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Provincia di Perugia



Comune di Foligno

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Titolo del Progetto:

**PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZADI 72 MW
DENOMINATO "MONTE BURANO" E UBICATO NEL COMUNE DI FOLIGNO (PG)**

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**RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA
DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)**

FOGLIO:

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Progettazione:




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	<p align="center">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p align="center">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEROGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p align="right">DATA: FEBBRAIO 2024 <i>Pag. 1 di 49</i></p>
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1. PREMESSA

1.1 Scopo del documento

Con il Decreto Legislativo 29 dicembre 2003, n. 387, il Parlamento Italiano ha proceduto all'attuazione della direttiva 2001/77/CE relativa alla promozione dell'energia elettrica prodotta da fonti energetiche rinnovabili nel mercato interno dell'elettricità.


Con la nuova normativa introdotta dal D.lgs. 30 giugno 2016, n. 127 (legge Madia), la conferenza dei servizi si potrà svolgere in modalità "Sincrona" o "Asincrona", nei casi previsti dalla legge.

Trattandosi di un impianto eolico onshore di potenza superiore a 30 MW, ai sensi dell'ALLEGATO II alla Parte seconda del Decreto Legislativo 3 aprile 2006, n. 152 come s.m.i., l'Autorità competente in materia di Valutazione di Impatto Ambientale (VIA) è il Ministero dell'Ambiente e della Sicurezza Energetica (MASE) e pertanto presso tale Ente verrà avviato l'iter finalizzato al rilascio del parere di compatibilità ambientale.

L'autorizzazione alla costruzione ed esercizio dell'impianto eolico e delle relative opere di connessione alla RTN è comunque assoggettata, previo parere favorevole di compatibilità ambientale, al rilascio di Autorizzazione Unica da parte della Regione Molise.

Il posizionamento degli aerogeneratori è stato definito e calibrato ai fini del rispetto dei criteri di inserimento territoriale di cui all'Allegato al Decreto Ministeriale 10 settembre 2010 "*Linee guida per l'autorizzazione degli impianti alimentati da fonti rinnovabili*" con particolare riferimento a quanto previsto al paragrafo 3.2, lettera n) ed al paragrafo 5.3, lettere a) e b), e del rispetto di quanto disciplinato dalle Delibere di Giunta Regionale del Molise 4 agosto 2011, n. 621 e 22 giugno 2022, n. 187. Nel caso specifico, l'iter di VIA si configura come un endo-procedimento della procedura di Autorizzazione Unica ai sensi del D.lgs. 29 dicembre 2003. In data 21 luglio 2017 è entrato in vigore il d. lgs. n. 104 del 16 giugno 2017 (pubblicato in G.U. n. 156 del 06/06/2017), il quale ha modificato la disciplina inserita nel D.lgs. n.152/2006 in tema di Valutazione di Impatto ambientale (VIA).

Il provvedimento trae origine da un adeguamento nazionale alla normativa europea prevista dalla Direttiva 2014/52/UE del 16 aprile 2014, la quale ha modificato la Direttiva 2011/92/UE concernente la valutazione dell'impatto ambientale di determinati progetti pubblici e privati. Scopo del provvedimento in esame è quello di rendere più efficiente le procedure amministrative nonché di innalzare il livello di tutela ambientale.

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 4 di 49</p>
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In linea con l'orientamento mondiale, la società RWE RENEWABLESITALIA S.R.L. intende realizzare nel comune di Foligno (PG), un impianto di produzione di energia elettrica da fonte eolica (nel seguito "impianto eolico") costituito da n. 10 aerogeneratori ciascuno della potenza di 7,2 MW, per una potenza complessiva di 72,00 MW.

Ai fini della connessione dell'impianto eolico alla Rete di Trasmissione Nazionale (RTN), previa apposita richiesta inoltrata a TERNA S.p.A., la Proponente riceveva la Soluzione Tecnica Minima Generale (STMG) identificata dal Codice Pratica n.66548 e riportata nell'ALLEGATO A1 alla Comunicazione prot. n. P20230066548 ricevuta a mezzo PEC del 26/06/2023, la quale prevede che l'impianto venga collegato in antenna a 132 kV su una nuova Stazione Elettrica (SE) di smistamento a 132 kV della RTN da inserire in entra-esce sulla linea 132 kV "Bastardo-Cappuccini".


Il parco in progetto sarà costituito da 10 aerogeneratori e relative opere accessorie, ovvero la realizzazione della viabilità di accesso al parco, ove non esistente e/o non idonea al trasporto dei componenti delle torri, la posa del cavidotto interno di collegamento tra gli aerogeneratori, la posa del cavidotto di collegamento tra il parco eolico e la nuova cabina di Terna che permetterà l'immissione dell'energia elettrica prodotta alla dorsale nazionale. Il progetto è finalizzato alla produzione di energia elettrica da fonti rinnovabili, in linea con la Strategia Energetica Nazionale (SEN).

2. CONTENUTI DELLA RELAZIONE

Il presente elaborato ha lo scopo di valutare tecnicamente l'eventuale impatto generato dall'effetto di "shadow flickering" derivante dall'evoluzione dell'ombra per il progetto di realizzazione di un parco eolico sito nel comune di Foligno, in provincia di Perugia (PG), da parte della società RWE RENEWABLES ITALIA S.R.L., relativamente all'installazione di n. 10 aerogeneratori proposti per una futura potenza complessiva del parco eolico di 72,00 MW.

Il parco eolico denominato "Monte Burano" è composto da 10 aerogeneratori, che ricadono tutti nel territorio comunale di Foligno (PG). All'interno dello stesso territorio Comunale si estende anche il cavidotto che collega il parco eolico alla sottostazione lato utente e alla Stazione Terna. Anche queste ultime due sono ubicate nello stesso Comune.

Per quanto riguarda gli aerogeneratori, l'aerogeneratore FO10 si posiziona in località Loggio Lié ad una quota di circa 983 m s.l.m., le macchine FO07, FO08 e FO09 nei dintorni del Monte Burano a quote tra 1022 e 1105 m ed esposizione N-O, gli aerogeneratori FO02, FO03, FO04, FO05 e FO06 sono poste in

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località “Monte Burano”, ad altezze, rispettivamente, di 896, 955, 972, 1002 e 996 m circa sul livello del mare. Infine, la FO01 ad un’altitudine di 944 m in località Seggio.

Tutti i terreni su cui saranno installati gli aerogeneratori e realizzate le infrastrutture necessarie, risultano di proprietà privata e corrispondono a terreni ad uso prevalentemente agricolo e pascolivo. Gli aerogeneratori FO08, FO09 e FO10, invece, ricadono su terreni unicamente ad uso pascolo. Entrambe le cabine di raccolta e smistamento occupano una frazione di superficie su particelle censite al catasto come frazionate in “Seminativo”, “Pascolo arboreo” e “Pascolo”. Infine, la sottostazione elettrica lato utente è su una particella con qualità a seminativo e uliveto, ma non avrà nessun’interferenza con l’uliveto attualmente presente, come ben visibile da sopralluoghi e da ortofoto.


Lo shadow flickering è l’espressione comunemente impiegata in ambito specialistico per descrivere l’effetto stroboscopico delle ombre proiettate dalle pale rotanti degli aerogeneratori eolici quando sussistono le condizioni meteorologiche opportune; infatti la possibilità e la durata di tali effetti dipendono da una serie di condizioni ambientali, tra cui:

- ✓ la posizione del sole;
- ✓ l’ora del giorno;
- ✓ il giorno dell’anno;
- ✓ le condizioni atmosferiche ambientali;
- ✓ la posizione della turbina eolica rispetto ad un ricettore sensibile.

La valutazione tecnica è eseguita con l’ausilio del software di simulazione specifico per la progettazione degli impianti eolici WindPRO, costituito da un insieme di moduli di elaborazione orientati alla simulazione di una serie di aspetti che caratterizzano le diverse fasi progettuali.

Nella presente relazione è riportata:

- una breve descrizione tecnica del fenomeno di shadow flickering;
- la descrizione del caso studio con le posizioni delle turbine e loro caratteristiche tecniche;
- la descrizione dei recettori soggetti al fenomeno per i quali è stata richiesta questa analisi;
- la sintesi della metodologia di analisi seguita per lo studio;
- la sintesi dei risultati ottenuti, con allegati grafici analitici di dettaglio che descrivono il fenomeno su ognuno dei recettori e da parte di ognuna delle turbine per tutto l’anno solare.

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2.1 Iniziativa

Con la realizzazione dell’impianto eolico Monte Burano, si intende conseguire un significativo risparmio energetico, mediante il ricorso alla fonte energetica rinnovabile rappresentata dal vento, tale tecnologia nasce dall’esigenza di coniugare:

- ✓ la compatibilità con esigenze paesaggistiche e di tutela ambientale;
- ✓ nessun inquinamento acustico;
- ✓ un risparmio di combustibile fossile;
- ✓ una produzione di energia elettrica senza emissioni di sostanze inquinanti.

Il progetto mira a contribuire al soddisfacimento delle esigenze di “Energia Verde” e allo “Sviluppo Sostenibile” invocate dal Protocollo di Kyoto, dalla Conferenza sul clima e l’ambiente di Copenaghen 2009 e dalla Conferenza sul clima di Parigi del 2015.

2.2 Attenzione per l’ambiente

Ad oggi, la produzione di energia elettrica è per la quasi totalità proveniente da impianti termoelettrici che utilizzano combustibili sostanzialmente di origine fossile.


L'Italia non possiede riserve significative di fonti fossili, ma da esse ricava circa il 90% dell'energia che consuma, con una rilevante dipendenza dall'estero. I costi della bolletta energetica, già alti, per l'aumento della domanda internazionale rischiano di diventare insostenibili per la nostra economia con le sanzioni previste in caso di mancato rispetto degli impegni di Kyoto, Copenaghen e Parigi.

La transizione verso un mix di fonti di energia e con un peso sempre maggiore di rinnovabili è, pertanto, strategica per un Paese come il nostro dove, tuttavia, le risorse idrauliche e geotermiche sono già sfruttate appieno.

Negli ultimi 10 anni grazie agli incentivi sulle fonti rinnovabili lo sviluppo delle energie verdi nel nostro paese ha subito un notevole incremento soprattutto nel fotovoltaico e nell’eolico, portando l’Italia tra i paesi più sviluppati dal punto di vista dell’innovazione energetica e ambientale.

La conclusione di detti incentivi ha frenato lo sviluppo soprattutto dell’eolico, creando notevoli problemi all’economia del settore.

La società proponente RWE RENEWABLES ITALIA S.R.L., con sede a Roma in via Andrea Doria, 41/G, si pone come obiettivo di attuare la “grid parity” nell’eolico, grazie all’installazione di impianti di

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elevata potenza, nuovi aerogeneratori, che abbattano i costi fissi e rendono l'energia prodotta dell'eolico conveniente e sullo stesso livello delle energie prodotte dalle fonti fossili.

3. DESCRIZIONE TECNICA DEI COMPONENTI DELL'IMPIANTO

Le pale di un aerogeneratore sono fissate al mozzo e vi è un sistema di controllo che ne modifica costantemente l'orientamento rispetto alla direzione del vento, per offrire allo stesso sempre il medesimo profilo alare garantendo, indipendentemente dalla direzione del vento, un verso orario di rotazione.

L'aerogeneratore previsto per la realizzazione del parco eolico è una turbina da 7,2 MW; nella tabella che segue sono sintetizzate le principali caratteristiche dell'aerogeneratore previsto nel parco eolico.

Altezza al Mozzo	115 m
Diametro Rotore	170 m
Lunghezza singola Pala	85 m
Superficie del rotore	22,698 mq
Numero Pale	3
Velocità di Rotazione Max a regime del Rotore	9.22 rpm
Potenza Nominale Turbina	7200 kW
Cut-Out	25 m/s
Cut-in	3 m/s


Tabella 1 - Caratteristiche principali dell'aerogeneratore previsto nel parco eolico.

- **Rotore-Navicella**

Il rotore è una costruzione a tre pale, montata sopravento rispetto alla torre. L'uscita di potenza è controllata da pitch e regolazione della domanda di coppia. La velocità del rotore è variabile ed è progettata per massimizzare la potenza durante mantenendo i carichi e il livello di rumore.

