12	07:53 18:07	06:53 18:55	06:44 19:56-20:06/10 20:47	05:51 21:34	05:29 05:59-06:08/9 22:04
20	08:39 11:00-11:44/44 17:14	07:51 18:09	06:50 18:57	06:42 19:53-20:09/16 20:48	05:49 21:35	05:30 05:59-06:08/9 22:04
21	08:38 11:00-11:43/43 17:16	07:49 18:11	06:48 18:59	06:40 19:52-20:10/18 20:50	05:48 21:37	05:30 05:59-06:08/9 22:04
22	08:37 11:01-11:43/42 17:17	07:47 18:12	06:46 19:00	06:38 19:50-20:11/21 20:52	05:47 21:38	05:30 06:00-06:09/9 22:05
23	08:36 11:02-11:43/41 17:19	07:45 18:14	06:44 19:02	06:36 19:49-20:12/23 20:53	05:46 21:40	05:30 06:00-06:09/9 22:05
24	08:35 11:03-11:43/40 17:21	07:43 18:16	06:41 19:04	06:34 19:48-20:13/25 20:55	05:44 21:41	05:30 06:00-06:09/9 22:05
25	08:34 11:03-11:41/38 17:22	07:41 18:18	06:39 19:05	06:32 19:47-20:13/26 20:57	05:43 21:42	05:31 06:01-06:10/9 22:05
26	08:32 11:05-11:41/36 17:24	07:38 18:19	06:37 19:07	06:30 19:47-20:13/26 20:58	05:42 21:43	05:31 06:01-06:10/9 22:05
27	08:31 11:06-11:39/33 17:26	07:36 18:21	06:35 19:09	06:28 19:46-20:13/27 21:00	05:41 21:45	05:32 06:02-06:11/9 22:05
28	08:30 11:07-11:39/32 17:28	07:34 18:23	06:32 19:10	06:26 19:46-20:13/27 21:01	05:40 21:46	05:32 06:02-06:11/9 22:05
29	08:28 11:08-11:37/29 17:29		07:30 20:12	06:24 19:47-20:13/26 21:03	05:39 21:47	05:33 06:03-06:11/8 22:05
30	08:27 11:11-11:35/24 17:31		07:28 20:14	06:22 19:47-20:13/26 21:05	05:38 21:48	05:33 06:03-06:11/8 22:04
31	08:26 11:13-11:32/19 17:33		07:25 19:44-19:47/3 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1315	11	170	422	152	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT06 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (6)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:12/8 22:04	06:09 21:34	06:57 19:39-19:44/5 20:33	07:44 18:30-18:48/18 19:25	07:37 17:21	08:26 10:36-11:24/48 16:42
2	05:34 06:04-06:12/8 22:04	06:10 21:32	06:59 19:36-19:46/10 20:31	07:46 18:30-18:48/18 19:23	07:38 17:19	08:27 10:37-11:25/48 16:41
3	05:35 06:05-06:12/7 22:04	06:12 21:30	07:00 19:34-19:48/14 20:29	07:48 18:29-18:47/18 19:21	07:40 17:17	08:29 10:37-11:25/48 16:41
4	05:36 06:06-06:13/7 22:03	06:13 20:07-20:11/4 21:29	07:02 19:32-19:48/16 20:27	07:49 18:30-18:46/16 19:19	07:42 17:16	08:30 10:38-11:26/48 16:40
5	05:37 06:07-06:13/6 22:03	06:15 20:04-20:15/11 21:27	07:03 19:32-19:48/16 20:24	07:51 18:30-18:45/15 19:16	07:44 17:14	08:31 10:38-11:26/48 16:40
6	05:37 06:07-06:12/5 22:02	06:17 20:01-20:16/15 21:25	07:05 19:31-19:48/17 20:22	07:53 18:31-18:43/12 19:14	07:45 17:12	08:33 10:38-11:26/48 16:39
7	05:38 06:08-06:13/5 22:02	06:18 20:00-20:18/18 21:24	07:06 19:31-19:48/17 20:20	07:54 18:33-18:41/8 19:12	07:47 17:11	08:34 10:39-11:27/48 16:39
8	05:39 06:09-06:13/4 22:01	06:20 19:59-20:19/20 21:22	07:08 19:30-19:47/17 20:18	07:56 19:10	07:49 17:09	08:35 10:40-11:27/47 16:39
9	05:40 06:10-06:13/3 22:00	06:21 19:57-20:19/22 21:20	07:10 19:31-19:46/15 20:15	07:57 19:08	07:50 17:07	08:36 10:40-11:27/47 16:38
10	05:41 06:11-06:13/2 22:00	06:23 19:57-20:20/23 21:18	07:11 19:31-19:44/13 20:13	07:59 19:05	07:52 10:48-10:59/11 17:06	08:37 10:40-11:28/48 16:38
11	05:42 06:12-06:13/1 21:59	06:24 19:55-20:20/25 21:16	07:13 19:32-19:43/11 20:11	08:01 19:03	07:54 10:45-11:04/19 17:04	08:38 10:41-11:28/47 16:38
12	05:43 21:58	06:26 19:55-20:21/26 21:14	07:14 19:34-19:39/5 20:09	08:02 19:01	07:56 10:42-11:06/24 17:03	08:39 10:41-11:28/47 16:38
13	05:44 21:57	06:27 19:54-20:20/26 21:13	07:16 20:06	08:04 18:59	07:57 10:40-11:09/29 17:01	08:40 10:42-11:29/47 16:38
14	05:45 21:56	06:29 19:54-20:21/27 21:11	07:17 20:04	08:06 18:57	07:59 10:39-11:11/32 17:00	08:41 10:42-11:29/47 16:38
15	05:46 21:56	06:30 19:54-20:20/26 21:09	07:19 20:02	08:07 18:55	08:01 10:38-11:12/34 16:59	08:42 10:43-11:30/47 16:38
16	05:48 21:55	06:32 19:54-20:20/26 21:07	07:21 20:00	08:09 18:52	08:02 10:38-11:14/36 16:57	08:43 10:44-11:30/46 16:38
17	05:49 21:54	06:34 19:53-20:19/26 21:05	07:22 19:57	08:11 18:50	08:04 10:37-11:15/38 16:56	08:44 10:44-11:31/47 16:38
18	05:50 21:52	06:35 19:54-20:19/25 21:03	07:24 19:55	08:12 18:48	08:06 10:37-11:17/40 16:55	08:45 10:44-11:30/46 16:39
19	05:51 21:51	06:37 19:54-20:18/24 21:01	07:25 19:53	08:14 18:46	08:07 10:36-11:17/41 16:53	08:45 10:45-11:31/46 16:39
20	05:52 21:50	06:38 19:55-20:18/23 20:59	07:27 19:50	08:16 18:44	08:09 10:36-11:18/42 16:52	08:46 10:46-11:32/46 16:39
21	05:54 21:49	06:40 19:55-20:16/21 20:57	07:28 19:48	08:18 18:42	08:11 10:36-11:19/43 16:51	08:47 10:46-11:32/46 16:40
22	05:55 21:48	06:41 19:56-20:14/18 20:55	07:30 19:46	08:19 18:40	08:12 10:36-11:20/44 16:50	08:47 10:47-11:33/46 16:40
23	05:56 21:47	06:43 19:57-20:12/15 20:53	07:32 19:44	08:21 18:38	08:14 10:35-11:20/45 16:49	08:48 10:47-11:33/46 16:41
24	05:58 21:45	06:44 20:00-20:10/10 20:50	07:33 19:41	08:23 18:36	08:16 10:35-11:21/46 16:48	08:48 10:47-11:33/46 16:41
25	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 10:36-11:22/46 16:47	08:48 10:48-11:34/46 16:42
26	06:00 21:43	06:48 20:46	07:36 18:39-18:44/5 19:37	07:26 17:32	08:19 10:35-11:22/47 16:46	08:49 10:48-11:35/47 16:43
27	06:02 21:41	06:49 20:44	07:38 18:36-18:47/11 19:34	07:28 17:30	08:20 10:36-11:22/46 16:45	08:49 10:48-11:35/47 16:43
28	06:03 21:40	06:51 20:42	07:40 18:33-18:47/14 19:32	07:30 17:28	08:22 10:36-11:23/47 16:44	08:49 10:49-11:35/46 16:44
29	06:05 21:38	06:52 20:40	07:41 18:32-18:48/16 19:30	07:31 17:26	08:23 10:36-11:23/47 16:43	08:49 10:49-11:36/47 16:45
30	06:06 21:37	06:54 20:38	07:43 18:30-18:48/18 19:28	07:33 17:25	08:25 10:37-11:24/47 16:43	08:50 10:50-11:36/46 16:46
31	06:08 21:35	06:55 20:35		07:35 17:23		08:50 10:50-11:37/47 16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	56	431	220	105	804	1454

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:20-09:31/11	08:24 16:56-17:06/10	07:32 08:12-08:29/17	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:32/12	08:23 16:55-17:07/12	07:30 08:13-08:28/15	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 09:20-09:33/13	08:21 16:55-17:08/13	07:28 08:14-08:26/12	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:19-09:33/14	08:19 16:56-17:09/13	07:26 08:17-08:23/6	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:54/5	20:22	21:11	21:54
5	08:49 09:19-09:34/15	08:18 16:56-17:08/12	07:24 07:47-07:56/9	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:55
6	08:49 09:18-09:35/17	08:16 16:57-17:07/10	07:21 07:44-07:56/12	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:56
7	08:48 09:18-09:36/18	08:15 16:58-17:06/8	07:19 07:43-07:57/14	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:36/19	08:13 17:03-17:04/1	07:17 07:42-07:57/15	07:08	06:08	05:32
	16:56	17:47	18:37	20:29	21:17	21:57
9	08:47 09:18-09:37/19	08:11	07:15 07:42-07:57/15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:18-09:38/20	08:09	07:13 07:42-07:55/13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:21	21:59
11	08:46 09:18-09:38/20	08:08	07:10 07:43-07:54/11	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46 09:20-09:39/19	08:06	07:08 07:44-07:52/8	06:59 07:22-07:23/1	06:01	05:30
	17:02	17:55	18:44	20:35	21:24	22:00
13	08:45 09:21-09:39/18	08:04	07:06 07:29-07:32/3	06:57 07:19-07:22/3	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:22-09:40/18	08:02	07:04 07:26-07:32/6	06:55 07:17-07:21/4	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44 09:22-09:40/18	08:00	07:02 07:24-07:31/7	06:52 07:15-07:19/4	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:23-09:40/17	07:58	06:59 07:23-07:30/7	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:03
17	08:42 09:24-09:40/16	07:56	06:57 07:25-07:28/3	06:48	05:54	05:30
	17:09	18:04	18:52	20:43	21:31	22:03
18	08:41 09:24-09:40/16	07:55	06:55	06:46	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 09:25-09:40/15	07:53	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:26-09:40/14	07:51 08:19-08:25/6	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:27-09:38/11	07:49 08:16-08:27/11	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:29-09:37/8	07:47 08:15-08:29/14	06:46 18:29-18:34/5	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:05
23	08:36 09:32-09:35/3	07:45 08:13-08:30/17	06:44 18:26-18:36/10	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:13-08:31/18	06:41 18:24-18:37/13	06:34	05:44	05:31
	17:21	18:16 17:48-17:50/2	19:04	20:55	21:41	22:05
25	08:34	07:41 08:12-08:31/19	06:39 18:23-18:38/15	06:32	05:43	05:31
	17:22	18:18 17:48-17:52/4	19:05	20:56	21:42	22:05
26	08:32	07:38 08:12-08:31/19	06:37 18:22-18:38/16	06:30	05:42	05:31
	17:24	18:19 17:48-17:54/6	19:07	20:58	21:43	22:05
27	08:31	07:36 08:12-08:31/19	06:35 18:22-18:38/16	06:28	05:41	05:32
	17:26	18:21 17:47-17:55/8	19:09	21:00	21:45	22:05
28	08:30	07:34 08:11-08:30/19	06:32 18:22-18:37/15	06:26	05:40	05:32
	17:28	18:23 17:49-17:54/5	19:10	21:01	21:46	22:05
29	08:28 16:58-16:59/1		07:30 19:22-19:36/14	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 16:57-17:01/4		07:28 19:23-19:35/12	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 16:56-17:03/7		07:26 19:25-19:34/9		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	363	246	303	12	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT08 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (8)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57		07:44	08:24-08:30/6	07:37		08:26	09:00-09:20/20
	22:04	21:34		20:33		19:25	08:09-08:11/2	17:21		16:42	
2	05:34	06:11		06:59		07:46	08:22-08:32/10	07:38		08:27	09:01-09:21/20
	22:04	21:32		20:31		19:23		17:19		16:42	
3	05:35	06:12		07:00		07:48	08:20-08:33/13	07:40	16:30-16:34/4	08:29	09:01-09:20/19
	22:03	21:30		20:29		19:21		17:17		16:41	
4	05:36	06:14		07:02		07:49	08:19-08:33/14	07:42	16:28-16:36/8	08:30	09:02-09:21/19
	22:03	21:29		20:27		19:19		17:16		16:40	
5	05:37	06:15		07:03		07:51	08:19-08:34/15	07:43	16:27-16:37/10	08:31	09:03-09:21/18
	22:03	21:27		20:24		19:16		17:14		16:40	
6	05:38	06:17		07:05		07:53	08:18-08:33/15	07:45	16:26-16:38/12	08:33	09:04-09:21/17
	22:02	21:25		20:22		19:14		17:12		16:40	
7	05:38	06:18		07:07		07:54	08:19-08:32/13	07:47	16:26-16:39/13	08:34	09:06-09:21/15
	22:02	21:24		20:20		19:12		17:11		16:39	
8	05:39	06:20		07:08		07:56	08:21-08:32/11	07:49	16:26-16:39/13	08:35	09:07-09:21/14
	22:01	21:22		20:18		19:10		17:09		16:39	
9	05:40	06:21		07:10		07:57	08:22-08:29/7	07:50	16:26-16:38/12	08:36	09:08-09:21/13
	22:00	21:20		20:15		19:08		17:07		16:39	
10	05:41	06:23		07:11		07:59	08:50-08:59/9	07:52	16:27-16:36/9	08:37	09:09-09:21/12
	22:00	21:18		20:13		19:05	08:24-08:26/2	17:06		16:38	
11	05:42	06:24		07:13		08:01	08:48-09:01/13	07:54	16:27-16:34/7	08:38	09:10-09:21/11
	21:59	21:16		20:11		19:03		17:04		16:38	
12	05:43	06:26		07:14	19:17-19:25/8	08:02	08:47-09:02/15	07:56	16:28-16:32/4	08:39	09:11-09:21/10
	21:58	21:14		20:09		19:01		17:03		16:38	
13	05:44	06:27		07:16	19:15-19:26/11	08:04	08:45-09:02/17	07:57	16:30-16:31/1	08:40	09:12-09:21/9
	21:57	21:13		20:06		18:59	18:24-18:25/1	17:01		16:38	
14	05:45	06:29		07:18	19:13-19:27/14	08:06	08:44-09:03/19	07:59		08:41	09:13-09:21/8
	21:56	21:11		20:04		18:57	18:21-18:28/7	17:00		16:38	
15	05:47	06:30		07:19	19:12-19:27/15	08:07	08:44-09:03/19	08:01		08:42	09:14-09:21/7
	21:55	21:09		20:02		18:55	18:20-18:27/7	16:59		16:38	
16	05:48	06:32		07:21	19:11-19:27/16	08:09	08:44-09:03/19	08:02		08:43	09:15-09:21/6
	21:54	21:07		20:00		18:53	18:19-18:24/5	16:57		16:38	
17	05:49	06:34		07:22	19:11-19:27/16	08:11	08:44-09:02/18	08:04		08:44	09:16-09:21/5
	21:53	21:05		19:57		18:50	18:19-18:22/3	16:56		16:39	
18	05:50	06:35		07:24	19:10-19:25/15	08:12	08:44-09:02/18	08:06		08:45	09:16-09:20/4
	21:52	21:03		19:55		18:48		16:55		16:39	
19	05:51	06:37		07:25	19:11-19:25/14	08:14	08:45-09:01/16	08:07	09:05-09:09/4	08:45	09:17-09:18/1
	21:51	21:01		19:53		18:46		16:53		16:39	
20	05:53	06:38		07:27	19:12-19:23/11	08:16	08:46-09:00/14	08:09	09:04-09:12/8	08:46	
	21:50	20:59		19:50		18:44		16:52		16:39	
21	05:54	06:40		07:29	19:13-19:20/7	08:18	08:48-08:57/9	08:11	09:03-09:14/11	08:47	
	21:49	20:57		19:48		18:42		16:51		16:40	
22	05:55	06:41		07:30		08:19		08:12	09:02-09:16/14	08:47	
	21:48	20:55		19:46		18:40		16:50		16:40	
23	05:56	06:43		07:32		08:21		08:14	09:01-09:16/15	08:48	
	21:47	20:53		19:44		18:38		16:49		16:41	
24	05:58	06:45		07:33		08:23		08:16	09:01-09:17/16	08:48	09:19-09:20/1
	21:45	20:50		19:41		18:36		16:48		16:41	
25	05:59	06:46		07:35		07:24		08:17	09:02-09:18/16	08:48	09:22-09:24/2
	21:44	20:48		19:39		17:34		16:47		16:42	09:20-09:21/1
26	06:01	06:48		07:36		07:26		08:19	09:01-09:18/17	08:49	09:20-09:25/5
	21:43	20:46		19:37		17:32		16:46		16:43	
27	06:02	06:49		07:38	08:05-08:12/7	07:28		08:20	09:02-09:19/17	08:49	09:20-09:26/6
	21:41	20:44		19:34		17:30		16:45		16:43	
28	06:03	06:51	07:17-07:21/4	07:40	08:04-08:12/8	07:30		08:22	09:02-09:20/18	08:49	09:20-09:26/6
	21:40	20:42		19:32		17:28		16:44		16:44	
29	06:05	06:52	07:18-07:22/4	07:41	08:06-08:12/6	07:31		08:23	09:01-09:19/18	08:49	09:20-09:27/7
	21:38	20:40		19:30		17:27		16:44		16:45	
30	06:06	06:54	07:20-07:23/3	07:43	08:08-08:12/4	07:33		08:25	09:01-09:20/19	08:49	09:20-09:28/8
	21:37	20:38		19:28		17:25		16:43		16:46	
31	06:08	06:56	07:21-07:22/1			07:35				08:50	09:20-09:29/9
	21:35	20:35				17:23				16:47	
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	12		152		317		266		273	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 15:29-15:53/24 16:48	08:24 08:57-09:09/12 17:35	07:32 17:35-17:51/16 18:25	07:23 20:17	06:20 21:06	05:36 06:16-06:35/19 21:50 20:17-20:40/23
2	08:49 15:30-15:54/24 16:49	08:22 08:58-09:08/10 17:36	07:30 17:35-17:51/16 18:26	07:21 20:19	06:18 21:08	05:36 06:17-06:36/19 21:52 20:17-20:42/25
3	08:49 15:29-15:54/25 16:50	08:21 08:59-09:06/7 17:38	07:28 17:36-17:50/14 18:28	07:19 20:20	06:16 21:09	05:35 06:16-06:35/19 21:53 20:16-20:43/27
4	08:49 15:30-15:55/25 16:51	08:19 17:40	07:26 17:37-17:49/12 18:30	07:17 20:22	06:15 21:11	05:34 06:16-06:35/19 21:54 20:15-20:43/28
5	08:49 15:30-15:56/26 16:53	08:18 17:42	07:24 17:39-17:46/7 18:32	07:14 20:24	06:13 21:13	05:34 06:17-06:35/18 21:55 20:15-20:44/29
6	08:49 15:30-15:56/26 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 06:17-06:35/18 21:55 20:14-20:45/31
7	08:48 15:31-15:57/26 16:55	08:14 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 06:18-06:35/17 21:56 20:14-20:46/32
8	08:48 15:31-15:57/26 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 21:17	05:32 06:19-06:36/17 21:57 20:13-20:46/33
9	08:47 15:32-15:58/26 16:58	08:11 17:49	07:15 18:39	07:05 20:30	06:06 21:19	05:31 06:18-06:35/17 21:58 20:14-20:47/33
10	08:47 15:32-15:58/26 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 21:21	05:31 06:19-06:35/16 21:59 20:14-20:48/34
11	08:46 15:32-15:58/26 17:00	08:08 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 06:20-06:35/15 22:00 20:14-20:49/35
12	08:46 15:32-15:59/27 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:24	05:30 06:19-06:35/16 22:00 20:13-20:48/35
13	08:45 15:33-16:00/27 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 06:20-06:35/15 22:01 20:13-20:49/36
14	08:44 15:34-16:00/26 17:05	08:02 08:26-08:28/2 17:58	07:04 18:47	06:55 20:38	05:58 21:27	05:30 06:20-06:35/15 22:01 20:14-20:49/35
15	08:44 15:34-16:00/26 17:06	08:00 08:24-08:27/3 18:00	07:02 18:49	06:52 20:40	05:56 21:28	05:30 06:21-06:35/14 22:02 20:14-20:50/36
16	08:43 15:35-16:00/25 17:08	07:58 08:22-08:26/4 18:02	06:59 18:50	06:50 20:42	05:55 21:30	05:30 06:21-06:35/14 22:03 20:14-20:50/36
17	08:42 15:35-16:00/25 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 06:22-06:35/13 22:03 20:14-20:51/37
18	08:41 15:36-16:00/24 17:11	07:55 18:05	06:55 07:17-07:19/2 18:54	06:46 20:45	05:52 21:32	05:29 06:22-06:35/13 22:03 20:14-20:51/37
19	08:40 15:37-16:00/23 17:12	07:53 18:07	06:53 07:15-07:20/5 18:55	06:44 20:47	05:51 06:21-06:29/8 21:34	05:30 06:22-06:35/13 22:04 20:14-20:51/37
20	08:39 15:37-15:59/22 17:14	07:51 18:09	06:50 07:13-07:20/7 18:57	06:42 20:48	05:49 06:20-06:30/10 21:35	05:30 06:22-06:35/13 22:04 20:14-20:51/37
21	08:38 15:38-15:59/21 17:16	07:49 18:11	06:48 07:10-07:19/9 18:59	06:40 20:50	05:48 06:19-06:32/13 21:37	05:30 06:22-06:35/13 22:04 20:14-20:51/37
22	08:37 15:40-15:59/19 17:17	07:47 08:10-08:11/1 18:12	06:46 07:08-07:18/10 19:00	06:38 20:52	05:47 06:17-06:32/15 21:38	05:30 06:23-06:36/13 22:04 20:15-20:52/37
23	08:36 15:41-15:59/18 17:19 09:03-09:04/1	07:45 17:41-17:46/5 18:14 08:08-08:12/4	06:44 07:10-07:17/7 19:02 07:06-07:09/3	06:36 20:53	05:46 06:17-06:32/15 21:39	05:30 06:23-06:36/13 22:05 20:15-20:52/37
24	08:35 15:43-15:57/14 17:21 09:02-09:06/4	07:43 17:39-17:49/10 18:16 08:06-08:12/6	06:41 07:04-07:09/5 19:04	06:34 20:55	05:44 06:16-06:33/17 21:41	05:30 06:23-06:36/13 22:05 20:15-20:52/37
25	08:34 15:46-15:56/10 17:22 09:00-09:06/6	07:40 17:37-17:51/14 18:18 08:04-08:12/8	06:39 07:01-07:07/6 19:05	06:32 20:56	05:43 06:16-06:34/18 21:42	05:31 06:24-06:37/13 22:05 20:16-20:53/37
26	08:32 15:51-15:52/1 17:24 08:59-09:08/9	07:38 17:36-17:52/16 18:19 08:02-08:12/10	06:37 07:02-07:04/2 19:07	06:30 20:58	05:42 06:16-06:34/18 21:43	05:31 06:23-06:37/14 22:05 20:16-20:53/37
27	08:31 08:57-09:08/11 17:26	07:36 17:35-17:51/16 18:21 08:03-08:11/8	06:34 19:09	06:28 21:00	05:41 06:15-06:34/19 21:45 20:25-20:31/6	05:32 06:24-06:38/14 22:05 20:16-20:52/36
28	08:30 08:56-09:09/13 17:28	07:34 17:35-17:51/16 18:23 08:04-08:08/4	06:32 19:10	06:26 21:01	05:40 06:15-06:34/19 21:46 20:22-20:34/12	05:32 06:24-06:38/14 22:05 20:17-20:53/36
29	08:28 08:55-09:09/14 17:29		07:30 20:12	06:24 21:03	05:39 06:16-06:35/19 21:47 20:21-20:37/16	05:33 06:24-06:39/15 22:05 20:16-20:52/36
30	08:27 08:55-09:09/14 17:31		07:28 20:14	06:22 21:05	05:38 06:16-06:35/19 21:48 20:19-20:38/19	05:33 06:24-06:39/15 22:04 20:17-20:53/36
31	08:25 08:56-09:09/13 17:33		07:25 20:15		05:37 06:16-06:35/19 21:49 20:18-20:39/21	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	673	156	121	0	283	1479

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT10 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (10)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:24-06:40/16	06:09	06:57	07:44	07:36	08:26 15:14-15:40/26
	22:04 20:18-20:53/35	21:34	20:33	19:25	17:21	16:42
2	05:34 06:23-06:39/16	06:11	06:59	07:46	07:38	08:27 15:15-15:41/26
	22:04 20:18-20:52/34	21:32	20:31	19:23	17:19	16:41
3	05:35 06:24-06:40/16	06:12	07:00	07:48	07:40	08:29 15:15-15:41/26
	22:03 20:19-20:52/33	21:30	20:29	19:21	17:17	16:41
4	05:36 06:24-06:41/17	06:14	07:02	07:49	07:42	08:30 15:16-15:42/26
	22:03 20:20-20:52/32	21:29	20:27	19:19	17:16	16:40
5	05:37 06:24-06:41/17	06:15	07:03	07:51	07:43	08:31 15:16-15:42/26
	22:03 20:19-20:51/32	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:41/18	06:17	07:05	07:53	07:45	08:33 15:16-15:42/26
	22:02 20:20-20:51/31	21:25	20:22	19:14	17:12	16:39
7	05:38 06:24-06:42/18	06:18	07:06	07:54	07:47	08:34 15:16-15:42/26
	22:02 20:21-20:51/30	21:23	20:20	19:12	17:11	16:39
8	05:39 06:24-06:42/18	06:20	07:08	07:56 18:17-18:20/3	07:49 08:29-08:37/8	08:35 15:18-15:43/25
	22:01 20:22-20:51/29	21:22	20:18	19:10	17:09	16:39
9	05:40 06:24-06:43/19	06:21	07:10	07:57 18:12-18:22/10	07:50 08:28-08:39/11	08:36 15:18-15:43/25
	22:00 20:23-20:50/27	21:20	20:15	19:08	17:07	16:39
10	05:41 06:24-06:43/19	06:23	07:11	07:59 18:11-18:24/13	07:52 08:28-08:40/12	08:37 15:19-15:43/24
	22:00 20:24-20:50/26	21:18	20:13	19:05	17:06	16:38
11	05:42 06:24-06:43/19	06:24	07:13	08:01 18:10-18:25/15	07:54 08:27-08:41/14	08:38 15:19-15:43/24
	21:59 20:25-20:49/24	21:16	20:11	19:03	17:04	16:38
12	05:43 06:24-06:44/20	06:26	07:14	08:02 18:08-18:24/16	07:56 08:26-08:40/14	08:39 15:20-15:43/23
	21:58 20:26-20:48/22	21:14	20:09	19:01	17:03	16:38
13	05:44 06:24-06:44/20	06:27	07:16	08:04 18:08-18:25/17	07:57 08:27-08:41/14	08:40 15:20-15:44/24
	21:57 20:27-20:47/20	21:12	20:06	18:59	17:01	16:38
14	05:45 06:24-06:44/20	06:29	07:17	08:06 18:08-18:25/17	07:59 08:28-08:41/13	08:41 15:21-15:44/23
	21:56 20:28-20:46/18	21:11	20:04	18:57 08:36-08:42/6	17:00	16:38
15	05:46 06:25-06:44/19	06:30	07:19	08:07 18:08-18:24/16	08:01 08:30-08:41/11	08:42 15:22-15:44/22
	21:55 20:30-20:45/15	21:09	20:02	18:55 08:34-08:44/10	16:59	16:38
16	05:48 06:25-06:44/19	06:32	07:21	08:09 18:08-18:22/14	08:02 15:23-15:25/2	08:43 15:22-15:45/23
	21:54 20:32-20:42/10	21:07	20:00	18:52 08:35-08:44/9	16:57 08:32-08:41/9	16:38
17	05:49 06:25-06:44/19	06:34	07:22	08:11 18:09-18:21/12	08:04 15:19-15:30/11	08:44 15:23-15:46/23
	21:53	21:05	19:57	18:50 08:36-08:44/8	16:56 08:34-08:40/6	16:38
18	05:50 06:25-06:43/18	06:35	07:24 07:49-07:55/6	08:12 18:11-18:19/8	08:06 15:17-15:31/14	08:45 15:23-15:45/22
	21:52	21:03	19:55	18:48 08:38-08:44/6	16:55 08:36-08:40/4	16:39
19	05:51 06:25-06:43/18	06:37	07:25 07:50-07:55/5	08:14 08:40-08:43/3	08:07 15:15-15:33/18	08:45 15:24-15:46/22
	21:51	21:01	19:53	18:46	16:53 08:37-08:38/1	16:39
20	05:52 06:27-06:43/16	06:38	07:27 07:57-08:03/6	08:16	08:09 15:15-15:34/19	08:46 15:25-15:47/22
	21:50	20:59	19:50 07:52-07:55/3	18:44	16:52	16:39
21	05:54 06:27-06:43/16	06:40	07:28 07:55-08:04/9	08:17	08:11 15:14-15:35/21	08:46 15:25-15:47/22
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51	16:40
22	05:55 06:28-06:42/14	06:41	07:30 07:55-08:05/10	08:19	08:12 15:14-15:36/22	08:47 15:26-15:48/22
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56 06:29-06:41/12	06:43	07:32 07:56-08:04/8	08:21	08:14 15:13-15:36/23	08:48 15:26-15:48/22
	21:46	20:52	19:44	18:38	16:49	16:41
24	05:58 06:31-06:40/9	06:44	07:33 07:58-08:04/6	08:23	08:15 15:13-15:37/24	08:48 15:26-15:48/22
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:33-06:38/5	06:46	07:35 08:00-08:03/3	07:24	08:17 15:13-15:38/25	08:48 15:27-15:49/22
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:57/4	08:19 15:13-15:38/25	08:49 15:27-15:49/22
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28 07:54-07:57/3	08:20 15:13-15:39/26	08:49 15:27-15:50/23
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:30 07:56-07:58/2	08:22 15:14-15:40/26	08:49 15:27-15:50/23
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41	07:31	08:23 15:13-15:40/27	08:49 15:28-15:51/23
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54	07:43	07:33	08:25 15:14-15:41/27	08:49 15:28-15:51/23
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56		07:35		08:49 15:28-15:52/24
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	836	0	57	192	427	732

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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NL-1082 MS Amsterdam
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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT11 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 13:30-13:54/24	08:24	07:32 17:12-17:37/25	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 13:31-13:54/23	08:22	07:30 17:12-17:37/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:52
3	08:49 13:32-13:53/21	08:21	07:28 17:13-17:36/23	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 13:33-13:53/20	08:19	07:26 17:14-17:36/22	07:17	06:15	05:34
	16:51	17:40	18:30 07:49-07:51/2	20:22	21:11	21:54
5	08:49 13:35-13:53/18	08:18	07:24 17:14-17:34/20	07:14	06:13	05:33
	16:52	17:42	18:32 07:46-07:50/4	20:24	21:13	21:55
6	08:49 13:37-13:51/14	08:16	07:21 17:16-17:32/16	07:12	06:11 06:36-06:39/3	05:33
	16:54	17:44	18:33 07:44-07:49/5	20:25	21:14	21:55
7	08:48 13:40-13:51/11	08:14	07:19 17:18-17:30/12	07:10	06:09 06:34-06:40/6	05:32
	16:55	17:45	18:35 07:43-07:48/5	20:27	21:16	21:56
8	08:48 13:44-13:47/3	08:13	07:17 17:22-17:26/4	07:08	06:08 06:32-06:41/9	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15	07:05	06:06 06:31-06:42/11	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13	07:03	06:04 06:29-06:42/13	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08 08:32-08:33/1	07:10	07:01	06:03 06:29-06:42/13	05:31
	17:00	17:53	18:42	20:33	21:22	22:00
12	08:46	08:06 08:30-08:34/4	07:08	06:59	06:01 06:28-06:42/14	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45	08:04 08:28-08:34/6	07:06	06:57	05:59 06:28-06:42/14	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44	08:02 08:26-08:34/8	07:04	06:55	05:58 06:28-06:41/13	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00 08:24-08:34/10	07:02	06:52	05:56 06:29-06:41/12	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:23-08:33/10	06:59	06:50	05:55 06:30-06:40/10	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:25-08:31/6	06:57	06:48	05:53 06:30-06:39/9	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54	06:55	06:46	05:52 06:32-06:37/5	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40	07:53	06:53	06:44	05:51	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 17:22-17:28/6	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49 17:18-17:31/13	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47 17:17-17:33/16	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:52	21:38	22:04
23	08:36	07:45 17:15-17:35/20	06:44 07:06-07:07/1	06:36	05:46	05:30
	17:19	18:14 08:08-08:09/1	19:02	20:53	21:39	22:05
24	08:35	07:43 17:14-17:36/22	06:41 07:04-07:07/3	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 17:14-17:37/23	06:39 07:01-07:06/5	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 17:13-17:38/25	06:37 06:59-07:04/5	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 17:12-17:37/25	06:34 06:57-06:58/1	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 17:12-17:37/25	06:32 06:55-06:57/2	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	134	221	180	0	132	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT11 - ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (2)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December	
1	05:34		06:09	06:38-06:52/14	06:57		07:44		07:36	08:26	
	22:04		21:34		20:33		19:25		17:21	16:42	
2	05:34		06:11	06:39-06:53/14	06:59		07:46		07:38	08:27	
	22:04		21:32		20:31		19:23		17:19	16:41	
3	05:35		06:12	06:40-06:52/12	07:00		07:48		07:40	08:29	
	22:03		21:30		20:29		19:21		17:17	16:41	
4	05:36		06:13	06:41-06:51/10	07:02		07:49		07:42	08:30	
	22:03		21:29		20:27		19:19		17:16	16:40	
5	05:37		06:15	06:43-06:51/8	07:03		07:51		07:43	08:31	13:25-13:35/10
	22:03		21:27		20:24		19:16		17:14	16:40	
6	05:37		06:17	06:44-06:49/5	07:05		07:52	17:55-18:05/10	07:45	08:33	13:23-13:37/14
	22:02		21:25		20:22		19:14		17:12	16:39	
7	05:38		06:18	06:46-06:47/1	07:06		07:54	17:53-18:07/14	07:47	08:34	13:21-13:39/18
	22:02		21:23		20:20		19:12	08:19-08:25/6	17:11	16:39	
8	05:39		06:20		07:08		07:56	17:51-18:09/18	07:49	08:35	13:21-13:41/20
	22:01		21:22		20:18		19:10	08:21-08:26/5	17:09	16:39	
9	05:40		06:21		07:10		07:57	17:48-18:09/21	07:50	08:36	13:21-13:42/21
	22:00		21:20		20:15		19:08	08:22-08:25/3	17:07	16:38	
10	05:41		06:23		07:11		07:59	17:47-18:10/23	07:52	08:37	13:20-13:43/23
	22:00		21:18		20:13		19:05	08:24-08:25/1	17:06	16:38	
11	05:42		06:24		07:13		08:01	17:47-18:11/24	07:54	08:38	13:20-13:44/24
	21:59		21:16		20:11		19:03		17:04	16:38	
12	05:43		06:26		07:14		08:02	17:45-18:10/25	07:56	08:39	13:20-13:45/25
	21:58		21:14		20:09		19:01		17:03	16:38	
13	05:44		06:27		07:16		08:04	17:45-18:10/25	07:57	08:40	13:20-13:46/26
	21:57		21:12		20:06		18:59		17:01	16:38	
14	05:45		06:29		07:17		08:06	17:45-18:10/25	07:59	08:41	13:20-13:46/26
	21:56		21:11		20:04		18:57		17:00	16:38	
15	05:46		06:30		07:19	07:44-07:45/1	08:07	17:45-18:10/25	08:01	08:42	13:20-13:47/27
	21:55		21:09		20:02		18:55		16:59	16:38	
16	05:48		06:32		07:21	07:45-07:47/2	08:09	17:44-18:09/25	08:02	08:43	13:20-13:48/28
	21:54		21:07		19:59		18:52		16:57	16:38	09:34-09:36/2
17	05:49		06:34		07:22	07:47-07:52/5	08:11	17:45-18:08/23	08:04	08:44	13:21-13:49/28
	21:53		21:05		19:57		18:50		16:56	16:38	09:34-09:37/3
18	05:50		06:35		07:24	07:49-07:54/5	08:12	17:46-18:07/21	08:06	08:45	13:21-13:49/28
	21:52		21:03		19:55		18:48	08:38-08:39/1	16:55	16:39	09:33-09:38/5
19	05:51		06:37		07:25	07:50-07:54/4	08:14	17:47-18:06/19	08:07	08:45	13:21-13:50/29
	21:51		21:01		19:53		18:46		16:53	16:39	09:34-09:39/5
20	05:52		06:38		07:27	07:52-07:54/2	08:16	17:47-18:03/16	08:09	08:46	13:22-13:51/29
	21:50		20:59		19:50		18:44		16:52	16:39	09:34-09:40/6
21	05:54		06:40		07:28		08:17	17:50-18:01/11	08:11	08:46	13:22-13:51/29
	21:49		20:57		19:48		18:42		16:51	16:40	09:34-09:40/6
22	05:55		06:41		07:30		08:19	17:54-17:57/3	08:12	08:47	13:23-13:52/29
	21:48		20:55		19:46		18:40		16:50	16:40	09:35-09:41/6
23	05:56		06:43		07:32		08:21		08:14	08:47	13:23-13:52/29
	21:46		20:52		19:44		18:38		16:49	16:41	09:35-09:41/6
24	05:58		06:44		07:33		08:23	08:57-09:00/3	08:15	08:48	13:23-13:52/29
	21:45		20:50		19:41		18:36		16:48	16:41	09:36-09:41/5
25	05:59	06:45-06:46/1	06:46		07:35		07:24	07:55-08:02/7	08:17	08:48	13:24-13:53/29
	21:44		20:48		19:39		17:34		16:47	16:42	09:37-09:42/5
26	06:00	06:42-06:49/7	06:48		07:36		07:26	07:54-08:04/10	08:19	08:49	13:25-13:53/28
	21:42		20:46		19:37		17:32		16:46	16:43	09:38-09:41/3
27	06:02	06:40-06:50/10	06:49		07:38		07:28	07:54-08:03/9	08:20	08:49	13:25-13:53/28
	21:41		20:44		19:34		17:30		16:45	16:43	09:39-09:41/2
28	06:03	06:40-06:51/11	06:51		07:40		07:29	07:56-08:04/8	08:22	08:49	13:26-13:53/27
	21:40		20:42		19:32		17:28		16:44	16:44	
29	06:05	06:39-06:52/13	06:52		07:41		07:31	07:58-08:04/6	08:23	08:49	13:27-13:53/26
	21:38		20:40		19:30		17:26		16:43	16:45	
30	06:06	06:38-06:52/14	06:54		07:43		07:33	08:00-08:03/3	08:25	08:49	13:27-13:53/26
	21:37		20:38		19:28		17:25		16:43	16:46	
31	06:08	06:39-06:53/14	06:55				07:35			08:49	13:28-13:54/26
	21:35		20:35				17:23			16:47	
Potential sun hours	498		451		380		333		269	248	
Sum of minutes with flicker	70		64		19		390		0	736	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April		May	June
1	08:50		08:24	16:12-16:51/39	07:32		07:23	19:38-19:51/13	06:20	05:36
	16:48		17:35		18:25		20:17		21:06	21:51
2	08:50		08:23	16:11-16:51/40	07:30		07:21	19:39-19:53/14	06:18	05:36
	16:49		17:36		18:26		20:19		21:08	21:52
3	08:49		08:21	16:11-16:52/41	07:28		07:19	19:41-19:55/14	06:16	05:35
	16:50		17:38		18:28		20:20		21:10	21:53
4	08:49		08:19	16:11-16:53/42	07:26		07:17	19:47-19:57/10	06:15	05:34
	16:51		17:40		18:30		20:22		21:11	21:54
5	08:49		08:18	16:11-16:53/42	07:24		07:14	19:46-19:58/12	06:13	05:33
	16:53		17:42		18:32		20:24		21:13	21:55
6	08:49		08:16	16:10-16:53/43	07:21		07:12	19:44-19:59/15	06:11	05:33
	16:54		17:44		18:33		20:25		21:14	21:56
7	08:48		08:15	16:10-16:53/43	07:19		07:10	19:44-20:01/17	06:09	05:32
	16:55		17:45		18:35		20:27		21:16	21:57
8	08:48		08:13	16:11-16:54/43	07:17		07:08	19:44-20:03/19	06:08	05:32
	16:56		17:47		18:37		20:29		21:17	21:57
9	08:48		08:11	16:11-16:54/43	07:15		07:05	19:44-20:03/19	06:06	05:31
	16:58		17:49		18:39		20:30		21:19	21:58
10	08:47		08:09	16:11-16:54/43	07:13		07:03	19:44-20:03/19	06:04	05:31
	16:59		17:51		18:40		20:32		21:21	21:59
11	08:47		08:08	16:11-16:53/42	07:11	18:14-18:17/3	07:01	19:44-20:01/17	06:03	05:31
	17:00		17:53		18:42		20:34		21:22	22:00
12	08:46		08:06	16:12-16:53/41	07:08	18:13-18:19/6	06:59	19:45-19:59/14	06:01	05:30
	17:02		17:54		18:44		20:35		21:24	22:00
13	08:45		08:04	16:12-16:52/40	07:06	18:11-18:20/9	06:57	19:47-19:58/11	05:59	05:30
	17:03		17:56		18:45		20:37		21:25	22:01
14	08:45		08:02	16:13-16:52/39	07:04	18:11-18:22/11	06:55	19:50-19:54/4	05:58	05:30
	17:05		17:58		18:47		20:38		21:27	22:02
15	08:44		08:00	16:13-16:51/38	07:02	18:11-18:24/13	06:52		05:56	05:30
	17:06		18:00		18:49		20:40		21:28	22:02
16	08:43		07:58	16:14-16:50/36	06:59	18:11-18:26/15	06:50		05:55	05:30
	17:08		18:02		18:50		20:42		21:30	22:03
17	08:42		07:57	16:15-16:49/34	06:57	18:11-18:25/14	06:48		05:53	05:29
	17:09		18:03		18:52		20:43		21:31	22:03
18	08:41		07:55	16:17-16:48/31	06:55	18:13-18:24/11	06:46		05:52	05:29
	17:11		18:05		18:54		20:45		21:33	22:04
19	08:40		07:53	16:18-16:47/29	06:53	18:15-18:22/7	06:44		05:51	05:29
	17:12		18:07		18:55		20:47		21:34	22:04
20	08:39		07:51	16:21-16:45/24	06:50		06:42		05:49	05:30
	17:14		18:09		18:57		20:48		21:35	22:04
21	08:38	16:22-16:33/11	07:49	16:23-16:43/20	06:48		06:40		05:48	05:30
	17:16		18:11		18:59		20:50		21:37	22:04
22	08:37	16:20-16:36/16	07:47	16:26-16:40/14	06:46		06:38		05:47	05:30
	17:17		18:12		19:00		20:52		21:38	22:05
23	08:36	16:19-16:39/20	07:45		06:44		06:36		05:46	05:30
	17:19		18:14		19:02		20:53		21:40	22:05
24	08:35	16:18-16:41/23	07:43		06:41		06:34		05:44	05:30
	17:21		18:16		19:04		20:55		21:41	22:05
25	08:34	16:16-16:42/26	07:41		06:39		06:32		05:43	05:31
	17:22		18:18		19:05		20:57		21:42	22:05
26	08:32	16:15-16:44/29	07:39		06:37		06:30		05:42	05:31
	17:24		18:19		19:07		20:58		21:43	22:05
27	08:31	16:14-16:45/31	07:36		06:35	18:40-18:44/4	06:28		05:41	05:32
	17:26		18:21		19:09		21:00		21:45	22:05
28	08:30	16:14-16:47/33	07:34		06:32	18:38-18:45/7	06:26		05:40	05:32
	17:28		18:23		19:10		21:01		21:46	22:05
29	08:28	16:13-16:48/35			07:30	19:38-19:47/9	06:24		05:39	05:33
	17:29				20:12		21:03		21:47	22:05
30	08:27	16:13-16:49/36			07:28	19:38-19:49/11	06:22		05:38	05:33
	17:31				20:14		21:05		21:48	22:05
31	08:26	16:12-16:50/38			07:26	19:38-19:50/12			05:37	
	17:33				20:15				21:49	
Potential sun hours	262		279		367		415		482	495
Sum of minutes with flicker	298		807		132		198		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT12 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (11)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57 19:44-20:01/17	07:44 18:52-18:58/6	07:37 15:41-16:23/42	08:26
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34	06:11	06:59 19:42-20:01/19	07:46 18:52-18:56/4	07:38 15:41-16:23/42	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00 19:42-20:01/19	07:48 18:53-18:54/1	07:40 15:41-16:24/43	08:29
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02 19:41-20:00/19	07:49	07:42 15:40-16:23/43	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03 19:41-19:58/17	07:51	07:44 15:40-16:23/43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05 19:40-19:55/15	07:53	07:45 15:41-16:23/42	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:07 19:41-19:54/13	07:54	07:47 15:41-16:22/41	08:34
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08 19:41-19:51/10	07:56	07:49 15:42-16:22/40	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10 19:35-19:49/14	07:57	07:51 15:42-16:22/40	08:36
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11 19:32-19:46/14	07:59	07:52 15:43-16:22/39	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 19:31-19:44/13	08:01	07:54 15:44-16:21/37	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:29-19:42/13	08:02	07:56 15:44-16:20/36	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:29-19:40/11	08:04	07:57 15:45-16:19/34	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:18 19:28-19:37/9	08:06	07:59 15:46-16:19/33	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 19:29-19:35/6	08:07	08:01 15:47-16:18/31	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 19:28-19:33/5	08:09	08:03 15:48-16:17/29	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49	06:34	07:22 19:30-19:31/1	08:11	08:04 15:50-16:16/26	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12	08:06 15:52-16:15/23	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14 17:02-17:07/5	08:08 15:53-16:13/20	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16 16:56-17:12/16	08:09 15:55-16:11/16	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29	08:18 16:53-17:14/21	08:11 15:58-16:09/11	08:47
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 16:50-17:16/26	08:12	08:47
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 16:48-17:18/30	08:14	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 18:59-19:04/5	08:23 16:47-17:19/32	08:16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35 18:56-19:06/10	07:24 15:46-16:20/34	08:17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36 18:54-19:07/13	07:26 15:45-16:21/36	08:19	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38 18:53-19:08/15	07:28 15:43-16:21/38	08:20	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40 18:52-19:05/13	07:30 15:42-16:21/39	08:22	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:50-19:56/6	07:41 18:52-19:03/11	07:31 15:42-16:22/40	08:23	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:48-19:59/11	07:43 18:51-19:00/9	07:33 15:41-16:23/42	08:25	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:45-19:59/14		07:35 15:41-16:23/42		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	0	31	291	412	711	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 17:51-17:59/8 18:25	07:23 20:17	06:20 20:36-20:38/2 21:06	05:36 20:33-20:56/23 21:51
2	08:50 16:14-16:15/1 16:49	08:23 17:36	07:30 17:52-18:01/9 18:27	07:21 20:19	06:18 20:35-20:40/5 21:08	05:36 20:35-20:56/21 21:52
3	08:49 16:13-16:17/4 16:50	08:21 17:38	07:28 17:53-18:01/8 18:28	07:19 20:20	06:16 20:34-20:41/7 21:10	05:35 20:35-20:56/21 21:53
4	08:49 16:12-16:17/5 16:51	08:19 17:40	07:26 18:30	07:17 20:22	06:15 20:34-20:43/9 21:11	05:34 20:35-20:55/20 21:54
5	08:49 16:12-16:19/7 16:53	08:18 17:42	07:24 18:32	07:14 20:24	06:13 20:34-20:44/10 21:13	05:34 20:37-20:55/18 21:55
6	08:49 16:11-16:20/9 16:54	08:16 17:44	07:21 18:33	07:12 20:25	06:11 20:34-20:45/11 21:14	05:33 20:37-20:54/17 21:56
7	08:48 16:11-16:22/11 16:55	08:15 17:45	07:19 18:35	07:10 20:27	06:09 20:34-20:47/13 21:16	05:32 20:38-20:54/16 21:57
8	08:48 16:10-16:23/13 16:56	08:13 17:47	07:17 18:37	07:08 20:29	06:08 20:34-20:48/14 21:18	05:32 20:38-20:53/15 21:57
9	08:48 16:11-16:25/14 16:58	08:11 17:49	07:15 18:39	07:06 20:30	06:06 20:34-20:50/16 21:19	05:31 20:40-20:53/13 21:58
10	08:47 16:10-16:26/16 16:59	08:09 17:51	07:13 18:40	07:03 20:32	06:04 20:32-20:51/19 21:21	05:31 20:41-20:53/12 21:59
11	08:47 16:10-16:27/17 17:00	08:08 17:53	07:11 18:15-18:17/2 18:42	07:01 20:34	06:03 20:32-20:53/21 21:22	05:31 20:42-20:53/11 22:00
12	08:46 16:11-16:29/18 17:02	08:06 17:55	07:08 18:15-18:19/4 18:44	06:59 20:35	06:01 20:31-20:54/23 21:24	05:30 20:42-20:52/10 22:00
13	08:45 16:11-16:31/20 17:03	08:04 17:56	07:06 18:14-18:20/6 18:45	06:57 20:37	05:59 20:30-20:56/26 21:25	05:30 20:43-20:51/8 22:01
14	08:45 16:10-16:32/22 17:05	08:02 17:58	07:04 18:14-18:22/8 18:47	06:55 20:38	05:58 20:29-20:57/28 21:27	05:30 20:45-20:51/6 22:02
15	08:44 16:10-16:34/24 17:06	08:00 18:00	07:02 18:14-18:24/10 18:49	06:52 20:40	05:56 20:29-20:59/30 21:28	05:30 20:46-20:50/4 22:02
16	08:43 16:11-16:35/24 17:08	07:58 18:02	06:59 18:14-18:26/12 18:50	06:50 20:42	05:55 20:29-21:00/31 21:30	05:30 22:03
17	08:42 16:11-16:35/24 17:09	07:57 18:04	06:57 18:14-18:27/13 18:52	06:48 20:43	05:54 20:29-21:01/32 21:31	05:29 22:03
18	08:41 16:11-16:36/25 17:11	07:55 18:05	06:55 18:14-18:28/14 18:54	06:46 20:45	05:52 20:29-21:02/33 21:33	05:29 22:04
19	08:40 16:11-16:36/25 17:12	07:53 18:07	06:53 18:16-18:27/11 18:55	06:44 20:47	05:51 20:29-21:04/35 21:34	05:30 22:04
20	08:39 16:12-16:37/25 17:14	07:51 18:09	06:50 18:18-18:25/7 18:57	06:42 20:48	05:49 20:29-21:06/37 21:35	05:30 22:04
21	08:38 16:11-16:36/25 17:16	07:49 18:11	06:48 18:59	06:40 20:50	05:48 20:28-21:06/38 21:37	05:30 22:04
22	08:37 16:12-16:37/25 17:17	07:47 18:12	06:46 19:00	06:38 20:52	05:47 20:59-21:06/7 21:38 20:29-20:58/29	05:30 22:05
23	08:36 16:13-16:37/24 17:19	07:45 18:14	06:44 19:02	06:36 20:53	05:46 21:01-21:04/3 21:40 20:29-20:58/29	05:30 22:05
24	08:35 16:14-16:37/23 17:21	07:43 18:16	06:41 19:04	06:34 20:55	05:44 20:29-20:58/29 21:41	05:30 22:05
25	08:34 16:14-16:37/23 17:22	07:41 18:18	06:39 19:05	06:32 20:57	05:43 20:30-20:58/28 21:42	05:31 22:05
26	08:32 16:15-16:37/22 17:24	07:39 17:52-17:54/2 18:20	06:37 19:07	06:30 20:58	05:42 20:30-20:58/28 21:43	05:31 22:05
27	08:31 16:15-16:36/21 17:26	07:36 17:52-17:56/4 18:21	06:35 19:09	06:28 21:00	05:41 20:31-20:57/26 21:45	05:32 20:49-20:51/2 22:05
28	08:30 16:17-16:36/19 17:28	07:34 17:51-17:57/6 18:23	06:32 19:10	06:26 21:01	05:40 20:31-20:57/26 21:46	05:32 20:48-20:53/5 22:05
29	08:28 16:18-16:34/16 17:29		07:30 20:12	06:24 21:03	05:39 20:32-20:58/26 21:47	05:33 20:47-20:54/7 22:05
30	08:27 16:20-16:34/14 17:31		07:28 20:14	06:22 21:05	05:38 20:33-20:57/24 21:48	05:33 20:47-20:55/8 22:05
31	08:26 16:22-16:31/9 17:33		07:26 20:15		05:37 20:33-20:57/24 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	525	12	112	0	719	237

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT13 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (12)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 20:47-20:57/10	06:09 20:41-21:04/23	06:57	07:44 18:54-18:58/4	07:37	08:26 15:52-16:09/17
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 20:45-20:57/12	06:11 20:43-21:03/20	06:59	07:46 18:54-18:56/2	07:38	08:27 15:54-16:09/15
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 20:45-20:58/13	06:12 20:43-21:01/18	07:00	07:48	07:40	08:29 15:54-16:08/14
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 20:45-20:59/14	06:14 20:44-20:59/15	07:02	07:49	07:42	08:30 15:56-16:08/12
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 20:44-20:59/15	06:15 20:45-20:58/13	07:03	07:51	07:44	08:31 15:56-16:07/11
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 20:44-21:00/16	06:17 20:44-20:56/12	07:05	07:53	07:45	08:33 15:57-16:06/9
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 20:43-21:01/18	06:18 20:44-20:55/11	07:07	07:54	07:47	08:34 15:59-16:06/7
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 20:43-21:02/19	06:20 20:43-20:53/10	07:08	07:56	07:49	08:35 16:00-16:05/5
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 20:43-21:03/20	06:21 20:43-20:51/8	07:10	07:58	07:51	08:36 16:01-16:05/4
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41 20:42-21:04/22	06:23 20:44-20:50/6	07:11	07:59 18:29-18:34/5	07:52	08:37 16:03-16:05/2
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 20:42-21:04/22	06:24 20:44-20:48/4	07:13	08:01 18:26-18:36/10	07:54 15:54-16:03/9	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 20:42-21:05/23	06:26 20:45-20:46/1	07:14	08:02 18:24-18:33/9	07:56 15:51-16:05/14	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 20:41-21:05/24	06:27	07:16	08:04 18:24-18:31/7	07:57 15:50-16:06/16	08:40
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45 20:41-21:06/25	06:29	07:18	08:06 18:24-18:29/5	07:59 15:49-16:08/19	08:41
	21:57	21:11	20:04	18:57	17:00	16:38
15	05:46 20:41-21:06/25	06:30	07:19	08:07 18:24-18:27/3	08:01 15:48-16:09/21	08:42
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48 20:40-21:07/27	06:32	07:21	08:09	08:03 15:48-16:10/22	08:43
	21:55	21:07	20:00	18:53	16:57	16:38
17	05:49 20:40-21:07/27	06:34	07:22	08:11	08:04 15:48-16:11/23	08:44
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50 20:39-21:07/28	06:35	07:24	08:12	08:06 15:48-16:11/23	08:45
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51 20:39-21:07/28	06:37	07:25	08:14	08:08 15:47-16:11/24	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52 20:40-21:08/28	06:38	07:27	08:16	08:09 15:47-16:12/25	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54 21:10-21:16/6	06:40	07:29	08:18	08:11 15:47-16:12/25	08:47
	21:49 20:39-21:08/29	20:57	19:48	18:42	16:51	16:40
22	05:55 21:09-21:17/8	06:41	07:30	08:19	08:12 15:48-16:13/25	08:47
	21:48 20:39-21:08/29	20:55	19:46	18:40	16:50	16:40
23	05:56 20:39-21:16/37	06:43	07:32 19:02-19:08/6	08:21	08:14 15:47-16:12/25	08:48
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58 20:39-21:14/35	06:45	07:33 19:00-19:10/10	08:23	08:16 15:48-16:13/25	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 20:39-21:14/35	06:46	07:35 18:57-19:11/14	07:24	08:17 15:49-16:13/24	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 20:39-21:12/33	06:48	07:36 18:57-19:10/13	07:26	08:19 15:49-16:13/24	08:49
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02 20:39-21:11/32	06:49	07:38 18:56-19:08/12	07:28	08:20 15:49-16:13/24	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 20:40-21:10/30	06:51	07:40 18:55-19:05/10	07:30	08:22 15:51-16:12/21	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 20:40-21:08/28	06:52	07:41 18:55-19:03/8	07:31	08:23 15:51-16:11/20	08:49
	21:38	20:40	19:30	17:27	16:44	16:45
30	06:06 20:40-21:07/27	06:54	07:43 18:54-19:00/6	07:33	08:25 15:52-16:10/18	08:50
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08 20:41-21:06/25	06:56		07:35		08:50
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	770	141	79	45	427	96

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 15:46-16:59/73 17:35	07:32 18:25	07:23 20:17	06:20 18:40-19:55/75 21:06 07:06-07:47/41	05:37 18:43-19:58/75 21:51 20:58-21:19/21
2	08:50 16:49	08:23 15:46-16:58/72 17:37	07:30 18:27	07:21 20:19	06:18 18:40-19:56/76 21:08 07:06-07:46/40	05:36 18:45-19:58/73 21:52 20:59-21:20/21
3	08:49 16:50	08:21 15:46-16:58/72 17:38	07:28 18:28	07:19 20:20	06:17 18:40-19:57/77 21:10 07:07-07:47/40	05:35 18:45-19:58/73 21:53 20:59-21:21/22
4	08:49 16:51	08:19 15:47-16:58/71 17:40	07:26 18:30	07:17 20:22	06:15 18:39-19:57/78 20:42-20:43/1 21:11 07:07-07:46/39	05:34 18:45-19:57/72 21:54 20:58-21:21/23
5	08:49 16:53	08:18 15:47-16:58/71 17:42	07:24 18:32	07:14 20:24	06:13 18:38-19:57/79 20:41-20:44/3 21:13 07:07-07:45/38	05:34 18:46-19:58/72 21:55 20:59-21:22/23
6	08:49 16:54	08:16 15:47-16:57/70 17:44	07:22 18:33	07:12 20:25	06:11 18:39-19:58/79 20:40-20:46/6 21:14 07:07-07:45/38	05:33 18:46-19:57/71 21:56 20:59-21:21/22
7	08:48 16:55	08:15 16:36-16:56/20 17:46 15:47-16:35/48	07:19 18:35	07:10 20:27	06:09 18:38-19:58/80 20:39-20:47/8 21:16 07:07-07:44/37	05:32 18:47-19:58/71 21:56 20:59-21:22/23
8	08:48 16:56	08:13 16:38-16:56/18 17:47 15:48-16:35/47	07:17 18:37	07:08 20:01-20:03/2 20:29	06:08 18:38-19:57/79 20:39-20:48/9 21:17 07:08-07:43/35	05:32 18:48-19:58/70 21:57 21:00-21:23/23
9	08:48 16:58	08:11 16:40-16:54/14 17:49 15:49-16:35/46	07:15 18:39	07:06 20:01-20:05/4 20:30	06:06 18:38-19:58/80 20:39-20:50/11 21:19 07:09-07:43/34	05:31 18:47-19:58/71 21:58 20:59-21:22/23
10	08:47 15:58-16:08/10 16:59	08:09 16:42-16:51/9 17:51 15:49-16:34/45	07:13 18:40	07:03 20:02-20:06/4 20:32	06:04 18:37-19:58/81 20:39-20:51/12 21:21 07:09-07:42/33	05:31 18:48-19:58/70 21:59 21:00-21:23/23
11	08:46 15:56-16:11/15 17:00	08:08 15:50-16:34/44 17:53	07:11 18:15-18:17/2 18:42	07:01 20:03-20:08/5 20:34	06:03 18:38-19:58/80 20:39-20:53/14 21:22 07:10-07:41/31	05:31 18:49-19:58/69 22:00 21:00-21:23/23
12	08:46 15:55-16:14/19 17:02	08:06 15:50-16:33/43 17:55	07:08 18:15-18:19/4 18:44	06:59 20:04-20:07/3 20:35	06:01 18:37-19:58/81 20:39-20:54/15 21:24 07:10-07:39/29	05:30 18:48-19:58/70 22:00 21:00-21:22/22
13	08:45 15:54-16:15/21 17:03	08:04 15:51-16:32/41 17:56	07:06 18:15-18:20/5 18:45	06:57 19:17-19:24/7 20:37	06:00 18:38-19:58/80 20:40-20:54/14 21:25 07:12-07:39/27	05:30 18:49-19:58/69 22:01 21:00-21:23/23
14	08:45 15:53-16:17/24 17:05	08:02 15:52-16:31/39 17:58	07:04 18:18-18:21/3 18:47	06:55 19:09-19:32/23 20:39	05:58 18:37-19:58/81 20:41-20:52/11 21:27 07:12-07:37/25	05:30 18:50-19:58/68 22:02 21:01-21:23/22
15	08:44 15:52-16:19/27 17:06	08:00 15:53-16:30/37 18:00	07:02 18:49	06:53 19:05-19:36/31 20:40	05:57 18:38-19:58/80 20:42-20:52/10 21:28 07:14-07:36/22	05:30 18:50-19:58/68 22:02 21:01-21:23/22
16	08:43 15:51-16:20/29 17:08	07:58 15:55-16:29/34 18:02	06:59 18:51	06:50 19:02-19:38/36 20:42 07:26-07:35/9	05:55 18:38-19:59/81 20:44-20:51/7 21:30 07:16-07:35/19	05:30 18:50-19:58/68 22:03 21:01-21:24/23
17	08:42 15:50-16:22/32 17:09	07:57 15:57-16:27/30 18:04	06:57 18:52	06:48 18:59-19:41/42 20:43 07:22-07:39/17	05:54 18:38-19:58/80 21:31 07:17-07:32/15	05:30 18:51-19:59/68 22:03 21:02-21:24/22
18	08:41 15:50-16:23/33 17:11	07:55 15:59-16:26/27 18:05	06:55 18:54	06:46 18:57-19:43/46 20:45 07:19-07:41/22	05:52 18:38-19:58/80 21:33 07:20-07:29/9	05:30 18:51-19:59/68 22:03 21:02-21:24/22
19	08:40 15:49-16:25/36 17:12	07:53 16:02-16:23/21 18:07	06:53 18:56	06:44 18:55-19:44/49 20:47 07:17-07:42/25	05:51 18:39-19:59/80 21:34	05:30 18:51-19:59/68 22:04 21:02-21:24/22
20	08:39 16:39-16:43/4 17:14 15:49-16:26/37	07:51 16:05-16:20/15 18:09	06:50 18:57	06:42 18:53-19:46/53 20:48 07:15-07:44/29	05:49 18:39-19:59/80 21:35	05:30 18:51-19:59/68 22:04 21:02-21:24/22
21	08:38 16:36-16:44/8 17:16 15:48-16:26/38	07:49 17:42-17:44/2 18:11	06:48 18:59	06:40 18:51-19:47/56 20:50 07:13-07:45/32	05:48 18:40-19:59/79 21:37	05:30 18:51-19:59/68 22:04 21:02-21:24/22
22	08:37 16:35-16:46/11 17:17 15:48-16:28/40	07:47 17:42-17:46/4 18:12	06:46 19:01	06:38 18:49-19:49/60 20:52 07:12-07:45/33	05:47 18:39-19:58/79 21:38 21:04-21:07/3	05:30 18:52-20:00/68 22:05 21:03-21:25/22
23	08:36 16:35-16:48/13 17:19 15:48-16:29/41	07:45 17:42-17:48/6 18:14	06:44 19:02	06:36 18:48-19:50/62 20:53 07:11-07:46/35	05:46 18:40-19:58/78 21:40 21:02-21:09/7	05:30 18:52-20:00/68 22:05 21:03-21:25/22
24	08:35 16:34-16:50/16 17:21 15:48-16:30/42	07:43 17:43-17:50/7 18:16	06:41 19:04	06:34 18:47-19:51/64 20:55 07:10-07:46/36	05:44 18:40-19:58/78 21:41 21:01-21:10/9	05:31 18:52-20:00/68 22:05 21:03-21:25/22
25	08:34 16:33-16:51/18 17:22 15:47-16:30/43	07:41 17:45-17:50/5 18:18	06:39 19:06	06:32 18:45-19:51/66 20:57 07:09-07:47/38	05:43 18:40-19:58/78 21:42 21:01-21:11/10	05:31 18:53-20:01/68 22:05 21:04-21:26/22
26	08:32 16:33-16:54/21 17:24 15:47-16:32/45	07:39 18:20	06:37 19:07	06:30 18:44-19:52/68 20:58 07:08-07:47/39	05:42 18:41-19:58/77 21:43 21:00-21:12/12	05:31 18:52-20:00/68 22:05 21:04-21:26/22
27	08:31 15:46-16:55/69 17:26	07:36 18:21	06:35 19:09	06:28 18:43-19:53/70 21:00 07:07-07:47/40	05:41 18:41-19:58/77 21:45 20:59-21:13/14	05:32 18:53-20:01/68 22:05 21:04-21:26/22
28	08:30 15:46-16:57/71 17:28	07:34 18:23	06:32 19:10	06:26 18:43-19:54/71 21:01 07:08-07:48/40	05:40 18:42-19:58/76 21:46 20:59-21:14/15	05:32 18:53-20:01/68 22:05 21:04-21:26/22
29	08:28 15:46-16:59/73 17:29		07:30 20:12	06:24 18:42-19:55/73 21:03 07:07-07:48/41	05:39 18:43-19:58/75 21:47 20:59-21:16/17	05:33 18:53-20:02/69 22:05 21:05-21:27/22
30	08:27 15:46-16:59/73 17:31		07:28 20:14	06:22 18:41-19:55/74 21:05 07:07-07:47/40	05:38 18:43-19:58/75 21:48 20:59-21:17/18	05:33 18:53-20:02/69 22:04 21:04-21:27/23
31	08:26 15:46-16:58/72 17:33		07:26 20:15		05:37 18:43-19:58/75 21:49 20:59-21:18/19	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	981	1031	14	1445	3231	2752

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT15 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (13)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 18:53-20:02/69	06:09 18:48-20:08/80 20:50-21:04/14	06:57 20:01-20:07/6	07:45 18:54-18:58/4	07:37 16:11-16:22/11	08:26 15:38-15:53/15
	22:04 21:05-21:27/22	21:34 07:20-07:50/30	20:33	19:25	17:21 15:19-16:04/45	16:42
2	05:35 18:52-20:02/70	06:11 18:48-20:09/81 20:50-21:03/13	06:59 20:00-20:04/4	07:46 18:54-18:56/2	07:38 16:09-16:24/15	08:27 15:41-15:52/11
	22:04 21:04-21:27/23	21:32 07:20-07:52/32	20:31	19:23	17:19 15:18-16:05/47	16:42
3	05:35 18:53-20:03/70	06:12 18:48-20:08/80 20:49-21:01/12	07:00 19:59-20:03/4	07:48 18:53-18:54/1	07:40 16:08-16:26/18	08:29
	22:04 21:05-21:27/22	21:30 07:19-07:52/33	20:29	19:21	17:18 15:18-16:05/47	16:41
4	05:36 18:53-20:03/70	06:14 18:47-20:07/80 20:49-20:59/10	07:02 19:58-20:00/2	07:49	07:42 15:17-16:26/69	08:30
	22:03 21:05-21:28/23	21:29 07:19-07:54/35	20:27	19:19	17:16	16:40
5	05:37 18:53-20:04/71	06:15 18:48-20:08/80 20:49-20:58/9	07:03	07:51	07:44 15:17-16:27/70	08:31
	22:03 21:06-21:28/22	21:27 07:18-07:54/36	20:24	19:17	17:14	16:40
6	05:38 18:52-20:04/72	06:17 18:48-20:07/79 20:49-20:56/7	07:05	07:53	07:45 15:17-16:28/71	08:33
	22:02 21:05-21:28/23	21:25 07:17-07:54/37	20:22	19:14	17:12	16:40
7	05:38 18:52-20:04/72	06:18 18:48-20:07/79 20:50-20:55/5	07:07	07:54	07:47 15:17-16:28/71	08:34
	22:02 21:05-21:28/23	21:24 07:17-07:55/38	20:20	19:12	17:11	16:39
8	05:39 18:52-20:05/73	06:20 18:48-20:06/78 20:50-20:53/3	07:08	07:56	07:49 15:17-16:29/72	08:35
	22:01 21:06-21:28/22	21:22 07:16-07:55/39	20:18	19:10	17:09	16:39
9	05:40 18:52-20:05/73	06:21 18:49-20:06/77	07:10	07:58	07:51 15:17-16:29/72	08:36
	22:00 21:06-21:28/22	21:20 07:16-07:56/40	20:15	19:08	17:08	16:39
10	05:41 18:52-20:05/73	06:23 18:48-20:05/77	07:11	07:59	07:52 15:17-16:30/73	08:37
	22:00 21:06-21:28/22	21:18 07:15-07:55/40	20:13	19:05	17:06	16:38
11	05:42 18:52-20:06/74	06:24 18:49-20:05/76	07:13	08:01	07:54 15:18-16:30/72	08:38
	21:59 21:07-21:27/20	21:16 07:16-07:56/40	20:11	19:03	17:04	16:38
12	05:43 18:52-20:06/74	06:26 18:49-20:04/75	07:14	08:02	07:56 15:17-16:30/73	08:39
	21:58 21:07-21:27/20	21:14 07:15-07:55/40	20:09	19:01	17:03	16:38
13	05:44 18:52-20:06/74	06:27 18:49-20:03/74	07:16	08:04	07:57 15:18-16:31/73	08:40
	21:57 21:07-21:26/19	21:13 07:14-07:55/41	20:06	18:59	17:01	16:38
14	05:45 18:51-20:07/76	06:29 18:50-20:02/72	07:18	08:06	07:59 15:18-16:29/71	08:41
	21:56 21:08-21:25/17	21:11 07:15-07:55/40	20:04	18:57	17:00	16:38
15	05:47 18:51-20:07/76	06:31 18:50-20:01/71	07:19	08:07	08:01 15:19-16:28/69	08:42
	21:56 21:08-21:24/16	21:09 07:14-07:54/40	20:02	18:55	16:59	16:38
16	05:48 18:51-20:07/76	06:32 18:51-20:00/69	07:21	08:09	08:03 16:06-16:27/21	08:43
	21:55 21:09-21:23/14	21:07 07:15-07:54/39	20:00	18:53	16:57 15:20-16:05/45	16:38
17	05:49 18:51-20:07/76	06:34 18:51-19:59/68	07:22	08:11 18:15-18:22/7	08:04 16:07-16:25/18	08:44
	21:54 21:09-21:22/13	21:05 07:15-07:53/38	19:57	18:50	16:56 15:21-16:04/43	16:39
18	05:50 18:50-20:07/77	06:35 18:52-19:58/66	07:24	08:13 18:14-18:20/6	08:06 16:08-16:24/16	08:45
	21:53 21:10-21:21/11	21:03 07:16-07:53/37	19:55	18:48	16:55 15:22-16:04/42	16:39
19	05:51 18:50-20:07/77	06:37 18:53-19:56/63	07:25	08:14 18:13-18:18/5	08:08 16:09-16:22/13	08:45
	21:51 21:10-21:20/10	21:01 07:16-07:52/36	19:53	18:46	16:54 15:22-16:03/41	16:39
20	05:53 18:50-20:09/79	06:38 18:54-19:55/61	07:27	08:16 18:13-18:17/4	08:09 16:10-16:21/11	08:46
	21:50 21:12-21:20/8	20:59 07:17-07:52/35	19:50	18:44	16:52 15:23-16:03/40	16:39
21	05:54 18:50-20:08/78	06:40 18:54-19:53/59	07:29	08:18 18:12-18:14/2	08:11 16:12-16:20/8	08:47
	21:49 21:13-21:18/5	20:57 07:17-07:50/33	19:48	18:42 16:40-16:46/6	16:51 15:24-16:02/38	16:40
22	05:55 18:50-20:08/78	06:41 18:56-19:52/56	07:30	08:19 16:34-16:51/17	08:12 16:15-16:19/4	08:47
	21:48 21:15-21:17/2	20:55 07:18-07:49/31	19:46	18:40	16:50 15:25-16:02/37	16:40
23	05:56 18:49-20:08/79	06:43 18:57-19:49/52	07:32	08:21 16:31-16:54/23	08:14 15:26-16:01/35	08:48
	21:47	20:53 07:19-07:47/28	19:44	18:38	16:49	16:41
24	05:58 18:50-20:09/79	06:45 18:59-19:48/49	07:33	08:23 16:29-16:57/28	08:16 15:27-16:00/33	08:48
	21:45	20:50 07:21-07:46/25	19:41	18:36	16:48	16:41
25	05:59 18:49-20:09/80	06:46 19:00-19:45/45	07:35	07:24 15:27-15:58/31	08:17 15:28-16:00/32	08:48
	21:44 07:34-07:37/3	20:48 07:22-07:43/21	19:39	17:34	16:47	16:42
26	06:01 18:49-20:09/80	06:48 19:02-19:43/41	07:37	07:26 15:25-16:00/35	08:19 15:29-15:58/29	08:49
	21:43 07:29-07:41/12	20:46 07:25-07:41/16	19:37	17:32	16:46	16:43
27	06:02 18:48-20:08/80 20:55-20:59/4	06:49 19:04-19:40/36	07:38	07:28 15:23-16:00/37	08:20 15:31-15:58/27	08:49
	21:41 07:28-07:44/16	20:44 07:28-07:36/8	19:35	17:30	16:45	16:44
28	06:03 18:49-20:09/80 20:54-21:02/8	06:51 19:07-19:37/30	07:40	07:30 15:22-16:01/39	08:22 15:33-15:57/24	08:49
	21:40 07:26-07:46/20	20:42	19:32	17:28	16:44	16:44
29	06:05 18:48-20:09/81 20:52-21:03/11	06:52 19:10-19:32/22	07:41	07:31 15:21-16:02/41	08:23 15:34-15:56/22	08:49
	21:38 07:24-07:47/23	20:40	19:30	17:27	16:44	16:45
30	06:06 18:48-20:08/80 20:51-21:03/12	06:54 19:19-19:24/5	07:43 18:56-19:00/4	07:33 15:20-16:03/43	08:25 15:36-15:55/19	08:50
	21:37 07:23-07:49/26	20:38	19:28	17:25	16:43	16:46
31	06:08 18:48-20:09/81 20:50-21:04/14	06:56 20:04-20:07/3		07:35 15:19-16:04/45		08:50
	21:35 07:22-07:50/28	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	2904	2865	20	376	1637	26