La navicella è stata progettata per un accesso sicuro a tutti i punti di servizio durante il servizio programmato. Inoltre, la navicella è stata progettata per la presenza sicura dei tecnici dell'assistenza nella navicella durante le prove di servizio con la turbina eolica in piena attività.

Ciò consente un servizio di alta qualità della turbina eolica e fornisce ottimali condizioni di risoluzione dei problemi.

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- **Lame**

Le lame sono generalmente costituite da infusione di fibra di vetro e componenti stampati pultrusi in carbonio. La struttura della lama utilizza gusci aerodinamici contenenti cappucci di longheroni incorporati, legati a due reti di taglio principali in balsa epossidica / fibra di vetro.

- **Mozzo del rotore**

Il mozzo del rotore è solitamente fuso in ghisa sferoidale ed è montato sull'albero lento della trasmissione con un collegamento a flangia. Il mozzo è sufficientemente grande da fornire spazio ai tecnici dell'assistenza durante la manutenzione delle radici e del passo delle pale cuscinetti dall'interno della struttura.

- **Copertura della navicella**

Lo schermo meteorologico e l'alloggiamento attorno ai macchinari nella navicella sono realizzati con pannelli laminati rinforzati con fibra di vetro.

- **Torre**

La turbina eolica è montata di serie su una torre d'acciaio tubolare rastremata. Altre tecnologie di torri sono disponibili per altezze del mozzo più elevate. La torre ha salita interna e accesso diretto al sistema di imbardata e navicella. È dotata di pedane e illuminazione elettrica interna.

- **Controllore**

Il controller per turbine eoliche è un controller industriale basato su microprocessore. Il controllore è completo di quadro e dispositivi di protezione ed è autodiagnostico.

- **Convertitore**

Collegato direttamente al rotore, il convertitore di frequenza è un sistema di conversione 4Q back to back con 2 VSC in un collegamento CC comune.


Il Convertitore di Frequenza consente il funzionamento del generatore a velocità e tensione variabili, fornendo potenza a frequenza e tensione costanti al trasformatore MT.

- **SCADA**

L'aerogeneratore fornisce la connessione al sistema SGRE SCADA. Questo sistema offre il controllo remoto e una varietà di visualizzazioni di stato e report utili da un browser Web Internet standard.

Le viste di stato presentano informazioni tra cui dati elettrici e meccanici, stato operativo e di guasto, dati meteorologici e dati della stazione di rete.

- **Monitoraggio delle condizioni della turbina**

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Oltre al sistema SCADA SGRE, la turbina eolica può essere dotata dell'esclusiva configurazione di monitoraggio delle condizioni SGRE. Questo sistema monitora il livello di vibrazione dei componenti principali e confronta gli spettri di vibrazione effettivi con una serie di spettri di riferimento stabiliti. Revisione dei risultati, analisi dettagliata e la riprogrammazione può essere eseguita utilizzando un browser web standard.

- **Sistemi operativi**

La turbina eolica funziona automaticamente. Si avvia automaticamente quando la coppia aerodinamica raggiunge un certo valore.

Al di sotto della velocità del vento nominale, il controller della turbina eolica fissa i riferimenti di passo e coppia per operare nel punto aerodinamico ottimale (massima produzione) tenendo conto della capacità del generatore.

Una volta superata la velocità del vento nominale, la richiesta di posizione del passo viene regolata per mantenere una produzione di energia stabile pari al valore nominale.

Se è abilitata la modalità declassamento per vento forte, la produzione di energia viene limitata una volta che la velocità del vento supera un valore di soglia definito dalla progettazione, fino a quando non viene raggiunta la velocità del vento di interruzione e la turbina eolica smette di produrre energia.

Se la velocità media del vento supera il limite operativo massimo, l'aerogeneratore viene spento per beccheggio delle pale.

Quando la velocità media del vento scende al di sotto della velocità media del vento di riavvio, i sistemi si ripristinano automaticamente.

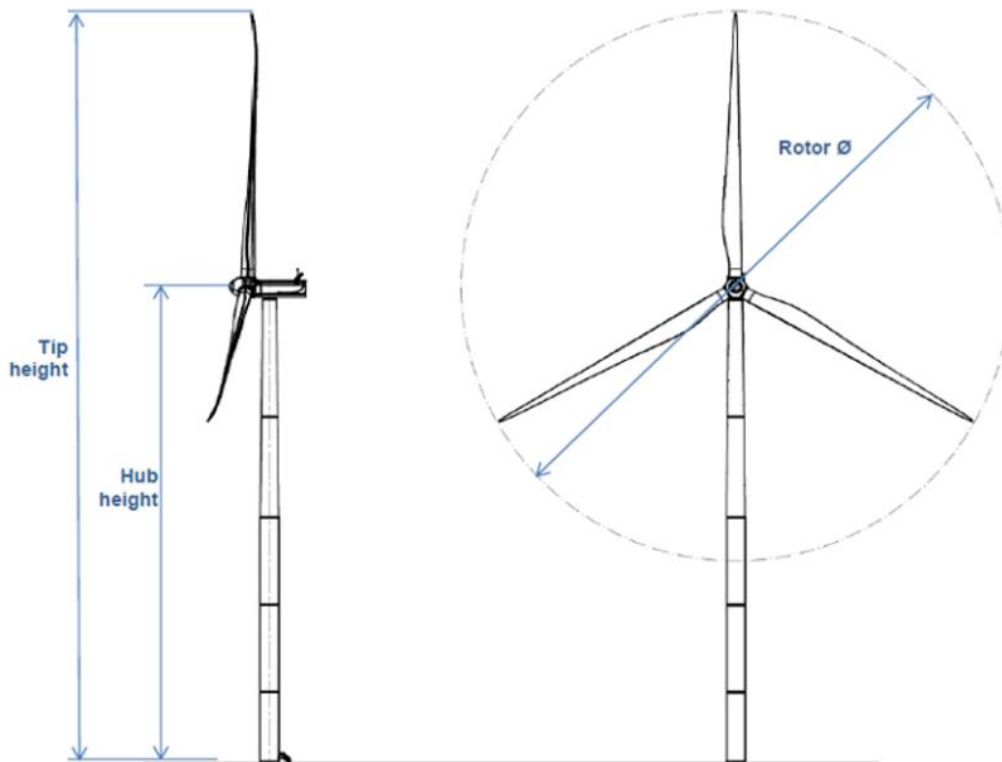


Figura 1 – Esempio Aerogeneratore

La navicella ospita i principali componenti del generatore eolico.

La navicella è ventilata e illuminata da luci elettriche. Un portello fornisce l'accesso alle pale e mozzo. Inoltre all'interno della navicella si trova anche una gru che può essere utilizzata per il sollevamento di strumenti e di altri materiali.


L'accesso dalla torre alla navicella avviene attraverso il fondo della navicella.

La turbina eolica è montata su una torre tubolare in acciaio, con un'altezza al mozzo di circa 115 m, e ospita alla sua base il sistema di controllo.

È costituita da più sezioni tronco-coniche che verranno assemblate in sito. Al suo interno saranno inserite la scala di accesso alla navicella e il cavedio in cui saranno posizionati i cavi elettrici necessari al trasporto dell'energia elettrica prodotta.

L'accesso alla turbina avviene attraverso una porta alla base della torre che consentirà l'accesso al personale addetto alla manutenzione.

La torre, il generatore e la cabina di trasformazione andranno a scaricare su una struttura di fondazione

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 11 di 49</p>
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in cemento armato di tipo diretto che verrà dimensionata sulla base degli studi geologici e dell'analisi dei carichi trasmessi dalla torre.

L'aerogeneratore ad asse orizzontale è costituito da una torre tubolare che porta alla sua sommità la navicella che supporta le pale e contenente i dispositivi di trasmissione dell'energia meccanica, il generatore elettrico e i dispositivi ausiliari.

La navicella può ruotare rispetto al sostegno in modo tale da tenere l'asse della macchina sempre parallela alla direzione del vento (movimento di imbardata).

Opportuni cavi convogliano al suolo, in un quadro all'interno della torre, l'energia elettrica prodotta e trasmettono i segnali necessari per il controllo remoto del sistema aerogeneratore.

Tutte le funzioni dell'aerogeneratore sono monitorate e controllate da un'unità di controllo basata su microprocessori. Le pale possono essere manovrate singolarmente per una regolazione ottimale della potenza prodotta, questo fa sì che anche a velocità del vento elevate, la produzione d'energia viene mantenuta alla potenza nominale.

La turbina è anche dotata di un sistema meccanico di frenatura che, all'occorrenza, può arrestarne la rotazione. In caso di ventosità pericolosa, per la tenuta meccanica delle pale, l'aerogeneratore dispone anche di un freno aerodinamico, un sistema in grado di ruotare le pale fino a 90° attorno al proprio asse che le posiziona in maniera tale da offrire la minima superficie possibile all'azione del vento.

Le verifiche di stabilità del terreno e delle strutture di fondazione saranno eseguite con i metodi ed i procedimenti della geotecnica, tenendo conto delle massime sollecitazioni sul terreno che la struttura trasmette.

Le massime sollecitazioni sul terreno saranno calcolate con riferimento ai valori nominali delle azioni. Il piano di posa delle fondazioni sarà ad una profondità tale da non ricadere in zona ove risultino apprezzabili le variazioni stagionali del contenuto d'acqua.

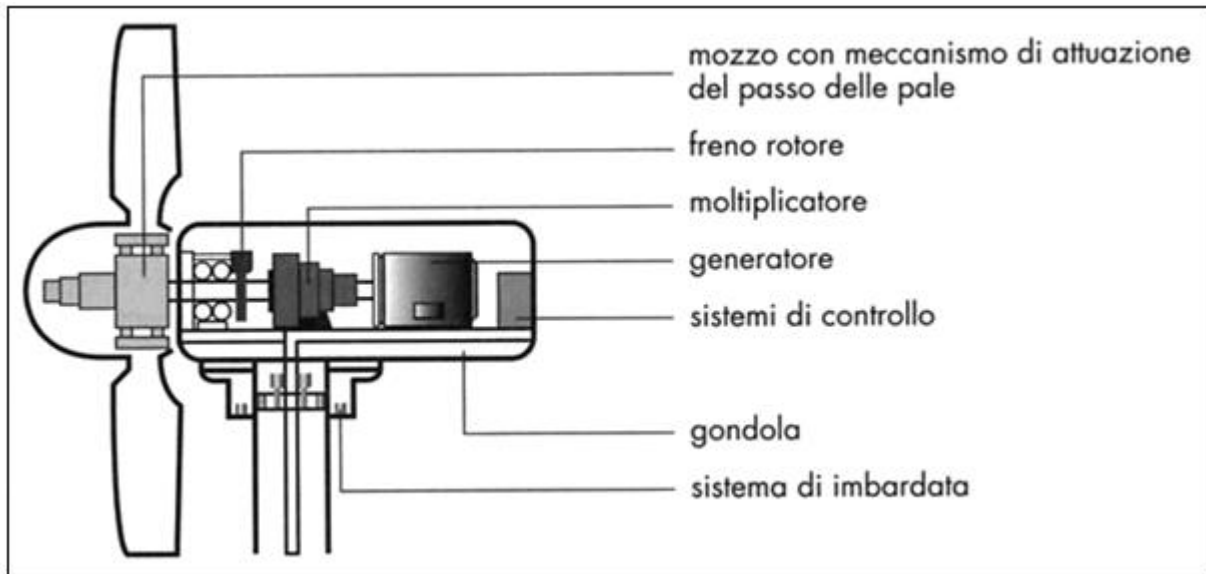


Figura 2 - Schema di principio di un aerogeneratore

4. CENNI SUL FENOMENO DELLO SHADOW FLICKERING

Lo “shadow flickering” (letteralmente “ombreggiamento intermittente”) è l’espressione comunemente impiegata per descrivere l’effetto stroboscopico delle ombre proiettate dalle pale rotanti degli aerogeneratori eolici allorquando il sole si trova alle loro spalle.

Il fenomeno si traduce in una variazione alternata di intensità luminosa che, a lungo andare, può provocare fastidio agli occupanti delle abitazioni le cui finestre risultano esposte al fenomeno stesso. Ovviamente, tale fenomeno risulta assente sia quando il sole è oscurato da nuvole o nebbia, sia quando, in specifiche condizioni di vento, le pale del generatore non sono in rotazione.