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 14:50-15:34/44	08:24 08:58-09:29/31	07:32	07:23 19:36-19:52/16	06:20 07:00-07:25/25	05:37
	16:48 12:37-13:24/47	17:35 17:03-17:05/2	18:25	20:17	21:06	21:51
2	08:50 14:51-15:35/44	08:23 08:57-09:29/32	07:30	07:21 19:34-19:53/19	06:18 07:00-07:24/24	05:36
	16:49 12:38-13:24/46	17:37 17:04-17:07/3	18:27	20:19	21:08	21:52
3	08:49 14:52-15:35/43	08:21 08:56-09:29/33	07:28	07:19 19:33-19:55/22	06:17 07:02-07:24/22	05:35
	16:50 12:39-13:25/46	17:38 17:06-17:07/1	18:28	20:20	21:10	21:53
4	08:49 14:52-15:35/43	08:19 08:57-09:31/34	07:26	07:17 19:33-19:57/24	06:15 07:02-07:22/20	05:34
	16:51 12:39-13:24/45	17:40	18:30	20:22	21:11	21:54
5	08:49 14:53-15:36/43	08:18 08:56-09:31/35	07:24	07:14 19:33-19:58/25	06:13 07:03-07:20/17	05:34
	16:53 12:40-13:24/44	17:42	18:32	20:24	21:13	21:55
6	08:49 14:53-15:35/42	08:16 08:56-09:31/35	07:22	07:12 19:32-19:56/24	06:11 07:06-07:19/13	05:33
	16:54 12:41-13:24/43	17:44	18:33	20:25	21:14	21:56
7	08:48 14:54-15:36/42	08:15 08:55-09:31/36	07:19	07:10 19:32-19:55/23	06:09 07:08-07:16/8	05:32
	16:55 12:42-13:24/42	17:46	18:35	20:27	21:16	21:56
8	08:48 14:54-15:36/42	08:13 08:56-09:32/36	07:17	07:08 19:32-19:54/22	06:08	05:32
	16:56 12:43-13:23/40	17:47	18:37	20:29	21:17	21:57
9	08:48 14:55-15:37/42	08:11 08:56-09:32/36	07:15	07:06 19:33-19:53/20	06:06	05:32
	16:58 12:45-13:24/39	17:49	18:39	20:30	21:19	21:58
10	08:47 14:55-15:37/42	08:09 08:56-09:31/35	07:13	07:03 19:34-19:52/18	06:04	05:31
	16:59 12:46-13:23/37	17:51	18:40	20:32	21:21	21:59
11	08:46 14:56-15:37/41	08:08 08:56-09:31/35	07:11	07:01 19:35-19:51/16	06:03	05:31
	17:00 12:47-13:22/35	17:53	18:42	20:34	21:22	22:00
12	08:46 14:57-15:37/40	08:06 08:57-09:31/34	07:08	06:59 19:36-19:48/12	06:01	05:30
	17:02 12:49-13:22/33	17:55	18:44	20:35	21:24	22:00
13	08:45 14:58-15:37/39	08:04 08:57-09:30/33	07:06	06:57 19:40-19:44/4	06:00	05:30
	17:03 12:51-13:21/30	17:56	18:45	20:37	21:25	22:01
14	08:44 14:58-15:37/39	08:02 08:58-09:29/31	07:04	06:55	05:58	05:30
	17:05 12:53-13:20/27	17:58	18:47	20:38	21:27	22:02
15	08:44 14:59-15:37/38	08:00 08:58-09:28/30	07:02	06:53	05:57	05:30
	17:06 12:55-13:18/23	18:00	18:49	20:40	21:28	22:02
16	08:43 15:00-15:37/37	07:58 08:59-09:27/28	06:59 18:25-18:26/1	06:50	05:55	05:30
	17:08 12:58-13:15/17	18:02	18:51	20:42	21:30	22:03
17	08:42 15:01-15:37/36	07:57 09:00-09:26/26	06:57 18:24-18:27/3	06:48 07:11-07:22/11	05:54	05:30
	17:09 13:07-13:10/3	18:04	18:52	20:43	21:31	22:03
18	08:41 15:02-15:37/35	07:55 09:02-09:24/22	06:55 18:25-18:29/4	06:46 07:09-07:24/15	05:52	05:30
	17:11	18:05	18:54	20:45	21:33	22:03
19	08:40 15:03-15:36/33	07:53 09:04-09:21/17	06:53 18:26-18:31/5	06:44 07:07-07:25/18	05:51	05:30
	17:13	18:07	18:56	20:47	21:34	22:04
20	08:39 15:05-15:36/31	07:51 09:07-09:18/11	06:50	06:42 07:05-07:26/21	05:49	05:30
	17:14	18:09 17:40-17:42/2	18:57	20:48	21:35	22:04
21	08:38 15:05-15:35/30	07:49 17:42-17:44/2	06:48	06:40 07:03-07:27/24	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 15:07-15:34/27	07:47	06:46	06:38 07:02-07:27/25	05:47	05:30
	17:17	18:13	19:01	20:52	21:38	22:05
23	08:36 15:09-15:33/24	07:45	06:44	06:36 07:01-07:28/27	05:46	05:30
	17:19	18:14	19:02	20:53	21:40	22:05
24	08:35 15:12-15:32/20	07:43	06:41	06:34 07:00-07:28/28	05:45	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:34 15:14-15:30/16	07:41	06:39	06:32 07:00-07:28/28	05:43	05:31
	17:23 09:06-09:17/11	18:18	19:06	20:57	21:42	22:05
26	08:32 15:19-15:27/8	07:39	06:37	06:30 06:59-07:27/28	05:42	05:31
	17:24 09:04-09:20/16	18:20	19:07	20:58	21:43	22:05
27	08:31 09:02-09:22/20	07:36	06:35	06:28 06:59-07:27/28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 09:01-09:24/23	07:34	06:32	06:26 07:00-07:28/28	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:00-09:25/25		07:30 19:42-19:47/5	06:24 07:00-07:27/27	05:39	05:33
	17:29		20:12	21:03	21:47	22:05
30	08:27 08:59-09:27/28		07:28 19:39-19:49/10	06:22 07:00-07:26/26	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:26 08:58-09:27/29		07:26 19:37-19:50/13		05:37	
	17:33 17:01-17:03/2		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1672	620	41	579	129	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: KLZ_WT16 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (14)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August		September		October		November		December	
1	05:34	06:09		06:57	19:34-19:50/16	07:45		07:37	08:26-09:01/35	08:26	14:38-15:19/41
	22:04	21:34		20:33		19:25		17:21		16:42	12:29-13:04/35
2	05:35	06:11		06:59	19:32-19:50/18	07:46		07:38	08:26-09:01/35	08:27	14:38-15:20/42
	22:04	21:32		20:31		19:23		17:19		16:42	12:29-13:06/37
3	05:35	06:12		07:00	19:31-19:52/21	07:48		07:40	08:26-09:02/36	08:29	14:38-15:20/42
	22:04	21:30		20:29		19:21		17:18		16:41	12:28-13:07/39
4	05:36	06:14		07:02	19:29-19:51/22	07:49		07:42	08:25-09:01/36	08:30	14:39-15:21/42
	22:03	21:29		20:27		19:19		17:16		16:40	12:28-13:08/40
5	05:37	06:15		07:03	19:29-19:52/23	07:51		07:44	08:25-09:01/36	08:31	14:39-15:21/42
	22:03	21:27		20:24		19:17		17:14		16:40	12:27-13:09/42
6	05:38	06:17	07:16-07:26/10	07:05	19:28-19:52/24	07:53		07:45	08:26-09:01/35	08:33	14:39-15:21/42
	22:02	21:25		20:22		19:14		17:12		16:40	12:27-13:10/43
7	05:38	06:18	07:14-07:29/15	07:07	19:28-19:53/25	07:54		07:47	08:26-09:00/34	08:34	14:40-15:23/43
	22:02	21:24		20:20		19:12		17:11		16:39	12:27-13:11/44
8	05:39	06:20	07:12-07:30/18	07:08	19:27-19:51/24	07:56		07:49	08:27-09:00/33	08:35	14:40-15:23/43
	22:01	21:22		20:18		19:10		17:09	16:36-16:39/3	16:39	12:27-13:12/45
9	05:40	06:21	07:12-07:32/20	07:10	19:28-19:49/21	07:58		07:50	08:28-09:00/32	08:36	14:40-15:23/43
	22:00	21:20		20:15		19:08		17:08	16:34-16:38/4	16:39	12:27-13:13/46
10	05:41	06:23	07:10-07:32/22	07:11	19:27-19:46/19	07:59		07:52	08:29-08:59/30	08:37	14:40-15:24/44
	22:00	21:18		20:13		19:05		17:06	16:33-16:36/3	16:38	12:27-13:13/46
11	05:42	06:24	07:10-07:34/24	07:13	19:28-19:45/17	08:01		07:54	08:30-08:59/29	08:38	14:40-15:24/44
	21:59	21:16		20:11		19:03		17:04	16:33-16:35/2	16:38	12:27-13:14/47
12	05:43	06:26	07:08-07:34/26	07:14	19:28-19:42/14	08:02		07:56	08:31-08:58/27	08:39	14:41-15:24/43
	21:58	21:14		20:09		19:01		17:03		16:38	12:27-13:15/48
13	05:44	06:27	07:08-07:35/27	07:16	19:30-19:40/10	08:04		07:57	08:32-08:57/25	08:40	14:41-15:25/44
	21:57	21:13		20:06		18:59		17:01		16:38	12:27-13:16/49
14	05:45	06:29	07:07-07:35/28	07:18	19:32-19:37/5	08:06		07:59	08:33-08:56/23	08:41	14:42-15:25/43
	21:56	21:11		20:04		18:57		17:00		16:38	12:27-13:16/49
15	05:47	06:31	07:06-07:34/28	07:19		08:07		08:01	08:35-08:55/20	08:42	14:42-15:26/44
	21:56	21:09		20:02		18:55		16:59		16:38	12:28-13:17/49
16	05:48	06:32	07:07-07:35/28	07:21		08:09		08:02	14:52-15:00/8	08:43	14:43-15:27/44
	21:55	21:07		20:00		18:53		16:57	08:37-08:53/16	16:38	12:28-13:18/50
17	05:49	06:34	07:06-07:34/28	07:22		08:11		08:04	14:48-15:04/16	08:44	14:43-15:27/44
	21:54	21:05		19:57		18:50		16:56	08:40-08:51/11	16:39	12:29-13:19/50
18	05:50	06:35	07:06-07:34/28	07:24		08:12		08:06	14:46-15:06/20	08:45	14:43-15:27/44
	21:52	21:03		19:55		18:48		16:55		16:39	12:28-13:18/50
19	05:51	06:37	07:06-07:33/27	07:25		08:14		08:07	14:43-15:07/24	08:45	14:44-15:28/44
	21:51	21:01		19:53		18:46		16:54		16:39	12:29-13:19/50
20	05:53	06:38	07:07-07:33/26	07:27		08:16	18:15-18:17/2	08:09	14:42-15:09/27	08:46	14:45-15:29/44
	21:50	20:59		19:50		18:44		16:52		16:40	12:30-13:20/50
21	05:54	06:40	07:07-07:32/25	07:29		08:18	18:11-18:14/3	08:11	14:41-15:11/30	08:47	14:45-15:29/44
	21:49	20:57		19:48		18:42		16:51		16:40	12:30-13:20/50
22	05:55	06:41	07:08-07:32/24	07:30		08:19	09:36-09:50/14	08:12	14:41-15:12/31	08:47	14:46-15:30/44
	21:48	20:55		19:46		18:40	18:10-18:12/2	16:50		16:40	12:31-13:21/50
23	05:57	06:43	07:09-07:30/21	07:32		08:21	09:34-09:52/18	08:14	14:39-15:12/33	08:48	14:46-15:30/44
	21:47	20:53		19:44		18:38		16:49		16:41	12:31-13:21/50
24	05:58	06:45	07:11-07:29/18	07:33	19:10-19:15/5	08:23	09:32-09:55/23	08:16	14:39-15:14/35	08:48	14:46-15:30/44
	21:45	20:50		19:41		18:36		16:48		16:41	12:31-13:21/50
25	05:59	06:46	07:12-07:26/14	07:35	19:08-19:12/4	07:24	08:31-08:56/25	08:17	14:39-15:15/36	08:48	14:47-15:31/44
	21:44	20:48		19:39		17:34		16:47	12:46-12:47/1	16:42	12:32-13:22/50
26	06:01	06:48	07:14-07:24/10	07:37	19:07-19:10/3	07:26	08:29-08:58/29	08:19	14:38-15:15/37	08:49	14:47-15:31/44
	21:43	20:46		19:37		17:32		16:46	12:36-12:53/17	16:43	12:33-13:23/50
27	06:02	06:49		07:38	19:07-19:08/1	07:28	08:28-08:58/30	08:20	14:38-15:16/38	08:49	14:48-15:32/44
	21:41	20:44		19:35		17:30		16:45	12:34-12:57/23	16:44	12:33-13:23/50
28	06:03	06:51		07:40		07:30	08:27-08:59/32	08:22	14:38-15:17/39	08:49	14:48-15:32/44
	21:40	20:42		19:32		17:28		16:44	12:33-12:59/26	16:44	12:34-13:23/49
29	06:05	06:52		07:41		07:31	08:26-09:00/34	08:23	14:38-15:17/39	08:49	14:48-15:32/44
	21:38	20:40		19:30		17:27		16:44	12:31-13:01/30	16:45	12:34-13:23/49
30	06:06	06:54	19:41-19:45/4	07:43		07:33	08:26-09:00/34	08:25	14:38-15:19/41	08:50	14:49-15:33/44
	21:37	20:38		19:28		17:25		16:43	12:30-13:03/33	16:46	12:35-13:23/48
31	06:08	06:56	19:36-19:48/12			07:35	08:26-09:01/35			08:50	14:49-15:33/44
	21:35	20:35				17:23				16:47	12:36-13:24/48
Potential sun hours	498	451		380		333		269		248	
Sum of minutes with flicker	0	483		272		281		1089		2799	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:50	08:24	07:32		07:23	08:12-08:31/19	06:20		05:36	
	16:48	17:35	18:25		20:17		21:06		21:51	
2	08:50	08:22	07:30		07:21	08:15-08:28/13	06:18		05:36	
	16:49	17:36	18:26		20:19		21:08		21:52	
3	08:49	08:21	07:28		07:19		06:16		05:35	
	16:50	17:38	18:28		20:20		21:09		21:53	
4	08:49	08:19	07:26		07:16		06:15		05:34	
	16:51	17:40	18:30		20:22		21:11		21:54	
5	08:49	08:18	07:24		07:14		06:13		05:33	
	16:52	17:42	18:32		20:24		21:13		21:55	
6	08:49	08:16	07:21		07:12		06:11		05:33	
	16:54	17:44	18:33		20:25		21:14		21:56	
7	08:48	08:15	07:19		07:10		06:09		05:32	
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17		07:08		06:08		05:32	
	16:56	17:47	18:37		20:29		21:17		21:57	
9	08:47	08:11	07:15		07:05		06:06		05:31	
	16:57	17:49	18:38		20:30		21:19		21:58	
10	08:47	08:09	07:13		07:03		06:04		05:31	
	16:59	17:51	18:40		20:32		21:21		21:59	
11	08:46	08:08	07:10		07:01		06:03	06:28-06:29/1	05:30	06:00-06:01/1
	17:00	17:53	18:42		20:33		21:22		22:00	
12	08:46	08:06	07:08	07:31-07:32/1	06:59		06:01	06:26-06:29/3	05:30	05:59-06:00/1
	17:02	17:54	18:44		20:35		21:24		22:00	
13	08:45	08:04	07:06	07:29-07:37/8	06:57		05:59	06:25-06:29/4	05:30	05:59-06:00/1
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04	07:26-07:38/12	06:55		05:58	06:23-06:28/5	05:30	05:59-06:00/1
	17:05	17:58	18:47		20:38		21:27		22:02	
15	08:44	08:00	07:02	07:24-07:40/16	06:52		05:56	06:22-06:28/6	05:30	05:59-06:00/1
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:22-07:42/20	06:50		05:55	06:21-06:28/7	05:29	05:59-06:00/1
	17:08	18:02	18:50		20:42		21:30		22:03	
17	08:42	07:56	06:57	07:19-07:42/23	06:48		05:53	06:19-06:27/8	05:29	05:59-06:00/1
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:55	06:55	07:17-07:43/26	06:46		05:52	06:18-06:26/8	05:29	05:59-06:00/1
	17:11	18:05	18:54		20:45		21:33		22:03	
19	08:40	07:53	06:53	07:15-07:43/28	06:44		05:51	06:17-06:25/8	05:29	05:59-06:00/1
	17:12	18:07	18:55		20:47		21:34		22:04	
20	08:39	07:51	06:50	07:13-07:44/31	06:42		05:49	06:19-06:24/5	05:29	05:59-06:00/1
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:49	06:48	07:10-07:43/33	06:40		05:48		05:30	06:00-06:01/1
	17:16	18:11	18:59		20:50		21:37		22:04	
22	08:37	07:47	06:46	07:08-07:43/35	06:38		05:47		05:30	06:00-06:01/1
	17:17	18:12	19:00		20:52		21:38		22:05	
23	08:36	07:45	06:43	07:08-07:43/35	06:36		05:45		05:30	06:00-06:01/1
	17:19	18:14	19:02		20:53		21:40		22:05	
24	08:35	07:43	06:41	07:08-07:43/35	06:34		05:44		05:30	06:00-06:01/1
	17:21	18:16	19:04		20:55		21:41		22:05	
25	08:34	07:40	06:39	07:08-07:42/34	06:32		05:43		05:31	06:01-06:02/1
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37	07:08-07:41/33	06:30		05:42		05:31	06:01-06:02/1
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34	07:08-07:40/32	06:28		05:41		05:31	06:02-06:03/1
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32	07:08-07:39/31	06:26		05:40		05:32	06:02-06:03/1
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30	08:09-08:37/28	06:24		05:39		05:32	06:03-06:04/1
	17:29		20:12		21:03		21:47		22:05	
30	08:27		07:28	08:10-08:36/26	06:22		05:38		05:33	06:03-06:04/1
	17:31		20:14		21:05		21:48		22:04	
31	08:25		07:25	08:12-08:34/22			05:37			
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	509		32		55		20	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm) First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm) First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT17 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (15)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34	06:04-06:05/1	06:09	06:37-06:39/2	06:57		07:44	08:09-08:14/5	07:36	08:26
	22:04		21:34		20:33		19:25		17:21	16:42
2	05:34	06:04-06:05/1	06:10		06:59		07:46		07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35		06:12		07:00		07:48		07:40	08:29
	22:04		21:30		20:29		19:21		17:17	16:41
4	05:36		06:13		07:02		07:49		07:42	08:30
	22:03		21:29		20:27		19:19		17:16	16:40
5	05:37		06:15		07:03		07:51		07:43	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37		06:16		07:05		07:52		07:45	08:33
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38		06:18		07:06		07:54		07:47	08:34
	22:02		21:24		20:20		19:12		17:11	16:39
8	05:39		06:19		07:08		07:56		07:49	08:35
	22:01		21:22		20:18		19:10		17:09	16:39
9	05:40		06:21		07:10		07:57		07:50	08:36
	22:00		21:20		20:15		19:08		17:07	16:38
10	05:41		06:23		07:11	08:09-08:21/12	07:59		07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42		06:24		07:13	08:06-08:24/18	08:01		07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43		06:26		07:14	08:03-08:25/22	08:02		07:56	08:39
	21:58		21:14		20:09		19:01		17:03	16:38
13	05:44		06:27		07:16	08:02-08:27/25	08:04		07:57	08:40
	21:57		21:12		20:06		18:59		17:01	16:38
14	05:45		06:29		07:17	08:00-08:28/28	08:06		07:59	08:41
	21:56		21:11		20:04		18:57		17:00	16:38
15	05:46		06:30		07:19	07:59-08:29/30	08:07		08:01	08:42
	21:56		21:09		20:02		18:55		16:58	16:38
16	05:47		06:32		07:21	07:57-08:29/32	08:09		08:02	08:43
	21:55		21:07		19:59		18:52		16:57	16:38
17	05:49		06:33		07:22	07:56-08:29/33	08:11		08:04	08:44
	21:54		21:05		19:57		18:50		16:56	16:38
18	05:50		06:35		07:24	07:55-08:29/34	08:12		08:06	08:45
	21:52		21:03		19:55		18:48		16:55	16:39
19	05:51		06:37		07:25	07:55-08:29/34	08:14		08:07	08:45
	21:51		21:01		19:53		18:46		16:53	16:39
20	05:52		06:38		07:27	07:55-08:30/35	08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54		06:40		07:28	07:54-08:29/35	08:17		08:11	08:47
	21:49		20:57		19:48		18:42		16:51	16:40
22	05:55		06:41		07:30	07:55-08:29/34	08:19		08:12	08:47
	21:48		20:55		19:46		18:40		16:50	16:40
23	05:56		06:43		07:32	07:56-08:27/31	08:21		08:14	08:48
	21:47		20:52		19:43		18:38		16:49	16:41
24	05:58	06:29-06:35/6	06:44		07:33	07:58-08:27/29	08:23		08:16	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59	06:28-06:36/8	06:46		07:35	07:59-08:25/26	07:24		08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00	06:29-06:37/8	06:48		07:36	08:01-08:25/24	07:26		08:19	08:49
	21:43		20:46		19:37		17:32		16:46	16:43
27	06:02	06:30-06:38/8	06:49		07:38	08:03-08:24/21	07:28		08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03	06:32-06:39/7	06:51		07:40	08:04-08:22/18	07:30		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:05	06:33-06:39/6	06:52		07:41	08:06-08:20/14	07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06	06:34-06:39/5	06:54		07:43	08:07-08:17/10	07:33		08:25	08:50
	21:37		20:38		19:28		17:25		16:43	16:46
31	06:07	06:36-06:39/3	06:55				07:35			08:50
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	53		2		545		5		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 13:21-14:39/78 16:48	08:24 13:49-14:35/46 17:35	07:32 17:40-17:59/19 18:25	07:23 19:11-19:50/39 20:17	06:20 21:06	05:36 21:51
2	08:50 13:21-14:40/79 16:49	08:23 13:51-14:32/41 17:36	07:30 17:39-18:01/22 18:26	07:21 19:11-19:50/39 20:19	06:18 21:08	05:36 21:52
3	08:49 13:22-14:40/78 16:50	08:21 13:54-14:30/36 17:38	07:28 17:39-18:03/24 18:28	07:19 19:10-19:51/41 20:20	06:16 21:10	05:35 06:03-06:05/2 21:53
4	08:49 13:22-14:40/78 16:51	08:19 13:58-14:28/30 17:40	07:26 17:38-18:05/27 18:30	07:17 19:10-19:51/41 20:22	06:15 21:11	05:34 06:02-06:06/4 21:54
5	08:49 13:23-14:41/78 16:52	08:18 14:03-14:24/21 17:42	07:24 17:37-18:06/29 18:32	07:14 19:10-19:50/40 20:24	06:13 21:13	05:33 06:02-06:07/5 21:55
6	08:49 13:23-14:41/78 16:54	08:16 14:12-14:15/3 17:44	07:21 17:37-18:07/30 18:33	07:12 19:09-19:49/40 20:25	06:11 21:14	05:33 06:01-06:07/6 21:56
7	08:48 13:24-14:41/77 16:55	08:15 17:45	07:19 17:37-18:07/30 18:35	07:10 19:09-19:49/40 20:27	06:09 21:16	05:32 06:01-06:08/7 21:56
8	08:48 13:24-14:41/77 16:56	08:13 17:47	07:17 17:37-18:07/30 18:37	07:08 19:10-19:48/38 20:29	06:08 21:17	05:32 06:01-06:10/9 21:57
9	08:48 13:25-14:42/77 16:58	08:11 17:49	07:15 17:37-18:06/29 18:39	07:05 19:10-19:48/38 20:30	06:06 21:19	05:31 06:00-06:09/9 21:58
10	08:47 13:25-14:42/77 16:59	08:09 17:51	07:13 17:37-18:05/28 18:40	07:03 19:11-19:47/36 20:32	06:04 21:21	05:31 06:00-06:10/10 21:59
11	08:46 13:26-14:42/76 17:00	08:08 17:53	07:10 17:38-18:04/26 18:42	07:01 19:11-19:45/34 20:34	06:03 21:22	05:31 06:00-06:11/11 22:00
12	08:46 13:27-14:43/76 17:02	08:06 17:54	07:08 17:39-18:03/24 18:44	06:59 19:11-19:44/33 20:35	06:01 21:24	05:30 05:59-06:11/12 22:00
13	08:45 13:28-14:43/75 17:03	08:04 17:56	07:06 17:40-18:01/21 18:45	06:57 19:13-19:43/30 20:37	05:59 21:25	05:30 05:59-06:11/12 22:01
14	08:45 13:28-14:43/75 17:05	08:02 17:58	07:04 17:42-17:59/17 18:47	06:55 19:14-19:41/27 20:38	05:58 21:27	05:30 05:59-06:12/13 22:02
15	08:44 13:29-14:43/74 17:06	08:00 18:00	07:02 17:45-17:56/11 18:49	06:52 19:16-19:40/24 20:40	05:56 21:28	05:30 05:59-06:12/13 22:02
16	08:43 13:29-14:43/74 17:08	07:58 18:02	06:59 18:50	06:50 19:18-19:37/19 20:42	05:55 21:30	05:30 05:59-06:13/14 22:03
17	08:42 13:30-14:43/73 17:09	07:57 18:03	06:57 18:21-18:27/6 18:52	06:48 19:20-19:34/14 20:43	05:53 21:31	05:29 05:59-06:13/14 22:03
18	08:41 13:31-14:43/72 17:11	07:55 18:05	06:55 18:19-18:29/10 18:54	06:46 20:45	05:52 21:33	05:29 05:59-06:13/14 22:03
19	08:40 13:32-14:43/71 17:12	07:53 18:07	06:53 18:17-18:31/14 18:55	06:44 20:47	05:51 21:34	05:29 05:59-06:13/14 22:04
20	08:39 13:33-14:43/70 17:14	07:51 18:09	06:50 18:16-18:32/16 18:57	06:42 20:48	05:49 21:35	05:30 05:59-06:13/14 22:04
21	08:38 13:33-14:42/69 17:16	07:49 18:11	06:48 18:14-18:33/19 18:59	06:40 20:50	05:48 21:37	05:30 05:59-06:14/15 22:04
22	08:37 13:34-14:42/68 17:17	07:47 18:12	06:46 18:13-18:35/22 19:00	06:38 20:52	05:47 21:38	05:30 06:00-06:14/14 22:05
23	08:36 13:36-14:42/66 17:19	07:45 18:14	06:44 18:13-18:37/24 19:02	06:36 20:53	05:46 21:40	05:30 06:00-06:14/14 22:05
24	08:35 13:37-14:42/65 17:21	07:43 18:16	06:41 18:12-18:38/26 19:04	06:34 20:55	05:44 21:41	05:30 06:00-06:14/14 22:05
25	08:34 13:37-14:41/64 17:22	07:41 17:48-17:52/4 18:18	06:39 18:11-18:40/29 19:05	06:32 20:57	05:43 21:42	05:31 06:01-06:15/14 22:05
26	08:32 13:39-14:41/62 17:24	07:38 17:46-17:54/8 18:19	06:37 18:12-18:42/30 19:07	06:30 20:58	05:42 21:43	05:31 06:01-06:15/14 22:05
27	08:31 13:40-14:39/59 17:26	07:36 17:44-17:56/12 18:21	06:35 18:12-18:44/32 19:09	06:28 21:00	05:41 21:45	05:32 06:02-06:15/13 22:05
28	08:30 13:42-14:39/57 17:28	07:34 17:41-17:57/16 18:23	06:32 18:11-18:45/34 19:10	06:26 21:01	05:40 21:46	05:32 06:02-06:15/13 22:05
29	08:28 13:43-14:38/55 17:29		07:30 19:12-19:47/35 20:12	06:24 21:03	05:39 21:47	05:33 06:03-06:16/13 22:05
30	08:27 13:45-14:37/52 17:31		07:28 19:12-19:49/37 20:14	06:22 21:05	05:38 21:48	05:33 06:03-06:15/12 22:04
31	08:26 13:46-14:35/49 17:33		07:26 19:13-19:50/37 20:15		05:37 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	2179	217	738	573	0	319

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: KLZ_WT20 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (16)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:15/11	06:09	06:57 19:10-19:45/35	07:44 18:19-18:42/23	07:37	08:26 13:08-14:24/76
	22:04	21:34	20:33	19:25	17:21	16:42
2	05:34 06:04-06:15/11	06:11	06:59 19:09-19:45/36	07:46 18:17-18:43/26	07:38	08:27 13:09-14:25/76
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35 06:05-06:15/10	06:12	07:00 19:08-19:46/38	07:48 18:16-18:43/27	07:40	08:29 13:08-14:25/77
	22:04	21:30	20:29	19:21	17:17	16:41
4	05:36 06:06-06:15/9	06:14	07:02 19:07-19:45/38	07:49 18:15-18:43/28	07:42	08:30 13:09-14:26/77
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:15/8	06:15	07:03 19:07-19:46/39	07:51 18:14-18:44/30	07:44 13:39-13:47/8	08:31 13:09-14:26/77
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:14/7	06:17	07:05 19:05-19:45/40	07:53 18:13-18:43/30	07:45 13:32-13:54/22	08:33 13:09-14:27/78
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:14/6	06:18	07:07 19:05-19:46/41	07:54 18:13-18:43/30	07:47 13:27-13:58/31	08:34 13:10-14:28/78
	22:02	21:24	20:20	19:12	17:11	16:39
8	05:39 06:09-06:13/4	06:20	07:08 19:04-19:45/41	07:56 18:13-18:43/30	07:49 13:24-14:01/37	08:35 13:10-14:28/78
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:13/3	06:21	07:10 19:05-19:45/40	07:57 18:12-18:40/28	07:50 13:22-14:03/41	08:36 13:10-14:28/78
	22:00	21:20	20:15	19:08	17:07	16:38
10	05:41 06:11-06:12/1	06:23	07:11 19:04-19:44/40	07:59 18:13-18:38/25	07:52 13:20-14:06/46	08:37 13:10-14:29/79
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13 19:04-19:43/39	08:01 18:13-18:36/23	07:54 13:18-14:07/49	08:38 13:11-14:29/78
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14 19:04-19:42/38	08:02 18:13-18:33/20	07:56 13:16-14:08/52	08:39 13:11-14:30/79
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 19:04-19:40/36	08:04 18:14-18:31/17	07:57 13:15-14:10/55	08:40 13:11-14:30/79
	21:57	21:13	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17 19:02-19:37/35	08:06 18:15-18:29/14	07:59 13:14-14:11/57	08:41 13:12-14:31/79
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19 19:02-19:35/33	08:07 18:17-18:27/10	08:01 13:13-14:12/59	08:42 13:12-14:31/79
	21:56	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21 19:00-19:33/33	08:09 18:18-18:24/6	08:02 13:12-14:14/62	08:43 13:13-14:32/79
	21:55	21:07	20:00	18:52	16:57	16:38
17	05:49	06:34	07:22 19:00-19:31/31	08:11 18:21-18:22/1	08:04 13:11-14:15/64	08:44 13:14-14:33/79
	21:54	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24 18:59-19:28/29	08:12	08:06 13:11-14:16/65	08:45 13:13-14:32/79
	21:53	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25 18:59-19:26/27	08:14	08:08 13:10-14:16/66	08:45 13:14-14:33/79
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27 18:59-19:24/25	08:16	08:09 13:09-14:17/68	08:46 13:15-14:34/79
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:29 18:59-19:21/22	08:18	08:11 13:09-14:18/69	08:47 13:15-14:34/79
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30 19:00-19:20/20	08:19	08:12 13:09-14:19/70	08:47 13:16-14:35/79
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32 18:59-19:17/18	08:21	08:14 13:08-14:19/71	08:48 13:16-14:35/79
	21:47	20:53	19:44	18:38	16:49	16:41
24	05:58	06:45	07:33 19:01-19:15/14	08:23	08:16 13:08-14:20/72	08:48 13:16-14:35/79
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46 19:29-19:31/2	07:35 19:01-19:12/11	07:24	08:17 13:08-14:21/73	08:48 13:17-14:36/79
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 19:23-19:37/14	07:36 19:03-19:10/7	07:26	08:19 13:08-14:21/73	08:49 13:18-14:37/79
	21:43	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 19:19-19:39/20	07:38 19:07-19:08/1	07:28	08:20 13:08-14:22/74	08:49 13:18-14:37/79
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51 19:17-19:42/25	07:40 18:27-18:36/9	07:30	08:22 13:08-14:23/75	08:49 13:18-14:37/79
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52 19:15-19:42/27	07:41 18:23-18:39/16	07:31	08:23 13:08-14:23/75	08:49 13:19-14:38/79
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06	06:54 19:13-19:44/31	07:43 18:20-18:40/20	07:33	08:25 13:08-14:24/76	08:50 13:19-14:38/79
	21:37	20:38	19:28	17:25	16:43	16:46
31	06:08	06:56 19:11-19:44/33		07:35		08:50 13:20-14:38/78
	21:35	20:35		17:23		16:47
Potential sun hours	498	452	380	333	269	248
Sum of minutes with flicker	70	152	852	368	1510	2431

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 09:18-09:25/7	07:32 08:04-08:08/4	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49	08:22 08:48-08:49/1	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49	08:21 08:46-08:48/2	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49	08:19 08:45-08:46/1	07:26	07:16	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49	08:18 08:43-08:46/3	07:23	07:14	06:13	05:33
	16:52	17:42	18:32	20:23	21:12	21:54
6	08:48	08:16 08:41-08:45/4	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13 08:41-08:42/1	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:38	20:30	21:19	21:58
10	08:47	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:07	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:23	22:00
13	08:45 09:14-09:20/6	08:04	07:06	06:57	05:59	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:13-09:22/9	08:02	07:04	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:26	22:01
15	08:43 09:12-09:23/11	08:00 08:24-08:26/2	07:01	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:24/13	07:58 08:22-08:25/3	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56 08:20-08:25/5	06:57	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:10-09:26/16	07:54 08:18-08:23/5	06:55	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:27/17	07:52 08:16-08:25/9	06:52	06:44	05:51	05:29
	17:12	18:07	18:55	20:46	21:34	22:04
20	08:39 09:09-09:27/18	07:50 08:14-08:25/11	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:09-09:28/19	07:48 08:12-08:26/14	06:48	06:40	05:48	05:30
	17:16 09:05-09:06/1	18:11	18:59	20:50	21:37	22:04
22	08:37 09:09-09:29/20	07:46 08:10-08:26/16	06:46	06:38	05:47	05:30
	17:17 09:04-09:07/3	18:12	19:00	20:51	21:38	22:04
23	08:36 09:10-09:30/20	07:44 08:08-08:26/18	06:43	06:36	05:46	05:30
	17:19 09:03-09:07/4	18:14	19:02	20:53	21:39	22:04
24	08:35 09:09-09:29/20	07:42 08:06-08:25/19	06:41	06:34	05:44	05:30
	17:21 09:02-09:08/6	18:16	19:04	20:55	21:41	22:05
25	08:33 09:10-09:30/20	07:40 08:04-08:24/20	06:39	06:32	05:43	05:31
	17:22 09:00-09:07/7	18:18	19:05	20:56	21:42	22:05
26	08:32 09:11-09:30/19	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24 09:00-09:06/6	18:19 08:14-08:22/8	19:07	20:58	21:43	22:05
27	08:31 09:11-09:29/18	07:36 08:02-08:13/11	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:44	22:05
28	08:29 09:12-09:30/18	07:34 08:02-08:11/9	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28 09:12-09:29/17		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 09:14-09:28/14		07:28	06:22	05:38	05:33
	17:31		20:14	21:04	21:48	22:04
31	08:25 09:15-09:27/12		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	329	185	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: MVN_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 238,5 m) (50)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:10	06:59	07:46		07:38		08:27	
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:10-08:12/2	08:29	
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:13	07:02	07:49		07:42	08:09-08:14/5	08:30	
	22:03	21:28	20:26	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:15/4	08:31	
	22:02	21:27	20:24	19:16		17:14		16:40	
6	05:37	06:16	07:05	07:52		07:45	08:13-08:15/2	08:32	
	22:02	21:25	20:22	19:14		17:12		16:39	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:17/2	08:34	
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:19/2	08:35	
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	
	22:00	21:20	20:15	19:07		17:07		16:38	
10	05:41	06:23	07:11	07:59		07:52	08:48-08:56/8	08:37	
	21:59	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54	08:46-08:58/12	08:38	
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:55	08:45-08:59/14	08:39	
	21:58	21:14	20:08	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04	08:36-08:43/7	07:57	08:44-09:01/17	08:40	
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06	08:34-08:44/10	07:59	08:44-09:02/18	08:41	
	21:56	21:10	20:04	18:57		17:00		16:38	
15	05:46	06:30	07:19	08:07	08:34-08:45/11	08:01	08:44-09:02/18	08:42	
	21:55	21:08	20:02	18:55	08:47-08:53/6	16:59		16:38	
16	05:48	06:32	07:21	08:09	08:34-08:54/20	08:02	08:44-09:03/19	08:43	
	21:54	21:07	19:59	18:52		16:57	08:33-08:39/6	16:38	
17	05:49	06:33	07:22	08:11	08:36-08:56/20	08:04	08:44-09:04/20	08:44	
	21:53	21:05	19:57	18:50		16:56	08:34-08:41/7	16:38	
18	05:50	06:35	07:24	08:12	08:38-08:57/19	08:06	08:43-09:03/20	08:44	
	21:52	21:03	19:55	18:48		16:55	08:36-08:42/6	16:39	
19	05:51	06:37	07:25	08:14	08:40-08:57/17	08:07	08:44-09:04/20	08:45	09:24-09:26/2
	21:51	21:01	19:53	18:46		16:53	08:37-08:41/4	16:39	
20	05:52	06:38	07:27	08:16	08:42-08:57/15	08:09	08:44-09:04/20	08:46	09:25-09:27/2
	21:50	20:59	19:50	18:44		16:52	08:39-08:42/3	16:39	
21	05:54	06:40	07:28	08:17	08:43-08:56/13	08:11	08:45-09:04/19	08:46	09:25-09:27/2
	21:49	20:56	19:48	18:42		16:51	08:41-08:42/1	16:40	
22	05:55	06:41	07:30	08:19	08:45-08:56/11	08:12	08:45-09:03/18	08:47	09:26-09:28/2
	21:48	20:54	19:46	18:40		16:50		16:40	
23	05:56	06:43	07:32	08:21	08:47-08:55/8	08:14	08:46-09:03/17	08:47	09:26-09:28/2
	21:46	20:52	19:43	18:38		16:49		16:41	
24	05:58	06:44	07:33	08:22	08:49-08:54/5	08:15	08:47-09:04/17	08:48	09:26-09:28/2
	21:45	20:50	19:41	18:36		16:48		16:41	
25	05:59	06:46	07:35	07:24	07:51-07:56/5	08:17	08:48-09:04/16	08:48	09:28-09:29/1
	21:44	20:48	19:39	17:34		16:47		16:42	
26	06:00	06:48	07:36	07:26	07:53-07:56/3	08:18	08:49-09:02/13	08:49	
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28	07:54-07:55/1	08:20	08:51-09:02/11	08:49	
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:39	07:29		08:21	08:53-09:02/9	08:49	
	21:39	20:42	19:32	17:28		16:44		16:44	
29	06:05	06:52	07:41	07:31		08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:43		16:45	
30	06:06	06:54	07:43	07:33		08:24		08:49	
	21:36	20:37	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35				08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	171		356		13	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: MVZ_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (40)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January		February		March	April	May	June	July	August	September	October	November		December
1	08:49		08:24	08:50-08:56/6	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36		08:26
	16:48		17:35		18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21		16:42
2	08:49		08:22	08:48-08:55/7	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38		08:27
	16:49		17:36		18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19		16:41
3	08:49		08:21	08:46-08:55/9	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40		08:29
	16:50		17:38		18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17		16:41
4	08:49		08:19	08:46-08:55/9	07:26	07:16	06:15	05:34	05:36	06:13	07:02	07:49	07:42		08:30
	16:51		17:40		18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:19	17:16		16:40
5	08:49		08:18	08:47-08:53/6	07:23	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43		08:31
	16:53		17:42		18:32	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14		16:40
6	08:48		08:16		07:21	07:12	06:11	05:33	05:37	06:17	07:05	07:52	07:45	08:16-08:23/7	08:32
	16:54		17:44		18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12		16:39
7	08:48		08:14		07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:15-08:25/10	08:34
	16:55		17:45		18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11		16:39
8	08:48		08:13		07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:17-08:26/9	08:35
	16:56		17:47		18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09		16:39
9	08:47		08:11		07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:19-08:26/7	08:36
	16:58		17:49		18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07		16:39
10	08:47		08:09		07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:21-08:27/6	08:37
	16:59		17:51		18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06		16:38
11	08:46		08:07		07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:23-08:27/4	08:38
	17:00		17:53		18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04		16:38
12	08:46		08:06		07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55	08:24-08:26/2	08:39
	17:02		17:54		18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03		16:38
13	08:45		08:04		07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:26-08:27/1	08:40
	17:03		17:56		18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01		16:38
14	08:44		08:02		07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59	08:38-08:45/7	08:41
	17:05		17:58		18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:57	17:00		16:38
15	08:43		08:00		07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01	08:37-08:47/10	08:42
	17:06		18:00		18:49	20:40	21:28	22:02	21:55	21:08	20:02	18:55	16:59		16:38
16	08:43		07:58		06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:37-08:48/11	08:43
	17:08		18:02		18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57		16:38
17	08:42	09:10-09:12/2	07:56		06:57	06:48	05:53	05:29	05:49	06:33	07:22	08:11	08:04	08:36-08:49/13	08:44
	17:09		18:03		18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56		16:38
18	08:41	09:09-09:13/4	07:54		06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:35-08:49/14	08:44
	17:11		18:05		18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55		16:39
19	08:40	09:08-09:14/6	07:52		06:52	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07	08:37-08:50/13	08:45
	17:12		18:07		18:55	20:46	21:34	22:04	21:51	21:01	19:53	18:46	16:53		16:39
20	08:39	09:06-09:14/8	07:50		06:50	06:42	05:49	05:30	05:52	06:38	07:27	08:16	08:09	08:39-08:50/11	08:46
	17:14		18:09		18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52		16:39
21	08:38	09:05-09:14/9	07:48		06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11	08:41-08:50/9	08:46
	17:16		18:11		18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51		16:40
22	08:37	09:04-09:15/11	07:46		06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12	08:43-08:51/8	08:47
	17:17		18:12		19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50		16:40
23	08:36	09:03-09:16/13	07:44		06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14	08:44-08:50/6	08:47
	17:19		18:14		19:02	20:53	21:39	22:04	21:46	20:52	19:43	18:38	16:49		16:41
24	08:35	09:01-09:15/14	07:42		06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:22	08:15	08:46-08:50/4	08:48
	17:21		18:16		19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48		16:41
25	08:33	09:02-09:15/13	07:40		06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17	08:48-08:50/2	08:48
	17:22		18:18		19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47		16:42
26	08:32	09:04-09:15/11	07:38		06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18		08:49
	17:24		18:19		19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46		16:43
27	08:31	09:04-09:14/10	07:36		06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20		08:49
	17:26		18:21		19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45		16:43
28	08:29	09:06-09:13/7	07:34		06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:21		08:49
	17:28		18:23		19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44		16:44
29	08:28	08:54-08:55/1			07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23		08:49
	17:29				20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43		16:45
30	08:27	08:53-08:55/2			07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24		08:49
	17:31				20:14	21:04	21:48	22:04	21:36	20:37	19:28	17:25	16:43		16:46
31	08:25	08:51-08:55/4			07:25		05:37		06:08	06:55		07:35			08:49
	17:33				20:15		21:49		21:35	20:35		17:23			16:47
Potential sun hours	262		279		367	414	482	494	498	451	380	333	269		248
Sum of minutes with flicker	115		37		0	0	0	0	0	0	0	0	154		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: MVZ_WT02 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 200,0 m) (41)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 16:48	08:24 08:50-08:57/7 17:35	07:32 18:25	07:23 20:17	06:20 21:06	05:36 21:50	05:34 22:04	06:09 21:33	06:57 20:33	07:44 19:25	07:36 08:04-08:10/6 17:21	08:26 16:42
2	08:49 16:49	08:22 08:48-08:57/9 17:36	07:30 18:26	07:21 20:19	06:18 21:08	05:36 21:51	05:34 22:04	06:10 21:32	06:59 20:31	07:46 19:23	07:38 08:06-08:11/5 17:19	08:27 16:41
3	08:49 16:50	08:21 08:46-08:56/10 17:38	07:28 18:28	07:19 20:20	06:16 21:09	05:35 21:52	05:35 22:03	06:12 21:30	07:00 20:29	07:48 19:21	07:40 08:07-08:10/3 17:17	08:29 16:41
4	08:49 16:51	08:19 08:46-08:56/10 17:40	07:26 18:30	07:16 20:22	06:15 21:11	05:34 21:53	05:36 22:03	06:13 21:28	07:02 20:26	07:49 19:19	07:42 08:09-08:10/1 17:16	08:30 16:40
5	08:49 16:53	08:18 08:47-08:55/8 17:42	07:23 18:32	07:14 20:23	06:13 21:12	05:34 21:54	05:37 22:02	06:15 21:27	07:03 20:24	07:51 19:16	07:43 08:18-08:23/5 17:14	08:31 16:40
6	08:48 16:54	08:16 08:49-08:53/4 17:44	07:21 18:33	07:12 20:25	06:11 21:14	05:33 21:55	05:37 22:02	06:16 21:25	07:05 20:22	07:52 19:14	07:45 08:17-08:25/8 17:12	08:32 16:39
7	08:48 16:55	08:14 08:39-08:40/1 17:45	07:19 18:35	07:10 20:27	06:09 21:16	05:32 21:56	05:38 22:01	06:18 21:23	07:06 20:20	07:54 19:12	07:47 08:16-08:26/10 17:11	08:34 16:39
8	08:48 16:56	08:13 08:38-08:41/3 17:47	07:17 18:37	07:08 20:28	06:08 21:17	05:32 21:57	05:39 22:01	06:20 21:22	07:08 20:18	07:56 19:10	07:49 08:17-08:27/10 17:09	08:35 16:39
9	08:47 16:58	08:11 08:36-08:41/5 17:49	07:15 18:38	07:05 20:30	06:06 21:19	05:31 21:58	05:40 22:00	06:21 21:20	07:10 20:15	07:57 19:07	07:50 08:19-08:28/9 17:07	08:36 16:39
10	08:47 16:59	08:09 08:34-08:40/6 17:51	07:13 18:40	07:03 20:32	06:04 21:20	05:31 21:59	05:41 21:59	06:23 21:18	07:11 20:13	07:59 19:05	07:52 08:21-08:28/7 17:06	08:37 16:38
11	08:46 17:00	08:07 08:32-08:39/7 17:53	07:10 18:42	07:01 20:33	06:03 21:22	05:31 21:59	05:42 21:59	06:24 21:16	07:13 20:11	08:01 19:03	07:54 08:22-08:27/5 17:04	08:38 16:38
12	08:46 17:02	08:06 17:54	07:08 18:44	06:59 20:35	06:01 21:23	05:30 22:00	05:43 21:58	06:26 21:14	07:14 20:08	08:02 19:01	07:55 08:24-08:27/3 17:03	08:39 16:38
13	08:45 17:03	08:04 17:56	07:06 18:45	06:57 20:37	05:59 21:25	05:30 22:01	05:44 21:57	06:27 21:12	07:16 20:06	08:04 18:59	07:57 17:01	08:40 16:38
14	08:44 17:05	08:02 17:58	07:04 18:47	06:55 20:38	05:58 21:26	05:30 22:01	05:45 21:56	06:29 21:10	07:17 20:04	08:06 18:57	07:59 17:00	08:41 16:38
15	08:43 17:06	08:00 18:00	07:01 18:49	06:52 20:40	05:56 21:28	05:30 22:02	05:46 21:55	06:30 21:08	07:19 20:02	08:07 18:55	08:01 16:59	08:42 16:38
16	08:43 17:08	07:58 18:02	06:59 18:50	06:50 20:42	05:55 21:29	05:30 22:02	05:48 21:54	06:32 21:07	07:21 19:59	08:09 18:52	08:02 16:57	08:43 16:38
17	08:42 17:09	07:56 18:03	06:57 18:52	06:48 20:43	05:53 21:31	05:29 22:03	05:49 21:53	06:33 21:05	07:22 19:57	08:11 18:50	08:04 16:56	08:44 16:38
18	08:41 17:11	07:54 18:05	06:55 18:54	06:46 20:45	05:52 21:32	05:29 22:03	05:50 21:52	06:35 21:03	07:24 19:55	08:12 18:48	08:06 16:55	08:44 16:39
19	08:40 17:12	07:52 18:07	06:52 18:55	06:44 20:46	05:51 21:34	05:30 22:04	05:51 21:51	06:37 21:01	07:25 19:53	08:14 18:46	08:07 16:53	08:45 16:39
20	08:39 17:14	07:50 18:09	06:50 18:57	06:42 20:48	05:49 21:35	05:30 22:04	05:52 21:50	06:38 20:59	07:27 19:50	08:16 18:44	08:09 16:52	08:46 16:39
21	08:38 17:16	07:48 18:11	06:48 18:59	06:40 20:50	05:48 21:37	05:30 22:04	05:54 21:49	06:40 20:56	07:28 19:48	08:17 18:42	08:11 16:51	08:46 16:40
22	08:37 17:17	07:46 18:12	06:46 19:00	06:38 20:51	05:47 21:38	05:30 22:04	05:55 21:48	06:41 20:54	07:30 19:46	08:19 18:40	08:12 16:50	08:47 16:40
23	08:36 17:19	07:44 18:14	06:43 19:02	06:36 20:53	05:46 21:39	05:30 22:04	05:56 21:46	06:43 20:52	07:32 19:43	08:21 18:38	08:14 16:49	08:47 16:41
24	08:35 17:21	07:42 18:16	06:41 19:04	06:34 20:55	05:44 21:41	05:30 22:05	05:58 21:45	06:44 20:50	07:33 19:41	08:22 18:36	08:15 16:48	08:48 16:41
25	08:33 17:22	07:40 18:18	06:39 19:05	06:32 20:56	05:43 21:42	05:31 22:05	05:59 21:44	06:46 20:48	07:35 19:39	07:24 17:34	08:17 16:47	08:48 16:42
26	08:32 17:24	07:38 18:19	06:37 19:07	06:30 20:58	05:42 21:43	05:31 22:05	06:00 21:42	06:48 20:46	07:36 19:37	07:26 17:32	08:18 16:46	08:48 16:43
27	08:31 17:26	07:36 18:21	06:34 19:09	06:28 21:00	05:41 21:44	05:32 22:05	06:02 21:41	06:49 20:44	07:38 19:34	07:28 17:30	08:20 16:45	08:49 16:43
28	08:29 17:28	07:34 18:23	06:32 19:10	06:26 21:01	05:40 21:46	05:32 22:05	06:03 21:39	06:51 20:42	07:39 19:32	07:29 17:28	08:21 16:44	08:49 16:44
29	08:28 08:54-08:55/1 17:29		07:30 20:12	06:24 21:03	05:39 21:47	05:33 22:04	06:05 21:38	06:52 20:40	07:41 19:30	07:31 17:26	08:23 16:43	08:49 16:45
30	08:27 08:53-08:56/3 17:31		07:28 20:14	06:22 21:04	05:38 21:48	05:33 22:04	06:06 21:36	06:54 20:37	07:43 19:28	07:33 08:04-08:06/2 17:25	08:24 16:43	08:49 16:46
31	08:25 08:51-08:56/5 17:33		07:25 20:15		05:37 21:49		06:08 21:35	06:55 20:35		07:35 08:02-08:09/7 17:23		08:49 16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	9	70	0	0	0	0	0	0	0	9	72	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:26/6	08:24 08:50-08:54/4	07:32 07:55-08:17/22	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:27/7	08:22 08:48-08:52/4	07:30 07:53-08:18/25	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:27/7	08:21	07:28 07:51-07:52/1	07:19	06:16	05:35
	16:50	17:38	18:28 07:53-08:19/26	20:20	21:09	21:53
4	08:49 09:19-09:26/7	08:19	07:26 07:49-08:19/30	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:20-09:26/6	08:18	07:24 07:46-08:18/32	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:20-09:25/5	08:16	07:21 07:44-08:18/34	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:23-09:24/1	08:14	07:19 07:42-08:18/36	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48	08:13	07:17 07:40-08:18/38	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47	08:11	07:15 07:38-08:17/39	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47	08:09	07:13 07:37-08:15/38	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46	08:08	07:10 07:38-08:14/36	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46	08:06	07:08 07:39-07:52/13	06:59	06:01	05:30
	17:02	17:54	18:44 07:54-08:13/19	20:35	21:24	22:00
13	08:45	08:04	07:06 07:40-07:50/10	06:57	05:59	05:30
	17:03	17:56	18:45 07:56-08:10/14	20:37	21:25	22:01
14	08:44	08:02	07:04 07:58-08:06/8	06:55	05:58	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:23/1	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:23/3	06:57	06:48	05:53	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:22/4	06:55	06:46	05:52	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40	07:53 08:16-08:21/5	06:53	06:44	05:51	05:30
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39	07:51 08:16-08:19/3	06:50	06:42	05:49	05:30
	17:14	18:09	18:57	20:48	21:35	22:04
21	08:38	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:43 08:06-08:08/2	06:41	06:34	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:04-08:08/4	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:02-08:13/11	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:15/15	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:16/19	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:53-08:55/2		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25 08:51-08:54/3		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	44	75	421	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: MXS_WT01 - SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 m) (21)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09	06:57	07:44 08:18-08:30/12	07:36	08:26
	22:04	21:33	20:33	19:25 08:33-08:51/18	17:21	16:42
2	05:34	06:11	06:59	07:46 08:17-08:52/35	07:38	08:27
	22:04	21:32	20:31	19:23	17:19	16:41
3	05:35	06:12	07:00	07:48 08:15-08:53/38	07:40	08:29
	22:03	21:30	20:29	19:21	17:17	16:41
4	05:36	06:14	07:02	07:49 08:15-08:54/39	07:42	08:30
	22:03	21:29	20:27	19:19	17:16	16:40
5	05:37	06:15	07:03	07:51 08:16-08:54/38	07:43	08:31
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:17	07:05	07:52 08:17-08:54/37	07:45	08:33 09:06-09:11/5
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18	07:06	07:54 08:19-08:54/35	07:47	08:34 09:07-09:13/6
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39	06:20	07:08	07:56 08:21-08:54/33	07:49	08:35 09:07-09:14/7
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21	07:10	07:57 08:22-08:53/31	07:50 08:19-08:23/4	08:36 09:08-09:15/7
	22:00	21:20	20:15	19:08	17:07	16:39
10	05:41	06:23	07:11	07:59 08:24-08:53/29	07:52 08:21-08:25/4	08:37 09:09-09:16/7
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42	06:24	07:13	08:01 08:27-08:52/25	07:54 08:23-08:26/3	08:38 09:10-09:16/6
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43	06:26	07:14	08:02 08:27-08:51/24	07:56 08:24-08:26/2	08:39 09:11-09:17/6
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16	08:04 08:29-08:50/21	07:57	08:40 09:12-09:18/6
	21:57	21:12	20:06	18:59	17:01	16:38
14	05:45	06:29	07:17	08:06 08:31-08:49/18	07:59	08:41 09:13-09:18/5
	21:56	21:11	20:04	18:57	17:00	16:38
15	05:46	06:30	07:19	08:07 08:33-08:47/14	08:01	08:42 09:14-09:19/5
	21:55	21:09	20:02	18:55	16:59	16:38
16	05:48	06:32	07:21	08:09 08:34-08:43/9	08:02	08:43 09:15-09:20/5
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:34	07:22	08:11 08:36-08:38/2	08:04	08:44 09:16-09:20/4
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50	06:35	07:24	08:12 08:38-08:39/1	08:06	08:44 09:16-09:20/4
	21:52	21:03	19:55	18:48	16:55	16:39
19	05:51	06:37	07:25	08:14	08:07	08:45 09:17-09:21/4
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38	07:27	08:16	08:09	08:46 09:18-09:22/4
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40	07:28	08:17	08:11	08:46 09:18-09:22/4
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41	07:30	08:19 08:45-08:50/5	08:12	08:47 09:19-09:23/4
	21:48	20:55	19:46	18:40	16:50	16:40
23	05:56	06:43	07:32	08:21 08:47-08:52/5	08:14	08:47 09:19-09:23/4
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58	06:44	07:33	08:23 08:49-08:53/4	08:15	08:48 09:19-09:23/4
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59	06:46	07:35	07:24 07:51-07:54/3	08:17	08:48 09:20-09:24/4
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48	07:36	07:26 07:53-07:54/1	08:19	08:49 09:20-09:24/4
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49	07:38	07:28	08:20	08:49 09:20-09:25/5
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03	06:51	07:40	07:29	08:22	08:49 09:20-09:25/5
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05	06:52	07:41 08:41-08:45/4	07:31	08:23	08:49 09:20-09:25/5
	21:38	20:40	19:30	17:26	16:44	16:45
30	06:06	06:54	07:43 08:20-08:28/8	07:33	08:24	08:49 09:20-09:25/5
	21:37	20:38	19:28 08:35-08:48/13	17:25	16:43	16:46
31	06:08	06:55		07:35		08:49 09:20-09:26/6
	21:35	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	0	0	25	477	13	131