Lo shadow flickering consiste in una variazione periodica dell’intensità luminosa osservata causata dalla proiezione, su una superficie, dell’ombra indotta da oggetti in movimento.

Per un impianto eolico tale fenomeno è generato dalla proiezione, al suolo o su un ricettore, dell’ombra prodotta dalle pale in rotazione degli aerogeneratori.

In particolare, le frequenze che possono provocare un senso di fastidio sono comprese tra i 2,5 ed i 20 Hz (Verkuijlen and Westra, 1984), e, l’effetto sugli individui è simile a quello che si sperimenterebbe in seguito alle variazioni di intensità luminosa di una lampada ad incandescenza a causa di continui sbalzi della tensione della rete di alimentazione elettrica.

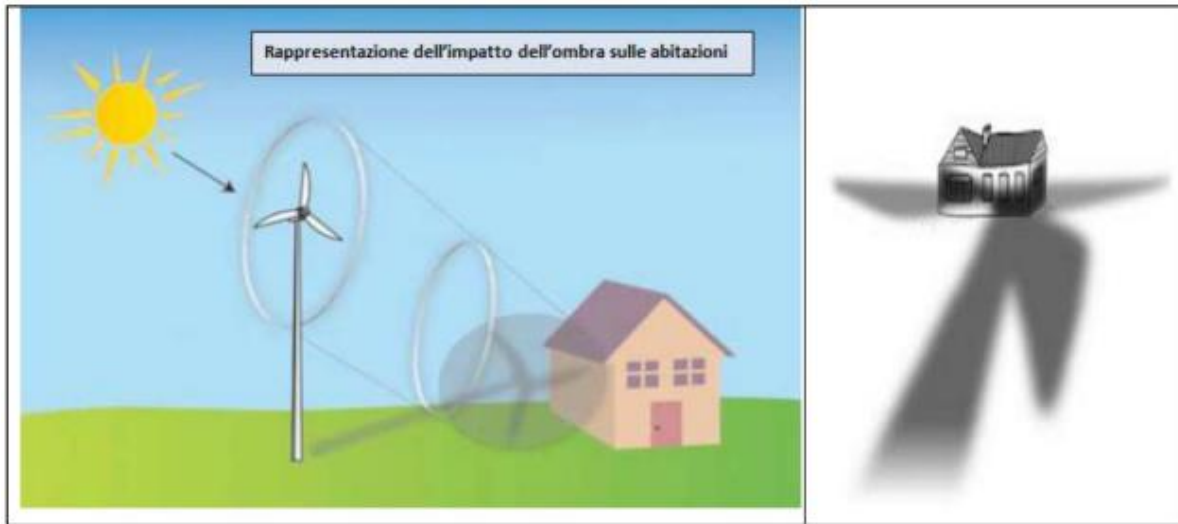


Figura 3 - Rappresentazione schematica del fenomeno dello shadow flickering

La posizione occupata dal sole può essere univocamente individuata con due coordinate angolari: l'azimut, che si misura in senso orario sul piano orizzontale a partire dal nord geografico fino al punto sull'orizzonte direttamente al di sotto dell'oggetto, e l'elevazione (o altezza), che si misura sul piano verticale, partendo dal citato punto, su fino all'oggetto.

Per il movimento della Terra rispetto al sole, l'azimut e l'elevazione cambiano continuamente nel tempo. Pertanto, il percorso seguito dal sole nel cielo durante il giorno appare come un arco che si discosta leggermente, per geometria, sia da quello del giorno precedente, sia da quello che del giorno seguente. Ogni giorno dell'anno, tra l'alba e il tramonto, si ripete quasi esattamente.

In realtà, la durata del giorno non coincide perfettamente con la durata della luce naturale.

Infatti prima dell'alba e dopo il tramonto ci sono intervalli di tempo (denominati rispettivamente crepuscolo mattutino e crepuscolo serale o serotino) durante i quali giunge a terra una luce diffusa naturale fornita dai livelli atmosferici superiori, che ricevono luce solare diretta per un tempo più lungo e ne riflettono una quota verso la sottostante terra.

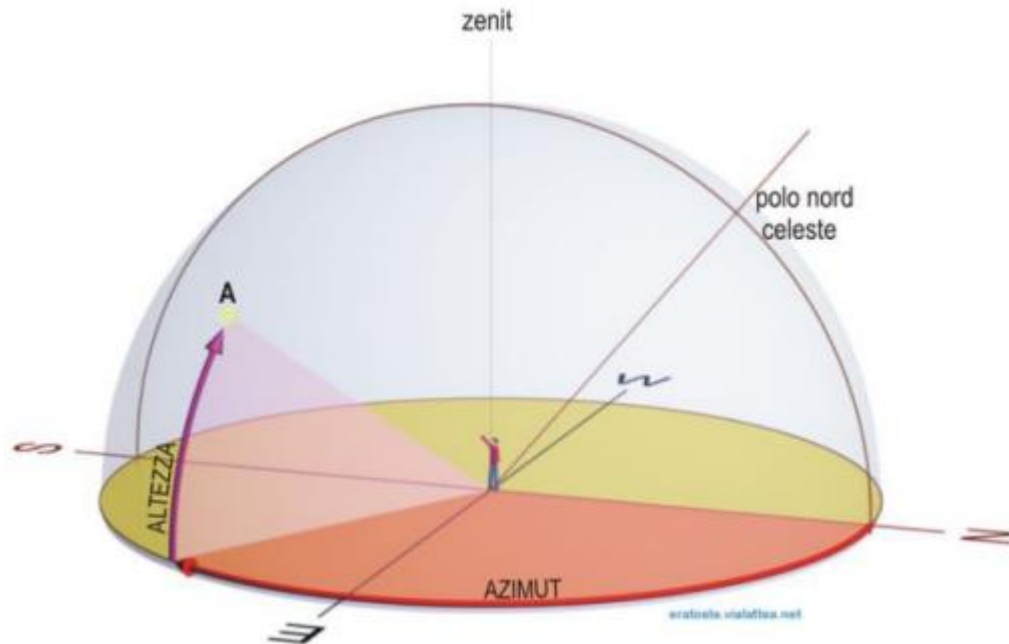


Figura 4 - Altezza e dell'azimut.


Le torri eoliche, essendo strutture fortemente sviluppate in altezza, proiettano ombre sulle aree adiacenti in presenza della luce solare diretta.

Rispetto alle altre strutture sviluppate in altezza (edifici, tralicci della alta tensione, pali della illuminazione, ecc), le turbine eoliche presentano un problema extra, ovvero, oltre alla proiezione dell'ombra sul terreno e/o su strutture esistenti, un impianto eolico può proiettare anche l'ombra in movimento dovuto alla rotazione delle pale.

Le ombre in movimento (periodico a intermittenza), se vissuto dal recettore per periodi di tempo non trascurabile, possono creare disturbo e, in casi rari, danni alla salute.

Questo accade quando vi sono le seguenti condizioni:

- si è in presenza di un livello sufficiente di intensità luminosa, ossia in condizioni di cielo sereno, sgombro da nubi ed in assenza di nebbia e con sole alto rispetto all'orizzonte; questo accade, in riferimento alla latitudine di progetto, in un'altezza del sole pari ad almeno 15-20°;
- le pale sono in movimento;
- la turbina e il recettore sono vicini: le ombre proiettate in prossimità dell'aerogeneratore risultano di maggiore intensità e nitidezza rispetto a quelle proiettate lontano; con l'aumentare della distanza tra turbina e recettore, le pale coprono una porzione sempre più piccola del sole, inducendo un

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 15 di 49</p>
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fastidio di minore entità; inoltre il fenomeno risulta di trascurabile entità quando l'ombra proiettata sul recettore è indotta dall'estremità delle pale (rotor tip); raggiunge il massimo dell'intensità in corrispondenza dell'attacco di pala all'hub;

- la linea recettore-aerogeneratore non incontra ostacoli; in presenza di vegetazione o edifici interposti l'ombra generata da quest'ultimi ridimensiona o annulla il fenomeno.

I più recenti aerogeneratori tripala operano ad una velocità di rotazione inferiore ai 35 giri al minuto, corrispondente ad una frequenza di passaggio delle pale sulla verticale inferiore a 1,75 Hz, minore, quindi, della frequenza critica di 2,5 Hz.

Inoltre, i generatori di grande potenza (dai 2 MW in su) raramente superano la velocità di rotazione di 20 giri al minuto, nel caso in oggetto addirittura ci si ferma a circa 9,22 giri al minuto, corrispondente a frequenze di passaggio delle pale ampiamente minori di quelle ritenute fastidiose per la maggioranza degli individui.

Studi condotti sui possibili effetti dello shadow flickering sulla salute umana raccomandano, al fine di ridurre al minimo i fastidi, una velocità di flickering non superiore a 3 tagli al secondo (Harding, 4 Aprile 2008). Nel caso di aerogeneratori tripala, tale frequenza si traduce in una velocità massima di rotazione del rotore di 60 rpm (rotazioni per minuto).


Le relazioni spaziali tra un aerogeneratore ed un ricettore (abitazione), così come la direzione del vento risultano essere fattori chiave per la durata del fenomeno di shadow flickering.

Con i moderni aerogeneratori di grandi dimensioni per distanze superiori ai 500 m, il fenomeno in esame potrebbe verificarsi all'alba, oppure al tramonto, ovvero in quelle ore in cui le ombre risultano molto lunghe per effetto della piccola elevazione solare.

Al di là di una certa distanza, comunque, l'ombra smette di essere un problema perché il rapporto tra lo spessore della pala ed il diametro del sole diventa molto piccolo.

Quindi, come è facile immaginare, la condizione più penalizzante corrisponde al caso in cui il piano del rotore risulta ortogonale alla congiungente ricettore-sole; infatti, in tali condizioni, l'ombra proiettata darà origine ad un cerchio di diametro pari al rotore del generatore eolico.

In generale, l'area soggetta a shadow flickering non si estende oltre i 500÷1.000 m dall'aerogeneratore e le zone a maggiore impatto ricadono entro i 300 m di distanza dalle macchine con durata del fenomeno dell'ordine delle 300 ore all'anno.

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 16 di 49</p>
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L'intensità del fenomeno è definita come la differenza di luminosità che si percepisce in presenza ed in assenza di flickering in una data posizione. In generale, si può affermare che:

- avendo le pale una forma rastremata con lo spessore che cresce verso il mozzo, il fenomeno risulterà tanto più intenso quanto maggiore sarà la porzione di disco solare coperta dalla pala stessa e quanto minore la distanza dal ricettore;
- l'intensità del flickering sarà minima quando l'ombra prodotta è generata all'estremità delle pale;
- maggiori distanze tra generatore e ricettore determinano ombre meno nette; in tal caso l'effetto flickering risulterà meno intenso e distinto.

Se ci riferissimo all'Europa, ad oggi, solo la Germania ha emesso dettagliate linee guida contenenti limiti e condizioni per il calcolo dell'impatto derivante dallo Shadow Flickering.


Le linee guida Tedesche fissano i parametri per il calcolo dell'ombreggiamento, come di seguito riportati:

- ✓ L'angolo minimo del sole rispetto all'orizzonte da cui calcolare l'ombreggiamento deve essere pari a 3°;
- ✓ La percentuale di copertura del sole dalla pala deve essere almeno del 20%.

Inoltre vengono definiti, anche i valori limite espressi in ore/anno di ombreggiamento presso un recettore prossimo ad una centrale eolica:

- ✓ Massimo 30 ore/annue di massima ombra astronomica (caso peggiore);
- ✓ Massimo 30 min/giorno di massima ombra astronomica (caso peggiore);
- ✓ Se si utilizza una regolazione automatica sono previste come impatto d'ombra massimo 8 ore/annue.

Nell'analisi del fenomeno è utile evidenziare che le ore nelle quali la gente dorme (4:50 a.m. – 7:00 a.m.) potrebbero essere eliminate dal calcolo e nel periodo autunno-invernale (novembre-febbraio) la nuvolosità riduce sensibilmente le ore di fenomeno. Questi due aspetti non sono, però, stati considerati nei seguenti calcoli in quanto si è adottato un approccio cautelativo considerando il massimo fenomeno di ombreggiamento prodotto dagli aerogeneratori in progetto, con la consapevolezza che tali ore di ombra per i ricettori saranno sicuramente nettamente inferiori nell'effettivo.

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 17 di 49</p>
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5. IL CASO DI STUDIO

Il sito oggetto dello studio è situato in provincia di Perugia (PG), nel Comune di Foligno.

L'area interessata dal progetto ricade nel territorio comunale di Foligno, in provincia di Perugia e si estende dal confine comunale a Nord-Ovest sino all'area centro settentrionale dell'area comunale, ad est dell'abitato di Foligno.

Per quanto riguarda gli aerogeneratori, l'aerogeneratore FO10 si posiziona in località Loggio Lié ad una quota di circa 983 m s.l.m., le macchine FO07, FO08 e FO09 nei dintorni del Monte Burano a quote tra 1022 e 1105 m ed esposizione N-O, gli aerogeneratori FO02, FO03, FO04, FO05 e FO06 sono poste in località "Monte Burano", ad altezze, rispettivamente, di 896, 955, 972, 1002 e 996 m circa sul livello del mare. Infine, la FO01 ad un'altitudine di 944 m in località Seggio.

Tutti i terreni su cui saranno installati gli aerogeneratori e realizzate le infrastrutture necessarie, risultano di proprietà privata e corrispondono a terreni ad uso prevalentemente agricolo e pascolivo.

Gli aerogeneratori FO08, FO09 e FO10, invece, ricadono su terreni unicamente ad uso pascolo.

Entrambe le cabine di raccolta e smistamento occupano una frazione di superficie su particelle censite al catasto come frazionate in "Seminativo", "Pascolo arboreo" e "Pascolo".

Infine, la sottostazione elettrica lato utente è su una particella con qualità a seminativo e uliveto, ma non avrà nessun'interferenza con l'uliveto attualmente presente, come ben visibile da sopralluoghi e da ortofoto.

Si specifica che il parco eolico sarà collegato, attraverso il tracciato del cavidotto con la sottostazione utente che verrà realizzata nello stesso territorio comunale di Foligno (PG) prevalentemente lungo strade esistenti, sino alla sottostazione lato utente in località Mad.na Bruciata, ad Est della SS3-Strada Statale Flaminia.

Per effettuare una localizzazione univoca dei terreni sui quali insiste il parco eolico, di seguito si riportano le cartografie riguardanti:

- sovrapposizione del parco eolico su ortofoto (figura 5);
- sovrapposizione del parco eolico su catastale (figura 6);
- sovrapposizione del parco eolico su CTR (figura 7);
- sovrapposizione del parco eolico su IGM (figura 8).

RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA
INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW
FLICKERING)

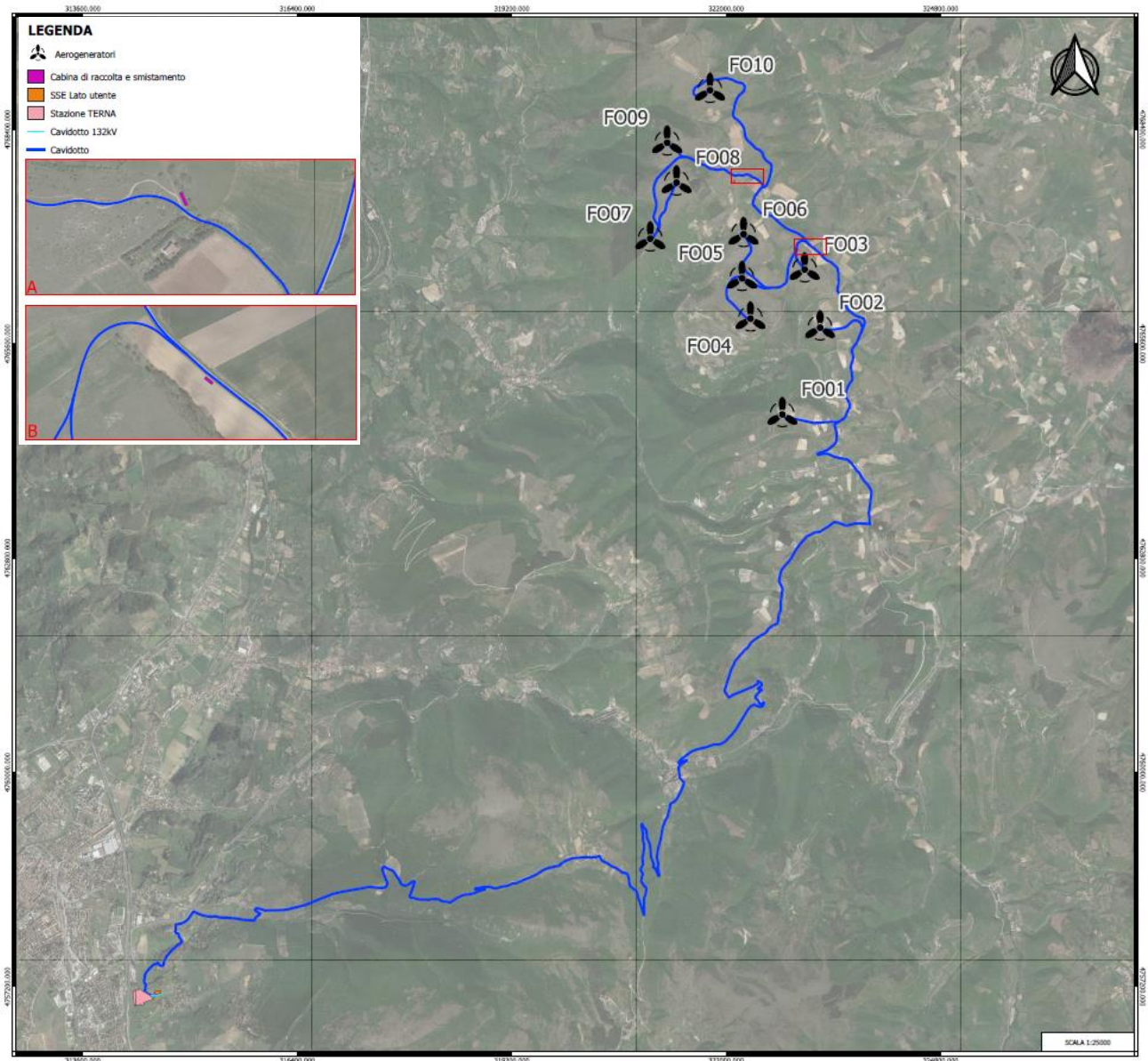


Figura 5 - Inquadratura area parco eolico su base ortofoto

RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA
INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW
FLICKERING)

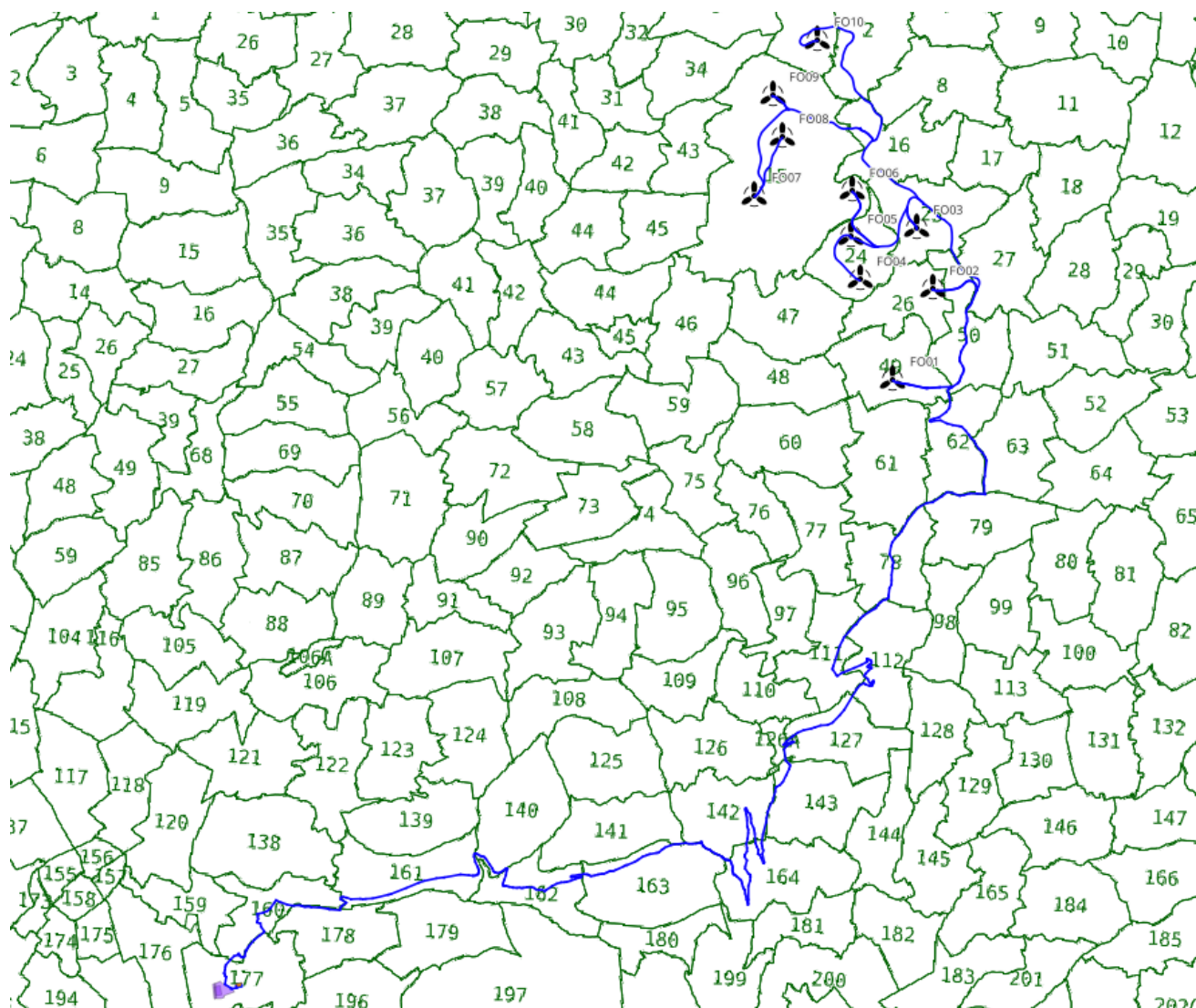


Figura 6 - Inquadramento area parco eolico su catastale

RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA
INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW
FLICKERING)