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: NES_WT01 - VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 210,0 m) (26)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24 16:55-17:06/11	07:32	07:23	06:20	05:37	05:34	06:09	06:57	07:45	07:37	08:26 15:57-16:09/12
	16:48	17:35	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:26	17:21	16:42
2	08:50	08:23 16:55-17:07/12	07:30	07:21	06:18	05:36	05:35	06:11	06:59	07:46	07:38	08:27 15:58-16:09/11
	16:49	17:37	18:27	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:42
3	08:49	08:21 16:55-17:09/14	07:28	07:19	06:17	05:35	05:35	06:12	07:00	07:48	07:40	08:29 15:58-16:08/10
	16:50	17:38	18:28	20:20	21:10	21:53	22:04	21:30	20:29	19:21	17:18	16:41
4	08:49 16:16-16:18/2	08:19 16:56-17:11/15	07:26	07:17	06:15	05:34	05:36	06:14	07:02	07:49	07:42 16:30-16:33/3	08:30 16:00-16:08/8
	16:52	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16 16:39-16:45/6	16:41
5	08:49 16:16-16:19/3	08:18 16:57-17:07/10	07:24	07:14	06:13	05:34	05:37	06:15	07:04	07:51	07:44 16:27-16:36/9	08:31 16:00-16:07/7
	16:53	17:42 17:08-17:13/5	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:17	17:14 16:38-16:44/6	16:40
6	08:49 16:15-16:20/5	08:16 16:58-17:06/8	07:22	07:12	06:11	05:33	05:38	06:17	07:05	07:53	07:45 16:26-16:37/11	08:33 16:01-16:06/5
	16:54	17:44 17:09-17:15/6	18:34	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12 16:38-16:43/5	16:40
7	08:48 16:15-16:22/7	08:15 17:10-17:15/5	07:19	07:10	06:10	05:33	05:39	06:18	07:07	07:54	07:47 16:26-16:41/15	08:34 16:03-16:06/3
	16:55	17:46	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:11	16:39
8	08:48 16:15-16:23/8	08:13	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49 16:25-16:39/14	08:35 16:04-16:06/2
	16:56	17:47	18:37	20:29	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 16:15-16:25/10	08:11	07:15	07:06	06:06	05:32	05:40	06:21	07:10	07:58	07:50 16:25-16:38/13	08:36
	16:58	17:49	18:39	20:30	21:19	21:58	22:00	21:20	20:16	19:08	17:08	16:39
10	08:47 16:15-16:26/11	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52 16:26-16:36/10	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:06	17:06	16:39
11	08:46 16:14-16:27/13	08:08	07:11	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54 16:25-16:34/9	08:38
	17:01	17:53	18:42	20:34	21:22	22:00	21:59	21:16	20:11	19:03	17:05	16:38
12	08:46 16:14-16:29/15	08:06	07:08	06:59	06:01	05:31	05:43	06:26	07:14	08:02	07:56 16:26-16:32/6	08:39
	17:02	17:55	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 16:15-16:31/16	08:04	07:06	06:57	06:00	05:30	05:44	06:27	07:16	08:04	07:57 16:27-16:31/4	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:13	20:06	18:59	17:02	16:38
14	08:44 16:15-16:32/17	08:02	07:04	06:55	05:58	05:30	05:46	06:29	07:18	08:06	07:59 16:28-16:29/1	08:41
	17:05	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44 16:15-16:34/19	08:00	07:02	06:53	05:57	05:30	05:47	06:31	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59	16:38
16	08:43 16:16-16:32/16	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09	08:02	08:43
	17:08 16:33-16:36/3	18:02	18:51	20:42	21:30	22:03	21:55	21:07	20:00	18:53	16:57	16:38
17	08:42 16:16-16:33/17	07:57	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04	08:44
	17:09 16:34-16:37/3	18:04	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:51	16:56	16:39
18	08:41 16:17-16:33/16	07:55	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 15:57-16:04/7	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:55	16:39
19	08:40 16:17-16:33/16	07:53	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 15:55-16:06/11	08:45
	17:13	18:07	18:56	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:54	16:39
20	08:39 16:18-16:33/15	07:51	06:50	06:42	05:50	05:30	05:53	06:38	07:27	08:16	08:09 15:55-16:07/12	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:40
21	08:38 16:18-16:32/14	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:29	08:18	08:11 15:54-16:08/14	08:47
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37 16:20-16:32/12	07:47	06:46	06:38	05:47	05:30	05:55	06:42	07:30	08:19	08:12 15:54-16:09/15	08:47
	17:18	18:13	19:01	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36 16:21-16:32/11	07:45	06:44	06:36	05:46	05:30	05:57	06:43	07:32	08:21	08:14 15:53-16:09/16	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:53	19:44	18:38	16:49	16:41
24	08:35 16:23-16:30/7	07:43	06:41	06:34	05:45	05:31	05:58	06:45	07:33	08:23	08:16 15:54-16:10/16	08:48
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:42
25	08:34	07:41	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 15:54-16:11/17	08:48
	17:23	18:18	19:06	20:57	21:42	22:05	21:44	20:48	19:39	17:34	16:47 16:12-16:15/3	16:42
26	08:32	07:39	06:37	06:30	05:42	05:31	06:01	06:48	07:37	07:26	08:19 15:54-16:10/16	08:49
	17:24	18:20	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46 16:11-16:14/3	16:43
27	08:31	07:36	06:35	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 15:55-16:13/18	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:35	17:30	16:45	16:44
28	08:30 16:56-16:58/2	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:30	08:22 15:55-16:12/17	08:49
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:29	16:44	16:44
29	08:28 16:55-16:59/4		07:30	06:24	05:39	05:33	06:05	06:53	07:41	07:31	08:23 15:55-16:11/16	08:49
	17:30		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:27	16:44	16:45
30	08:27 16:55-17:02/7		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:25 15:56-16:11/15	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:25	16:43	16:46
31	08:26 16:54-17:03/9		07:26		05:37		06:08	06:56		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	278	86	0	0	0	0	0	0	0	0	308	58

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January		February		March		April	May	June
1	08:49		08:24	08:50-08:57/7	07:32		07:23	06:20	05:36
	16:48		17:35	09:06-09:28/22	18:25		20:17	21:06	21:50
2	08:49		08:22	08:48-08:56/8	07:30		07:21	06:18	05:36
	16:49		17:36	09:07-09:27/20	18:26		20:19	21:08	21:51
3	08:49		08:21	08:46-08:55/9	07:28		07:19	06:16	05:35
	16:50		17:38	09:08-09:26/18	18:28		20:20	21:09	21:52
4	08:49		08:19	08:45-08:55/10	07:26		07:16	06:15	05:34
	16:51		17:40	09:10-09:25/15	18:30		20:22	21:11	21:53
5	08:49		08:18	08:43-08:55/12	07:24		07:14	06:13	05:34
	16:53		17:42	09:13-09:22/9	18:32		20:24	21:13	21:54
6	08:49		08:16	08:41-08:56/15	07:21		07:12	06:11	05:33
	16:54		17:44		18:33		20:25	21:14	21:55
7	08:48		08:14	08:39-08:56/17	07:19	07:42-07:43/1	07:10	06:09	05:32
	16:55		17:45		18:35		20:27	21:16	21:56
8	08:48		08:13	08:38-08:56/18	07:17	07:40-07:41/1	07:08	06:08	05:32
	16:56		17:47		18:37		20:28	21:17	21:57
9	08:47	09:17-09:18/1	08:11	08:36-08:56/20	07:15		07:05	06:06	05:31
	16:58		17:49		18:38		20:30	21:19	21:58
10	08:47	09:16-09:18/2	08:09	08:34-08:55/21	07:13		07:03	06:04	05:31
	16:59		17:51		18:40		20:32	21:20	21:59
11	08:46	09:15-09:18/3	08:07	08:37-08:55/18	07:10		07:01	06:03	05:31
	17:00		17:53		18:42		20:33	21:22	21:59
12	08:46	09:14-09:19/5	08:06	08:38-08:54/16	07:08		06:59	06:01	05:30
	17:02		17:54		18:44		20:35	21:23	22:00
13	08:45	09:14-09:19/5	08:04	08:39-08:52/13	07:06		06:57	05:59	05:30
	17:03		17:56		18:45		20:37	21:25	22:01
14	08:44	09:13-09:21/8	08:02	08:42-08:50/8	07:04		06:55	05:58	05:30
	17:05		17:58		18:47		20:38	21:27	22:01
15	08:44	09:12-09:22/10	08:00		07:01		06:52	05:56	05:30
	17:06		18:00		18:49		20:40	21:28	22:02
16	08:43	09:11-09:23/12	07:58	08:22-08:23/1	06:59		06:50	05:55	05:30
	17:08		18:02		18:50		20:42	21:29	22:02
17	08:42	09:10-09:24/14	07:56	08:20-08:22/2	06:57		06:48	05:53	05:30
	17:09		18:03		18:52		20:43	21:31	22:03
18	08:41	09:09-09:25/16	07:54	08:18-08:19/1	06:55		06:46	05:52	05:30
	17:11		18:05		18:54		20:45	21:32	22:03
19	08:40	09:08-09:26/18	07:53		06:53		06:44	05:51	05:30
	17:12		18:07		18:55		20:47	21:34	22:04
20	08:39	09:06-09:26/20	07:51		06:50		06:42	05:49	05:30
	17:14		18:09		18:57		20:48	21:35	22:04
21	08:38	09:05-09:27/22	07:49		06:48		06:40	05:48	05:30
	17:16		18:11		18:59		20:50	21:37	22:04
22	08:37	09:04-09:28/24	07:47		06:46		06:38	05:47	05:30
	17:17		18:12		19:00		20:51	21:38	22:04
23	08:36	09:03-09:28/25	07:45		06:43		06:36	05:46	05:30
	17:19		18:14		19:02		20:53	21:39	22:05
24	08:35	09:02-09:28/26	07:42		06:41		06:34	05:44	05:30
	17:21		18:16		19:04		20:55	21:41	22:05
25	08:33	09:02-09:29/27	07:40		06:39		06:32	05:43	05:31
	17:22		18:18		19:05		20:56	21:42	22:05
26	08:32	09:03-09:29/26	07:38		06:37		06:30	05:42	05:31
	17:24		18:19		19:07		20:58	21:43	22:05
27	08:31	09:03-09:29/26	07:36		06:34		06:28	05:41	05:32
	17:26		18:21		19:09		21:00	21:45	22:05
28	08:30	08:56-08:57/1	07:34		06:32		06:26	05:40	05:32
	17:28	09:03-09:30/27	18:23		19:10		21:01	21:46	22:05
29	08:28	08:54-08:57/3			07:30		06:24	05:39	05:33
	17:29	09:03-09:29/26			20:12		21:03	21:47	22:04
30	08:27	08:53-08:58/5			07:28		06:22	05:38	05:33
	17:31	09:05-09:29/24			20:14		21:05	21:48	22:04
31	08:25	08:51-08:57/6			07:25			05:37	
	17:33	09:05-09:28/23			20:15			21:49	
Potential sun hours	262		279		367		414	482	494
Sum of minutes with flicker	405		280		2		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: RHR_WT01 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (47)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36	08:04-08:25/21	08:26	08:57-09:00/3
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:34	06:11	06:59	07:46		07:38	08:06-08:26/20	08:27	08:59-09:01/2
	22:04	21:32	20:31	19:23		17:19		16:41	
3	05:35	06:12	07:00	07:48		07:40	08:07-08:25/18	08:29	09:00-09:01/1
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:25/16	08:30	
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:25/14	08:31	
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52	08:17-08:18/1	07:45	08:13-08:25/12	08:32	
	22:02	21:25	20:22	19:14		17:12	08:42-08:52/10	16:39	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:25/10	08:34	
	22:01	21:23	20:20	19:12		17:11	08:40-08:55/15	16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:26/9	08:35	
	22:01	21:22	20:18	19:10		17:09	08:39-08:57/18	16:39	
9	05:40	06:21	07:10	07:57		07:50	08:19-08:27/8	08:36	
	22:00	21:20	20:15	19:08		17:07	08:38-08:58/20	16:39	
10	05:41	06:23	07:11	07:59		07:52	08:21-08:28/7	08:37	
	22:00	21:18	20:13	19:05		17:06	08:37-08:59/22	16:38	
11	05:42	06:24	07:13	08:01		07:54	08:23-08:29/6	08:38	
	21:59	21:16	20:11	19:03		17:04	08:36-08:59/23	16:38	
12	05:43	06:26	07:14	08:02		07:55	08:24-08:29/5	08:39	
	21:58	21:14	20:09	19:01		17:03	08:35-09:00/25	16:38	
13	05:44	06:27	07:16	08:04		07:57	08:26-08:29/3	08:40	
	21:57	21:12	20:06	18:59		17:01	08:35-09:01/26	16:38	
14	05:45	06:29	07:17	08:06		07:59	08:28-08:29/1	08:41	
	21:56	21:10	20:04	18:57		17:00	08:35-09:01/26	16:38	
15	05:46	06:30	07:19	08:07		08:01	08:36-09:02/26	08:42	
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09		08:02	08:36-09:02/26	08:43	
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-09:03/27	08:44	
	21:53	21:05	19:57	18:50		16:56		16:38	
18	05:50	06:35	07:24	08:12		08:06	08:36-09:02/26	08:44	
	21:52	21:03	19:55	18:48		16:55		16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-09:02/25	08:45	
	21:51	21:01	19:53	18:46		16:53		16:39	
20	05:52	06:38	07:27	08:16		08:09	08:39-09:03/24	08:46	
	21:50	20:59	19:50	18:44		16:52		16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-09:03/22	08:46	
	21:49	20:57	19:48	18:42		16:51		16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-09:03/20	08:47	
	21:48	20:54	19:46	18:40		16:50		16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-09:02/18	08:47	
	21:46	20:52	19:43	18:38		16:49		16:41	
24	05:58	06:44	07:33	08:23	08:49-08:51/2	08:15	08:46-09:02/16	08:48	
	21:45	20:50	19:41	18:36		16:48		16:41	
25	05:59	06:46	07:35	07:24	07:51-07:53/2	08:17	08:48-09:02/14	08:48	
	21:44	20:48	19:39	17:34		16:47		16:42	
26	06:00	06:48	07:36	07:26	07:53-07:54/1	08:19	08:49-09:01/12	08:49	
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28		08:20	08:51-09:01/10	08:49	
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:40	07:29	08:11-08:20/9	08:22	08:53-09:01/8	08:49	
	21:40	20:42	19:32	17:28		16:44		16:44	
29	06:05	06:52	07:41	07:31	08:09-08:22/13	08:23	08:54-09:00/6	08:49	
	21:38	20:40	19:30	17:26		16:44		16:45	
30	06:06	06:54	07:43	07:33	08:08-08:23/15	08:24	08:56-09:00/4	08:49	
	21:37	20:38	19:28	17:25		16:43		16:46	
31	06:08	06:55		07:35	08:07-08:24/17			08:49	
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	60		619		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: RHR_WT02 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (49)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49 09:31-09:50/19	08:24	07:32	07:23	06:20	05:36	05:34	06:09	06:57	07:44	07:36	08:26 08:57-08:58/1
	16:48	17:35	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42 09:23-09:30/7
2	08:49 09:32-09:51/19	08:22	07:30	07:21	06:18	05:36	05:34	06:11	06:59	07:46	07:38	08:27 09:22-09:32/10
	16:49	17:36	18:26	20:19	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49 09:31-09:50/19	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:48	07:40 08:08-08:09/1	08:29 09:21-09:33/12
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49 09:33-09:51/18	08:19	07:26	07:16	06:15	05:34	05:36	06:14	07:02	07:49	07:42 08:09-08:10/1	08:30 09:21-09:35/14
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49 09:34-09:51/17	08:18	07:24	07:14	06:13	05:34	05:37	06:15	07:03	07:51	07:43	08:31 09:21-09:36/15
	16:53	17:42	18:32	20:24	21:13	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:49 09:34-09:50/16	08:16	07:21	07:12	06:11	05:33	05:38	06:17	07:05	07:52	07:45	08:32 09:20-09:36/16
	16:54	17:44	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48 09:35-09:51/16	08:14 08:39-08:40/1	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34 09:20-09:37/17
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:11	16:39
8	08:48 09:36-09:50/14	08:13 08:38-08:39/1	07:17	07:08	06:08	05:32	05:39	06:20	07:08	07:56	07:49	08:35 09:21-09:39/18
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47 09:38-09:50/12	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:10	07:57	07:50	08:36 09:21-09:39/18
	16:58	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:08	17:07	16:39
10	08:47 09:39-09:49/10	08:09	07:13	07:03	06:04	05:31	05:41	06:23	07:11	07:59	07:52	08:37 09:21-09:40/19
	16:59	17:51	18:40	20:32	21:20	21:59	21:59	21:18	20:13	19:05	17:06	16:38
11	08:46 09:15-09:16/1	08:07	07:10	07:01	06:03	05:31	05:42	06:24	07:13	08:01	07:54	08:38 09:21-09:40/19
	17:00 09:41-09:48/7	17:53	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46 09:14-09:17/3	08:06	07:08	06:59	06:01	05:30	05:43	06:26	07:14	08:02	07:55	08:39 09:21-09:41/20
	17:02	17:54	18:44	20:35	21:23	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45 09:14-09:18/4	08:04	07:06	06:57	05:59	05:30	05:44	06:27	07:16	08:04	07:57 08:26-08:30/4	08:40 09:21-09:41/20
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44 09:13-09:19/6	08:02	07:04	06:55	05:58	05:30	05:45	06:29	07:17	08:06	07:59 08:28-08:32/4	08:41 09:22-09:42/20
	17:05	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44 09:12-09:20/8	08:00	07:01	06:52	05:56	05:30	05:46	06:30	07:19	08:07	08:01 08:30-08:33/3	08:42 09:22-09:43/21
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:55	16:59 08:44-08:50/6	16:38
16	08:43 09:11-09:20/9	07:58	06:59	06:50	05:55	05:30	05:48	06:32	07:21	08:09 08:35-08:36/1	08:02 08:32-08:34/2	08:43 09:23-09:44/21
	17:08	18:02	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57 08:42-08:52/10	16:38 09:17-09:19/2
17	08:42 09:10-09:21/11	07:56	06:57	06:48	05:54	05:30	05:49	06:34	07:22	08:11	08:04 08:42-08:54/12	08:44 09:23-09:44/21
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:39 09:17-09:20/3
18	08:41 09:09-09:21/12	07:54	06:55	06:46	05:52	05:30	05:50	06:35	07:24	08:12	08:06 08:40-08:54/14	08:44 09:23-09:44/21
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:55	16:39 09:16-09:21/5
19	08:40 09:08-09:22/14	07:52	06:53	06:44	05:51	05:30	05:51	06:37	07:25	08:14	08:07 08:40-08:56/16	08:45 09:24-09:45/21
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39 09:17-09:22/5
20	08:39 09:07-09:22/15	07:51	06:50	06:42	05:49	05:30	05:53	06:38	07:27	08:16	08:09 08:40-08:56/16	08:46 09:25-09:46/21
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39 09:18-09:23/5
21	08:38 09:05-09:21/16	07:49	06:48	06:40	05:48	05:30	05:54	06:40	07:28	08:17	08:11 08:41-08:57/16	08:46 09:24-09:46/22
	17:16	18:11	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40 09:18-09:23/5
22	08:37 09:05-09:21/16	07:47	06:46	06:38	05:47	05:30	05:55	06:41	07:30	08:19	08:12 08:43-08:58/15	08:47 09:25-09:47/22
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40 09:19-09:24/5
23	08:36 09:06-09:22/16	07:45	06:43	06:36	05:46	05:30	05:56	06:43	07:32	08:21	08:14 08:44-08:58/14	08:47 09:26-09:47/21
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41 09:19-09:24/5
24	08:35 09:06-09:20/14	07:42	06:41	06:34	05:44	05:30	05:58	06:44	07:33	08:23	08:15 08:46-08:58/12	08:48 09:26-09:47/21
	17:21	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41 09:19-09:24/5
25	08:33 09:08-09:20/12	07:40	06:39	06:32	05:43	05:31	05:59	06:46	07:35	07:24	08:17 08:48-08:59/11	08:48 09:27-09:48/21
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42 09:20-09:25/5
26	08:32 08:59-09:01/2	07:38 08:02-08:03/1	06:37	06:30	05:42	05:31	06:00	06:48	07:36	07:26	08:18 08:49-08:58/9	08:49 09:27-09:48/21
	17:24 09:09-09:19/10	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:43 09:20-09:25/5
27	08:31 08:57-09:00/3	07:36	06:34	06:28	05:41	05:32	06:02	06:49	07:38	07:28	08:20 08:51-08:59/8	08:49 09:27-09:48/21
	17:26 09:11-09:17/6	18:21	19:09	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43 09:21-09:24/3
28	08:30 08:56-09:00/4	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:40	07:29	08:22 08:53-08:59/6	08:49 09:28-09:49/21
	17:28	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44 09:23-09:24/1
29	08:28 08:54-08:58/4		07:30	06:24	05:39	05:33	06:05	06:52	07:41	07:31	08:23 08:54-08:59/5	08:49 09:28-09:49/21
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:44	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24 08:56-08:59/3	08:49 09:29-09:49/20
	17:31		20:14	21:04	21:48	22:04	21:37	20:37	19:28	17:25	16:43	16:46
31	08:25		07:25		05:37		06:08	06:55		07:35		08:49 09:30-09:50/20
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	414	482	494	498	451	380	333	269	248
Sum of minutes with flicker	353	3	0	0	0	0	0	0	0	1	188	637