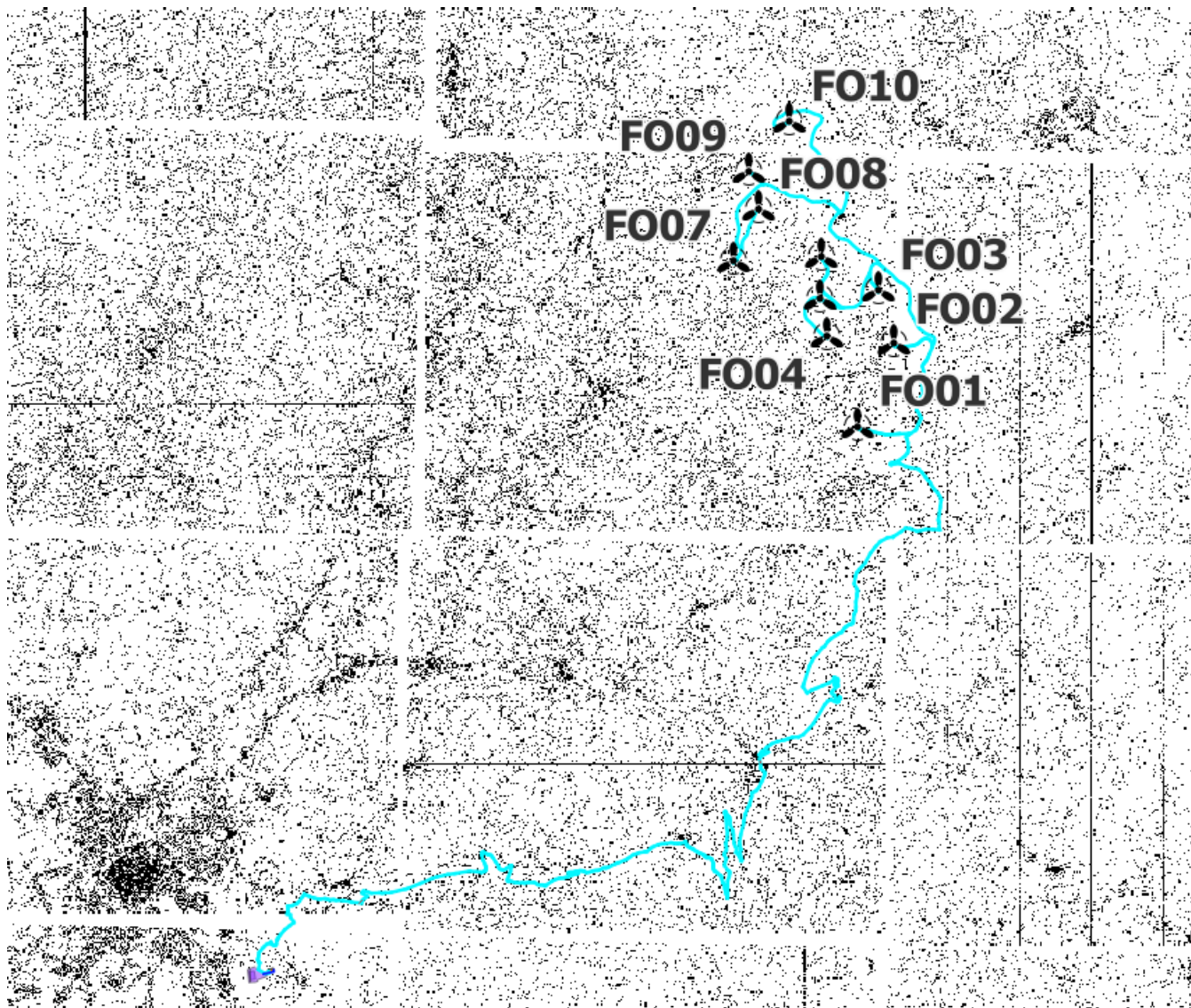


Figura 7 - Inquadramento area parco e sottostazione su CTR

**RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA
INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW
FLICKERING)**

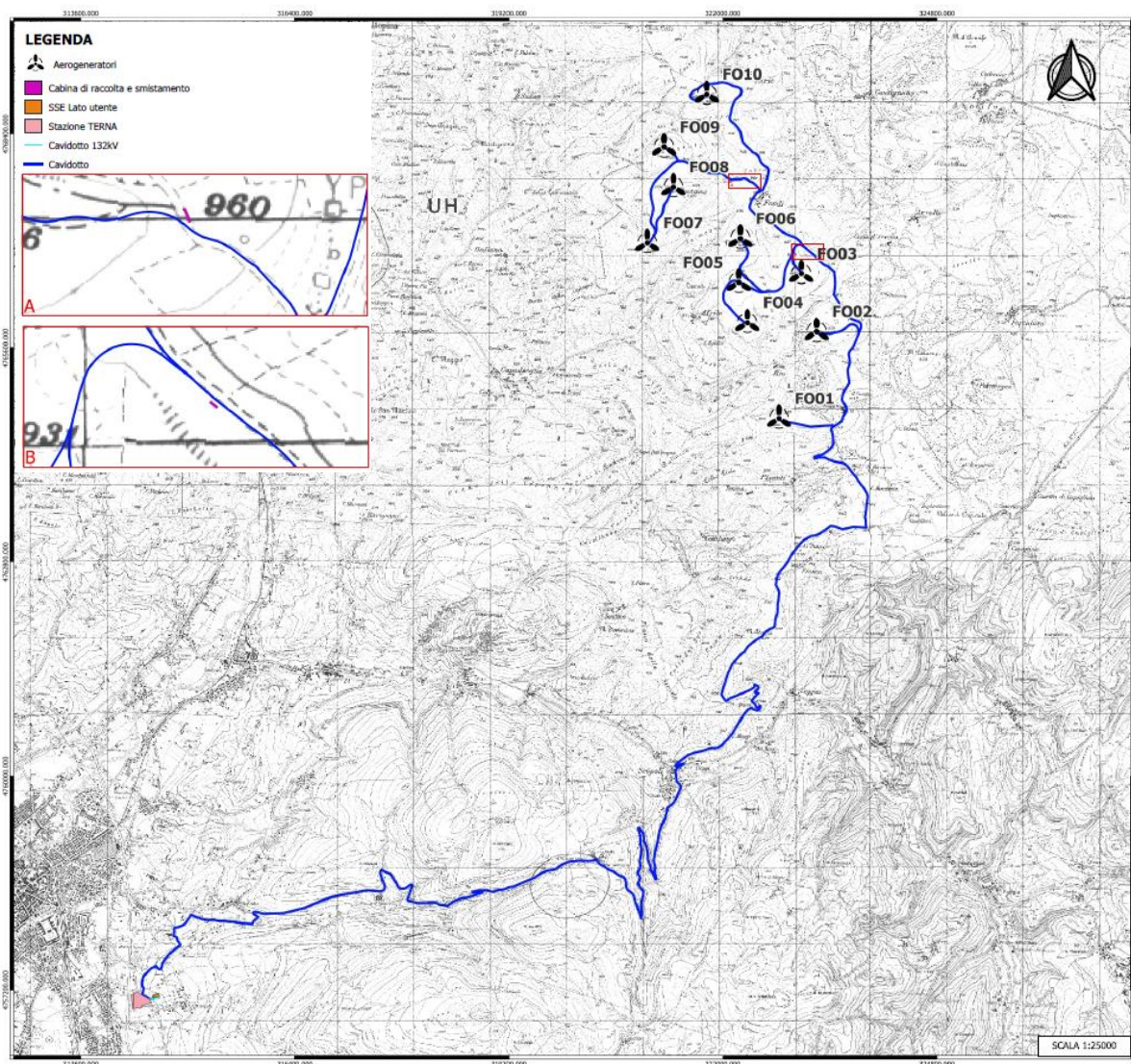



Figura 8 - Inquadramento area parco e sottostazione su IGM

Il parco eolico per la produzione di energia elettrica oggetto di studio avrà le seguenti caratteristiche:

- potenza installata totale: 72 MW;
- potenza della singola turbina: 7,2 MW;
- n. 10 turbine;
- n. 2 cabina di raccolta e smistamento;
- n.1 SSE lato utente di trasformazione;
- n.1 Nuova Stazione elettrica di smistamento della RTN;

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 22 di 49</p>
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5.1 Configurazione d'impianto

L'aerogeneratore previsto per la realizzazione del parco eolico è una turbina da 7,2 MW.

Nella tabella che segue sono sintetizzate le principali caratteristiche dell'aerogeneratore previsto nel parco eolico.

Tipo di Aerogeneratore	Altezza al mozzo (m)	Diametro rotore (m)	Potenza nominale (kW)
Aerogeneratore da 7,2 MW	115 m	170 m	7200

Tabella 2 - Caratteristiche principali dell'aerogeneratore previsto nel parco eolico.

L'effetto di shadow flickering è ovviamente tanto più importante quanto più grande è il diametro del rotore della turbina.

La disposizione prevista per le 10 turbine oggetto di studio è riportata nella tabella sottostante in coordinate Geo [deg]-WGS84.


	Longitude	Latitude
FO 01	12.824707° E	43.013941° N
FO 02	12.830393° E	43.024258° N
FO 03	12.827684° E	43.031041° N
FO 04	12.819216° E	43.025094° N
FO 05	12.817685° E	43.029827° N
FO 06	12.817755° E	43.034997° N
FO 07	12.802831° E	43.034196° N
FO 08	12.806802° E	43.040859° N
FO 09	12.805131° E	43.045529° N
FO 10	12.811778° E	43.051846° N

Tabella 3 - Coordinate degli aerogeneratori oggetto di studio

5.2 Individuazione ed analisi dei ricettori

Dal punto di vista di un recettore lo shadow flickering si manifesta in una variazione ciclica dell'intensità luminosa: in presenza di luce solare diretta, un recettore localizzato nella zona d'ombra indotta dal rotore, sarà investito da un continuo alternarsi di luce diretta ed ombra, causato dalla proiezione delle ombre dalle pale in movimento.


Tale fenomeno se vissuto dal recettore per periodi di tempo non trascurabili può generare un disturbo, quando:

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 23 di 49</p>
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- Si sia in presenza di un livello sufficiente di intensità luminosa, ossia in condizioni di cielo sereno sgombro da nubi ed in assenza di nebbia e con sole alto rispetto all'orizzonte;
- La linea recettore-aerogeneratore non incontri ostacoli: in presenza di vegetazione o edifici interposti l'ombra generata da questi ultimi annulla il fenomeno. Pertanto, ad esempio, qualora il recettore sia una abitazione, perché si generi lo shadow flickering le finestre dovrebbero essere orientate perpendicolarmente alla linea recettore - aerogeneratore e non affacciarsi su ostacoli;
- La turbina sta orientata in modo che il rotore risulti perpendicolare alla linea sole - ricettore: come mostrato nelle figure seguenti, quando il piano del rotore è perpendicolare alla linea sole-recettore, l'ombra proiettata dalle pale risulta muoversi all'interno di un "cerchio" che riferisce alla circonferenza del rotore inducendo uno shadow flickering non trascurabile; per situazioni in cui, dal punto di vista del recettore, il piano del rotore risulti essere in linea con il sole ed il recettore, l'ombra proiettata è sottile, di bassa intensità ed è caratterizzata da un rapido movimento, risultando pertanto lo shadow flickering di entità trascurabile;
- La posizione del sole sia tale da indurre una luminosità sufficiente. Ciò si traduce, in riferimento alla latitudine di progetto, in un'altezza del sole pari ad almeno 15-20°;
- Le pale sono in movimento;
- Turbina e ricettore siano vicini: le ombre proiettate in prossimità dell'aerogeneratore risultano di maggiore intensità e nitidezza rispetto a quelle proiettate lontano. Quando una turbina è posizionata sufficientemente vicino al ricettore, così che una porzione ampia di pala copra il sole, l'intensità del flicker risulta maggiore. All'aumentare della distanza tra turbina e recettore, le pale coprono una porzione sempre più piccola del sole, inducendo un flicker di minore entità. Inoltre, il fenomeno risulta di bassa entità quando l'ombra proiettata sul recettore è indotta dall'estremità delle pale; raggiunge il massimo dell'intensità in corrispondenza dell'attacco di pala all'hub.

Rilevamenti sul campo hanno evidenziato che per distanze tra aerogeneratore di altezza paragonabile a quella delle macchine di progetto) e recettori superiori a 375 m il fenomeno è da rilevarsi solamente all'alba e al tramonto, momenti in cui la radiazione diretta è di minore intensità.

Ai fini della previsione degli impatti indotti sulle abitazioni e sugli edifici lavorativi dall'impianto eolico in progetto, sono stati censiti i ricettori presenti nel raggio di 1 km dagli aerogeneratori; distanza oltre la quale si può ipotizzare essere nullo il fenomeno di shadow flickering.

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 24 di 49</p>
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I ricettori sono stati individuati calcolando l'involuppo delle circonferenze di raggio pari a 1 km con centro geometrico corrispondente alle coordinate geografiche delle turbine, precedentemente indicate. L'analisi di shadow flickering di cui al presente studio è stata elaborata per specifici n. 81 recettori selezionati sul territorio e corrispondenti a costruzioni ubicate nell'intorno dell'impianto (edifici di Categoria A).

Sebbene il fenomeno dello shadow flickering possa essere percepito anche all'esterno delle costruzioni, esso risulta più evidente e fastidioso all'interno di ambienti chiusi che presentano aperture e/o finestrate orientate proprio sul prolungamento della direttrice sole-turbina, mentre risulta meno impattante (o addirittura nullo) per quegli ambienti con aperture e/o finestrate il cui orientamento si discosta dal prolungamento della direttrice sole-turbina.

Conseguentemente, una corretta valutazione del fenomeno del flickering non può prescindere dall'esatto orientamento delle finestrate. Nella tabella a seguire sono riportati i riferimenti geografici (coordinate Geo [deg]-WGS84) di tutti i recettori oggetto di analisi e simulazione con la relativa indicazione catastale e descrizione d'uso.

RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA
INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW
FLICKERING)

Shadow receptor-Input

No.	Longitude	Latitude
X	12.818610° E	43.038852° N
Y	12.818744° E	43.038892° N
Z	12.818788° E	43.039050° N
AA	12.818745° E	43.039195° N
AB	12.818970° E	43.039143° N
AC	12.821046° E	43.040665° N
AD	12.821268° E	43.040459° N
AE	12.821518° E	43.040427° N
AF	12.821378° E	43.040338° N
AG	12.820934° E	43.040394° N
AH	12.821037° E	43.040331° N
AI	12.821178° E	43.040139° N
AJ	12.820927° E	43.040107° N
AK	12.820990° E	43.040003° N
AL	12.820324° E	43.039895° N
AM	12.820122° E	43.039773° N
AN	12.820296° E	43.039635° N
AO	12.820229° E	43.039498° N
AP	12.820322° E	43.039475° N
AQ	12.820395° E	43.039322° N
AR	12.820302° E	43.039203° N
AS	12.839919° E	43.036577° N
AT	12.841365° E	43.034937° N
AU	12.841457° E	43.034964° N
AV	12.841616° E	43.034991° N
AW	12.841419° E	43.034846° N
AX	12.841501° E	43.034656° N
AY	12.841568° E	43.034676° N
AZ	12.841934° E	43.033837° N
BA	12.837477° E	43.025831° N
BB	12.839010° E	43.026508° N
BC	12.839389° E	43.026503° N
BD	12.839358° E	43.026410° N
BE	12.838967° E	43.022692° N
BF	12.839482° E	43.022633° N
BG	12.831089° E	43.012207° N
BH	12.832184° E	43.013617° N
BI	12.835190° E	43.014272° N
BJ	12.835285° E	43.014200° N
BK	12.835379° E	43.014165° N
BL	12.835491° E	43.014087° N
BM	12.835597° E	43.014181° N
BN	12.835494° E	43.014229° N
BO	12.835408° E	43.014295° N
BP	12.834827° E	43.015019° N
BQ	12.834777° E	43.014993° N
BR	12.834975° E	43.014892° N
BS	12.835070° E	43.014801° N
BT	12.835118° E	43.015123° N
BU	12.835242° E	43.015175° N
BV	12.835021° E	43.015257° N
BW	12.835310° E	43.015398° N
BX	12.835013° E	43.015473° N
BY	12.835162° E	43.015556° N
BZ	12.835100° E	43.015635° N
CA	12.835268° E	43.015645° N
CB	12.836008° E	43.015906° N
CC	12.811953° E	43.016082° N
A	12.818371° E	43.054500° N
B	12.818153° E	43.054489° N
C	12.818565° E	43.054142° N
D	12.818183° E	43.054586° N
E	12.810082° E	43.025186° N
F	12.810210° E	43.025229° N
G	12.809477° E	43.025255° N
H	12.809419° E	43.025371° N
I	12.809350° E	43.025398° N
J	12.809320° E	43.025428° N
K	12.810246° E	43.025773° N
L	12.810535° E	43.025815° N
M	12.810620° E	43.025894° N
N	12.810672° E	43.025728° N
O	12.810444° E	43.025656° N
P	12.810617° E	43.025635° N
Q	12.810914° E	43.025668° N
R	12.811278° E	43.025632° N
S	12.811895° E	43.025199° N
T	12.812056° E	43.025153° N
U	12.812211° E	43.025418° N
V	12.812808° E	43.025198° N
W	12.818410° E	43.038818° N

Tabella 4 - Coordinate delle strutture considerate come ricettori sensibili

Con riferimento all'analisi in esame, in via cautelativa, si considereranno per tutti i ricettori le finestrate orientate proprio sul prolungamento della direttrice sole-turbina.

Nella figura successiva vengono mostrati i suddetti ricettori su ortofoto assieme alle turbine oggetto dello studio.

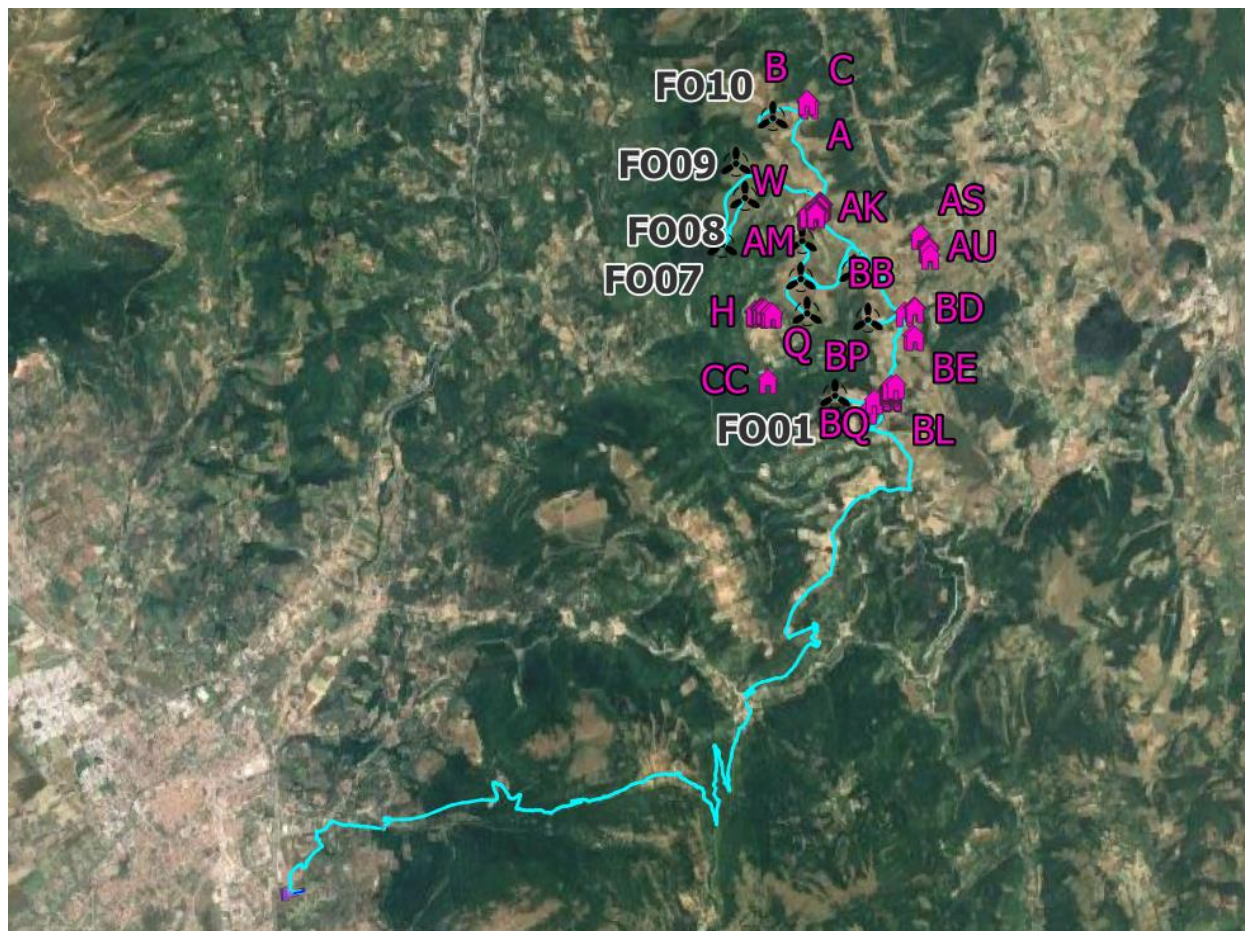



Figura 9 - Localizzazione geografica dei ricettori rispetto alle turbine

In generale, l'area soggetta a shadow flicker non si estende oltre i 500-1000 m dall'aerogeneratore e le zone a maggiore impatto ricadono entro i 300 m di distanza dalle macchine.

Lo "shadow flickering" è ritenuto "pericoloso" in quanto dimostrato che l'effetto visivo, dovuto alla intermittenza dell'ombra creata dal moto delle pale in rotazione, sia causa di possibili danni alla salute umana. Si ritiene più precisamente che il fenomeno sia strettamente connesso con i problemi di epilessia.

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 27 di 49</p>
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6. MODELLO DI CALCOLO E SOFTWARE UTILIZZATO

L'analisi dell'impatto da shadow flickering prodotto da un campo eolico è realizzata, generalmente, attraverso l'impiego di specifici applicativi che modellano il fenomeno in esame.

I pacchetti software impiegati per la progettazione di impianti eolici contengono moduli specifici per il calcolo e l'analisi del fenomeno di flickering.

L'analisi si basa sull'impiego di un modello digitale del terreno dell'area oggetto di progettazione, sulle posizioni (E, N, quota) degli aerogeneratori e dei recettori sensibili, nonché sui dati che correlano la posizione del sole nell'arco dell'anno con le condizioni operative delle turbine nello stesso arco di tempo.

Al fine di calcolare la posizione relativa del sole nell'arco di un anno rispetto al parco eolico ed ai ricettori è necessario definire la longitudine, la latitudine ed il fuso orario dell'area interessata dal progetto.

Nello specifico è stato impiegato il modulo shadow flickering del software WindPRO.

Esso consente di analizzare la posizione del sole nell'arco di un anno per identificare i tempi in cui ogni turbina può proiettare ombre sulle finestre delle abitazioni vicine.

In particolare, il modello permette di:


- calcolare il potenziale per le ombre intermittenti alle finestre delle abitazioni;
- mostrare un calendario grafico ("Calendar Graphical") degli eventi di flickering;
- mostrare un elenco dettagliato ("Calendar Time") di ciascun evento di ombreggiamento (ora di inizio, di fine, durata del fenomeno, aerogeneratore/i coinvolti, etc.);
- creare mappe di impatto potenziale che mostrano le ore d'ombra intermittente per l'intero parco eolico o per le singole macchine (curve di isodurata) nell'arco dell'anno.

6.1 Calcolo dello shadow flickering nel WORST CASE

I calcoli effettuati per l'ombreggiamento rappresentano un approccio molto conservativo e di conseguenza peggiorativo, per questo denominato "worst case", in cui la situazione reale risulterà ben al di sotto dei risultati ottenuti.

Per l'esecuzione della valutazione tecnica il software ha utilizzato una serie di dati di input caratterizzanti quali:

- ✓ l'altimetria della zona simulata;

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 28 di 49</p>
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- ✓ la latitudine e longitudine dell'area interessata;
- ✓ la disposizione geografica delle turbine e dimensione geometrica dei loro componenti (torre e pale);
- ✓ la disposizione geografica dei “ricettori sensibili” (fabbricati e relative finestre);
- ✓ l'orientamento del rotore rispetto al ricettore;
- ✓ la proiezione dell'ombra rispetto ai ricettori.

Sulla base di questi dati il software calcola il numero di ore annue di esposizione allo shadow flickering per ciascun nodo del grigliato che copre l'intera area, nonché il numero di ore di esposizione per gli ambienti abitativi attraverso le finestre.

Per l'esecuzione della simulazione sono stati fissati i seguenti parametri:

- coordinate geografiche delle turbine considerate (vedi Tabella 3)
- coordinate geografiche dei recettori considerati (vedi Tabella 4)
- coordinate geografiche baricentriche (Map center Geo WGS84): : 12.817759° E, 43.033436° N
- disposizione orizzontale delle finestrate
- estensione area simulata: 10 km x 10 km (100 km²)
- angolo minimo del Sole sull'orizzonte: 3°
- raggio d'influenza massimo: 1 km dal punto di installazione dell'aerogeneratore;
- anno di riferimento: 2023
- altezza del punto di vista dell'osservatore rispetto la mappa: 1,7 m
- altezza del punto di vista (ZVI) rispetto la superficie del suolo: 2,0 m
- parametri turbina:
 - ✓ diametro rotore: 170 m
 - ✓ altezza torre al mozzo: 115 m
 - ✓ altezza complessiva dell'aerogeneratore: 200 m

Per il calcolo dell'orizzonte di ciascun ricettore il modello numerico utilizzato tiene conto dell'ostacolo naturale costituito dall'orografia circostante il ricettore e da eventuali ostacoli imputati specificatamente (ad es. boschi, barriere naturali o artificiali, etc).

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 29 di 49</p>
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In definitiva è bene evidenziare che, a vantaggio di sicurezza, le simulazioni effettuate sono state eseguite ipotizzando contemporaneamente le seguenti condizioni sfavorevoli per qualunque ricettore soggetto a shadow flickering:

- rotore in movimento alla massima frequenza ed in moto continuo;
- assenza di ostacoli;
- orientamento del rotore ortogonale alla congiungente ricettore-sole.

Come già sottolineato, al di là di una certa distanza l'ombra smette di essere un problema perché il rapporto tra lo spessore della pala e il diametro del sole diventa piccolo.

Poiché non vi è un valore generalmente accettato per questa distanza massima, il software permette di specificare il limite in metri o multipli del diametro della turbina o dell'altezza della pala stessa.

Quindi, come è facile immaginare, la condizione più penalizzante corrisponde al caso in cui il piano del rotore risulta ortogonale alla congiungente ricettore – sole; infatti, in tali condizioni, l'ombra proiettata darà origine ad un cerchio di diametro pari al rotore del generatore eolico.

Sebbene il fenomeno possa essere percepito anche all'esterno, esso risulta evidente e fastidioso in quegli ambienti con finestrate rivolte verso le ombre.

6.2 Risultati

Il modello numerico utilizzato, al pari di altri presenti sul mercato, produce in output una mappa dell'impatto dell'ombra sul terreno, nel caso più penalizzante denominato "worst case", corrispondente alle ore in cui il sole permane al di sopra dell'orizzonte nell'arco dell'anno (**circa 4380h/a di luce**), indipendentemente dalla presenza o meno di nubi, le quali inficerebbero il fenomeno stesso di shadow flickering per impossibilità che si generi il fenomeno di flickering, oltre agli input specificati precedentemente, che rendono il caso in oggetto nettamente peggiorativo, ma soprattutto considerano le turbine sempre in movimento ed alla massima rotazione del rotore.

I risultati dettagliati dell'analisi effettuata sono riportati nei diversi allegati al presente lavoro.

Nell'immagine che segue, si riporta in opportuna scala cromatica il valore massimo di ombreggiamento annuo su superficie orizzontale prodotta dalle opere in progetto nelle condizioni sfavorevoli sopra elencate.

RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)

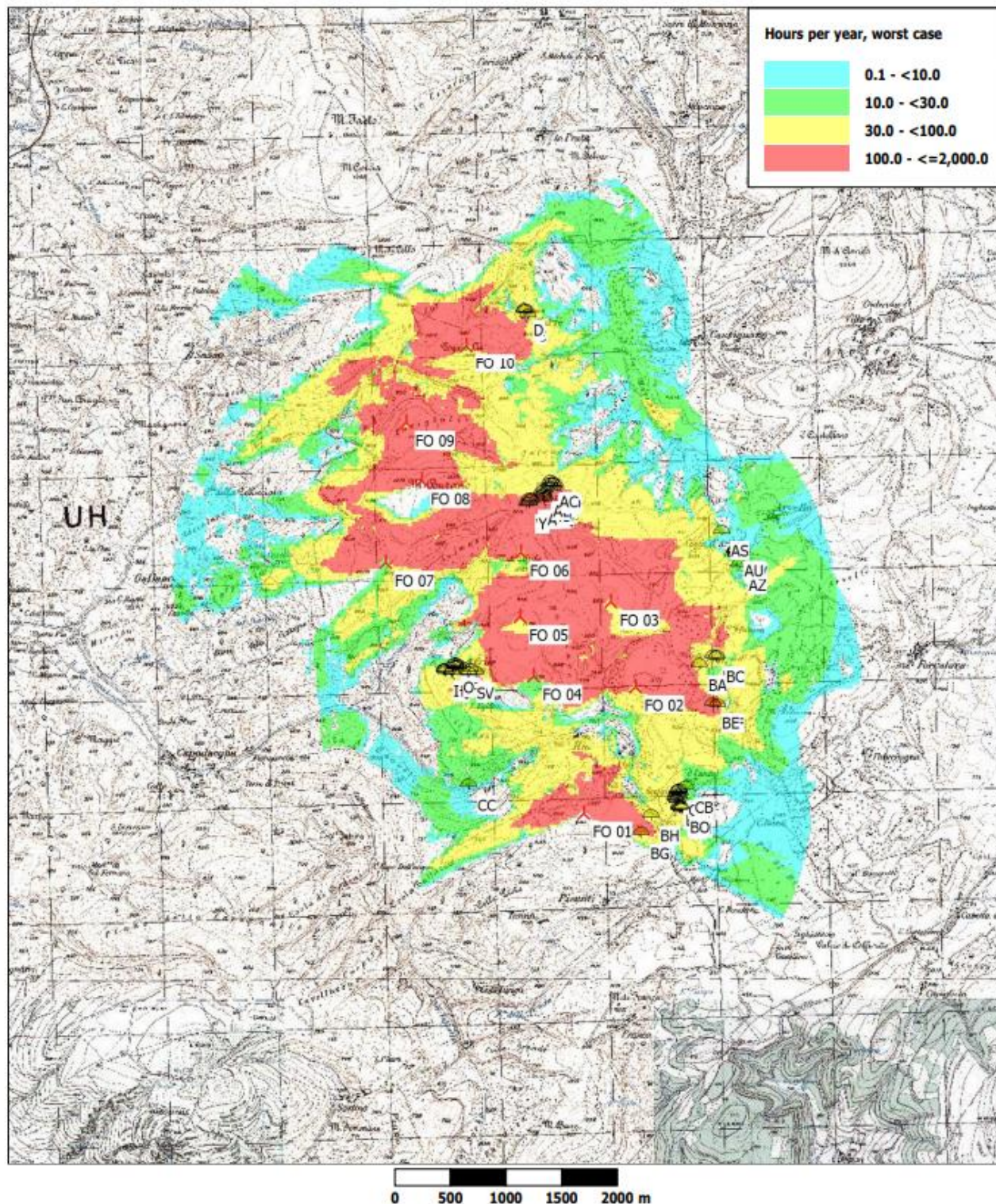


Figura 10 - Rappresentazione grafica dell'ombreggiamento delle turbine rispetto i ricettori

RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA
INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW
FLICKERING)


Inoltre, per ogni ricettore vengono rappresentati graficamente, negli appositi diagrammi riportati nell'ALLEGATO 2 al termine alla presente relazione, gli intervalli di ombreggiamento durante le varie ore dell'anno (il cosiddetto "Calendar Graph"), dove le curve indicano l'ora dell'alba e del tramonto e le macchie colorate indicano il periodo in cui è possibile il verificarsi del fenomeno. Sull'asse delle ascisse sono riportati i giorni dell'anno e sull'asse delle ordinate l'ora del giorno (ora solare).

Nell'ALLEGATO 3 viene riportato per ciascun ricettore la lista giornaliera dei singoli eventi di shadow flickering indotti da ogni turbina (il cosiddetto "Calendar Time"): per ciascun evento viene specificata l'ora solare di inizio, l'ora solare di fine, la durata complessiva e la copertura (temporale) percentuale del fenomeno dello shadow flickering al netto di eventuali ostacoli (orografici e/o di altro tipo).

Di seguito, vengono presentati sinteticamente in forma tabellare i risultati complessivi della simulazione per i recettori analizzati.

Shadow receptor		
Shadow, worst case		
No.	Shadow hours per year [h/year]	
A	90:42	AC 31:46
B	92:17	AD 44:02
C	92:24	AE 49:40
D	91:20	AF 51:36
E	26:59	AG 41:58
F	27:38	AH 46:15
G	30:12	AI 58:25
H	31:20	AJ 56:10
I	31:35	AK 63:38
J	32:03	AL 64:56
K	40:40	AM 73:23
L	43:21	AN 83:18
M	44:12	AO 93:01
N	43:40	AP 95:29
O	40:40	AQ 108:25
P	41:32	AR 117:17
Q	44:47	AS 27:40
R	47:11	AT 0:00
S	38:09	AU 0:00
T	37:33	AV 0:00
U	49:31	AW 0:00
V	44:42	AX 0:00
W	157:06	AY 0:00
X	150:24	AZ 18:33
Y	146:27	BA 77:59
Z	130:41	BB 54:49
AA	116:30	BC 46:11
AB	122:26	BD 48:57
		BE 28:13
		BF 28:32
		BG 0:00
		BH 16:20
		BI 26:24
		BJ 24:01
		BK 22:36
		BL 20:17
		BM 22:10
		BN 23:47
		BO 25:52
		BP 35:30
		BQ 35:50
		BR 34:44
		BS 34:21
		BT 33:27
		BU 32:38
		BV 33:54
		BW 31:54
		BX 33:39
		BY 32:42
		BZ 32:45
		CA 31:55
		CB 27:54
		CC 9:35

Tabella 5 - Risultati riepilogativi complessivi del calcolo del fenomeno di shadow flickering per ciascun ricettore nel WORST CASE

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 32 di 49</p>
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7. ANALISI DEI RISULTATI PER SINGOLO RICETTORE (WORST CASE)

Dalla Tabella 5 si evince che 13 dei 29 ricettori sono interessati dal fenomeno di shadow flickering in quanto tutti caratterizzati da valori non nulli delle ore/anno di shadow.

Di seguito si descrive l'analisi dei risultati ottenuti per ogni singolo ricettore.

Dall'analisi del "Calendar Graph" e del "Calendar Time" nell'ALLEGATO 2 e 3, a cui si rimanda per maggiori dettagli, risulta che:

- il fenomeno dello shadow flickering per il ricettore **AT, AU, AV, AW, AX, AY e BG** in "WORST CASE" non si viene a verificare nel corso di tutto l'arco dell'anno.
- il fenomeno dello shadow flickering per i restanti ricettori in "WORST CASE" si può verificare nel corso di diversi periodi durante l'anno e generalmente si concentra:
 - ✓ Periodo Marzo-Aprile e Settembre-Ottobre;
 - ✓ Periodo Novembre-Gennaio e Febbraio;


8. ANALISI DEI RISULTATI PER SINGOLO AEROGENERATORE (WORST CASE)

Vengono analizzati nel presente paragrafo i risultati del calcolo del fenomeno di shadow flickering per singola turbina.

Tutte le turbine proposte causano il fenomeno di shadow flickering su 74 dei 81 ricettori selezionati ed analizzati nel presente lavoro.

No.	Name	Worst case [h/year]
FO 01	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (1)	119:30
FO 02	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (2)	74:29
FO 03	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (7)	40:49
FO 04	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (10)	94:25
FO 05	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (9)	6:26
FO 06	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (8)	239:40
FO 07	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (4)	25:47
FO 08	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (6)	5:44
FO 09	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (5)	38:13
FO 10	Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (3)	92:42

Tabella 6 - Tabella riepilogativa dei dati di Shadow per ogni aerogeneratore

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 <i>Pag. 33 di 49</i></p>
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Nelle Tabelle e nei grafici presenti nell'ALLEGATO 1 presente al termine del presente elaborato sono mostrati i risultati dettagliati per singola turbina nel WORST CASE.

9. “REAL CASE”

I diagrammi dell'ALLEGATO 2 e le liste dell'ALLEGATO 3, posti in coda alla relazione sono rappresentativi di condizioni di shadow flickering che nella realtà non hanno alcuna possibilità di verificarsi.

In particolare, nei documenti citati, viene riportato il valore massimo di ore /anno di ombreggiamento su superficie orizzontale in ciascun punto nell'intorno delle opere in progetto.

Tale valore massimo di ombreggiamento rappresenta pertanto il numero di ore di fenomeno di shadow flickering che non ha alcuna probabilità di essere superato nel corso di un anno.

Dal punto di vista matematico, tale valore prende il nome di P0 ovvero sia quel numero di ore di fenomeno di shadow flickering che ha una probabilità dello zero per cento di essere superato nel corso di un anno.

Estendendo per analogia il concetto, ci si può chiedere quale sia quel valore di ore di fenomeno di shadow flickering che ha una probabilità del 50 per cento (P50) di essere superato nel corso di un anno. Prima di esaminare la metodologia matematica che si utilizza per determinare il valore P50, si cercherà di spiegare l'importanza di tale valore.


Abbiamo già detto come il valore P50 corrisponda a quel valore che ha una probabilità del 50% di essere superato nel corso di un anno.