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:20-09:48/28	08:24	07:32 07:55-07:59/4	07:23	06:20	05:36
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:20-09:49/29	08:22	07:30	07:21	06:18	05:36
	16:49	17:36	18:26	20:19	21:08	21:51
3	08:49 09:20-09:49/29	08:21 08:46-08:47/1	07:28	07:19	06:16	05:35
	16:50	17:38	18:28	20:20	21:09	21:52
4	08:49 09:19-09:50/31	08:19 08:45-08:48/3	07:26	07:17	06:15	05:34
	16:51	17:40	18:30	20:22	21:11	21:53
5	08:49 09:19-09:50/31	08:18 08:43-08:47/4	07:24	07:14	06:13	05:34
	16:53	17:42	18:32	20:24	21:13	21:54
6	08:49 09:18-09:50/32	08:16 08:41-08:46/5	07:21	07:12	06:11	05:33
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:18-09:51/33	08:14 08:39-08:44/5	07:19	07:10	06:09	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:51/34	08:13	07:17	07:08	06:08	05:32
	16:56	17:47	18:37	20:28	21:17	21:57
9	08:47 09:17-09:52/35	08:11	07:15	07:05	06:06	05:31
	16:58	17:49	18:39	20:30	21:19	21:58
10	08:47 09:17-09:51/34	08:09	07:13	07:03	06:04	05:31
	16:59	17:51	18:40	20:32	21:20	21:59
11	08:46 09:18-09:51/33	08:08	07:10	07:01	06:03	05:31
	17:00	17:53	18:42	20:33	21:22	21:59
12	08:46 09:20-09:51/31	08:06	07:08	06:59	06:01	05:30
	17:02	17:54	18:44	20:35	21:24	22:00
13	08:45 09:21-09:28/7	08:04	07:06	06:57	05:59	05:30
	17:03 09:30-09:52/22	17:56	18:45	20:37	21:25	22:01
14	08:44 09:23-09:27/4	08:02	07:04	06:55	05:58	05:30
	17:05 09:31-09:52/21	17:58	18:47	20:38	21:27	22:01
15	08:44 09:31-09:51/20	08:00	07:02	06:52	05:56	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:32-09:51/19	07:58	06:59	06:50	05:55	05:30
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42 09:10-09:12/2	07:56	06:57	06:48	05:54	05:30
	17:09 09:34-09:50/16	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:12/3	07:54	06:55	06:46	05:52	05:30
	17:11 09:35-09:49/14	18:05	18:54	20:45	21:32	22:03
19	08:40 09:08-09:13/5	07:53	06:53	06:44	05:51	05:30
	17:12 09:37-09:48/11	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:13/6	07:51	06:50	06:42	05:49	05:30
	17:14 09:40-09:46/6	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:12/7	07:49	06:48	06:40	05:48	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37 09:04-09:12/8	07:47	06:46	06:38	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:12/9	07:45	06:44	06:36	05:46	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35 09:02-09:12/10	07:43	06:41	06:34	05:44	05:31
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33 09:02-09:10/8	07:40	06:39	06:32	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 09:06-09:08/2	07:38 08:02-08:04/2	06:37	06:30	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:00-08:03/3	06:34	06:28	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34 07:57-08:01/4	06:32	06:26	05:40	05:32
	17:28	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30	06:24	05:39	05:33
	17:29		20:12	21:03	21:47	22:04
30	08:27		07:28	06:22	05:38	05:33
	17:31		20:14	21:05	21:48	22:04
31	08:25		07:25		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	414	482	494
Sum of minutes with flicker	580	27	4	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: RHR_WT03 - NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199,5 m) (48)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October		November		December	
1	05:34	06:09	06:57	07:44		07:36		08:26	09:00-09:33/33
	22:04	21:33	20:33	19:25		17:21		16:42	
2	05:35	06:11	06:59	07:46		07:38		08:27	09:00-09:34/34
	22:04	21:32	20:31	19:23		17:19		16:42	
3	05:35	06:12	07:00	07:48		07:40		08:29	09:00-09:35/35
	22:03	21:30	20:29	19:21		17:17		16:41	
4	05:36	06:14	07:02	07:49		07:42	08:09-08:14/5	08:30	09:02-09:36/34
	22:03	21:29	20:27	19:19		17:16		16:40	
5	05:37	06:15	07:03	07:51		07:43	08:11-08:16/5	08:31	09:03-09:36/33
	22:03	21:27	20:24	19:16		17:14		16:40	
6	05:38	06:17	07:05	07:52		07:45	08:13-08:17/4	08:33	09:04-09:36/32
	22:02	21:25	20:22	19:14		17:12		16:40	
7	05:38	06:18	07:06	07:54		07:47	08:15-08:18/3	08:34	09:06-09:37/31
	22:01	21:23	20:20	19:12		17:11		16:39	
8	05:39	06:20	07:08	07:56		07:49	08:17-08:18/1	08:35	09:07-09:38/31
	22:01	21:22	20:18	19:10		17:09		16:39	
9	05:40	06:21	07:10	07:57		07:50		08:36	09:08-09:38/30
	22:00	21:20	20:15	19:08		17:07		16:39	
10	05:41	06:23	07:11	07:59		07:52		08:37	09:09-09:38/29
	22:00	21:18	20:13	19:05		17:06		16:38	
11	05:42	06:24	07:13	08:01		07:54		08:38	09:10-09:39/29
	21:59	21:16	20:11	19:03		17:04		16:38	
12	05:43	06:26	07:14	08:02		07:56		08:39	09:11-09:39/28
	21:58	21:14	20:09	19:01		17:03		16:38	
13	05:44	06:27	07:16	08:04	08:29-08:33/4	07:57		08:40	09:12-09:39/27
	21:57	21:12	20:06	18:59		17:01		16:38	
14	05:45	06:29	07:17	08:06	08:31-08:35/4	07:59		08:41	09:13-09:40/27
	21:56	21:11	20:04	18:57		17:00		16:38	
15	05:47	06:30	07:19	08:07	08:33-08:36/3	08:01		08:42	09:14-09:40/26
	21:55	21:09	20:02	18:55		16:59		16:38	
16	05:48	06:32	07:21	08:09	08:35-08:36/1	08:02	08:38-08:42/4	08:43	09:15-09:41/26
	21:54	21:07	19:59	18:52		16:57		16:38	
17	05:49	06:34	07:22	08:11		08:04	08:36-08:44/8	08:44	09:16-09:42/26
	21:53	21:05	19:57	18:50		16:56		16:39	
18	05:50	06:35	07:24	08:12		08:06	08:36-08:46/10	08:44	09:16-09:41/25
	21:52	21:03	19:55	18:48		16:55		16:39	
19	05:51	06:37	07:25	08:14		08:07	08:37-08:46/9	08:45	09:17-09:42/25
	21:51	21:01	19:53	18:46		16:53		16:39	
20	05:53	06:38	07:27	08:16		08:09	08:39-08:47/8	08:46	09:18-09:43/25
	21:50	20:59	19:50	18:44		16:52		16:39	
21	05:54	06:40	07:28	08:17		08:11	08:41-08:48/7	08:46	09:18-09:43/25
	21:49	20:57	19:48	18:42		16:51		16:40	
22	05:55	06:41	07:30	08:19		08:12	08:43-08:49/6	08:47	09:19-09:44/25
	21:48	20:55	19:46	18:40		16:50	09:16-09:22/6	16:40	
23	05:56	06:43	07:32	08:21		08:14	08:44-08:49/5	08:47	09:19-09:44/25
	21:46	20:52	19:44	18:38		16:49	09:13-09:24/11	16:41	
24	05:58	06:45	07:33	08:23		08:15	08:46-08:49/3	08:48	09:19-09:44/25
	21:45	20:50	19:41	18:36		16:48	09:12-09:26/14	16:41	
25	05:59	06:46	07:35	07:24		08:17	08:48-08:50/2	08:48	09:20-09:45/25
	21:44	20:48	19:39	17:34		16:47	09:12-09:28/16	16:42	
26	06:01	06:48	07:36	07:26		08:19	09:11-09:29/18	08:49	09:20-09:46/26
	21:42	20:46	19:37	17:32		16:46		16:43	
27	06:02	06:49	07:38	07:28		08:20	09:11-09:30/19	08:49	09:20-09:46/26
	21:41	20:44	19:34	17:30		16:45		16:43	
28	06:03	06:51	07:40	07:29		08:22	09:04-09:06/2	08:49	09:20-09:46/26
	21:40	20:42	19:32	17:28		16:44	09:11-09:32/21	16:44	
29	06:05	06:52	07:41	07:31		08:23	09:01-09:08/7	08:49	09:20-09:47/27
	21:38	20:40	19:30	17:26		16:44	09:10-09:32/22	16:45	
30	06:06	06:54	07:43	07:33		08:24	09:01-09:33/32	08:49	09:20-09:47/27
	21:37	20:38	19:28	17:25		16:43		16:46	
31	06:08	06:56		07:35				08:49	09:20-09:48/28
	21:35	20:35		17:23				16:47	
Potential sun hours	498	451	380	333		269		248	
Sum of minutes with flicker	0	0	0	12		248		871	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SAM_WT01 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (27)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20 06:44-06:46/2	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:42-06:44/2	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:40-06:42/2	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22 06:50-06:52/2	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24 06:51-06:53/2	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25 06:53-06:54/1	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:56	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:29	05:45	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:24	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36 07:03-07:05/2	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38 07:05-07:07/2	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:40 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38 07:01-07:03/2	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35 06:59-07:01/2	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33 06:57-06:59/2	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	6	6	0	0	10	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April		May		June	
1	08:49	08:24	07:32	07:23		06:20		05:36	06:04-06:06/2
	16:48	17:34	18:24	20:17		21:06		21:50	
2	08:49	08:22	07:30	07:21		06:18		05:35	06:04-06:06/2
	16:49	17:36	18:26	20:18		21:08		21:51	
3	08:49	08:21	07:28	07:19		06:16		05:35	06:03-06:05/2
	16:50	17:38	18:28	20:20		21:09		21:52	
4	08:49	08:19	07:26	07:16		06:14		05:34	
	16:51	17:40	18:30	20:22		21:11		21:53	
5	08:49	08:18	07:23	07:14		06:13		05:33	
	16:52	17:42	18:31	20:23		21:13		21:54	
6	08:49	08:16	07:21	07:12	07:34-07:36/2	06:11		05:33	
	16:53	17:43	18:33	20:25		21:14		21:55	
7	08:48	08:14	07:19	07:10	07:32-07:36/4	06:09		05:32	
	16:55	17:45	18:35	20:27		21:16		21:56	
8	08:48	08:13	07:17	07:07	07:30-07:35/5	06:07		05:32	
	16:56	17:47	18:37	20:28		21:17		21:57	
9	08:47	08:11	07:15	07:05	07:28-07:34/6	06:06		05:31	
	16:57	17:49	18:38	20:30		21:19		21:58	
10	08:47	08:09	07:12	07:03		06:04	06:29-06:30/1	05:31	
	16:59	17:51	18:40	20:32		21:20		21:59	
11	08:46	08:07	07:10	07:01		06:02		05:30	
	17:00	17:52	18:42	20:33		21:22		21:59	
12	08:46	08:06	07:08	06:59		06:01		05:30	
	17:01	17:54	18:43	20:35		21:23		22:00	
13	08:45	08:04	07:06	06:57		05:59		05:30	
	17:03	17:56	18:45	20:37		21:25		22:01	
14	08:44	08:02	07:04	06:54		05:58		05:30	
	17:04	17:58	18:47	20:38		21:26		22:01	
15	08:44	08:00	07:01	06:52	07:15-07:17/2	05:56		05:29	
	17:06	18:00	18:49	20:40		21:28		22:02	
16	08:43	07:58	06:59	06:50	07:13-07:17/4	05:55		05:29	
	17:07	18:01	18:50	20:42		21:29		22:02	
17	08:42	07:56	06:57	06:48	07:11-07:16/5	05:53		05:29	
	17:09	18:03	18:52	20:43		21:31		22:03	
18	08:41	07:54	06:55	06:46	07:09-07:15/6	05:52		05:29	
	17:11	18:05	18:54	20:45		21:32		22:03	
19	08:40	07:52	06:52	06:44	07:10-07:12/2	05:50		05:29	
	17:12	18:07	18:55	20:46		21:34		22:04	
20	08:39	07:50	06:50	06:42		05:49		05:29	
	17:14	18:09	18:57	20:48		21:35		22:04	
21	08:38	07:48	06:48	06:40		05:48		05:29	
	17:15	18:10	18:59	20:50		21:37		22:04	
22	08:37	07:46	06:46	06:38		05:47		05:30	
	17:17	18:12	19:00	20:51		21:38		22:04	
23	08:36	07:44	06:43	06:36		05:45		05:30	
	17:19	18:14	19:02	20:53		21:39		22:05	
24	08:35	07:42	06:41	06:33		05:44		05:30	
	17:20	18:16	19:04	20:55		21:41		22:05	
25	08:33	07:40	06:39	06:31		05:43		05:30	
	17:22	18:17	19:05	20:56		21:42		22:05	
26	08:32	07:38	06:37	06:29		05:42		05:31	
	17:24	18:19	19:07	20:58		21:43		22:05	
27	08:31	07:36	06:34	06:28		05:41		05:31	
	17:26	18:21	19:09	21:00		21:45		22:05	
28	08:30	07:34	06:32	06:26		05:40		05:32	
	17:27	18:23	19:10	21:01		21:46		22:05	
29	08:28		07:30	06:24		05:39	06:07-06:08/1	05:32	
	17:29		20:12	21:03		21:47		22:04	
30	08:27		07:28	06:22		05:38	06:06-06:07/1	05:33	
	17:31		20:13	21:04		21:48		22:04	
31	08:25		07:25			05:37	06:05-06:07/2		
	17:33		20:15			21:49			
Potential sun hours	262	279	367	415		482		495	
Sum of minutes with flicker	0	0	0	36		5		6	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SAM_WT02 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (29)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10		06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12	06:40-06:41/1	07:00	07:26-07:32/6	07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02	07:27-07:32/5	07:49	07:42	08:30
	22:03		21:29		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03	07:29-07:33/4	07:51	07:43	08:31
	22:03		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05	07:30-07:32/2	07:52	07:45	08:32
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06		07:54	07:47	08:34
	22:01		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08		07:56	07:49	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41	06:11-06:13/2	06:22		07:11		07:59	07:52	08:37
	22:00		21:18		20:13		19:05	17:06	16:38
11	05:42	06:12-06:14/2	06:24		07:13		08:01	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43	06:13-06:15/2	06:25		07:14		08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44	06:14-06:15/1	06:27		07:16		08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45	06:15-06:16/1	06:29		07:17		08:06	07:59	08:41
	21:56		21:10		20:04		18:57	17:00	16:38
15	05:46		06:30		07:19		08:07	08:01	08:42
	21:55		21:08		20:02		18:54	16:58	16:38
16	05:47		06:32		07:20		08:09	08:02	08:43
	21:54		21:07		19:59		18:52	16:57	16:38
17	05:48		06:33		07:22		08:11	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50		06:35		07:24		08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51		06:36		07:25		08:14	08:07	08:45
	21:51		21:01		19:52		18:46	16:53	16:39
20	05:52		06:38		07:27		08:16	08:09	08:46
	21:50		20:59		19:50		18:44	16:52	16:39
21	05:53		06:40		07:28		08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55		06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56		06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44	07:14-07:17/3	07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46	07:12-07:18/6	07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47	07:14-07:19/5	07:36		07:26	08:18	08:49
	21:42		20:46		19:36		17:32	16:46	16:42
27	06:02		06:49	07:15-07:19/4	07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51	07:17-07:19/2	07:39		07:29	08:22	08:49
	21:40		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52		07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54		07:43		07:33	08:24	08:49
	21:37		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:23		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	8		21		17		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SAM_WT03 - SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m) (28)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:36	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14 07:37-07:38/1	06:13	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06 07:32-07:33/1	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32	05:39	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57 07:19-07:21/2	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:22/5	05:58	05:30	05:45	06:29 06:59-07:05/6	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52 07:15-07:22/7	05:56	05:29	05:46	06:30 06:57-07:06/9	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50 07:13-07:21/8	05:55	05:29	05:47	06:32 06:59-07:07/8	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48 07:12-07:20/8	05:53	05:29	05:48	06:33 07:00-07:07/7	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46 07:13-07:18/5	05:52	05:29	05:50	06:35 07:02-07:07/5	07:24	08:12	08:06	08:44
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51 06:20-06:22/2	06:36 07:03-07:06/3	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52 06:21-06:23/2	06:38 07:05-07:06/1	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48 06:14-06:15/1	05:29	05:53 06:23-06:25/2	06:40	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:38	05:47 06:13-06:15/2	05:30	05:55 06:24-06:26/2	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:36 06:59-07:01/2	05:45 06:12-06:14/2	05:30	05:56 06:25-06:26/1	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:34 06:57-07:00/3	05:44 06:11-06:13/2	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32 06:55-07:00/5	05:43	05:30	05:59	06:46 07:16-07:21/5	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30 06:53-07:00/7	05:42	05:31	06:00	06:47 07:14-07:23/9	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28 06:51-06:59/8	05:41	05:31	06:02	06:49 07:15-07:23/8	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26 06:49-06:58/9	05:40	05:32	06:03	06:51 07:17-07:23/6	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:51-06:57/6	05:39	05:32	06:04	06:52 07:18-07:23/5	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38	05:33	06:06	06:54 07:20-07:22/2	07:43	07:33	08:24	08:49
	17:31		20:14	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	76	7	0	9	74	1	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49	08:24 08:58-09:13/15	07:32	07:23 07:45-07:53/8	06:20 06:44-06:47/3	05:36
	16:48	17:35	18:25	20:17	21:06 06:53-07:23/30	21:50
2	08:49	08:22 08:59-09:12/13	07:30	07:21 07:43-07:55/12	06:18 06:42-06:46/4	05:35
	16:49	17:36	18:26	20:19	21:08 06:53-07:22/29	21:51
3	08:49	08:21 09:01-09:10/9	07:28	07:19 07:41-07:55/14	06:16 06:41-06:46/5	05:35
	16:50	17:38	18:28	20:20	21:09 06:53-07:22/29	21:52
4	08:49	08:19 09:04-09:08/4	07:26	07:16 07:39-07:56/17	06:14 06:39-06:44/5	05:34
	16:51	17:40 08:45-08:46/1	18:30	20:22	21:11 06:53-07:22/29	21:53
5	08:49	08:18 08:43-08:46/3	07:23	07:14 07:37-07:56/19	06:13 06:53-07:21/28	05:33
	16:52	17:42	18:32	20:23	21:13	21:54
6	08:49	08:16 08:41-08:46/5	07:21	07:12 07:35-07:55/20	06:11 06:53-07:20/27	05:33
	16:54	17:43	18:33	20:25	21:14	21:55
7	08:48 09:18-09:19/1	08:14 08:39-08:47/8	07:19	07:10 07:35-07:55/20	06:09 06:54-07:20/26	05:32
	16:55	17:45	18:35	20:27	21:16	21:56
8	08:48 09:17-09:20/3	08:13 08:38-08:48/10	07:17	07:08 07:35-07:54/19	06:07 06:32-06:33/1	05:32
	16:56	17:47	18:37	20:28	21:17 06:55-07:19/24	21:57
9	08:47 09:17-09:21/4	08:11 08:36-08:48/12	07:15 07:38-07:39/1	07:05 07:28-07:29/1	06:06 06:31-06:34/3	05:31
	16:57	17:49	18:38	20:30 07:35-07:53/18	21:19 06:56-07:18/22	21:58
10	08:47 09:16-09:21/5	08:09 08:34-08:48/14	07:13 07:35-07:39/4	07:03 07:36-07:52/16	06:04 06:29-06:34/5	05:31
	16:59	17:51	18:40	20:32	21:20 06:57-07:17/20	21:59
11	08:46 09:15-09:22/7	08:07 08:32-08:47/15	07:10 07:33-07:39/6	07:01 07:37-07:49/12	06:02 06:28-06:36/8	05:30
	17:00	17:53	18:42	20:33	21:22 06:58-07:16/18	21:59
12	08:46 09:15-09:23/8	08:06 08:33-08:46/13	07:08 07:31-07:38/7	06:59 07:39-07:46/7	06:01 06:26-06:36/10	05:30
	17:02	17:54	18:44	20:35	21:23 06:59-07:14/15	22:00
13	08:45 09:14-09:24/10	08:04 08:34-08:45/11	07:06 07:28-07:37/9	06:57	05:59 06:25-06:37/12	05:30
	17:03	17:56	18:45	20:37	21:25 07:02-07:12/10	22:01
14	08:44 09:13-09:24/11	08:02 08:35-08:43/8	07:04 07:26-07:34/8	06:54	05:58 06:23-06:36/13	05:30
	17:04	17:58	18:47	20:38	21:27	22:01
15	08:44 09:12-09:24/12	08:00	07:01 07:24-07:31/7	06:52	05:56 06:22-06:37/15	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43 09:11-09:25/14	07:58	06:59 07:22-07:32/10	06:50	05:55 06:21-06:37/16	05:29
	17:08	18:02	18:50	20:42	21:29	22:02
17	08:42 09:10-09:25/15	07:56	06:57 07:19-07:31/12	06:48	05:53 06:19-06:36/17	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41 09:09-09:25/16	07:54	06:55 07:17-07:31/14	06:46	05:52 06:19-06:36/17	05:29
	17:11	18:05	18:54	20:45	21:32	22:03
19	08:40 09:10-09:25/15	07:52	06:52 07:15-07:31/16	06:44	05:51 06:19-06:36/17	05:29
	17:12	18:07	18:55	20:47	21:34	22:04
20	08:39 09:07-09:09/2	07:50	06:50 07:16-07:30/14	06:42 07:08-07:13/5	05:49 06:20-06:36/16	05:29
	17:14 09:11-09:25/14	18:09	18:57	20:48	21:35	22:04
21	08:38 09:05-09:09/4	07:49	06:48 07:16-07:27/11	06:40 07:04-07:17/13	05:48 06:19-06:35/16	05:30
	17:16 09:11-09:24/13	18:10	18:59	20:50	21:37	22:04
22	08:37 09:04-09:11/7	07:46	06:46 07:18-07:25/7	06:38 07:01-07:19/18	05:47 06:20-06:35/15	05:30
	17:17 09:12-09:24/12	18:12	19:00	20:51	21:38	22:04
23	08:36 09:03-09:12/9	07:44	06:43 07:06-07:08/2	06:36 06:59-07:20/21	05:45 06:21-06:34/13	05:30
	17:19 09:14-09:23/9	18:14	19:02	20:53	21:39	22:05
24	08:35 09:01-09:12/11	07:42	06:41 07:04-07:07/3	06:34 06:58-07:21/23	05:44 06:22-06:33/11	05:30
	17:21 09:15-09:21/6	18:16	19:04	20:55	21:41	22:05
25	08:33 09:00-09:13/13	07:40	06:39 07:01-07:05/4	06:32 06:56-07:22/26	05:43 06:23-06:32/9	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32 08:59-09:14/15	07:38	06:37	06:30 06:55-07:22/27	05:42 06:25-06:30/5	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31 08:57-09:14/17	07:36	06:34	06:28 06:54-07:22/28	05:41	05:31
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30 08:56-09:14/18	07:34	06:32	06:26 06:54-07:22/28	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28 08:56-09:14/18		07:30	06:24 06:54-07:23/29	05:39	05:32
	17:29		20:12	21:03	21:47	22:04
30	08:27 08:57-09:14/17		07:28 07:50-07:51/1	06:22 06:46-06:47/1	05:38	05:33
	17:31		20:14	21:04 06:54-07:23/29	21:48	22:04
31	08:25 08:57-09:13/16		07:25 07:48-07:52/4		05:37	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	322	141	140	431	543	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SAM_WT04 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (30)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34	06:09 06:37-06:46/9	06:57 07:37-07:49/12	07:44 08:09-08:17/8	07:36 08:04-08:17/13	08:26 08:57-09:04/7
	22:04	21:33 07:09-07:25/16	20:33	19:25	17:21	16:42
2	05:34	06:10 06:39-06:46/7	06:59 07:34-07:50/16	07:46 08:11-08:17/6	07:38 08:06-08:17/11	08:27 08:59-09:05/6
	22:04	21:32 07:07-07:26/19	20:31	19:23	17:19	16:41
3	05:35	06:12 06:40-06:44/4	07:00 07:26-07:27/1	07:48 08:12-08:17/5	07:40 08:07-08:16/9	08:29 09:00-09:04/4
	22:03	21:30 07:07-07:28/21	20:29 07:33-07:51/18	19:21	17:17	16:41
4	05:36	06:13 06:41-06:43/2	07:02 07:32-07:51/19	07:49 08:14-08:16/2	07:42 08:09-08:16/7	08:30 09:02-09:05/3
	22:03	21:29 07:05-07:28/23	20:26	19:19	17:16	16:40
5	05:37	06:15 07:05-07:30/25	07:03 07:32-07:52/20	07:51	07:43 08:11-08:16/5	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37	06:16 07:04-07:30/26	07:05 07:31-07:51/20	07:52	07:45 08:13-08:15/2	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38	06:18 07:04-07:31/27	07:06 07:32-07:51/19	07:54	07:47 08:34-08:38/4	08:34
	22:01	21:23	20:20	19:12	17:10 08:15-08:16/1	16:39
8	05:39	06:19 07:03-07:31/28	07:08 07:33-07:50/17	07:56	07:49 08:31-08:41/10	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40	06:21 06:49-06:54/5	07:10 07:35-07:50/15	07:57	07:50 08:30-08:43/13	08:36
	22:00	21:20 07:02-07:31/29	20:15	19:07	17:07	16:38
10	05:41	06:23 06:50-06:55/5	07:11 07:36-07:48/12	07:59	07:52 08:29-08:44/15	08:37
	22:00	21:18 07:02-07:31/29	20:13	19:05	17:06	16:38
11	05:42	06:24 06:51-06:55/4	07:13 07:38-07:47/9	08:01	07:54 08:29-08:45/16	08:38
	21:59	21:16 07:01-07:31/30	20:11	19:03	17:04	16:38
12	05:43	06:26 06:53-06:55/2	07:14 07:39-07:44/5	08:02	07:55 08:28-08:45/17	08:39
	21:58	21:14 07:02-07:31/29	20:08	19:01	17:03	16:38
13	05:44	06:27 06:54-06:55/1	07:16 07:41-07:42/1	08:04	07:57 08:28-08:46/18	08:40
	21:57	21:12 07:01-07:31/30	20:06	18:59	17:01	16:38
14	05:45	06:29 07:02-07:31/29	07:17	08:06	07:59 08:28-08:46/18	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46	06:30 07:01-07:30/29	07:19	08:07	08:01 08:30-08:46/16	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47	06:32 07:02-07:30/28	07:20	08:09	08:02 08:32-08:47/15	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49	06:33 07:02-07:29/27	07:22	08:11	08:04 08:34-08:47/13	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:34-06:41/7	06:35 07:03-07:28/25	07:24 07:49-07:53/4	08:12	08:06 08:35-08:46/11	08:44
	21:52	21:03	19:55	18:48	16:54 08:49-08:55/6	16:39
19	05:51 06:32-06:42/10	06:37 07:04-07:26/22	07:25 07:50-07:54/4	08:14	08:07 08:37-08:46/9	08:45
	21:51	21:01	19:53	18:46	16:53 08:48-08:57/9	16:39
20	05:52 06:32-06:44/12	06:38 07:05-07:26/21	07:27 07:52-07:55/3	08:16	08:09 08:39-08:46/7	08:46
	21:50	20:59	19:50	18:44	16:52 08:47-08:59/12	16:39
21	05:54 06:31-06:45/14	06:40 07:06-07:23/17	07:28 08:05-08:10/5	08:17	08:11 08:41-08:45/4	08:46
	21:49	20:57	19:48 07:53-07:54/1	18:42	16:51 08:47-09:00/13	16:40
22	05:55 06:30-06:45/15	06:41 07:09-07:21/12	07:30 08:02-08:12/10	08:19	08:12 08:43-08:45/2	08:47
	21:48	20:54	19:46	18:40	16:50 08:47-09:01/14	16:40
23	05:56 06:30-06:46/16	06:43	07:32 08:00-08:13/13	08:21	08:14 08:46-09:01/15	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:46/17	06:44	07:33 07:59-08:14/15	08:23	08:15 08:46-09:02/16	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:29-06:47/18	06:46	07:35 07:59-08:14/15	07:24	08:17 08:48-09:03/15	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:47/18	06:48	07:36 08:01-08:14/13	07:26	08:19 08:49-09:03/14	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:47/17	06:49	07:38 08:03-08:14/11	07:28 08:07-08:10/3	08:20 08:51-09:04/13	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:48/16	06:51	07:39 08:04-08:12/8	07:29 08:04-08:13/9	08:22 08:53-09:04/11	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:47/14	06:52	07:41 08:06-08:13/7	07:31 08:03-08:15/12	08:23 08:54-09:04/10	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:47/13	06:54	07:43 08:07-08:15/8	07:33 08:02-08:16/14	08:24 08:56-09:04/8	08:49
	21:37 07:14-07:20/6	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:47/11	06:55 07:39-07:47/8		07:35 08:02-08:17/15		08:49
	21:35 07:11-07:23/12	20:35		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	216	589	301	74	392	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 09:26-09:43/17	08:24	07:32	07:23 07:46-07:50/4	06:20 06:44-07:03/19	05:36
	16:48	17:35	18:25	20:17 08:19-09:15/56	21:06	21:50
2	08:49 09:26-09:43/17	08:22	07:30	07:21 07:43-07:45/2	06:18 06:42-07:04/22	05:36
	16:49	17:36	18:26	20:19 08:19-09:14/55	21:08	21:51
3	08:49 09:27-09:44/17	08:21	07:28 07:52-08:03/11	07:19 08:19-09:14/55	06:16 06:41-07:05/24	05:35
	16:50 09:20-09:21/1	17:38	18:28	20:20	21:09	21:52
4	08:49 09:27-09:43/16	08:19	07:26 07:50-08:06/16	07:16 08:19-09:14/55	06:15 06:39-07:05/26	05:34
	16:51 09:19-09:21/2	17:40	18:30	20:22	21:11	21:53
5	08:49 09:28-09:44/16	08:18	07:23 07:47-08:06/19	07:14 08:19-09:13/54	06:13 06:37-07:05/28	05:33
	16:52 09:19-09:22/3	17:42	18:32	20:23	21:13	21:54
6	08:49 09:29-09:43/14	08:16	07:21 07:45-08:08/23	07:12 08:18-09:12/54	06:11 06:36-07:05/29	05:33
	16:54 09:18-09:22/4	17:44	18:33	20:25	21:14	21:55
7	08:48 09:30-09:43/13	08:14	07:19 07:44-08:09/25	07:10 08:18-09:11/53	06:09 06:34-07:06/32	05:32
	16:55 09:18-09:22/4	17:45	18:35	20:27	21:16	21:56
8	08:48 09:31-09:43/12	08:13	07:17 07:43-08:10/27	07:08 08:19-09:10/51	06:08 06:34-07:05/31	05:32
	16:56 09:17-09:22/5	17:47	18:37 07:40-07:42/2	20:28	21:17	21:57
9	08:47 09:32-09:43/11	08:11	07:15 07:38-08:09/31	07:05 08:19-09:09/50	06:06 06:35-07:06/31	05:31
	16:57 09:17-09:23/6	17:49	18:38	20:30	21:19	21:58
10	08:47 09:33-09:42/9	08:09	07:13 07:35-08:10/35	07:03 08:20-09:08/48	06:04 06:36-07:05/29	05:31
	16:59 09:16-09:23/7	17:51	18:40	20:32	21:20	21:59
11	08:46 09:35-09:40/5	08:07	07:10 07:33-08:10/37	07:01 08:19-09:06/47	06:03 06:38-07:05/27	05:31
	17:00 09:15-09:23/8	17:53	18:42	20:33	21:22	21:59
12	08:46 09:15-09:23/8	08:06	07:08 07:41-08:10/29	06:59 08:20-09:05/45	06:01 06:39-07:05/26	05:30
	17:02	17:54	18:44 07:31-07:39/8	20:35	21:23	22:00
13	08:45 09:15-09:23/8	08:04	07:06 07:40-08:09/29	06:57 08:21-09:03/42	05:59 06:40-07:05/25	05:30
	17:03	17:56	18:45	20:37	21:25	22:01
14	08:44 09:16-09:22/6	08:02 08:26-08:30/4	07:04 07:40-08:08/28	06:54 08:22-09:02/40	05:58 06:39-07:03/24	05:30
	17:05	17:58	18:47	20:38	21:27	22:01
15	08:44	08:00 08:24-08:32/8	07:01 07:41-08:08/27	06:52 08:23-09:00/37	05:56 06:40-07:03/23	05:30
	17:06	18:00	18:49	20:40	21:28	22:02
16	08:43	07:58 08:22-08:33/11	06:59 07:41-08:07/26	06:50 08:25-08:58/33	05:55 06:41-07:03/22	05:29
	17:08	18:02	18:50	20:42	21:30	22:02
17	08:42	07:56 08:20-08:34/14	06:57 07:39-08:05/26	06:48 08:26-08:55/29	05:53 06:41-07:01/20	05:29
	17:09	18:03	18:52	20:43	21:31	22:03
18	08:41	07:54 08:18-08:34/16	06:55 07:36-08:08/32	06:46 08:28-08:53/25	05:52 06:43-07:00/17	05:29
	17:11	18:05	18:54 07:17-07:19/2	20:45	21:32	22:03
19	08:40	07:52 08:16-08:35/19	06:52 07:34-08:10/36	06:44 08:31-08:49/18	05:51 06:44-07:00/16	05:29
	17:12	18:07	18:55 07:15-07:19/4	20:47	21:34	22:04
20	08:39	07:51 08:14-08:35/21	06:50 07:32-08:12/40	06:42 08:37-08:43/6	05:49 06:46-06:58/12	05:30
	17:14	18:09	18:57 07:13-07:18/5	20:48	21:35	22:04
21	08:38	07:49 08:12-08:35/23	06:48 07:30-08:12/42	06:40 07:03-07:05/2	05:48 06:47-06:56/9	05:30
	17:16	18:11	18:59	20:50	21:37	22:04
22	08:37	07:47 08:10-08:35/25	06:46 07:28-08:13/45	06:38 07:01-07:05/4	05:47	05:30
	17:17	18:12	19:00	20:51	21:38	22:04
23	08:36	07:44 08:10-08:34/24	06:43 07:27-08:14/47	06:36 06:59-07:05/6	05:45	05:30
	17:19	18:14	19:02	20:53	21:39	22:05
24	08:35	07:42 08:12-08:33/21	06:41 07:25-08:14/49	06:34 06:57-07:05/8	05:44	05:30
	17:21	18:16	19:04	20:55	21:41	22:05
25	08:33	07:40 08:16-08:32/16	06:39 07:24-08:15/51	06:32 06:55-07:04/9	05:43	05:31
	17:22	18:18	19:05	20:56	21:42	22:05
26	08:32	07:38 08:17-08:31/14	06:37 07:23-08:15/52	06:30 06:53-07:03/10	05:42	05:31
	17:24	18:19	19:07	20:58	21:43	22:05
27	08:31	07:36 08:20-08:28/8	06:34 07:23-08:16/53	06:28 06:52-07:02/10	05:41	05:32
	17:26	18:21	19:09	21:00	21:45	22:05
28	08:30	07:34	06:32 07:21-08:15/54	06:26 06:49-07:00/11	05:40	05:32
	17:27	18:23	19:10	21:01	21:46	22:05
29	08:28		07:30 07:52-07:53/1	06:24 06:48-07:01/13	05:39	05:33
	17:29		20:12 08:21-09:15/54	21:03	21:47	22:04
30	08:27		07:28 07:50-07:52/2	06:22 06:46-07:02/16	05:38	05:33
	17:31		20:14 08:20-09:16/56	21:05	21:48	22:04
31	08:25		07:25 07:48-07:52/4		05:37	
	17:33		20:15 08:20-09:16/56		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	209	224	1084	948	492	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SAM_WT05 - SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m) (31)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December	
1	05:34		06:09	06:49-07:15/26	06:57	08:19-09:06/47	07:44	08:20-08:49/29	07:36		08:26	09:17-09:22/5
	22:04		21:33		20:33		19:25	08:11-08:17/6	17:21		16:42	08:57-09:05/8
2	05:34		06:10	06:48-07:16/28	06:59	08:18-09:06/48	07:46	08:20-08:49/29	07:38		08:27	09:17-09:25/8
	22:04		21:32		20:31		19:23	08:11-08:19/8	17:19		16:41	08:59-09:06/7
3	05:35		06:12	06:46-07:16/30	07:00	08:17-09:07/50	07:48	08:12-08:48/36	07:40		08:29	09:16-09:26/10
	22:03		21:30		20:29		19:21		17:17		16:41	09:00-09:06/6
4	05:36		06:13	06:45-07:15/30	07:02	08:16-09:07/51	07:49	08:14-08:47/33	07:42		08:30	09:16-09:28/12
	22:03		21:29		20:26		19:19		17:16		16:40	09:02-09:07/5
5	05:37		06:15	06:45-07:16/31	07:03	08:15-09:08/53	07:51	08:16-08:47/31	07:43		08:31	09:15-09:28/13
	22:03		21:27		20:24		19:16		17:14		16:40	09:03-09:07/4
6	05:37		06:16	06:44-07:15/31	07:05	08:14-09:08/54	07:52	08:19-08:45/26	07:45		08:33	09:15-09:29/14
	22:02		21:25		20:22		19:14	08:17-08:18/1	17:12		16:39	09:04-09:08/4
7	05:38		06:18	06:46-07:16/30	07:06	08:14-09:08/54	07:54	08:20-08:44/24	07:47		08:34	09:16-09:31/15
	22:01		21:23		20:20		19:12		17:11		16:39	09:06-09:09/3
8	05:39		06:19	06:47-07:15/28	07:08	08:13-09:08/55	07:56	08:22-08:43/21	07:49		08:35	09:15-09:31/16
	22:01		21:22		20:18		19:10		17:09		16:39	09:07-09:09/2
9	05:40		06:21	06:49-07:15/26	07:10	08:13-09:08/55	07:57	08:23-08:41/18	07:50		08:36	09:15-09:32/17
	22:00		21:20		20:15		19:07		17:07		16:38	09:08-09:09/1
10	05:41		06:23	06:50-07:13/23	07:11	07:36-07:37/1	07:59	08:25-08:38/13	07:52		08:37	09:15-09:32/17
	22:00		21:18		20:13	08:12-09:08/56	19:05		17:06		16:38	
11	05:42		06:24	06:51-07:12/21	07:13	07:38-07:42/4	08:01	08:29-08:34/5	07:54		08:38	09:16-09:33/17
	21:59		21:16		20:11	08:12-09:08/56	19:03		17:04		16:38	
12	05:43		06:26	06:53-07:12/19	07:14	07:39-07:43/4	08:02		07:55		08:39	09:16-09:33/17
	21:58		21:14		20:09	08:11-09:07/56	19:01		17:03		16:38	
13	05:44		06:27	06:54-07:10/16	07:16	07:41-07:44/3	08:04		07:57		08:40	09:16-09:34/18
	21:57		21:12		20:06	08:12-09:07/55	18:59		17:01		16:38	
14	05:45		06:29	06:56-07:08/12	07:17	07:42-07:43/1	08:06	08:55-08:57/2	07:59		08:41	09:17-09:34/17
	21:56		21:10		20:04	08:11-09:06/55	18:57		17:00		16:38	
15	05:46		06:30	06:57-07:08/11	07:19	08:11-09:06/55	08:07	08:51-09:02/11	08:01		08:42	09:17-09:35/18
	21:55		21:09		20:02		18:55		16:58		16:38	
16	05:48		06:32	06:59-07:10/11	07:21	08:11-09:04/53	08:09	08:48-09:03/15	08:02		08:43	09:18-09:36/18
	21:54		21:07		19:59		18:52		16:57		16:38	
17	05:49		06:33	07:00-07:10/10	07:22	08:12-09:04/52	08:11	08:45-09:04/19	08:04		08:44	09:18-09:36/18
	21:53		21:05		19:57		18:50		16:56		16:38	
18	05:50		06:35	07:02-07:11/9	07:24	08:11-09:02/51	08:12	08:43-09:05/22	08:06		08:44	09:18-09:36/18
	21:52		21:03		19:55		18:48		16:55		16:39	
19	05:51		06:37	07:03-07:10/7	07:25	08:12-09:02/50	08:14	08:41-09:06/25	08:07		08:45	09:19-09:37/18
	21:51		21:01		19:53		18:46		16:53		16:39	
20	05:52		06:38	07:05-07:11/6	07:27	08:13-09:01/48	08:16	08:42-09:06/24	08:09		08:46	09:20-09:38/18
	21:50		20:59		19:50		18:44		16:52		16:39	
21	05:54		06:40	07:06-07:10/4	07:28	08:14-08:59/45	08:17	08:43-09:05/22	08:11		08:46	09:20-09:38/18
	21:49		20:57		19:48		18:42		16:51		16:40	
22	05:55	06:59-07:05/6	06:41	07:08-07:09/1	07:30	08:15-08:58/43	08:19	08:45-09:05/20	08:12		08:47	09:21-09:39/18
	21:48		20:54		19:46		18:40		16:50		16:40	
23	05:56	06:56-07:07/11	06:43	08:39-08:48/9	07:32	08:16-08:56/40	08:21	08:47-09:05/18	08:14		08:47	09:21-09:39/18
	21:46		20:52		19:43	07:56-08:01/5	18:38		16:49		16:41	
24	05:58	06:54-07:08/14	06:44	08:35-08:54/19	07:33	08:17-08:54/37	08:23	08:49-09:05/16	08:15		08:48	09:21-09:39/18
	21:45		20:50		19:41	07:58-08:02/4	18:36		16:48		16:41	
25	05:59	06:54-07:10/16	06:46	08:31-08:56/25	07:35	08:18-08:51/33	07:24	07:51-08:04/13	08:17		08:48	09:22-09:40/18
	21:44		20:48		19:39	07:59-08:02/3	17:34		16:47		16:42	
26	06:00	06:53-07:11/18	06:48	08:29-08:59/30	07:36	08:21-08:49/28	07:26	07:52-08:02/10	08:19		08:49	09:22-09:40/18
	21:42		20:46		19:37	08:01-08:02/1	17:32		16:46		16:43	
27	06:02	06:52-07:12/20	06:49	08:26-09:00/34	07:38	08:23-08:48/25	07:28	07:54-08:01/7	08:20		08:49	09:23-09:41/18
	21:41		20:44		19:34		17:30		16:45		16:43	
28	06:03	06:51-07:14/23	06:51	08:25-09:02/37	07:40	08:22-08:48/26	07:29	07:56-07:59/3	08:22	08:56-09:02/6	08:49	09:23-09:41/18
	21:40		20:42		19:32		17:28		16:44		16:44	
29	06:05	06:50-07:14/24	06:52	08:23-09:03/40	07:41	08:21-08:49/28	07:31		08:23	08:55-09:03/8	08:49	09:23-09:41/18
	21:38		20:40		19:30		17:26		16:43		16:45	
30	06:06	06:50-07:14/24	06:54	08:22-09:04/42	07:43	08:20-08:48/28	07:33		08:24	08:56-09:04/8	08:49	09:24-09:42/18
	21:37		20:37		19:28		17:25		16:43		16:46	
31	06:07	06:50-07:15/25	06:55	08:20-09:05/45			07:35				08:49	09:25-09:42/17
	21:35		20:35				17:23				16:47	
Potential sun hours	498		451		380		333		269		248	
Sum of minutes with flicker		181		691		1413		507		22		541

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 16:48	08:24 17:35	07:32 08:03-08:38/35 18:25	07:23 20:17	06:20 06:44-06:45/1 21:06 06:47-06:53/6	05:36 06:27-06:48/21 21:50
2	08:49 16:49	08:22 17:36	07:30 08:04-08:40/36 18:26	07:21 20:19	06:18 06:42-06:44/2 21:08	05:35 06:28-06:49/21 21:52
3	08:49 16:50	08:21 17:38	07:28 08:07-08:41/34 18:28	07:19 20:20	06:16 21:09	05:35 06:28-06:48/20 21:53
4	08:49 16:51	08:19 08:57-09:04/7 17:40	07:26 08:07-08:42/35 18:30	07:16 20:22	06:14 21:11	05:34 06:29-06:47/18 21:54
5	08:49 16:52	08:18 08:53-09:08/15 17:42	07:24 08:05-08:42/37 18:32	07:14 20:24	06:13 21:13	05:33 06:30-06:47/17 21:55
6	08:49 16:54	08:16 08:51-09:10/19 17:44	07:21 08:04-08:42/38 18:33	07:12 20:25	06:11 06:36-06:38/2 21:14	05:33 06:30-06:46/16 21:55
7	08:48 16:55	08:14 08:49-09:11/22 17:45	07:19 08:04-08:43/39 18:35	07:10 20:27	06:09 06:34-06:37/3 21:16	05:32 06:31-06:47/16 21:56
8	08:48 16:56	08:13 08:48-09:13/25 17:47	07:17 08:03-08:43/40 18:37	07:08 20:28	06:07 06:32-06:36/4 21:17	05:32 06:31-06:46/15 21:57
9	08:47 16:57	08:11 08:47-09:14/27 17:49	07:15 08:02-08:42/40 18:38	07:05 20:30	06:06 06:31-06:43/12 21:19	05:31 06:33-06:45/12 21:58
10	08:47 16:59	08:09 08:46-09:15/29 17:51	07:13 08:02-08:42/40 18:40 07:44-07:47/3	07:03 20:32	06:04 06:29-06:44/15 21:20	05:31 06:34-06:45/11 21:59
11	08:46 17:00	08:08 08:45-09:16/31 17:53	07:10 08:02-08:42/40 18:42 07:39-07:52/13	07:01 07:24-07:29/5 20:33	06:02 06:28-06:46/18 21:22	05:30 06:35-06:45/10 22:00
12	08:46 17:02	08:06 08:45-09:16/31 17:54	07:08 08:02-08:42/40 18:44 07:36-07:55/19	06:59 07:21-07:29/8 20:35	06:01 06:26-06:47/21 21:24	05:30 06:35-06:44/9 22:00
13	08:45 17:03	08:04 08:44-09:17/33 17:56	07:06 08:02-08:40/38 18:45 07:34-07:55/21	06:57 07:19-07:30/11 20:37	05:59 06:25-06:48/23 21:25	05:30 06:36-06:43/7 22:01
14	08:44 17:04	08:02 08:44-09:17/33 17:58	07:04 08:02-08:40/38 18:47 07:32-07:56/24	06:54 07:17-07:31/14 20:38	05:58 06:25-06:48/23 21:27	05:30 06:38-06:43/5 22:01
15	08:44 17:06	08:00 08:43-09:17/34 18:00	07:01 08:03-08:39/36 18:49 07:31-07:57/26	06:52 07:15-07:31/16 20:40	05:56 06:25-06:49/24 21:28	05:30 06:39-06:42/3 22:02
16	08:43 17:08	07:58 08:43-09:17/34 18:02	06:59 08:03-08:38/35 18:50 07:30-07:58/28	06:50 07:13-07:31/18 20:42	05:55 06:25-06:50/25 21:30	05:29 22:02
17	08:42 17:09	07:56 08:43-09:17/34 18:03	06:57 08:03-08:36/33 18:52 07:29-07:58/29	06:48 07:13-07:31/18 20:43	05:53 06:24-06:49/25 21:31	05:29 22:03
18	08:41 17:11	07:54 08:43-09:17/34 18:05	06:55 08:04-08:35/31 18:54 07:29-07:58/29	06:46 07:13-07:30/17 20:45	05:52 06:24-06:50/26 21:32	05:29 22:03
19	08:40 17:12	07:53 08:44-09:16/32 18:07	06:52 08:06-08:33/27 18:55 07:28-07:58/30	06:44 07:13-07:29/16 20:47	05:51 06:24-06:50/26 21:34	05:29 22:04
20	08:39 17:14	07:51 08:44-09:16/32 18:09	06:50 08:07-08:31/24 18:57 07:28-07:58/30	06:42 07:14-07:28/14 20:48	05:49 06:24-06:51/27 21:35	05:29 22:04
21	08:38 17:16	07:49 08:45-09:15/30 18:11 08:12-08:16/4	06:48 08:09-08:27/18 18:59 07:28-07:56/28	06:40 07:15-07:27/12 20:50 07:03-07:05/2	05:48 06:23-06:50/27 21:37	05:30 22:04
22	08:37 17:17	07:47 08:45-09:14/29 18:12 08:10-08:18/8	06:46 08:12-08:23/11 19:00 07:28-07:56/28	06:38 07:17-07:24/7 20:51 07:01-07:06/5	05:47 06:23-06:50/27 21:38	05:30 22:04
23	08:36 17:19	07:45 08:46-09:13/27 18:14 08:08-08:19/11	06:43 07:28-07:55/27 19:02	06:36 06:59-07:06/7 20:53	05:45 06:24-06:50/26 21:39	05:30 22:05
24	08:35 17:21	07:42 08:48-09:11/23 18:16 08:06-08:19/13	06:41 07:28-07:53/25 19:04	06:34 06:57-07:06/9 20:55	05:44 06:24-06:50/26 21:41	05:30 22:05
25	08:33 17:22	07:40 08:49-09:10/21 18:18 08:04-08:20/16	06:39 07:29-07:52/23 19:05	06:32 06:55-07:06/11 20:56	05:43 06:24-06:50/26 21:42	05:31 22:05
26	08:32 17:24	07:38 08:02-08:33/31 18:19 08:51-09:07/16	06:37 07:31-07:50/19 19:07	06:30 06:53-07:05/12 20:58	05:42 06:24-06:50/26 21:43	05:31 22:05
27	08:31 17:26	07:36 08:03-08:36/33 18:21 08:55-09:04/9	06:34 07:32-07:48/16 19:09	06:28 06:51-07:04/13 21:00	05:41 06:25-06:50/25 21:45	05:31 22:05
28	08:30 17:27	07:34 08:02-08:37/35 18:23	06:32 07:34-07:44/10 19:10	06:26 06:50-07:03/13 21:01	05:40 06:25-06:49/24 21:46	05:32 06:41-06:45/4 22:05
29	08:28 17:29		07:30 20:12	06:24 06:48-07:02/14 21:03	05:39 06:26-06:50/24 21:47	05:32 06:40-06:46/6 22:05
30	08:27 17:31		07:28 20:14	06:22 06:46-06:55/9 21:05	05:38 06:26-06:50/24 21:48	05:33 06:40-06:48/8 22:04
31	08:25 17:33		07:25 20:15		05:37 06:27-06:49/22 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	0	778	1173	251	560	219

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: SAM_WT06 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (32)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November		December
1	05:34	06:39-06:49/10	06:09	06:37-06:57/20	06:57	07:23-07:28/5	07:44	08:41-09:20/39	07:36	08:16-08:44/28	08:26
	22:04		21:33		20:33		19:25	08:14-08:34/20	17:21		16:42
2	05:34	06:38-06:49/11	06:10	06:39-06:56/17	06:59		07:46	08:41-09:21/40	07:38	08:17-08:44/27	08:27
	22:04		21:32		20:31		19:23	08:17-08:32/15	17:19		16:41
3	05:35	06:38-06:50/12	06:12	06:40-06:54/14	07:00		07:48	08:40-09:20/40	07:40	08:17-08:42/25	08:29
	22:03		21:30		20:29		19:21	08:19-08:28/9	17:17		16:41
4	05:36	06:38-06:52/14	06:13	06:41-06:51/10	07:02		07:49	08:40-09:20/40	07:42	08:19-08:41/22	08:30
	22:03		21:29		20:27		19:19		17:16		16:40
5	05:37	06:37-06:52/15	06:15	06:43-06:47/4	07:03		07:51	08:40-09:20/40	07:43	08:21-08:39/18	08:31
	22:03		21:27		20:24		19:16		17:14		16:40
6	05:37	06:37-06:53/16	06:16	06:44-06:47/3	07:05		07:52	08:40-09:19/39	07:45	08:23-08:37/14	08:33
	22:02		21:25		20:22		19:14		17:12		16:39
7	05:38	06:36-06:53/17	06:18	06:46-06:47/1	07:06		07:54	08:40-09:18/38	07:47	08:27-08:33/6	08:34
	22:02		21:23		20:20		19:12		17:11		16:39
8	05:39	06:36-06:54/18	06:19		07:08		07:56	08:41-09:18/37	07:49		08:35
	22:01		21:22		20:18		19:10		17:09		16:39
9	05:40	06:36-06:55/19	06:21		07:10		07:57	08:40-09:16/36	07:50		08:36
	22:00		21:20		20:15		19:07		17:07		16:38
10	05:41	06:36-06:56/20	06:23		07:11		07:59	08:41-09:16/35	07:52		08:37
	22:00		21:18		20:13		19:05		17:06		16:38
11	05:42	06:36-06:57/21	06:24	06:52-06:54/2	07:13		08:01	08:40-09:15/35	07:54		08:38
	21:59		21:16		20:11		19:03		17:04		16:38
12	05:43	06:35-06:57/22	06:26	06:53-06:54/1	07:14		08:02	08:38-09:12/34	07:56		08:39
	21:58		21:14	06:55-07:02/7	20:09		19:01		17:03		16:38
13	05:44	06:35-06:58/23	06:27	06:54-07:03/9	07:16		08:04	08:36-09:11/35	07:57		08:40
	21:57		21:12		20:06		18:59		17:01		16:38
14	05:45	06:35-06:58/23	06:29	06:56-07:10/14	07:17		08:06	08:35-09:09/34	07:59		08:41
	21:56		21:11		20:04		18:57		17:00		16:38
15	05:46	06:35-06:59/24	06:30	06:57-07:11/14	07:19	08:26-08:34/8	08:07	08:35-09:07/32	08:01		08:42
	21:55		21:09		20:02		18:54	09:25-09:38/13	16:58		16:38
16	05:47	06:34-06:59/25	06:32	06:59-07:12/13	07:21	08:21-08:36/15	08:09	08:35-09:02/27	08:02		08:43
	21:54		21:07		19:59		18:52	09:22-09:39/17	16:57		16:38
17	05:49	06:34-06:59/25	06:33	07:00-07:12/12	07:22	08:19-08:38/19	08:11	09:20-09:42/22	08:04		08:44
	21:53		21:05		19:57		18:50	08:36-08:51/15	16:56		16:38
18	05:50	06:34-07:00/26	06:35	07:02-07:13/11	07:24	08:17-08:39/22	08:12	09:18-09:43/25	08:06		08:45
	21:52		21:03		19:55		18:48	08:38-08:50/12	16:55		16:39
19	05:51	06:34-07:00/26	06:37	07:03-07:12/9	07:25	08:16-08:40/24	08:14	09:17-09:45/28	08:07		08:45
	21:51		21:01		19:53		18:46	08:40-08:50/10	16:53		16:39
20	05:52	06:33-07:00/27	06:38	07:05-07:12/7	07:27	08:15-08:42/27	08:16	09:16-09:46/30	08:09		08:46
	21:50		20:59		19:50		18:44	08:42-08:48/6	16:52		16:39
21	05:54	06:34-07:01/27	06:40	07:21-07:30/9	07:28	09:00-09:07/7	08:17	09:15-09:46/31	08:11		08:46
	21:49		20:57	07:06-07:11/5	19:48	08:14-08:41/27	18:42	08:43-08:46/3	16:51		16:40
22	05:55	06:34-07:01/27	06:41	07:19-07:32/13	07:30	08:55-09:12/17	08:19	09:14-09:46/32	08:12		08:47
	21:48		20:55	07:08-07:10/2	19:46	08:13-08:42/29	18:40		16:50		16:40
23	05:56	06:34-07:00/26	06:43	07:17-07:32/15	07:32	08:52-09:14/22	08:21	09:14-09:47/33	08:14		08:48
	21:46		20:52		19:43	08:12-08:41/29	18:38		16:49		16:41
24	05:58	06:34-07:00/26	06:44	07:17-07:33/16	07:33	08:50-09:16/26	08:23	09:14-09:47/33	08:15		08:48
	21:45		20:50		19:41	08:12-08:41/29	18:36		16:48		16:41
25	05:59	06:34-07:01/27	06:46	07:16-07:33/17	07:35	08:47-09:17/30	07:24	08:14-08:47/33	08:17		08:48
	21:44		20:48		19:39	08:11-08:40/29	17:34		16:47		16:42
26	06:00	06:34-07:00/26	06:48	07:16-07:34/18	07:36	08:46-09:18/32	07:26	08:14-08:47/33	08:19		08:49
	21:42		20:46		19:37	08:11-08:40/29	17:32		16:46		16:43
27	06:02	06:34-07:00/26	06:49	07:15-07:33/18	07:38	08:45-09:19/34	07:28	08:13-08:46/33	08:20		08:49
	21:41		20:44		19:34	08:12-08:40/28	17:30		16:45		16:43
28	06:03	06:36-07:00/24	06:51	07:17-07:33/16	07:40	08:44-09:19/35	07:29	08:13-08:46/33	08:22		08:49
	21:40		20:42		19:32	08:12-08:38/26	17:28		16:44		16:44
29	06:05	06:36-06:59/23	06:52	07:18-07:32/14	07:41	08:43-09:20/37	07:31	08:14-08:46/32	08:23		08:49
	21:38		20:40		19:30	08:13-08:38/25	17:26		16:43		16:45
30	06:06	06:35-06:58/23	06:54	07:20-07:31/11	07:43	08:41-09:20/39	07:33	08:14-08:46/32	08:25		08:49
	21:37		20:38		19:28	08:13-08:36/23	17:24		16:43		16:46
31	06:07	06:36-06:58/22	06:55	07:21-07:29/8			07:35	08:15-08:45/30			08:49
	21:35		20:35				17:23				16:47
Potential sun hours	498		452		380		333		269		248
Sum of minutes with flicker	671		330		673		1161		140		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:50 09:47-10:30/43	08:24 08:52-09:29/37	07:32	07:23 07:48-07:54/6	06:20	05:36 06:23-06:34/11
	16:48	17:35	18:25	20:17	21:06	21:50
2	08:49 09:48-10:30/42	08:22 08:52-09:29/37	07:30	07:21 07:51-08:00/9	06:18	05:36 06:22-06:37/15
	16:49	17:36	18:26	20:19 07:43-07:46/3	21:08	21:52
3	08:49 09:49-10:30/41	08:21 08:52-09:29/37	07:28	07:19 07:41-08:03/22	06:16	05:35 06:20-06:38/18
	16:50	17:38	18:28	20:20	21:09	21:53
4	08:49 09:48-10:29/41	08:19 08:54-09:30/36	07:26	07:16 07:39-08:06/27	06:15	05:34 06:19-06:39/20
	16:51	17:40	18:30	20:22	21:11	21:54
5	08:49 09:49-10:30/41	08:18 08:55-09:30/35	07:24	07:14 07:37-08:07/30	06:13	05:33 06:19-06:40/21
	16:52	17:42	18:32	20:24	21:13	21:55
6	08:49 09:49-10:29/40	08:16 08:57-09:30/33	07:21	07:12 07:34-08:07/33	06:11	05:33 06:17-06:41/24
	16:54	17:44	18:33	20:25	21:14	21:55
7	08:48 09:50-10:28/38	08:14 09:00-09:30/30	07:19	07:10 07:32-08:08/36	06:09	05:32 06:01-06:02/1
	16:55	17:45	18:35	20:27	21:16	21:56 06:17-06:42/25
8	08:48 09:50-10:27/37	08:13 09:01-09:30/29	07:17	07:08 07:32-08:09/37	06:08	05:32 06:01-06:03/2
	16:56	17:47	18:37	20:28	21:17	21:57 06:16-06:42/26
9	08:47 09:51-10:28/37	08:11 09:01-09:30/29	07:15	07:05 07:33-08:09/36	06:06	05:31 06:00-06:03/3
	16:57	17:49	18:38	20:30 07:28-07:30/2	21:19	21:58 06:16-06:43/27
10	08:47 09:51-10:28/37	08:09 09:02-09:29/27	07:13	07:03 07:34-08:09/35	06:04	05:31 06:00-06:04/4
	16:59	17:51	18:40	20:32 07:26-07:31/5	21:20	21:59 06:16-06:44/28
11	08:46 09:51-10:28/37	08:08 09:02-09:28/26	07:10	07:01 07:37-08:09/32	06:03	05:30 06:00-06:04/4
	17:00	17:53	18:42	20:33 07:24-07:31/7	21:22	22:00 06:16-06:45/29
12	08:46 09:51-10:28/37	08:06 09:03-09:27/24	07:08	06:59 07:35-08:08/33	06:01	05:30 05:59-06:04/5
	17:02	17:54	18:44	20:35 07:21-07:30/9	21:24	22:00 06:16-06:45/29
13	08:45 09:53-10:29/36	08:04 09:04-09:25/21	07:06	06:57 07:35-08:08/33	05:59	05:30 05:59-06:05/6
	17:03	17:56	18:45	20:37 07:19-07:29/10	21:25	22:01 06:16-06:46/30
14	08:44 09:53-10:30/37	08:02 09:06-09:24/18	07:04	06:55 07:35-08:08/33	05:58	05:30 05:59-06:05/6
	17:05	17:58	18:47	20:38 07:17-07:28/11	21:27	22:01 06:16-06:46/30
15	08:44 09:53-10:30/37	08:00 09:08-09:21/13	07:01	06:52 07:35-08:07/32	05:56	05:30 05:59-06:05/6
	17:06	18:00	18:49	20:40 07:18-07:26/8	21:28	22:02 06:16-06:47/31
16	08:43 09:54-10:30/36	07:58 09:12-09:17/5	06:59	06:50 07:35-08:07/32	05:55	05:29 05:59-06:06/7
	17:08	18:02	18:50	20:42	21:30	22:02 06:16-06:47/31
17	08:42 09:55-10:30/35	07:56	06:57 07:19-07:25/6	06:48 07:36-08:06/30	05:53	05:29 05:59-06:06/7
	17:09	18:03	18:52	20:43	21:31	22:03 06:16-06:48/32
18	08:41 09:55-10:30/35	07:54	06:55 07:17-07:27/10	06:46 07:36-08:05/29	05:52	05:29 05:59-06:06/7
	17:11	18:05	18:54	20:45	21:32	22:03 06:16-06:48/32
19	08:40 09:56-10:30/34	07:53	06:52 07:15-07:29/14	06:44 07:07-07:09/2	05:51	05:29 05:59-06:06/7
	17:12	18:07	18:55	20:47 07:37-08:04/27	21:34	22:04 06:16-06:48/32
20	08:39 09:57-10:30/33	07:51	06:50 07:13-07:29/16	06:42 07:05-07:08/3	05:49	05:29 05:59-06:07/8
	17:14	18:09	18:57	20:48 07:38-08:02/24	21:35	22:04 06:16-06:48/32
21	08:38 09:57-10:29/32	07:49	06:48 07:10-07:29/19	06:40 07:03-07:06/3	05:48	05:30 05:59-06:07/8
	17:16	18:11	18:59	20:50 07:39-08:00/21	21:37	22:04 06:16-06:48/32
22	08:37 09:58-10:28/30	07:47	06:46 07:09-07:29/20	06:38 07:01-07:03/2	05:47	05:30 06:00-06:08/8
	17:17	18:12	19:00	20:51 07:40-07:58/18	21:38	22:04 06:17-06:49/32
23	08:36 10:00-10:28/28	07:45	06:43 07:09-07:29/20	06:36 06:59-07:03/4	05:45	05:30 06:00-06:07/7
	17:19 09:10-09:16/6	18:14	19:02	20:53 07:43-07:55/12	21:39	22:05 06:17-06:49/32
24	08:35 10:00-10:27/27 09:02-09:04/2	07:42	06:41 07:09-07:29/20	06:34 06:57-07:02/5	05:44	05:30 06:00-06:07/7
	17:21 09:06-09:18/12	18:16	19:04	20:55 07:48-07:49/1	21:41	22:05 06:17-06:49/32
25	08:33 10:02-10:26/24	07:40	06:39 07:08-07:27/19	06:32 06:55-07:02/7	05:43	05:31 06:01-06:08/7
	17:22 09:00-09:21/21	18:18	19:05	20:56	21:42	22:05 06:18-06:50/32
26	08:32 10:04-10:25/21	07:38	06:37 07:09-07:26/17	06:30 06:53-07:01/8	05:42	05:31 06:01-06:08/7
	17:24 08:59-09:23/24	18:19	19:07	20:58	21:43	22:05 06:18-06:49/31
27	08:31 10:05-10:23/18	07:36	06:34 07:10-07:25/15	06:28 06:51-07:00/9	05:41	05:31 06:02-06:09/7
	17:26 08:57-09:24/27	18:21	19:09	21:00	21:45	22:05 06:18-06:49/31
28	08:30 10:08-10:21/13	07:34	06:32 07:11-07:22/11	06:26 06:51-07:00/9	05:40	05:32 06:02-06:08/6
	17:27 08:56-09:25/29	18:23	19:10 06:55-06:58/3	21:01	21:46	22:05 06:19-06:49/30
29	08:28 10:12-10:16/4		07:30 08:15-08:18/3	06:24 06:53-06:58/5	05:39	05:32 06:03-06:09/6
	17:29 08:54-09:26/32		20:12 07:52-07:57/5	21:03	21:47	22:05 06:19-06:49/30
30	08:27 08:53-09:27/34		07:28 07:50-07:56/6	06:22	05:38	05:33 06:03-06:08/5
	17:31		20:14	21:05	21:48	22:04 06:20-06:49/29
31	08:25 08:51-09:28/37		07:25 07:48-07:56/8		05:37 06:26-06:31/5	
	17:33		20:15		21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	1175	437	212	740	5	975

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: SAM_WT07 - VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0 m) (33)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:09/5	06:09	06:57 07:36-08:08/32	07:44	07:36 08:31-08:59/28	08:26 09:33-10:10/37
	22:04 06:21-06:50/29	21:33	20:33 07:23-07:30/7	19:25	17:21	16:42
2	05:34 06:04-06:08/4	06:10	06:59 07:32-08:07/35	07:46	07:38 08:31-08:59/28	08:27 09:34-10:11/37
	22:04 06:20-06:49/29	21:32	20:31 07:24-07:29/5	19:23	17:19	16:41
3	05:35 06:05-06:08/3	06:12	07:00 07:31-08:07/36	07:48	07:40 08:29-08:59/30	08:29 09:34-10:11/37
	22:03 06:21-06:49/28	21:30	20:29 07:26-07:28/2	19:21	17:17	16:41
4	05:36 06:06-06:08/2	06:13	07:02 07:29-08:06/37	07:49	07:42 08:29-08:59/30	08:30 09:35-10:12/37
	22:03 06:22-06:49/27	21:29	20:27	19:19	17:16	16:40
5	05:37 06:07-06:09/2	06:15	07:03 07:29-08:05/36	07:51	07:43 08:26-09:00/34	08:31 09:35-10:13/38
	22:03 06:22-06:48/26	21:27	20:24	19:16	17:14	16:40
6	05:37 06:23-06:47/24	06:16	07:05 07:30-08:03/33	07:52	07:45 08:25-09:00/35	08:33 09:35-10:15/40
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:25-06:47/22	06:18	07:06 07:32-08:02/30	07:54	07:47 08:24-09:00/36	08:34 09:36-10:17/41
	22:02	21:23	20:20	19:12	17:11	16:39
8	05:39 06:26-06:47/21	06:19	07:08 07:33-08:00/27	07:56	07:49 08:23-09:00/37	08:35 09:36-10:17/41
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:27-06:46/19	06:21	07:10 07:35-07:58/23	07:57	07:50 08:23-09:00/37	08:36 09:37-10:18/41
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:28-06:45/17	06:23	07:11 07:43-07:54/11	07:59	07:52 08:23-09:00/37	08:37 09:37-10:19/42
	22:00	21:18	20:13 07:36-07:39/3	19:05	17:06	16:38
11	05:42 06:30-06:43/13	06:24	07:13 07:40-07:46/6	08:01	07:54 08:23-09:00/37	08:38 09:37-10:20/43
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:33-06:41/8	06:26	07:14 07:39-07:47/8	08:02	07:56 08:24-08:58/34	08:39 09:38-10:20/42
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44	06:27	07:16 07:41-07:48/7	08:04	07:57 09:44-09:49/5	08:40 09:38-10:21/43
	21:57	21:12	20:06	18:59	17:01 08:26-08:58/32	16:38
14	05:45	06:29 07:00-07:06/6	07:17 07:42-07:47/5	08:06	07:59 09:40-09:53/13	08:41 09:39-10:22/43
	21:56	21:11	20:04	18:57	17:00 08:28-08:57/29	16:38
15	05:46	06:30 06:57-07:07/10	07:19 08:02-08:12/10	08:07	08:01 09:38-09:56/18	08:42 09:40-10:23/43
	21:55	21:09	20:02 07:44-07:47/3	18:55	16:58 08:30-08:57/27	16:38
16	05:47	06:32 06:59-07:08/9	07:21 07:59-08:13/14	08:09	08:02 09:37-09:58/21	08:43 09:40-10:24/44
	21:54	21:07	19:59 07:45-07:46/1	18:52	16:57 08:32-08:56/24	16:38
17	05:49	06:33 07:00-07:08/8	07:22 07:58-08:15/17	08:11	08:04 09:36-10:00/24	08:44 09:41-10:24/43
	21:53	21:05	19:57	18:50	16:56 08:34-08:55/21	16:38
18	05:50	06:35 07:02-07:08/6	07:24 07:56-08:15/19	08:12	08:06 09:34-10:01/27 08:36-08:38/2	08:45 09:41-10:24/43
	21:52	21:03	19:55	18:48	16:55 08:40-08:52/12	16:39
19	05:51	06:37 07:03-07:08/5	07:25 07:56-08:15/19	08:14	08:07 09:34-10:02/28	08:45 09:42-10:25/43
	21:51	21:01 07:52-07:57/5	19:53	18:46	16:53 08:44-08:50/6	16:39
20	05:52	06:38 07:05-07:09/4	07:27 07:55-08:16/21	08:16	08:09 09:33-10:03/30	08:46 09:43-10:26/43
	21:50	20:59 07:48-08:02/14	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:08/2	07:28 07:54-08:15/21	08:17	08:11 09:33-10:05/32	08:46 09:43-10:26/43
	21:49	20:57 07:45-08:03/18	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:11/3	07:30 07:55-08:15/20	08:19	08:12 09:33-10:06/33	08:47 09:44-10:27/43
	21:48	20:55 07:43-08:05/22	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:12/3	07:32 07:56-08:13/17	08:21	08:14 09:32-10:06/34	08:47 09:44-10:27/43
	21:46	20:52 07:41-08:06/25	19:43	18:38	16:49	16:41
24	05:58	06:44 07:11-07:13/2	07:33 07:58-08:13/15	08:23	08:15 09:32-10:07/35	08:48 09:44-10:27/43
	21:45	20:50 07:41-08:07/26	19:41	18:36	16:48	16:41
25	05:59	06:46 07:39-08:08/29	07:35 07:59-08:10/11	07:24	08:17 09:33-10:08/35	08:48 09:45-10:28/43
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00	06:48 07:39-08:09/30	07:36 08:01-08:09/8	07:26 08:41-08:49/8	08:19 09:32-10:08/36	08:49 09:45-10:28/43
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02	06:49 07:37-08:09/32	07:38 08:03-08:05/2	07:28 08:37-08:51/14	08:20 09:33-10:09/36	08:49 09:45-10:29/44
	21:41	20:44 07:23-07:25/2	19:34	17:30	16:45	16:43
28	06:03	06:51 07:37-08:09/32	07:40	07:29 08:35-08:54/19	08:22 09:33-10:10/37	08:49 09:46-10:29/43
	21:40	20:42 07:20-07:28/8	19:32	17:28	16:44	16:44
29	06:05	06:52 07:36-08:09/33	07:41	07:31 08:33-08:55/22	08:23 09:33-10:10/37	08:49 09:46-10:29/43
	21:38	20:40 07:18-07:29/11	19:30	17:26	16:43	16:45
30	06:06	06:54 07:36-08:09/33	07:43	07:33 08:32-08:57/25	08:25 09:33-10:10/37	08:49 09:46-10:29/43
	21:37	20:38 07:20-07:30/10	19:28	17:25	16:43	16:46
31	06:07	06:55 07:35-08:08/33		07:35 08:32-08:58/26		08:49 09:47-10:29/42
	21:35	20:35 07:21-07:29/8		17:23		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	279	429	541	114	1074	1294

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March		April		May		June	
1	08:49	08:24	07:32		07:23		06:20		05:36	06:04-06:13/9
	16:48	17:34	18:25		20:17		21:06		21:50	
2	08:49	08:22	07:30		07:21		06:18	06:42-06:43/1	05:35	06:04-06:14/10
	16:49	17:36	18:26		20:18		21:08		21:51	
3	08:49	08:21	07:28		07:19		06:16	06:40-06:43/3	05:35	06:03-06:14/11
	16:50	17:38	18:28		20:20		21:09		21:52	
4	08:49	08:19	07:26		07:16		06:14	06:39-06:43/4	05:34	06:02-06:14/12
	16:51	17:40	18:30		20:22		21:11		21:53	
5	08:49	08:18	07:23		07:14		06:13	06:37-06:43/6	05:33	06:02-06:14/12
	16:52	17:42	18:31		20:23		21:13		21:54	
6	08:49	08:16	07:21	07:44-07:47/3	07:12	07:34-07:35/1	06:11	06:35-06:42/7	05:33	06:01-06:14/13
	16:53	17:43	18:33		20:25		21:14		21:55	
7	08:48	08:14	07:19	07:42-07:47/5	07:10	07:32-07:34/2	06:09	06:34-06:42/8	05:32	06:01-06:14/13
	16:55	17:45	18:35		20:27		21:16		21:56	
8	08:48	08:13	07:17	07:40-07:47/7	07:07	07:30-07:32/2	06:07	06:32-06:41/9	05:32	06:00-06:14/14
	16:56	17:47	18:37		20:28		21:17		21:57	
9	08:47	08:11	07:15	07:37-07:46/9	07:05		06:06	06:31-06:41/10	05:31	06:00-06:14/14
	16:57	17:49	18:38		20:30		21:19		21:58	
10	08:47	08:09	07:12	07:35-07:45/10	07:03		06:04	06:33-06:38/5	05:31	06:00-06:14/14
	16:59	17:51	18:40		20:32		21:20		21:59	
11	08:46	08:07	07:10	07:34-07:44/10	07:01		06:02		05:30	05:59-06:14/15
	17:00	17:52	18:42		20:33		21:22		21:59	
12	08:46	08:06	07:08	07:36-07:42/6	06:59		06:01		05:30	05:59-06:14/15
	17:01	17:54	18:43		20:35		21:23		22:00	
13	08:45	08:04	07:06		06:57		05:59		05:30	05:59-06:14/15
	17:03	17:56	18:45		20:37		21:25		22:01	
14	08:44	08:02	07:04		06:54		05:58		05:30	05:59-06:14/15
	17:04	17:58	18:47		20:38		21:26		22:01	
15	08:44	08:00	07:01	07:24-07:26/2	06:52		05:56		05:29	05:59-06:15/16
	17:06	18:00	18:49		20:40		21:28		22:02	
16	08:43	07:58	06:59	07:22-07:27/5	06:50	07:13-07:15/2	05:55		05:29	05:59-06:15/16
	17:07	18:01	18:50		20:42		21:29		22:02	
17	08:42	07:56	06:57	07:19-07:26/7	06:48	07:11-07:15/4	05:53		05:29	05:59-06:15/16
	17:09	18:03	18:52		20:43		21:31		22:03	
18	08:41	07:54	06:55	07:17-07:26/9	06:46	07:09-07:14/5	05:52		05:29	05:59-06:15/16
	17:11	18:05	18:54		20:45		21:32		22:03	
19	08:40	07:52	06:52	07:15-07:26/11	06:44	07:07-07:13/6	05:50		05:29	05:59-06:15/16
	17:12	18:07	18:55		20:46		21:34		22:04	
20	08:39	07:50	06:50	07:13-07:25/12	06:42	07:05-07:11/6	05:49		05:29	05:59-06:15/16
	17:14	18:09	18:57		20:48		21:35		22:04	
21	08:38	07:48	06:48	07:10-07:22/12	06:40		05:48		05:30	05:59-06:15/16
	17:15	18:10	18:59		20:50		21:37		22:04	
22	08:37	07:46	06:46	07:08-07:20/12	06:38		05:47		05:30	06:00-06:16/16
	17:17	18:12	19:00		20:51		21:38		22:04	
23	08:36	07:44	06:43	07:06-07:14/8	06:36		05:45		05:30	06:00-06:16/16
	17:19	18:14	19:02		20:53		21:39		22:05	
24	08:35	07:42	06:41	07:03-07:11/8	06:34		05:44		05:30	06:00-06:16/16
	17:20	18:16	19:04		20:55		21:41		22:05	
25	08:33	07:40	06:39		06:32		05:43	06:10-06:11/1	05:31	06:01-06:17/16
	17:22	18:18	19:05		20:56		21:42		22:05	
26	08:32	07:38	06:37		06:30		05:42	06:09-06:11/2	05:31	06:01-06:17/16
	17:24	18:19	19:07		20:58		21:43		22:05	
27	08:31	07:36	06:34		06:28		05:41	06:08-06:12/4	05:31	06:01-06:17/16
	17:26	18:21	19:09		21:00		21:45		22:05	
28	08:30	07:34	06:32		06:26		05:40	06:07-06:12/5	05:32	06:02-06:17/15
	17:27	18:23	19:10		21:01		21:46		22:05	
29	08:28		07:30		06:24		05:39	06:06-06:12/6	05:32	06:02-06:17/15
	17:29		20:12		21:03		21:47		22:04	
30	08:27		07:28		06:22		05:38	06:06-06:13/7	05:33	06:03-06:18/15
	17:31		20:14		21:04		21:48		22:04	
31	08:25		07:25				05:37	06:05-06:13/8		
	17:33		20:15				21:49			
Potential sun hours	262	279	367		415		482		495	
Sum of minutes with flicker	0	0	136		28		86		435	

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: SAM_WT08 - VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0 m) (34)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October		November	December
1	05:34	06:04-06:19/15	06:09		06:57		07:44		07:36	08:26
	22:04		21:33		20:33		19:25		17:21	16:42
2	05:34	06:04-06:19/15	06:10		06:58		07:46	08:14-08:22/8	07:38	08:27
	22:04		21:32		20:31		19:23		17:19	16:41
3	05:35	06:05-06:19/14	06:12	06:42-06:50/8	07:00		07:47	08:12-08:23/11	07:40	08:29
	22:03		21:30		20:29		19:21		17:17	16:41
4	05:36	06:06-06:20/14	06:13	06:41-06:50/9	07:02	07:27-07:29/2	07:49	08:14-08:24/10	07:42	08:30
	22:03		21:29		20:26		19:18		17:15	16:40
5	05:36	06:06-06:19/13	06:15	06:43-06:52/9	07:03	07:29-07:31/2	07:51	08:16-08:24/8	07:43	08:31
	22:03		21:27		20:24		19:16		17:14	16:40
6	05:37	06:07-06:20/13	06:16	06:44-06:52/8	07:05	07:30-07:31/1	07:52	08:17-08:23/6	07:45	08:32
	22:02		21:25		20:22		19:14		17:12	16:39
7	05:38	06:08-06:20/12	06:18	06:46-06:53/7	07:06		07:54	08:19-08:23/4	07:47	08:34
	22:01		21:23		20:20		19:12		17:10	16:39
8	05:39	06:09-06:21/12	06:19	06:47-06:52/5	07:08		07:56	08:21-08:23/2	07:49	08:35
	22:01		21:22		20:17		19:10		17:09	16:39
9	05:40	06:10-06:21/11	06:21	06:48-06:52/4	07:09		07:57		07:50	08:36
	22:00		21:20		20:15		19:07		17:07	16:38
10	05:41	06:11-06:21/10	06:22	06:50-06:52/2	07:11		07:59		07:52	08:37
	22:00		21:18		20:13		19:05		17:06	16:38
11	05:42	06:12-06:22/10	06:24		07:13		08:01		07:54	08:38
	21:59		21:16		20:11		19:03		17:04	16:38
12	05:43	06:13-06:22/9	06:26		07:14		08:02		07:55	08:39
	21:58		21:14		20:08		19:01		17:03	16:38
13	05:44	06:14-06:22/8	06:27		07:16		08:04		07:57	08:40
	21:57		21:12		20:06		18:59		17:01	16:38
14	05:45	06:15-06:22/7	06:29		07:17		08:06		07:59	08:41
	21:56		21:10		20:04		18:57		17:00	16:38
15	05:46	06:16-06:22/6	06:30		07:19		08:07		08:01	08:42
	21:55		21:08		20:02		18:54		16:58	16:38
16	05:47	06:17-06:21/4	06:32		07:20		08:09		08:02	08:43
	21:54		21:07		19:59		18:52		16:57	16:38
17	05:49	06:18-06:21/3	06:33		07:22		08:11		08:04	08:44
	21:53		21:05		19:57		18:50		16:56	16:38
18	05:50	06:19-06:21/2	06:35		07:24		08:12		08:06	08:44
	21:52		21:03		19:55		18:48		16:54	16:38
19	05:51		06:36		07:25	07:51-07:58/7	08:14		08:07	08:45
	21:51		21:01		19:52		18:46		16:53	16:39
20	05:52		06:38		07:27	07:52-08:00/8	08:16		08:09	08:46
	21:50		20:59		19:50		18:44		16:52	16:39
21	05:54		06:40		07:28	07:53-08:00/7	08:17		08:11	08:46
	21:49		20:56		19:48		18:42		16:51	16:40
22	05:55		06:41		07:30	07:55-08:07/12	08:19		08:12	08:47
	21:48		20:54		19:46		18:40		16:50	16:40
23	05:56		06:43	07:09-07:15/6	07:31	07:56-08:08/12	08:21		08:14	08:47
	21:46		20:52		19:43		18:38		16:49	16:41
24	05:57		06:44	07:11-07:17/6	07:33	07:58-08:09/11	08:22		08:15	08:48
	21:45		20:50		19:41		18:36		16:48	16:41
25	05:59		06:46	07:12-07:17/5	07:35	07:59-08:09/10	07:24		08:17	08:48
	21:44		20:48		19:39		17:34		16:47	16:42
26	06:00		06:47	07:14-07:18/4	07:36	08:01-08:09/8	07:26		08:18	08:49
	21:42		20:46		19:37		17:32		16:46	16:42
27	06:02		06:49	07:15-07:17/2	07:38	08:03-08:09/6	07:28		08:20	08:49
	21:41		20:44		19:34		17:30		16:45	16:43
28	06:03		06:51		07:39	08:04-08:07/3	07:29		08:22	08:49
	21:40		20:42		19:32		17:28		16:44	16:44
29	06:04		06:52		07:41		07:31		08:23	08:49
	21:38		20:40		19:30		17:26		16:43	16:45
30	06:06		06:54		07:43		07:33		08:24	08:49
	21:37		20:37		19:27		17:24		16:43	16:46
31	06:07		06:55				07:35			08:49
	21:35		20:35				17:23			16:47
Potential sun hours	498		452		380		333		269	248
Sum of minutes with flicker	178		75		89		49		0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: SAM_WT09 - VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0 m) (35)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09 06:37-06:38/1	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:34	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:41/2	05:34	05:35	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12 06:37-06:40/3	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:13	21:54	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11 06:35-06:39/4	05:33	05:37	06:16 06:44-06:48/4	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09 06:34-06:38/4	05:32	05:38	06:18 06:46-06:49/3	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19 06:47-06:50/3	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:10	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21 06:48-06:49/1	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02 06:28-06:29/1	05:30	05:42	06:24	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01 06:26-06:27/1	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56	05:59 06:25-06:26/1	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58 06:23-06:25/2	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56 06:22-06:25/3	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55 06:21-06:25/4	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:29	22:02	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53 06:19-06:22/3	05:29	05:48	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:01	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40	05:48	05:29	05:53	06:39	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
27	08:31	07:36	06:34	06:27	05:41	05:31	06:01 06:30-06:34/4	06:49	07:38	07:28	08:20	08:49
	17:25	18:21	19:08	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32	06:03 06:32-06:35/3	06:50	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04 06:33-06:36/3	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:04	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:27	06:22	05:38	05:33	06:06 06:34-06:36/2	06:54	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:37	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07 06:36-06:37/1	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	28	0	13	12	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: SAM_WT10 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (36)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20 06:44-06:49/5	05:36	05:34 06:04-06:12/8	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:50	22:04	21:34	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18 06:42-06:48/6	05:35	05:34 06:04-06:12/8	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16 06:41-06:47/6	05:35 06:03-06:04/1	05:35 06:05-06:12/7	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14 06:39-06:45/6	05:34 06:02-06:04/2	05:36 06:06-06:12/6	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:13	05:33 06:02-06:05/3	05:36 06:06-06:12/6	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:23	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:05/4	05:37 06:07-06:12/5	06:16	07:05	07:52	07:45	08:33
	16:53	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:06/5	05:38 06:08-06:12/4	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:32 06:00-06:06/6	05:39 06:09-06:12/3	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:47	08:11	07:15	07:05	06:06	05:31 06:00-06:07/7	05:40 06:10-06:12/2	06:21 06:49-06:55/6	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:07/7	05:41 06:11-06:12/1	06:22 06:50-06:56/6	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 05:59-06:07/8	05:42	06:24 06:51-06:56/5	07:13	08:01	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 05:59-06:07/8	05:43	06:26 06:53-06:57/4	07:14	08:02	07:56	08:39
	17:01	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 05:59-06:08/9	05:44	06:27 06:54-06:57/3	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 05:59-06:08/9	05:45	06:29 06:56-06:58/2	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:01	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 05:59-06:09/10	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:55	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 05:59-06:09/10	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:42	21:30	22:03	21:54	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 05:59-06:09/10	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29 05:59-06:09/10	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:53	06:52	06:44	05:50	05:29 05:59-06:09/10	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 05:59-06:10/11	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:29 05:59-06:10/11	05:54	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:00-06:11/11	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:05	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:00-06:11/11	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:41
24	08:35	07:42	06:41	06:34	05:44	05:30 06:00-06:10/10	05:57	06:44	07:33	08:23	08:15	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:32	05:43	05:31 06:00-06:10/10	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:01-06:11/10	06:00	06:47	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31 06:01-06:11/10	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40	05:32 06:02-06:11/9	06:03	06:51	07:39	07:29	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24 06:48-06:50/2	05:39	05:32 06:02-06:11/9	06:04	06:52	07:41	07:31	08:23	08:49
	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22 06:46-06:49/3	05:38	05:33 06:03-06:12/9	06:06	06:54	07:43	07:33	08:25	08:49
	17:31		20:14	21:05	21:48	22:04	21:37	20:37	19:27	17:24	16:43	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	5	23	230	50	26	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June
1	08:49 16:48	08:24 08:50-09:14/24 17:35	07:32 18:25	07:23 07:46-08:07/21 20:17	06:20 06:56-07:17/21 21:06	05:36 06:04-06:24/20 21:50
2	08:49 16:49	08:22 08:48-09:14/26 17:36	07:30 18:26	07:21 07:43-08:05/22 20:19	06:18 06:56-07:16/20 21:08	05:35 06:04-06:25/21 21:51
3	08:49 16:50	08:21 08:48-09:13/25 17:38	07:28 18:28	07:19 07:49-08:04/15 20:20	06:16 06:57-07:14/17 21:09	05:35 06:03-06:25/22 21:53
4	08:49 16:51	08:19 08:49-09:14/25 17:40	07:26 18:30	07:16 07:51-08:02/11 20:22	06:14 06:59-07:13/14 21:11	05:34 06:02-06:26/24 21:54
5	08:49 16:52	08:18 08:49-09:13/24 17:42	07:23 18:32	07:14 07:55-07:57/2 20:23 07:37-07:38/1	06:13 07:02-07:10/8 21:13	05:33 06:02-06:27/25 21:54
6	08:49 16:54	08:16 08:49-09:12/23 17:43	07:21 18:33	07:12 07:34-07:36/2 20:25	06:11 21:14	05:33 06:01-06:27/26 21:55
7	08:48 09:18-09:19/1 16:55	08:14 08:50-09:11/21 17:45 08:39-08:41/2	07:19 18:35	07:10 07:32-07:35/3 20:27	06:09 21:16	05:32 06:01-06:28/27 21:56
8	08:48 09:17-09:20/3 16:56	08:13 08:52-09:11/19 17:47 08:38-08:42/4	07:17 18:37	07:08 20:28	06:07 21:17	05:32 06:00-06:28/28 21:57
9	08:47 09:17-09:21/4 16:57	08:11 08:53-09:10/17 17:49 08:36-08:42/6	07:15 18:38	07:05 20:30	06:06 21:19	05:31 06:00-06:29/29 21:58
10	08:47 09:16-09:22/6 16:59	08:09 08:55-09:08/13 17:51 08:34-08:41/7	07:13 18:40	07:03 20:32	06:04 21:20	05:31 06:00-06:29/29 21:59
11	08:46 09:15-09:22/7 17:00	08:07 08:58-09:04/6 17:53 08:32-08:40/8	07:10 18:42	07:01 20:33	06:02 21:22	05:30 05:59-06:29/30 21:59
12	08:46 09:15-09:24/9 17:02	08:06 08:30-08:41/11 17:54	07:08 18:44	06:59 20:35	06:01 06:26-06:27/1 21:24	05:30 05:59-06:30/31 22:00
13	08:45 09:14-09:24/10 17:03	08:04 08:28-08:41/13 17:56	07:06 18:45	06:57 20:37	05:59 06:25-06:27/2 21:25	05:30 05:59-06:30/31 22:01
14	08:44 09:13-09:25/12 17:04	08:02 08:26-08:41/15 17:58	07:04 18:47	06:54 20:38	05:58 06:23-06:26/3 21:27	05:30 05:59-06:31/32 22:01
15	08:44 09:12-09:26/14 17:06	08:00 08:24-08:41/17 18:00	07:01 18:49	06:52 20:40	05:56 06:22-06:26/4 21:28	05:30 05:59-06:31/32 22:02
16	08:43 09:11-09:26/15 17:08	07:58 08:22-08:41/19 18:02	06:59 07:22-07:24/2 18:50	06:50 07:13-07:16/3 20:42	05:55 06:21-06:26/5 21:30	05:29 05:59-06:32/33 22:02
17	08:42 09:10-09:27/17 17:09	07:56 08:20-08:41/21 18:03	06:57 07:19-07:24/5 18:52	06:48 07:11-07:18/7 20:43	05:53 06:19-06:25/6 21:31	05:29 05:59-06:32/33 22:03
18	08:41 09:09-09:27/18 17:11	07:54 08:20-08:40/20 18:05	06:55 07:17-07:24/7 18:54	06:46 07:09-07:19/10 20:45	05:52 06:18-06:24/6 21:32	05:29 05:59-06:32/33 22:03
19	08:40 09:08-09:27/19 17:12	07:52 08:21-08:39/18 18:07	06:52 07:15-07:24/9 18:55	06:44 07:07-07:20/13 20:47	05:51 06:17-06:23/6 21:34	05:29 05:59-06:32/33 22:04
20	08:39 09:07-09:28/21 17:14	07:51 08:22-08:38/16 18:09	06:50 07:13-07:23/10 18:57	06:42 07:05-07:21/16 20:48	05:49 21:35	05:29 05:59-06:32/33 22:04
21	08:38 09:05-09:27/22 17:16	07:49 08:24-08:36/12 18:10	06:48 07:10-07:21/11 18:59	06:40 07:03-07:21/18 20:50	05:48 21:37	05:30 05:59-06:32/33 22:04
22	08:37 09:04-09:28/24 17:17	07:47 08:27-08:33/6 18:12	06:46 07:10-07:19/9 19:00	06:38 07:01-07:22/21 20:51	05:47 21:38	05:30 06:00-06:33/33 22:04
23	08:36 09:03-09:28/25 17:19	07:44 18:14	06:43 07:13-07:16/3 19:02	06:36 06:59-07:22/23 20:53	05:45 21:39	05:30 06:00-06:33/33 22:05
24	08:35 09:01-09:27/26 17:21	07:42 18:16	06:41 07:03-07:07/4 19:04	06:34 06:57-07:22/25 20:55	05:44 21:41	05:30 06:00-06:33/33 22:05
25	08:33 09:00-09:27/27 17:22	07:40 18:18	06:39 07:01-07:08/7 19:05	06:32 06:55-07:21/26 20:56	05:43 21:42	05:31 06:01-06:34/33 22:05
26	08:32 08:59-09:27/28 17:24	07:38 18:19	06:37 06:59-07:09/10 19:07	06:30 06:54-07:21/27 20:58	05:42 06:09-06:15/6 21:43	05:31 06:01-06:34/33 22:05
27	08:31 08:57-09:25/28 17:26	07:36 18:21	06:34 06:57-07:10/13 19:09	06:28 06:54-07:20/26 21:00	05:41 06:08-06:17/9 21:45	05:31 06:01-06:33/32 22:05
28	08:30 08:56-09:25/29 17:27	07:34 18:23	06:32 06:54-07:09/15 19:10	06:26 06:54-07:20/26 21:01	05:40 06:07-06:19/12 21:46	05:32 06:02-06:34/32 22:05
29	08:28 08:54-09:12/18 17:29 09:13-09:22/9		07:30 07:52-08:09/17 20:12	06:24 06:55-07:20/25 21:03	05:39 06:06-06:20/14 21:47	05:32 06:02-06:33/31 22:04
30	08:27 08:53-09:13/20 17:31		07:28 07:50-08:09/19 20:14	06:22 06:55-07:19/24 21:05	05:38 06:06-06:22/16 21:48	05:33 06:03-06:34/31 22:04
31	08:25 08:51-09:13/22 17:33		07:25 07:48-08:08/20 20:15		05:37 06:05-06:23/18 21:49	
Potential sun hours	262	279	367	415	482	495
Sum of minutes with flicker	434	418	161	367	188	896

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

Licensed user:
Arcadis Global B.V
Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SAM_WT11 - VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 m) (37)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July	August	September	October	November	December
1	05:34 06:04-06:34/30	06:09	06:57	07:44	07:36 08:24-08:38/14	08:26 08:57-09:04/7
	22:04	21:33	20:33	19:25	17:21 08:04-08:11/7	16:42
2	05:34 06:04-06:34/30	06:10	06:59	07:46	07:38 08:23-08:40/17	08:27 08:59-09:05/6
	22:04	21:32	20:31	19:23	17:19 08:06-08:11/5	16:41
3	05:35 06:05-06:34/29	06:12	07:00	07:48	07:40 08:21-08:40/19	08:29 09:00-09:04/4
	22:03	21:30	20:29	19:21	17:17 08:08-08:12/4	16:41
4	05:36 06:06-06:34/28	06:13	07:02	07:49	07:42 08:20-08:41/21	08:30 09:02-09:05/3
	22:03	21:29	20:26	19:19	17:16 08:09-08:11/2	16:40
5	05:37 06:06-06:33/27	06:15	07:03 07:29-07:32/3	07:51	07:43 08:19-08:42/23	08:31 09:03-09:04/1
	22:03	21:27	20:24	19:16	17:14	16:40
6	05:37 06:07-06:33/26	06:16	07:05 07:30-07:32/2	07:52	07:45 08:19-08:43/24	08:33
	22:02	21:25	20:22	19:14	17:12	16:39
7	05:38 06:08-06:33/25	06:18	07:06 07:32-07:33/1	07:54	07:47 08:19-08:44/25	08:34
	22:02	21:23	20:20	19:12	17:10	16:39
8	05:39 06:09-06:33/24	06:19 07:10-07:20/10	07:08 07:45-07:56/11	07:56	07:49 08:18-08:44/26	08:35
	22:01	21:22	20:18	19:10	17:09	16:39
9	05:40 06:10-06:33/23	06:21 07:07-07:22/15	07:10 07:43-07:58/15	07:57	07:50 08:19-08:44/25	08:36
	22:00	21:20	20:15	19:07	17:07	16:38
10	05:41 06:11-06:33/22	06:23 07:06-07:24/18	07:11 07:36-07:59/23	07:59	07:52 08:21-08:45/24	08:37
	22:00	21:18	20:13	19:05	17:06	16:38
11	05:42 06:12-06:32/20	06:24 07:05-07:25/20	07:13 07:38-08:00/22	08:01	07:54 08:23-08:45/22	08:38
	21:59	21:16	20:11	19:03	17:04	16:38
12	05:43 06:13-06:32/19	06:26 07:04-07:26/22	07:14 07:39-07:59/20	08:02	07:55 08:24-08:44/20	08:39
	21:58	21:14	20:09	19:01	17:03	16:38
13	05:44 06:14-06:31/17	06:27 07:03-07:26/23	07:16 07:41-08:00/19	08:04	07:57 08:26-08:44/18	08:40
	21:57	21:12	20:06	18:59	17:01 08:45-08:54/9	16:38
14	05:45 06:15-06:30/15	06:29 07:02-07:27/25	07:17 07:42-07:59/17	08:06	07:59 08:28-08:57/29	08:41
	21:56	21:10	20:04	18:57	17:00	16:38
15	05:46 06:16-06:29/13	06:30 07:01-07:27/26	07:19 07:44-07:59/15	08:07	08:01 08:30-08:58/28	08:42
	21:55	21:09	20:02	18:54	16:58	16:38
16	05:47 06:17-06:28/11	06:32 07:01-07:28/27	07:20 07:45-07:58/13	08:09	08:02 08:32-09:00/28	08:43
	21:54	21:07	19:59	18:52	16:57	16:38
17	05:49 06:18-06:26/8	06:33 07:00-07:28/28	07:22 07:47-07:58/11	08:11	08:04 08:34-09:01/27	08:44
	21:53	21:05	19:57	18:50	16:56	16:38
18	05:50 06:19-06:23/4	06:35 07:02-07:28/26	07:24 07:48-07:56/8	08:12	08:06 08:35-09:01/26	08:44
	21:52	21:03	19:55	18:48	16:54	16:39
19	05:51	06:37 07:03-07:27/24	07:25 07:50-07:55/5	08:14	08:07 08:37-09:02/25	08:45
	21:51	21:01	19:53	18:46	16:53	16:39
20	05:52	06:38 07:05-07:27/22	07:27 07:52-07:53/1	08:16 08:57-09:05/8	08:09 08:39-09:03/24	08:46
	21:50	20:59	19:50	18:44	16:52	16:39
21	05:54	06:40 07:06-07:26/20	07:28 07:56-08:04/8	08:17 08:54-09:07/13	08:11 08:41-09:03/22	08:46
	21:49	20:57	19:48	18:42	16:51	16:40
22	05:55	06:41 07:08-07:26/18	07:30 07:55-08:06/11	08:19 08:52-09:09/17	08:12 08:43-09:04/21	08:47
	21:48	20:54	19:46	18:40	16:50	16:40
23	05:56	06:43 07:09-07:25/16	07:32 07:56-08:06/10	08:21 08:51-09:10/19	08:14 08:44-09:03/19	08:47
	21:46	20:52	19:43	18:38	16:49	16:41
24	05:58 06:29-06:32/3	06:44 07:11-07:24/13	07:33 07:58-08:07/9	08:23 08:51-09:11/20	08:15 08:46-09:04/18	08:48
	21:45	20:50	19:41	18:36	16:48	16:41
25	05:59 06:28-06:34/6	06:46 07:12-07:22/10	07:35 07:59-08:06/7	07:24 07:51-08:11/20	08:17 08:48-09:05/17	08:48
	21:44	20:48	19:39	17:34	16:47	16:42
26	06:00 06:29-06:35/6	06:48 07:14-07:21/7	07:36 08:01-08:06/5	07:26 07:53-08:11/18	08:19 08:49-09:04/15	08:49
	21:42	20:46	19:37	17:32	16:46	16:43
27	06:02 06:30-06:36/6	06:49 07:15-07:17/2	07:38 08:03-08:06/3	07:28 07:54-08:11/17	08:20 08:51-09:05/14	08:49
	21:41	20:44	19:34	17:30	16:45	16:43
28	06:03 06:32-06:37/5	06:51	07:39	07:29 07:56-08:11/15	08:22 08:53-09:05/12	08:49
	21:40	20:42	19:32	17:28	16:44	16:44
29	06:05 06:33-06:37/4	06:52	07:41	07:31 07:58-08:10/12	08:23 08:54-09:05/11	08:49
	21:38	20:40	19:30	17:26	16:43	16:45
30	06:06 06:34-06:37/3	06:54	07:43	07:33 08:00-08:10/10	08:24 08:56-09:05/9	08:49
	21:37	20:37	19:28	17:24	16:43	16:46
31	06:07 06:36-06:38/2	06:55		07:35 08:27-08:35/8		08:49
	21:35	20:35		17:23 08:02-08:10/8		16:47
Potential sun hours	498	451	380	333	269	248
Sum of minutes with flicker	406	372	239	185	650	21

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April		May		June
1	08:49	08:24	07:32	07:23	07:45-07:48/3	06:20		05:36
	16:48	17:34	18:24	20:17		21:06		21:50
2	08:49	08:22	07:30	07:21	07:43-07:46/3	06:18		05:35
	16:49	17:36	18:26	20:18		21:08		21:51
3	08:49	08:21	07:28	07:18		06:16		05:35
	16:50	17:38	18:28	20:20		21:09		21:52
4	08:49	08:19	07:26	07:16		06:14		05:34
	16:51	17:40	18:30	20:22		21:11		21:53
5	08:49	08:18	07:23	07:14		06:13		05:33
	16:52	17:42	18:31	20:23		21:12		21:54
6	08:48	08:16	07:21	07:12	07:34-07:35/1	06:11		05:33
	16:53	17:43	18:33	20:25		21:14		21:55
7	08:48	08:14	07:19	07:10	07:32-07:34/2	06:09		05:32
	16:55	17:45	18:35	20:27		21:16		21:56
8	08:48	08:13	07:17	07:07	07:30-07:34/4	06:07		05:32
	16:56	17:47	18:37	20:28		21:17		21:57
9	08:47	08:11	07:15	07:05	07:28-07:32/4	06:06	06:31-06:32/1	05:31
	16:57	17:49	18:38	20:30		21:19		21:58
10	08:47	08:09	07:12	07:03		06:04	06:29-06:30/1	05:31
	16:59	17:51	18:40	20:32		21:20		21:59
11	08:46	08:07	07:10	07:01		06:02	06:28-06:29/1	05:30
	17:00	17:52	18:42	20:33		21:22		21:59
12	08:46	08:06	07:08	06:59		06:01		05:30
	17:01	17:54	18:43	20:35		21:23		22:00
13	08:45	08:04	07:06	06:56		05:59		05:30
	17:03	17:56	18:45	20:37		21:25		22:01
14	08:44	08:02	07:04	06:54		05:58		05:29
	17:04	17:58	18:47	20:38		21:26		22:01
15	08:43	08:00	07:01	06:52		05:56		05:29
	17:06	18:00	18:48	20:40		21:28		22:02
16	08:43	07:58	06:59	06:50		05:55		05:29
	17:07	18:01	18:50	20:41		21:29		22:02
17	08:42	07:56	06:57	06:48		05:53		05:29
	17:09	18:03	18:52	20:43		21:31		22:03
18	08:41	07:54	06:55	06:46		05:52		05:29
	17:10	18:05	18:54	20:45		21:32		22:03
19	08:40	07:52	06:52	06:44		05:50		05:29
	17:12	18:07	18:55	20:46		21:34		22:04
20	08:39	07:50	06:50	06:42		05:49		05:29
	17:14	18:09	18:57	20:48		21:35		22:04
21	08:38	07:48	06:48	06:40		05:48		05:29
	17:15	18:10	18:59	20:50		21:37		22:04
22	08:37	07:46	06:46	06:38		05:46		05:30
	17:17	18:12	19:00	20:51		21:38		22:04
23	08:36	07:44	06:43	06:35		05:45		05:30
	17:19	18:14	19:02	20:53		21:39		22:05
24	08:35	07:42	06:41	06:33		05:44	06:11-06:12/1	05:30
	17:20	18:16	19:04	20:55		21:41		22:05
25	08:33	07:40	06:39	06:31		05:43	06:10-06:12/2	05:30
	17:22	18:17	19:05	20:56		21:42		22:05
26	08:32	07:38	06:37	06:29		05:42	06:09-06:12/3	05:31
	17:24	18:19	19:07	20:58		21:43		22:05
27	08:31	07:36	06:34	06:27		05:41	06:08-06:11/3	05:31
	17:26	18:21	19:08	21:00		21:44		22:05
28	08:29	07:34	06:32	06:26		05:40	06:07-06:11/4	05:32
	17:27	18:23	19:10	21:01		21:46		22:05
29	08:28		07:30	06:24		05:39	06:06-06:10/4	05:32
	17:29		20:12	21:03		21:47		22:04
30	08:27		07:27	06:22		05:38	06:07-06:09/2	05:33
	17:31		20:13	21:04		21:48		22:04
31	08:25		07:25	07:48-07:50/2		05:37		
	17:33		20:15			21:49		
Potential sun hours	262	279	367	415		482		495
Sum of minutes with flicker	0	0	2	17		22		0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SWB_WT01_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	July		August		September		October	November	December
1	05:33		06:09		06:57		07:44	07:36	08:26
	22:04		21:33		20:33		19:25	17:21	16:42
2	05:34		06:10	06:39-06:40/1	06:58		07:46	07:38	08:27
	22:04		21:32		20:31		19:23	17:19	16:41
3	05:35		06:12	06:40-06:41/1	07:00	07:26-07:30/4	07:47	07:40	08:29
	22:03		21:30		20:29		19:21	17:17	16:41
4	05:36		06:13		07:02	07:27-07:31/4	07:49	07:42	08:30
	22:03		21:28		20:26		19:18	17:15	16:40
5	05:36		06:15		07:03	07:29-07:31/2	07:51	07:43	08:31
	22:02		21:27		20:24		19:16	17:14	16:40
6	05:37		06:16		07:05	07:30-07:31/1	07:52	07:45	08:32
	22:02		21:25		20:22		19:14	17:12	16:39
7	05:38		06:18		07:06		07:54	07:47	08:34
	22:01		21:23		20:20		19:12	17:10	16:39
8	05:39		06:19		07:08		07:56	07:48	08:35
	22:01		21:22		20:17		19:10	17:09	16:38
9	05:40		06:21		07:09		07:57	07:50	08:36
	22:00		21:20		20:15		19:07	17:07	16:38
10	05:41		06:22		07:11	07:36-07:39/3	07:59	07:52	08:37
	21:59		21:18		20:13		19:05	17:06	16:38
11	05:42		06:24		07:13	07:38-07:41/3	08:00	07:54	08:38
	21:59		21:16		20:11		19:03	17:04	16:38
12	05:43		06:25		07:14	07:39-07:41/2	08:02	07:55	08:39
	21:58		21:14		20:08		19:01	17:03	16:38
13	05:44		06:27		07:16	07:41-07:42/1	08:04	07:57	08:40
	21:57		21:12		20:06		18:59	17:01	16:38
14	05:45	06:15-06:19/4	06:29		07:17		08:05	07:59	08:41
	21:56		21:10		20:04		18:56	17:00	16:38
15	05:46	06:16-06:20/4	06:30		07:19		08:07	08:01	08:42
	21:55		21:08		20:02		18:54	16:58	16:38
16	05:47	06:17-06:21/4	06:32		07:20		08:09	08:02	08:43
	21:54		21:06		19:59		18:52	16:57	16:38
17	05:48	06:18-06:21/3	06:33		07:22		08:10	08:04	08:44
	21:53		21:05		19:57		18:50	16:56	16:38
18	05:50	06:19-06:21/2	06:35		07:23		08:12	08:06	08:44
	21:52		21:03		19:55		18:48	16:54	16:38
19	05:51	06:20-06:22/2	06:36		07:25		08:14	08:07	08:45
	21:51		21:00		19:52		18:46	16:53	16:39
20	05:52	06:21-06:22/1	06:38		07:27		08:16	08:09	08:46
	21:50		20:58		19:50		18:44	16:52	16:39
21	05:53		06:39		07:28		08:17	08:11	08:46
	21:49		20:56		19:48		18:42	16:51	16:39
22	05:55		06:41		07:30		08:19	08:12	08:47
	21:48		20:54		19:46		18:40	16:50	16:40
23	05:56		06:43		07:31		08:21	08:14	08:47
	21:46		20:52		19:43		18:38	16:49	16:40
24	05:57		06:44		07:33		08:22	08:15	08:48
	21:45		20:50		19:41		18:36	16:48	16:41
25	05:59		06:46		07:35		07:24	08:17	08:48
	21:44		20:48		19:39		17:34	16:47	16:42
26	06:00		06:47		07:36		07:26	08:18	08:49
	21:42		20:46		19:36		17:32	16:46	16:42
27	06:02		06:49		07:38		07:28	08:20	08:49
	21:41		20:44		19:34		17:30	16:45	16:43
28	06:03		06:51		07:39		07:29	08:21	08:49
	21:39		20:42		19:32		17:28	16:44	16:44
29	06:04		06:52		07:41		07:31	08:23	08:49
	21:38		20:40		19:30		17:26	16:43	16:45
30	06:06		06:54		07:43		07:33	08:24	08:49
	21:36		20:37		19:27		17:24	16:42	16:46
31	06:07		06:55				07:35		08:49
	21:35		20:35				17:22		16:47
Potential sun hours	498		452		380		333	269	248
Sum of minutes with flicker	20		2		20		0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling WTG: SWB_WT02_RP - VESTAS V150-6.0 6000 150.0 !O!

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:49	08:24	07:32	07:23	06:20	05:36	05:33	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:24	20:17	21:06	21:50	22:04	21:33	20:33	19:25	17:21	16:42
2	08:49	08:22	07:30	07:21	06:18	05:35	05:34	06:10	06:58	07:46	07:38	08:27
	16:49	17:36	18:26	20:18	21:08	21:51	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:18	06:16	05:35	05:35	06:12	07:00	07:47	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:52	22:03	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34	05:35	06:13	07:01	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:53	22:03	21:28	20:26	19:18	17:15	16:40
5	08:49	08:18	07:23	07:14	06:12	05:33	05:36	06:15	07:03	07:51	07:43	08:31
	16:52	17:41	18:31	20:23	21:12	21:54	22:02	21:27	20:24	19:16	17:14	16:40
6	08:48	08:16	07:21	07:12	06:11	05:33	05:37	06:16	07:05	07:52	07:45	08:32
	16:53	17:43	18:33	20:25	21:14	21:55	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32	05:38	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:01	21:23	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:07	06:07	05:31	05:39	06:19	07:08	07:56	07:48	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:17	19:09	17:09	16:38
9	08:47	08:11	07:15	07:05	06:06	05:31	05:40	06:21	07:09	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:12	07:03	06:04	05:31	05:41	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:20	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:07	07:10	07:01	06:02	05:30	05:42	06:24	07:12	08:00	07:54	08:38
	17:00	17:52	18:42	20:33	21:22	21:59	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30	05:43	06:25	07:14	08:02	07:55	08:39
	17:01	17:54	18:43	20:35	21:23	22:00	21:58	21:14	20:08	19:01	17:02	16:38
13	08:45	08:04	07:06	06:56 07:19-07:20/1	05:59	05:30	05:44	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54 07:17-07:19/2	05:58	05:29	05:45	06:29	07:17	08:05	07:59	08:41
	17:04	17:58	18:47	20:38	21:26	22:01	21:56	21:10	20:04	18:56	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29	05:46	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:48	20:40	21:28	22:02	21:55	21:08	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29	05:47	06:32	07:20	08:09	08:02	08:43
	17:07	18:01	18:50	20:41	21:29	22:02	21:54	21:06	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29	05:48	06:33	07:22	08:10	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:53	21:05	19:57	18:50	16:56	16:38
18	08:41	07:54	06:55	06:46	05:52	05:29	05:50	06:35	07:23	08:12	08:06	08:44
	17:10	18:05	18:53	20:45	21:32	22:03	21:52	21:03	19:55	18:48	16:54	16:38
19	08:40	07:52	06:52	06:44	05:50	05:29	05:51	06:36	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:46	21:34	22:04	21:51	21:00	19:52	18:46	16:53	16:39
20	08:39	07:50	06:50	06:42 07:05-07:06/1	05:49	05:29	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:58	19:50	18:44	16:52	16:39
21	08:38	07:48	06:48	06:40 07:03-07:05/2	05:48	05:29	05:53	06:39 07:06-07:07/1	07:28	08:17	08:11	08:46
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:56	19:48	18:42	16:51	16:39
22	08:37	07:46	06:46	06:37	05:46	05:30	05:55	06:41 07:08-07:10/2	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:51	21:38	22:04	21:48	20:54	19:46	18:40	16:50	16:40
23	08:36	07:44	06:43	06:35	05:45	05:30	05:56	06:43 07:09-07:10/1	07:31	08:21	08:14	08:47
	17:19	18:14	19:02	20:53	21:39	22:05	21:46	20:52	19:43	18:38	16:49	16:40
24	08:35	07:42	06:41	06:33	05:44	05:30	05:57	06:44	07:33	08:22	08:15	08:48
	17:20	18:16	19:03	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:33	07:40	06:39	06:31	05:43	05:30	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:17	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:36	06:29	05:42	05:31	06:00	06:47	07:36	07:26	08:18	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:42	20:46	19:36	17:32	16:46	16:42
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	17:25	18:21	19:08	21:00	21:44	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:29	07:34	06:32	06:26	05:40	05:32	06:03	06:50	07:39	07:29	08:21	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:39	20:42	19:32	17:28	16:44	16:44
29	08:28		07:30	06:24	05:39	05:32	06:04	06:52 07:18-07:20/2	07:41	07:31	08:23	08:49
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30	08:27		07:27	06:22	05:38	05:33	06:06	06:54 07:20-07:21/1	07:43	07:33	08:24	08:49
	17:31		20:13	21:04	21:48	22:04	21:36	20:37	19:27	17:24	16:42	16:46
31	08:25		07:25		05:37		06:07	06:55		07:35		08:49
	17:33		20:15		21:49		21:35	20:35		17:22		16:46
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	6	0	0	0	7	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

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Calculated:
20/05/2026 13:18/4.1.264

SHADOW - Calendar per WTG

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

WTG: TEN_WT01 - VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m) (72)

Assumptions for shadow calculations

Sunshine probability S (Average daily sunshine hours) []

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,10	3,00	4,50	6,40	7,10	7,30	7,20	6,80	5,50	3,90	2,40	1,80

Operational time

N	NNE	ENE	E	ESE	SSE	S	SSW	WSW	W	WNW	NNW	Sum
511	543	599	499	371	355	711	1.315	1.568	879	637	561	8.548

Idle start wind speed: Cut in wind speed from power curve

	January	February	March	April	May	June	July	August	September	October	November	December
1	08:50	08:24	07:32	07:23	06:20	05:36 06:04-06:14/10	05:34 06:05-06:23/18	06:09	06:57	07:44	07:36	08:26
	16:48	17:34	18:25	20:17	21:06	21:51	22:04	21:34	20:33	19:25	17:21	16:42
2	08:50	08:22	07:30	07:21	06:18	05:35 06:04-06:15/11	05:34 06:04-06:23/19	06:10	06:59	07:46	07:38	08:27
	16:49	17:36	18:26	20:19	21:08	21:52	22:04	21:32	20:31	19:23	17:19	16:41
3	08:49	08:21	07:28	07:19	06:16	05:35 06:03-06:16/13	05:35 06:05-06:23/18	06:12	07:00	07:48	07:40	08:29
	16:50	17:38	18:28	20:20	21:09	21:53	22:04	21:30	20:29	19:21	17:17	16:41
4	08:49	08:19	07:26	07:16	06:14	05:34 06:02-06:16/14	05:36 06:06-06:24/18	06:13	07:02	07:49	07:42	08:30
	16:51	17:40	18:30	20:22	21:11	21:54	22:03	21:29	20:27	19:19	17:16	16:40
5	08:49	08:18	07:24	07:14	06:13	05:33 06:02-06:17/15	05:36 06:06-06:23/17	06:15	07:03	07:51	07:43	08:31
	16:52	17:42	18:32	20:24	21:13	21:55	22:03	21:27	20:24	19:16	17:14	16:40
6	08:49	08:16	07:21	07:12	06:11	05:33 06:01-06:17/16	05:37 06:07-06:23/16	06:16	07:05	07:52	07:45	08:33
	16:54	17:43	18:33	20:25	21:14	21:56	22:02	21:25	20:22	19:14	17:12	16:39
7	08:48	08:14	07:19	07:10	06:09	05:32 06:01-06:18/17	05:38 06:08-06:23/15	06:18	07:06	07:54	07:47	08:34
	16:55	17:45	18:35	20:27	21:16	21:56	22:02	21:24	20:20	19:12	17:10	16:39
8	08:48	08:13	07:17	07:08	06:07	05:32 06:00-06:17/17	05:39 06:09-06:23/14	06:19	07:08	07:56	07:49	08:35
	16:56	17:47	18:37	20:28	21:17	21:57	22:01	21:22	20:18	19:10	17:09	16:39
9	08:48	08:11	07:15	07:05	06:06	05:31 06:00-06:18/18	05:40 06:10-06:23/13	06:21	07:10	07:57	07:50	08:36
	16:57	17:49	18:38	20:30	21:19	21:58	22:00	21:20	20:15	19:07	17:07	16:38
10	08:47	08:09	07:13	07:03	06:04	05:31 06:00-06:19/19	05:41 06:11-06:23/12	06:22	07:11	07:59	07:52	08:37
	16:59	17:51	18:40	20:32	21:21	21:59	22:00	21:18	20:13	19:05	17:06	16:38
11	08:46	08:08	07:10	07:01	06:02	05:30 06:01-06:19/18	05:42 06:12-06:23/11	06:24	07:13	08:01	07:54	08:38
	17:00	17:53	18:42	20:33	21:22	22:00	21:59	21:16	20:11	19:03	17:04	16:38
12	08:46	08:06	07:08	06:59	06:01	05:30 06:00-06:19/19	05:43 06:13-06:22/9	06:26	07:14	08:02	07:56	08:39
	17:02	17:54	18:44	20:35	21:24	22:00	21:58	21:14	20:09	19:01	17:03	16:38
13	08:45	08:04	07:06	06:57	05:59	05:30 06:00-06:19/19	05:44 06:14-06:22/8	06:27	07:16	08:04	07:57	08:40
	17:03	17:56	18:45	20:37	21:25	22:01	21:57	21:12	20:06	18:59	17:01	16:38
14	08:44	08:02	07:04	06:54	05:58	05:30 06:01-06:19/18	05:45 06:15-06:21/6	06:29	07:17	08:06	07:59	08:41
	17:04	17:58	18:47	20:38	21:27	22:02	21:56	21:11	20:04	18:57	17:00	16:38
15	08:44	08:00	07:01	06:52	05:56	05:29 06:01-06:20/19	05:46 06:16-06:19/3	06:30	07:19	08:07	08:01	08:42
	17:06	18:00	18:49	20:40	21:28	22:02	21:56	21:09	20:02	18:54	16:58	16:38
16	08:43	07:58	06:59	06:50	05:55	05:29 06:01-06:20/19	05:47	06:32	07:21	08:09	08:02	08:43
	17:07	18:02	18:50	20:42	21:30	22:03	21:55	21:07	19:59	18:52	16:57	16:38
17	08:42	07:56	06:57	06:48	05:53	05:29 06:01-06:20/19	05:49	06:33	07:22	08:11	08:04	08:44
	17:09	18:03	18:52	20:43	21:31	22:03	21:54	21:05	19:57	18:50	16:56	16:38
18	08:41	07:55	06:55	06:46	05:52	05:29 06:01-06:20/19	05:50	06:35	07:24	08:12	08:06	08:45
	17:11	18:05	18:54	20:45	21:33	22:03	21:52	21:03	19:55	18:48	16:54	16:39
19	08:40	07:53	06:52	06:44	05:51	05:29 06:02-06:21/19	05:51	06:37	07:25	08:14	08:07	08:45
	17:12	18:07	18:55	20:47	21:34	22:04	21:51	21:01	19:53	18:46	16:53	16:39
20	08:39	07:51	06:50	06:42	05:49	05:29 06:02-06:21/19	05:52	06:38	07:27	08:16	08:09	08:46
	17:14	18:09	18:57	20:48	21:35	22:04	21:50	20:59	19:50	18:44	16:52	16:39
21	08:38	07:49	06:48	06:40	05:48	05:30 06:02-06:21/19	05:54	06:40	07:28	08:17	08:11	08:47
	17:15	18:10	18:59	20:50	21:37	22:04	21:49	20:57	19:48	18:42	16:51	16:40
22	08:37	07:47	06:46	06:38	05:47	05:30 06:03-06:22/19	05:55	06:41	07:30	08:19	08:12	08:47
	17:17	18:12	19:00	20:52	21:38	22:05	21:48	20:55	19:46	18:40	16:50	16:40
23	08:36	07:45	06:43	06:36	05:45	05:30 06:03-06:22/19	05:56	06:43	07:32	08:21	08:14	08:48
	17:19	18:14	19:02	20:53	21:40	22:05	21:47	20:52	19:43	18:38	16:49	16:41
24	08:35	07:43	06:41	06:34	05:44	05:30 06:02-06:22/20	05:58	06:44	07:33	08:23	08:16	08:48
	17:20	18:16	19:04	20:55	21:41	22:05	21:45	20:50	19:41	18:36	16:48	16:41
25	08:34	07:40	06:39	06:32	05:43	05:31 06:03-06:22/19	05:59	06:46	07:35	07:24	08:17	08:48
	17:22	18:18	19:05	20:56	21:42	22:05	21:44	20:48	19:39	17:34	16:47	16:42
26	08:32	07:38	06:37	06:30	05:42	05:31 06:03-06:22/19	06:00	06:48	07:36	07:26	08:19	08:49
	17:24	18:19	19:07	20:58	21:43	22:05	21:43	20:46	19:37	17:32	16:46	16:42
27	08:31	07:36	06:34	06:28	05:41	05:31 06:03-06:22/19	06:02	06:49	07:38	07:28	08:20	08:49
	17:26	18:21	19:09	21:00	21:45	22:05	21:41	20:44	19:34	17:30	16:45	16:43
28	08:30	07:34	06:32	06:26	05:40 06:07-06:08/1	05:32 06:04-06:23/19	06:03	06:51	07:40	07:30	08:22	08:49
	17:27	18:23	19:10	21:01	21:46	22:05	21:40	20:42	19:32	17:28	16:44	16:44
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	17:29		20:12	21:03	21:47	22:05	21:38	20:40	19:30	17:26	16:43	16:45
30	08:27		07:28	06:22	05:38 06:06-06:13/7	05:33 06:04-06:23/19	06:06	06:54	07:43	07:33	08:25	08:50
	17:31		20:14	21:05	21:48	22:04	21:37	20:38	19:28	17:24	16:43	16:46
31	08:25		07:25		05:37 06:05-06:14/9		06:07	06:55		07:35		08:50
	17:33		20:15		21:49		21:35	20:35		17:23		16:47
Potential sun hours	262	279	367	415	482	495	498	452	380	333	269	248
Sum of minutes with flicker	0	0	0	0	22	529	197	0	0	0	0	0

Table layout: For each day in each month the following matrix apply

Day in month	Sun rise (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker
	Sun set (hh:mm)	First time (hh:mm) with flicker-Last time (hh:mm) with flicker/Minutes with flicker

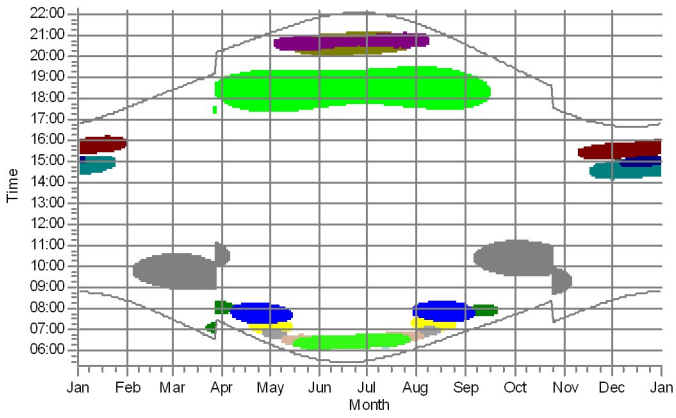
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

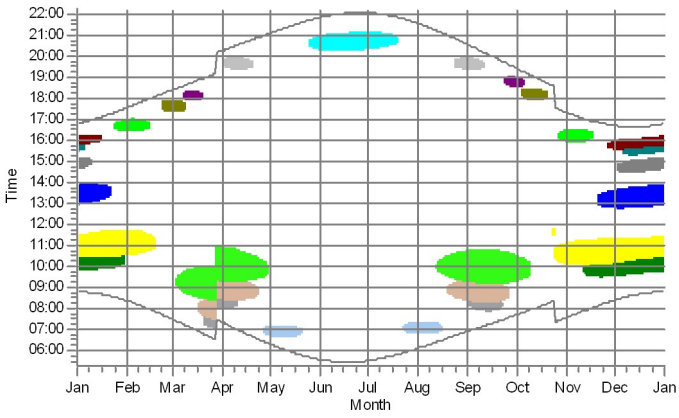
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

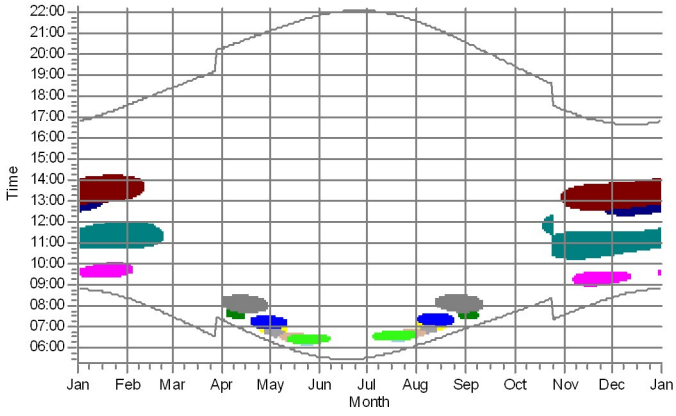
KLZ_WT21: KLZ_WT21 Armasteel



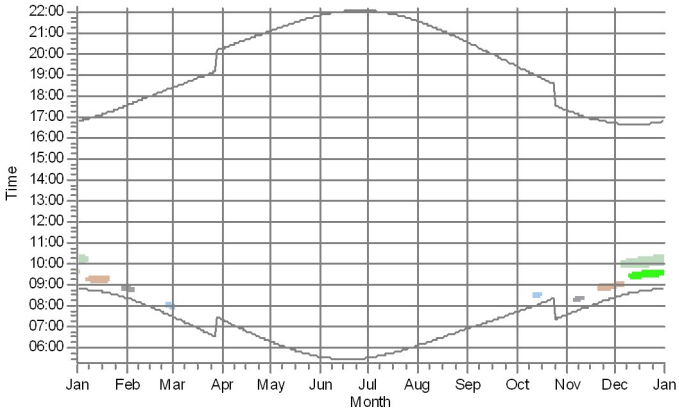
KLZ_WT22: KLZ_WT22 Magelaanstraat



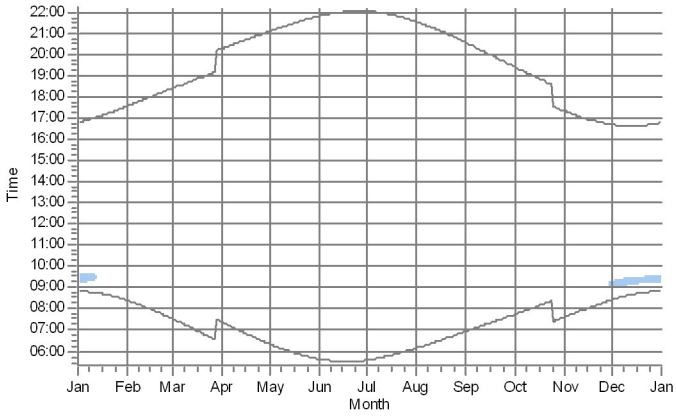
KLZ_WT23: KLZ_WT23 Stukw erkers



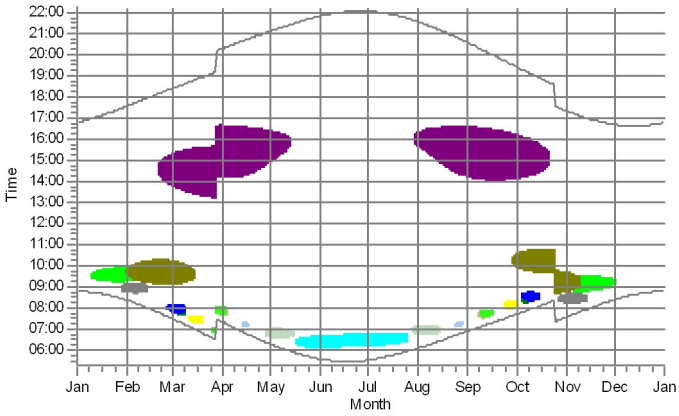
ALB_WT01: ENERCON E-115 EP3 E3 4200 115.7 !O! hub: 135,0 m (TOT: 19



ATS_WT01: NORDEX N149/5.X-pow ercurve 5700 149.0 !O! hub: 156,5 m



CBR_WT01: VESTAS V150-4.2 4200 150.0 !O! hub: 165,0 m (TOT: 240,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

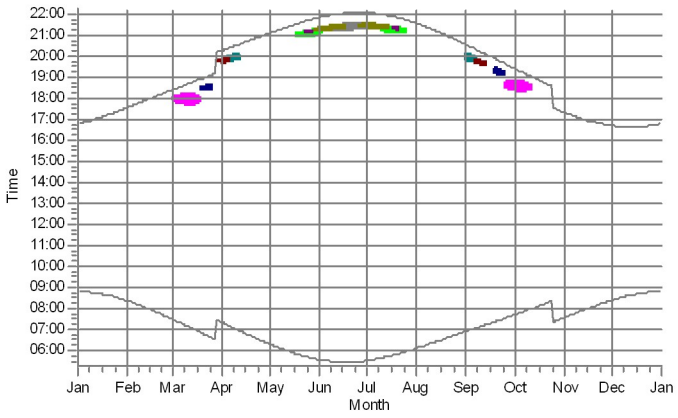
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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

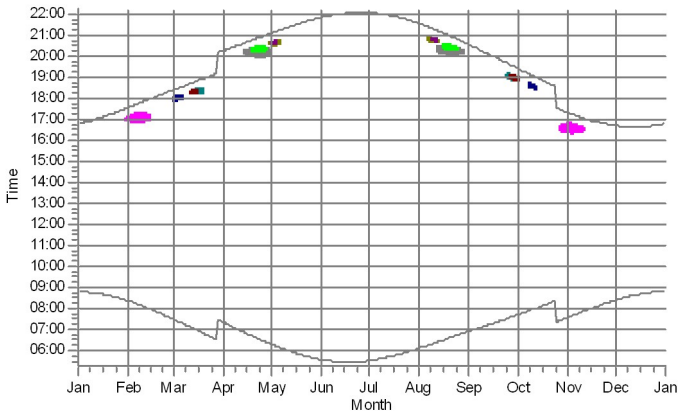
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

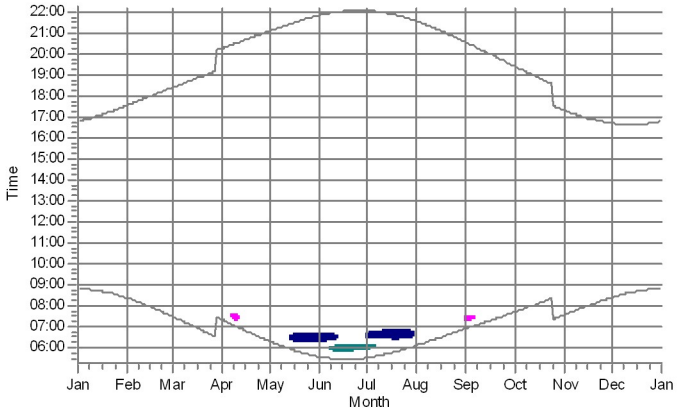
EVE_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



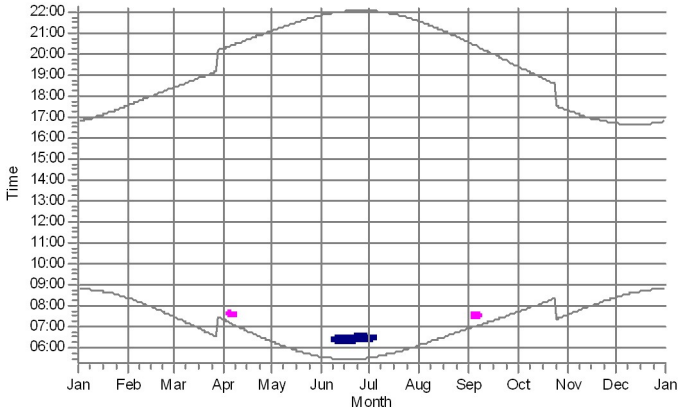
EVE_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 117,0 m (TOT: 18



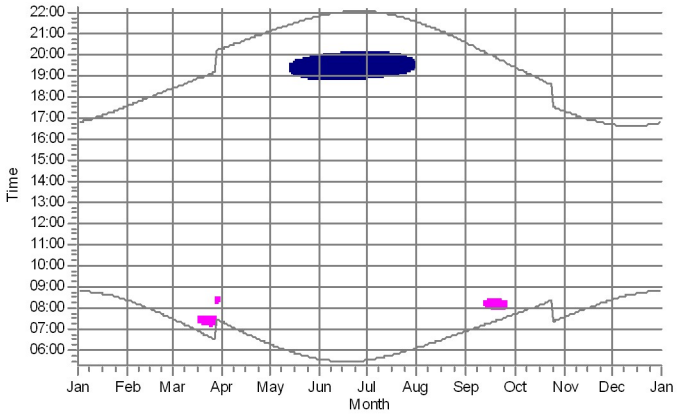
KLZ_WT01: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



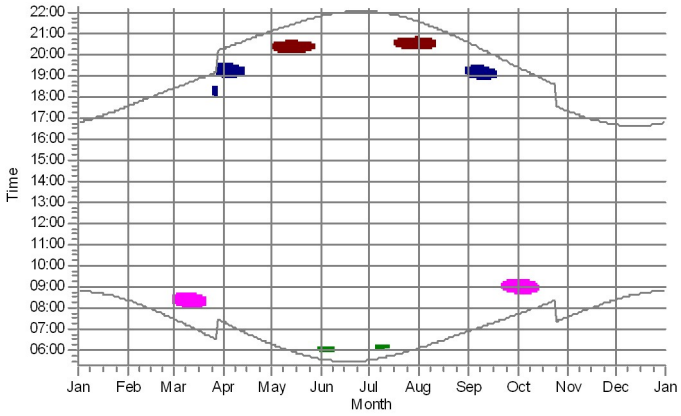
KLZ_WT02: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT04: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT05: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent

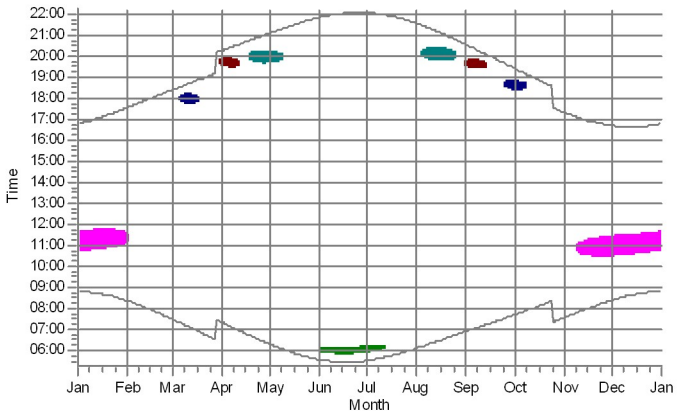
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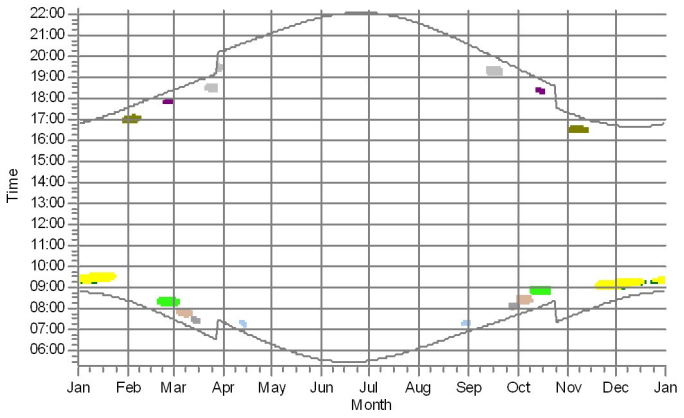
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

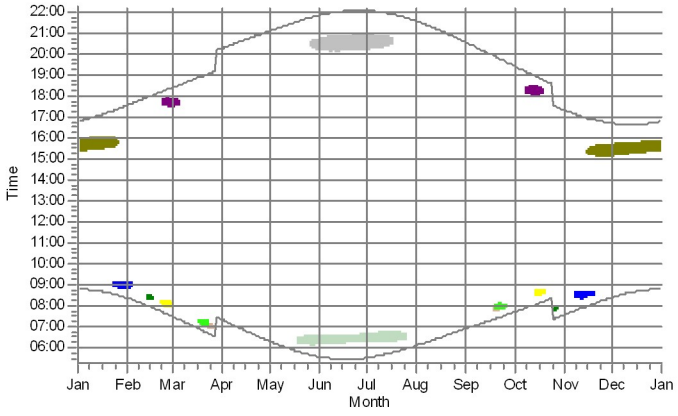
KLZ_WT06: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



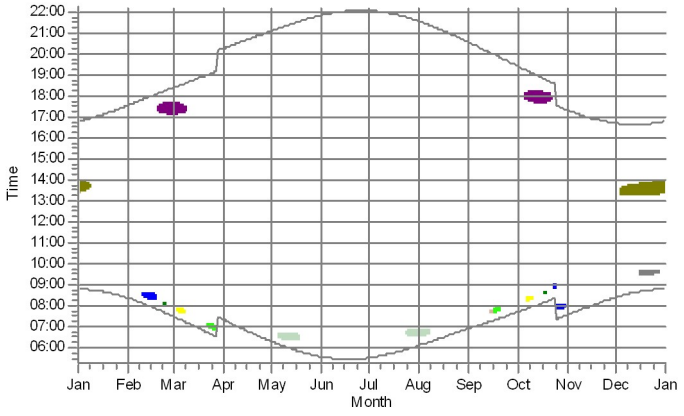
KLZ_WT08: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



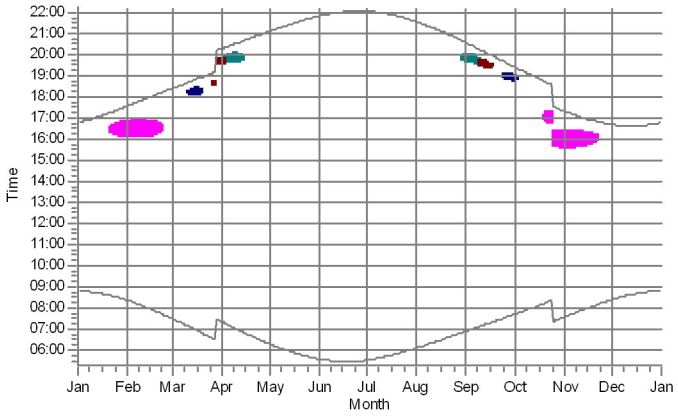
KLZ_WT10: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



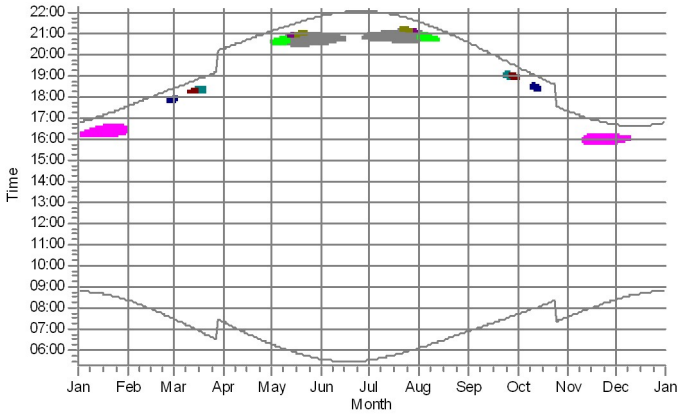
KLZ_WT11: ENERCON E-70 E4 2000 71.0 !O! hub: 98,0 m (TOT: 133,5 m) (



KLZ_WT12: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



KLZ_WT13: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

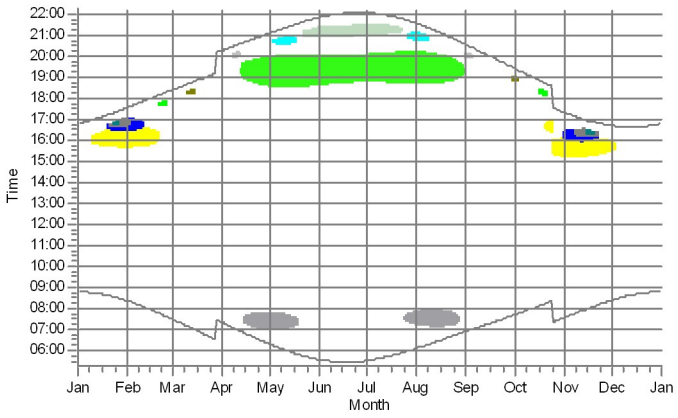
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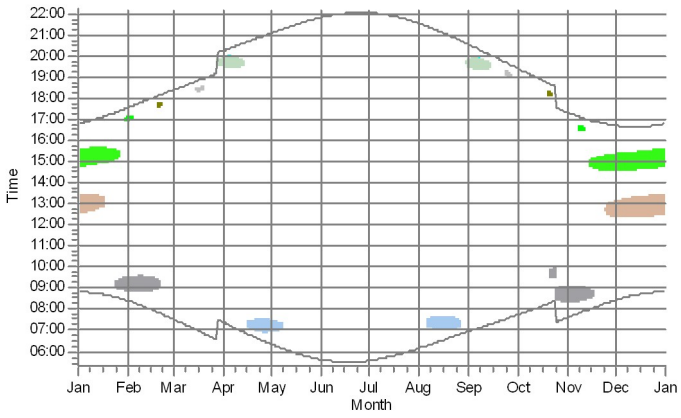
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

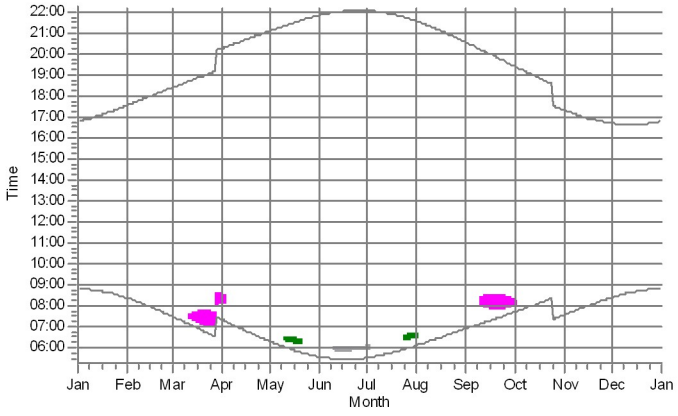
KLZ_WT15: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



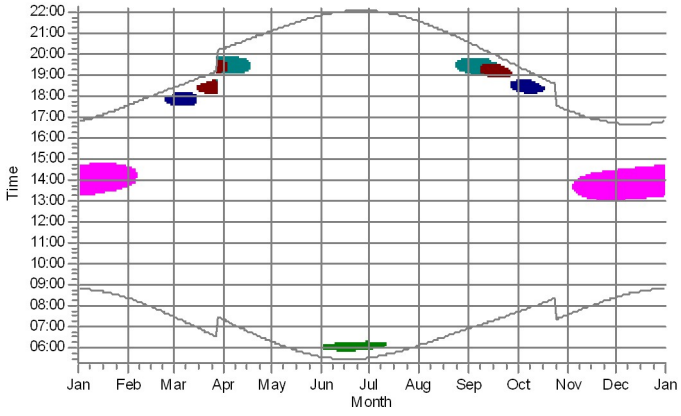
KLZ_WT16: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



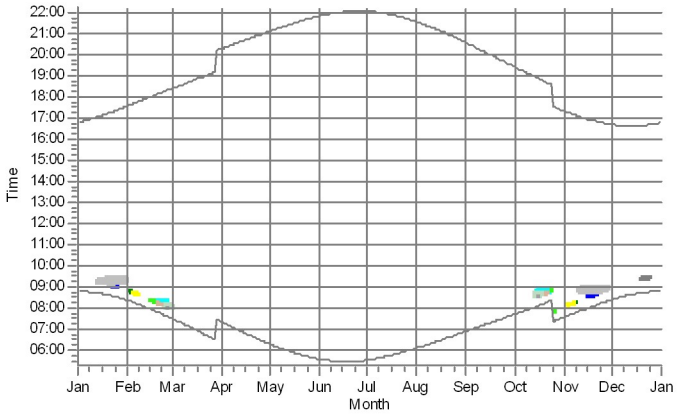
KLZ_WT17: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



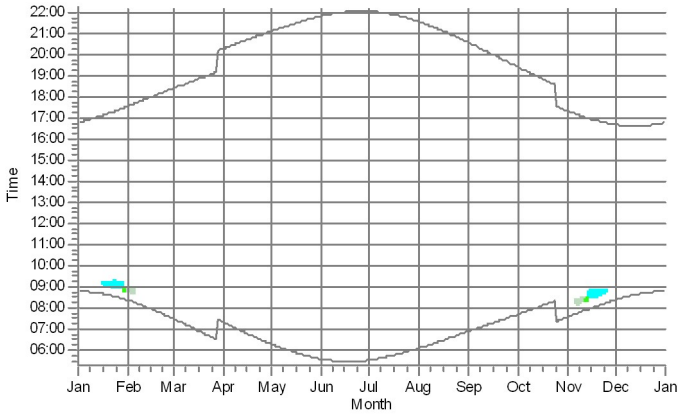
KLZ_WT20: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0 r



MVN_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 164,0 m (TOT: 23



MVZ_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

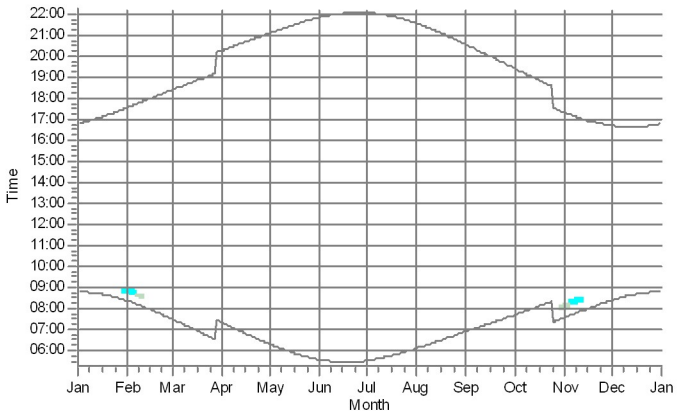
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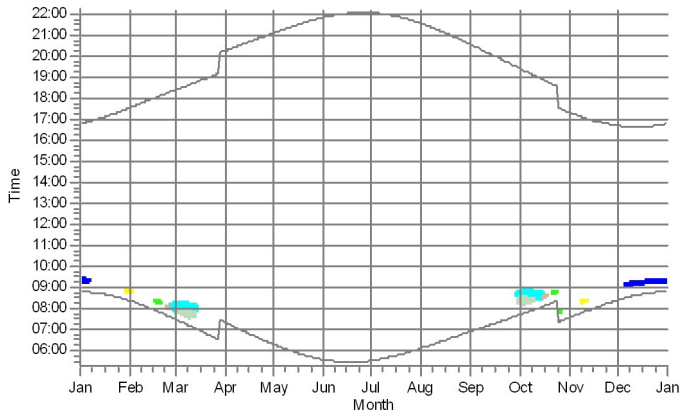
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

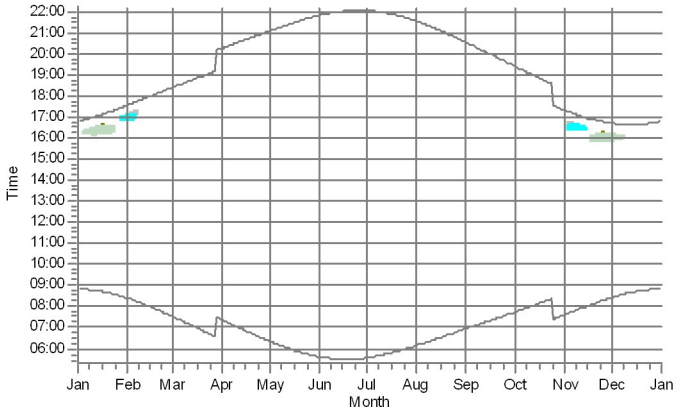
MVZ_WT02: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 137,0 m (TOT: 2(



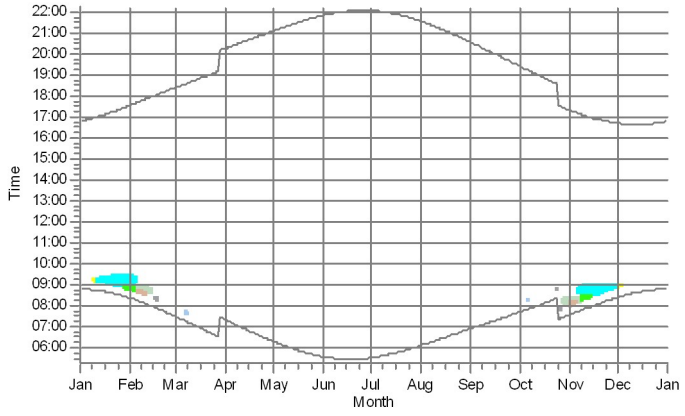
MXS_WT01: SENVION 3.4M104 3400 104.0 !O! hub: 100,0 m (TOT: 152,0 r



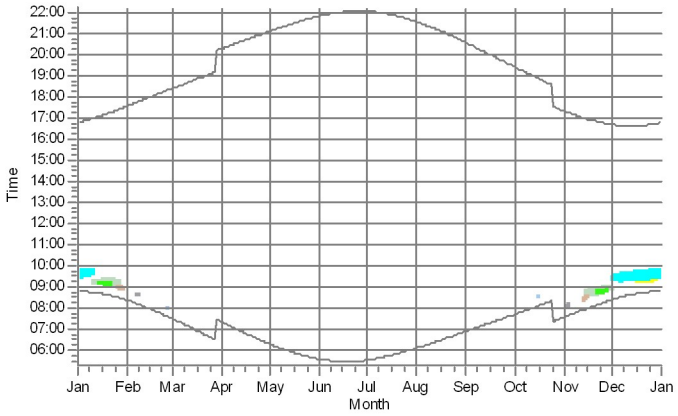
NES_WT01: VESTAS V126-3.6 HTq 3600 126.0 !O! hub: 147,0 m (TOT: 21



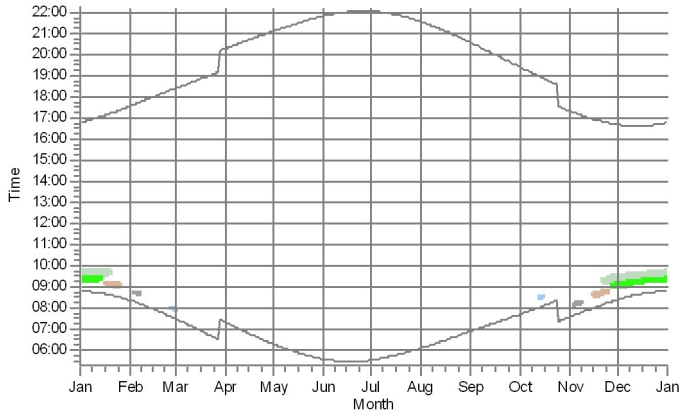
RHR_WT01: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



RHR_WT02: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



RHR_WT03: NORDEX N149/4.0-4.5 4500 149.0 !O! hub: 125,0 m (TOT: 199



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 15: Hageland 14, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

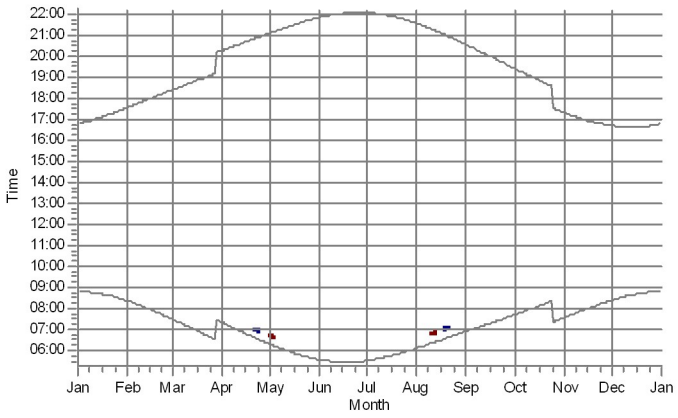
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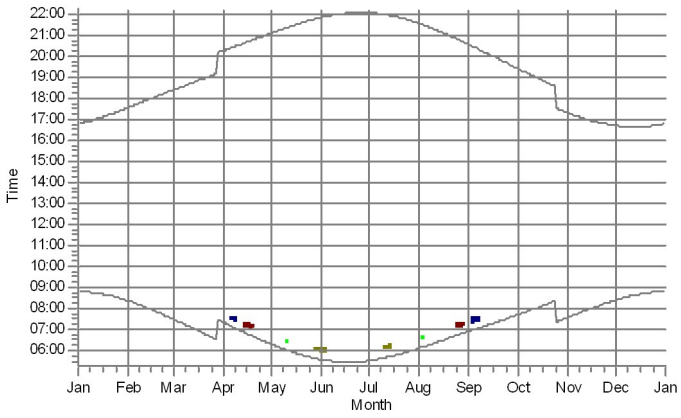
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

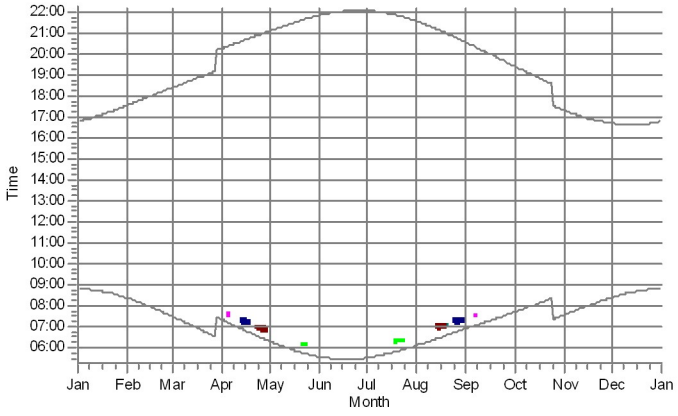
SAM_WT01: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



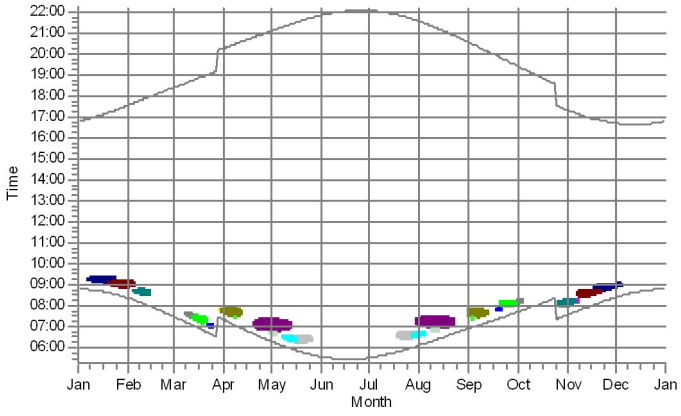
SAM_WT02: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



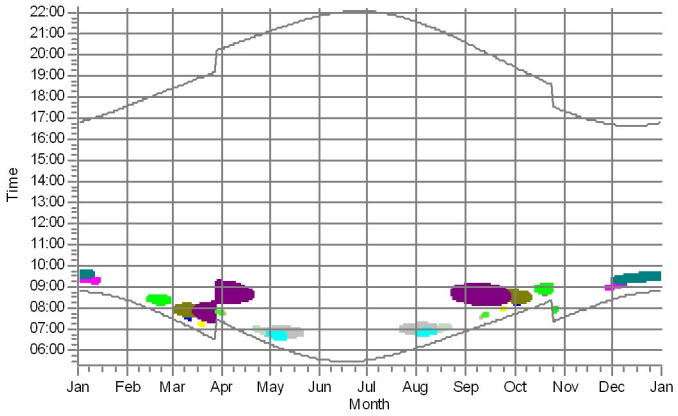
SAM_WT03: SENVION 3.0M122 3000 122.0 !O! hub: 139,0 m (TOT: 200,0 m



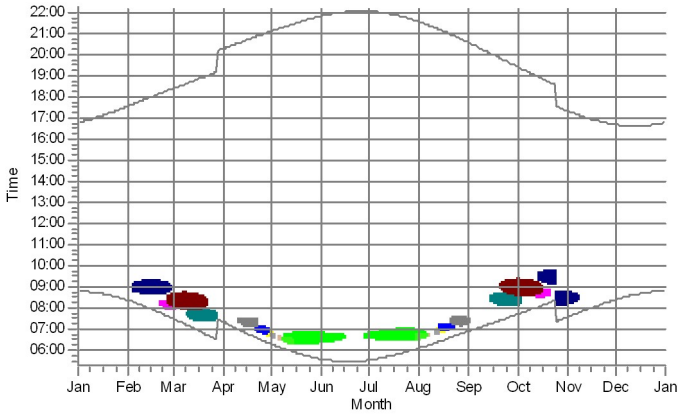
SAM_WT04: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



SAM_WT05: SENVION 3.6M140 3600 140.0 !O! hub: 130,0 m (TOT: 200,0 m



SAM_WT06: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
- 13: Doornzele Dries 107, 9940 Evergem
- 14: Abdijdreef 2, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

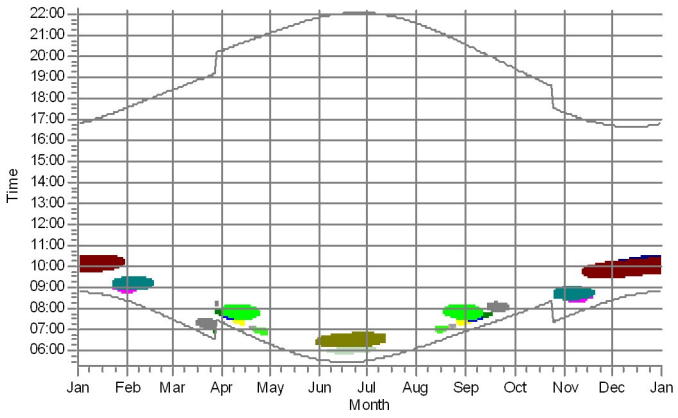
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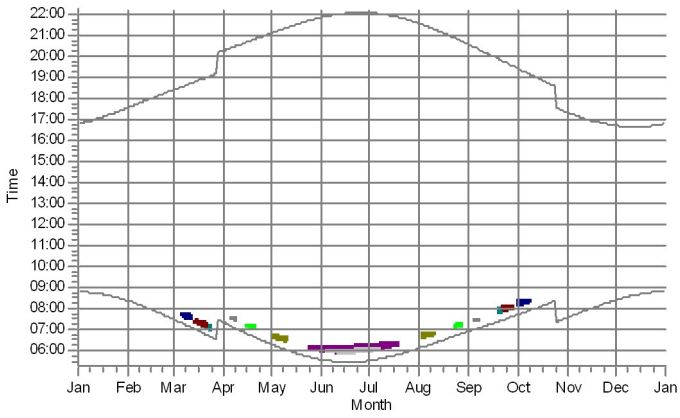
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

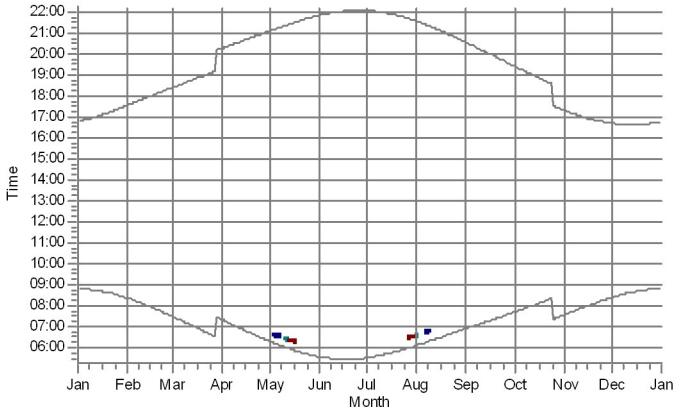
SAM_WT07: VESTAS V150-4.2 4200 150.0 !O! hub: 155,0 m (TOT: 230,0



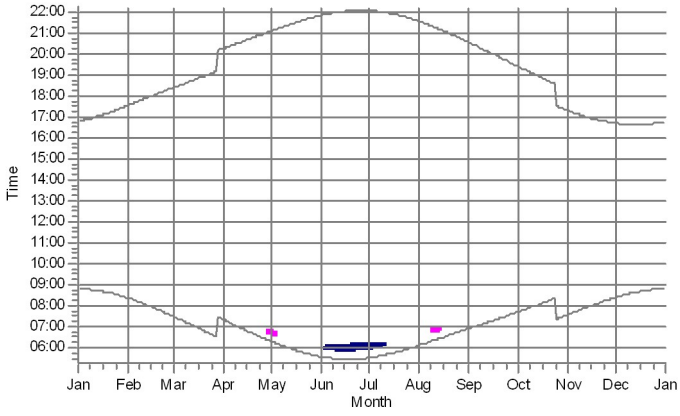
SAM_WT08: VESTAS V150-4.2 4200 150.0 !O! hub: 123,0 m (TOT: 198,0



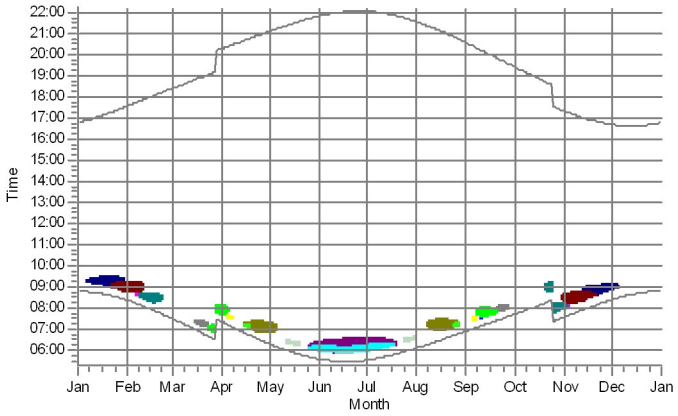
SAM_WT09: VESTAS V162-6.0 6000 162.0 !O! hub: 149,0 m (TOT: 230,0



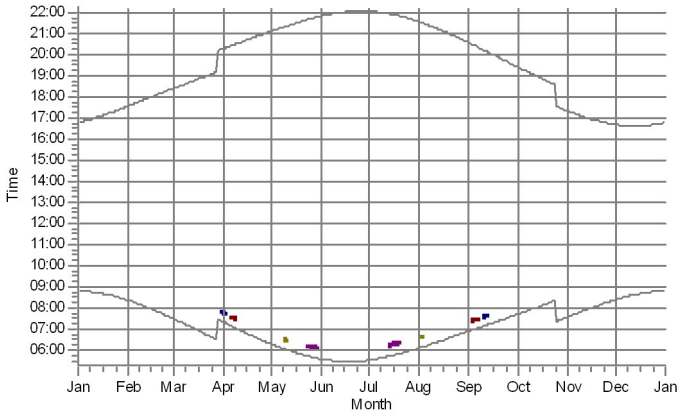
SAM_WT10: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



SAM_WT11: VESTAS V162-6.0 6000 162.0 !O! hub: 119,0 m (TOT: 200,0



SWB_WT01_RP: VESTAS V150-6.0 6000 150.0 !O!



Shadow receptors

- 1: Hoogstraat 54, 9940 Evergem
- 2: Pachtgoederen 2, 9940 Evergem
- 3: Pachtgoederen 2, 9940 Evergem
- 4: James Cookstraat 10, 9042 Gent
- 5: Pelikaanstraat 60, 9940 Evergem
- 6: Christoffel Columbuslaan 23, 9042 Gent
- 7: Christoffel Columbuslaan 23, 9042 Gent
- 8: Christoffel Columbuslaan 17, 9042 Gent
- 9: Willem van Rubroeckstraat 2, 9042 Gent
- 10: Willem van Rubroeckstraat 26, 9042 Gent
- 11: Arbedkaai 3, 9042 Gent
- 12: Terdonkkaai 8, 9042 Gent
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- 14: Abdijdreef 2, 9940 Evergem
- 16: Molendreef 5, 9940 Evergem
- 17: Amerigo Vespuccistraat 2A, 9940 Evergem
- 18: Pachtgoederen 1, 9940 Evergem

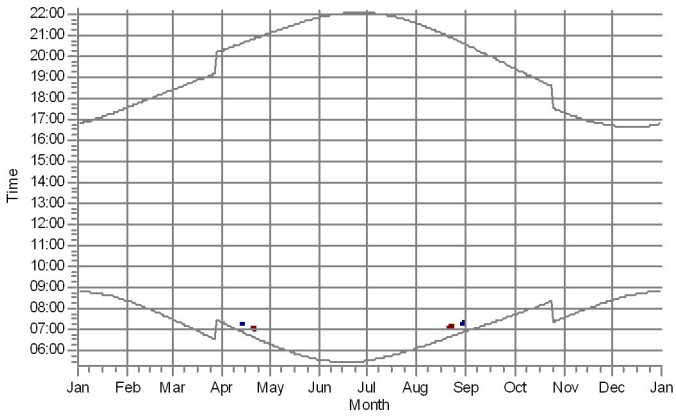
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+31 (0)88 4261 261

Calculated:
20/05/2026 13:18/4.1.264

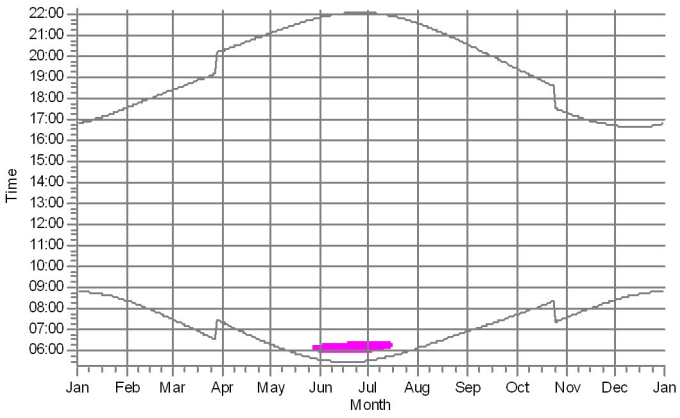
SHADOW - Calendar per WTG, graphical

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling

SWB_WT02_RP: VESTAS V150-6.0 6000 150.0 !O!



TEN_WT01: VESTAS V150-6.0 6000 150.0 !O! hub: 165,0 m (TOT: 240,0 m



Shadow receptors

5: Pelikaanstraat 60, 9940 Evergem

7: Christoffel Columbuslaan 23, 9042 Gent

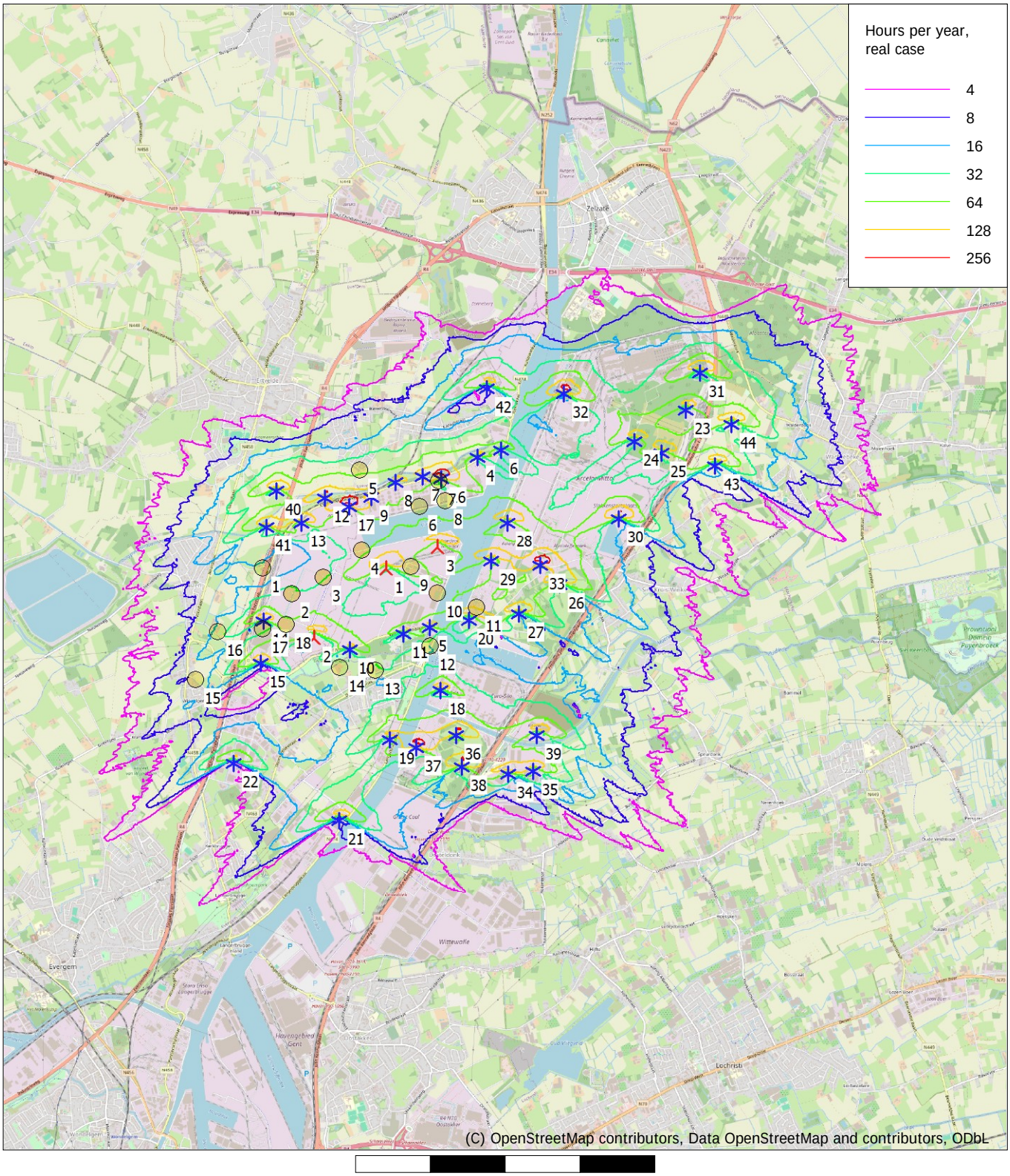
8: Christoffel Columbuslaan 17, 9042 Gent

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Symphony, Gustav Mahlerplein 97-103
NL-1082 MS Amsterdam
+31 (0)88 4261 261

Calculated:
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SHADOW - Map

Calculation: Slagschaduw Windpark Armasteel - Project + Ref B + Ontwikkeling



Map: EMD OpenStreetMap , Print scale 1:75.000, Map center Belgian Lambert72-BD72 (BE 2001 <±1m) East: 109.600 North: 205.160

New WTG Existing WTG Shadow receptor

Flicker map level: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (2)

Time step: 3 minutes, Day step: 7 days, Map resolution: 20 m, Visibility resolution: 10 m, Eye height: 1,5 m