In pratica, ogni anno si hanno le stesse probabilità (50%) di stare sopra o di stare sotto a questo valore P50; per la legge dei grandi numeri, si ha che nel corso di un periodo di molti anni (come può essere assimilato il periodo ventennale ed oltre di vita attesa dell'impianto) il valore medio di un qualunque fenomeno stocastico tende ad approssimare proprio il valore P50.

Pertanto, il valore P50 può essere considerato come il valore medio di un generico fenomeno stocastico nel corso di un periodo di molti anni.

Riconducendo il discorso matematico generale al caso in studio si può dire che il valore P50 di ore/anno di shadow flickering rappresenta nel corso del periodo ventennale ed oltre di vita attesa dell'impianto il valore medio reale del fenomeno.

Per questa ragione il valore P50 è il corrispondente del REAL CASE.

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 Pag. 34 di 49</p>
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Il calcolo matematico di P50 si esegue con le regole matematiche della “probability of exceedance” una volta conosciute e quantificate le incertezze che caratterizzano il fenomeno in esame.

Per il caso in studio di shadow flickering le incertezze per quanto detto nei Capitoli precedenti sono date dalla possibile presenza di manto nuvoloso, dalla possibile assenza di vento e dal possibile orientamento del rotore in direzione non ortogonale alla congiungente ricevitore-sole.

Allo scopo di pervenire a valori più realistici di impatto, prossimi al caso reale (denominato REAL CASE), si è impiegato il valore di eliofania locale, ovvero il numero di ore di cielo libero da nubi durante il giorno; per l’area in esame tale valore di soleggiamento corrisponde a 2664.5 h/yr (rispetto alle 4380h/yr considerate nel worst - case).

I risultati del calcolo possono, ragionevolmente, essere abbattuti del 39,2 %, pari al complemento a 1 del rapporto $2664.5/4380 = 60,8 \%$.

In altri termini, rispetto al WORST CASE, la probabilità di occorrenza del fenomeno di shadow flickering si riduce, per l’area in esame, al 60.8 % che corrisponde proprio alla probabilità che il disco solare risulti libero da nubi.


Tutto ciò non tiene conto di altri fattori che potrebbero diminuire o annullare del tutto l’effetto flickering sul ricevitore, come la presenza di alberi interposti tra turbina e ricevitore e/o posizionamento delle abitazioni e dei propri infissi rispetto alla fonte, la presenza del vento (fattore indispensabile per la formazione del fenomeno dello sfarfallio).

10. CONCLUSIONI

A seguito di quanto descritto nei paragrafi precedenti si può concludere che, pur considerando una stima cautelativa in quanto non si è tenuto conto dell’eventuale presenza di ostacoli e/o vegetazione interposti tra il sole e le finestrate (ad esclusione degli ostacoli orografici), il fenomeno dello shadow flickering si verifica per 74 dei 81 ricettori in esame.

Tale fenomeno si manifesta però in modo differente per i diversi ricettori per cui non si possono generalizzare le conclusioni, ma è doveroso analizzare i diversi casi.

Per la corretta analisi dello shadow flickering, vanno considerate tutti i fattori che possono influenzare il risultato, anche nel caso di ricettori che apparentemente subiscono un fenomeno rilevante, è necessario verificare se in conclusione il fenomeno stesso dell’ombreggiamento arreca un disturbo reale oppure il fatto stesso non è neppure avvertito da chi abitualmente utilizza i locali.

	PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG) RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)	DATA: FEBBRAIO 2024 <i>Pag. 35 di 49</i>
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Partendo proprio dai dati ricavati con condizione peggiorativa (WORST CASE), si analizza quale reale disturbo si trasmette alle attività lavorative nell'area del parco.

A tali considerazioni va altresì sottolineato che:

- la velocità di rotazione della turbina è 9,22 rotazioni al minuto, quindi nettamente inferiore a 60 rpm, frequenza massima raccomandata al fine di ridurre al minimo i fastidi e soddisfare le condizioni di benessere;
- nelle condizioni di WORST CASE sono 58 i ricettori maggiormente interessati al fenomeno dello shadow, superando il limite imposto dalla normativa tedesca di 30 h/years;

RICETTORE	WORST CASE (h/year)
A	90:42:00
B	92:17:00
C	92:24:00
D	91:20:00
E	26:59:00
F	27:38:00
G	30:12:00
H	31:20:00
I	31:35:00
J	32:03:00
K	40:40:00
L	43:21:00
M	44:12:00
N	43:40:00
O	40:40:00
P	41:32:00
Q	44:47:00
R	47:11:00
S	38:09:00

**RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA
INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW
FLICKERING)**

T	37:33:00
U	49:31:00
V	44:42:00
W	157:06:00
X	150:24:00
Y	146:27:00
Z	130:41:00
AA	116:30:00
AB	122:26:00
AC	31:46:00
AD	44:02:00
AE	49:40:00
AF	51:36:00
AG	41:58:00
AH	46:15:00
AI	58:25:00
AJ	56:10:00
AK	63:38:00
AL	64:56:00
AM	73:23:00
AN	83:18:00
AO	93:01:00
AP	95:29:00
AQ	108:25:00
AR	117:17:00
AS	27:40:00
AT	00:00
AU	00:00
AV	00:00

RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA
INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW
FLICKERING)

AW	00:00
AX	00:00
AY	00:00
AZ	18:33
BA	77:59:00
BB	54:49:00
BC	46:11:00
BD	48:57:00
BE	28:13:00
BF	28:32:00
BG	00:00
BH	16:20
BI	26:24:00
BJ	24:01:00
BK	22:36
BL	20:17
BM	22:10
BN	23:47
BO	25:52:00
BP	35:30:00
BQ	35:50:00
BR	34:44:00
BS	34:21:00
BT	33:27:00
BU	32:38:00
BV	33:54:00
BW	31:54:00
BX	33:39:00
BY	32:42:00

RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA
INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW
FLICKERING)

BZ	32:45:00
CA	31:55:00
CB	27:54:00
CC	09:35

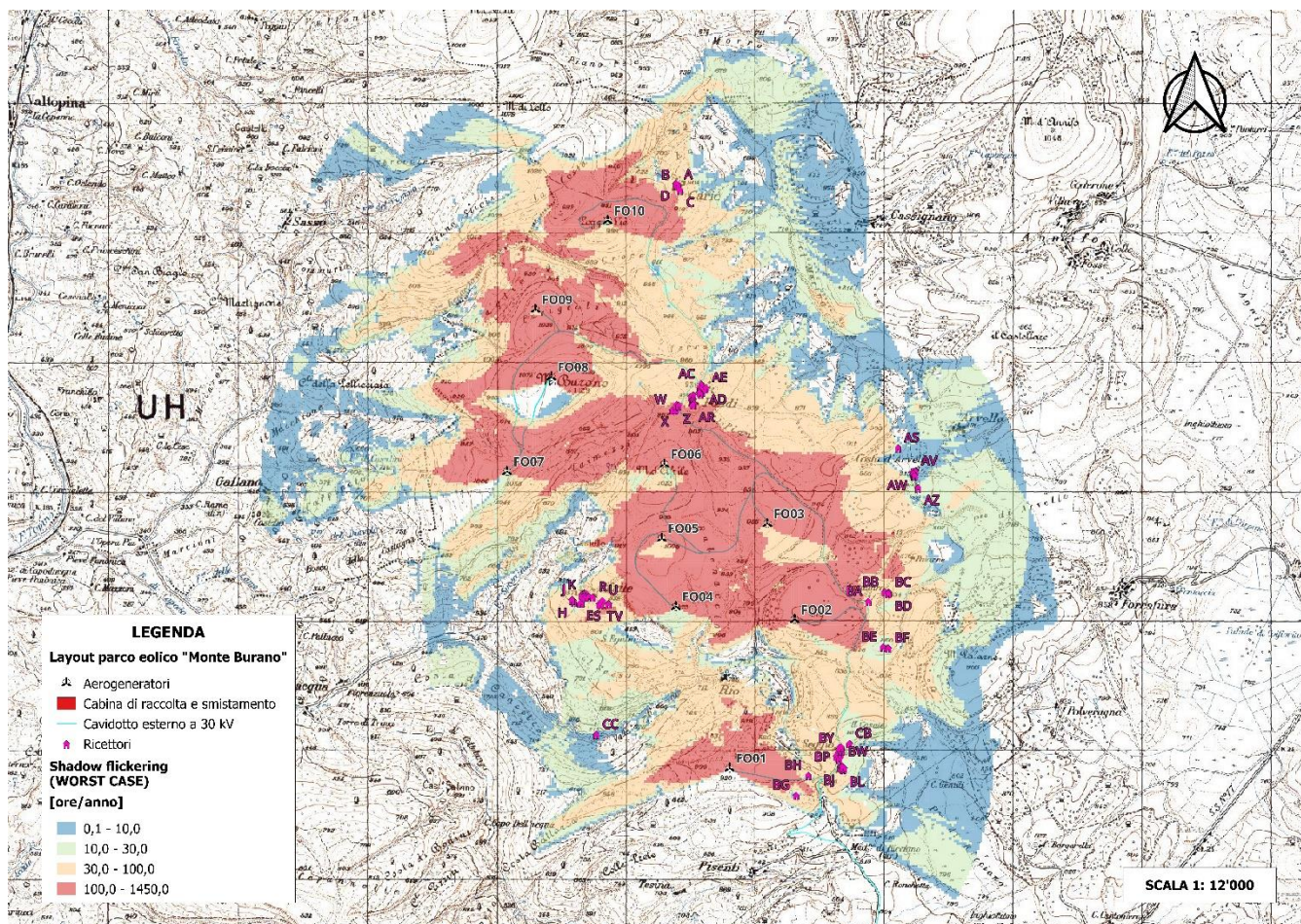



Figura 11 – Rappresentazione grafica WORST CASE

- il fenomeno è studiato in WORST CASE, quindi nelle condizioni peggiori, considerando il cielo sempre limpido cosa del tutto non vera specialmente per i ricettori che subiscono maggiore ombreggiamento nel periodo invernale, le condizioni di REAL CASE abbatterebbero le ore reali con un'aliquota stimata al 39,2% delle ore rilevate;
- la condizione di WORST CASE, prevede un particolare orientamento delle pale dell'aerogeneratore, sempre fisso e nella stessa direzione, nonché prevede una certa disposizione

	PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG) RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEROGENERATORI (EFFETTO SHADOW FLICKERING)	DATA: FEBBRAIO 2024 <i>Pag. 39 di 49</i>
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delle finestre oltre a prevedere una condizione di cielo sempre limpido, tali condizioni sono completamente diverse e comunque mai tutte presenti contemporaneamente nella condizione di REAL CASE.

- nelle condizioni di REAL CASE solo 16 dei suddetti ricettori superano il livello imposto dalla normativa tedesca (A, B, C, D, W, X, Y, Z, AA, AB, AN, AO, AP, AQ, AR e BA).

I ricettori che subiscono il fenomeno dell'ombreggiamento sono molto lontani dalle turbine in progetto essendo posti ad una distanza minima di 428 m e massima di 613 m, con una media pari a 524 m.

RICETTORE	WORST CASE (h/year)	REAL CASE (h/year)	DISTANZA TURBINA (m)	AEROGENERATORE PIU' VICINO
A	90:42:00	35:33:16	613	FO01
B	92:17:00	36:10:30	596	FO01
C	92:24:00	36:13:15	609	FO01
D	91:20:00	35:48:10	604	FO01
W	157:06:00	61:35:00	428	FO06
X	150:24:00	58:57:24	433	FO06
Y	146:27:00	57:24:30	440	FO06
Z	130:41:00	51:13:40	458	FO06
AA	116:30:00	45:40:05	473	FO06
AB	122:26:00	47:59:38	471	FO06
AN	83:18:00	32:39:13	555	FO06
AO	93:01:00	36:27:45	539	FO06
AP	95:29:00	37:25:46	540	FO06
AQ	108:25:00	42:29:58	526	FO06
AR	117:17:00	45:58:30	511	FO06
BA	77:59:00	30:34:10	588	FO02

- In circostanze specifiche, e più precisamente al di sopra dei 300 m, l'effetto dell'ombra è trascurabile poiché il rapporto tra lo spessore della pala e la distanza dal recettore diventa molto piccolo.

RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA
INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW
FLICKERING)

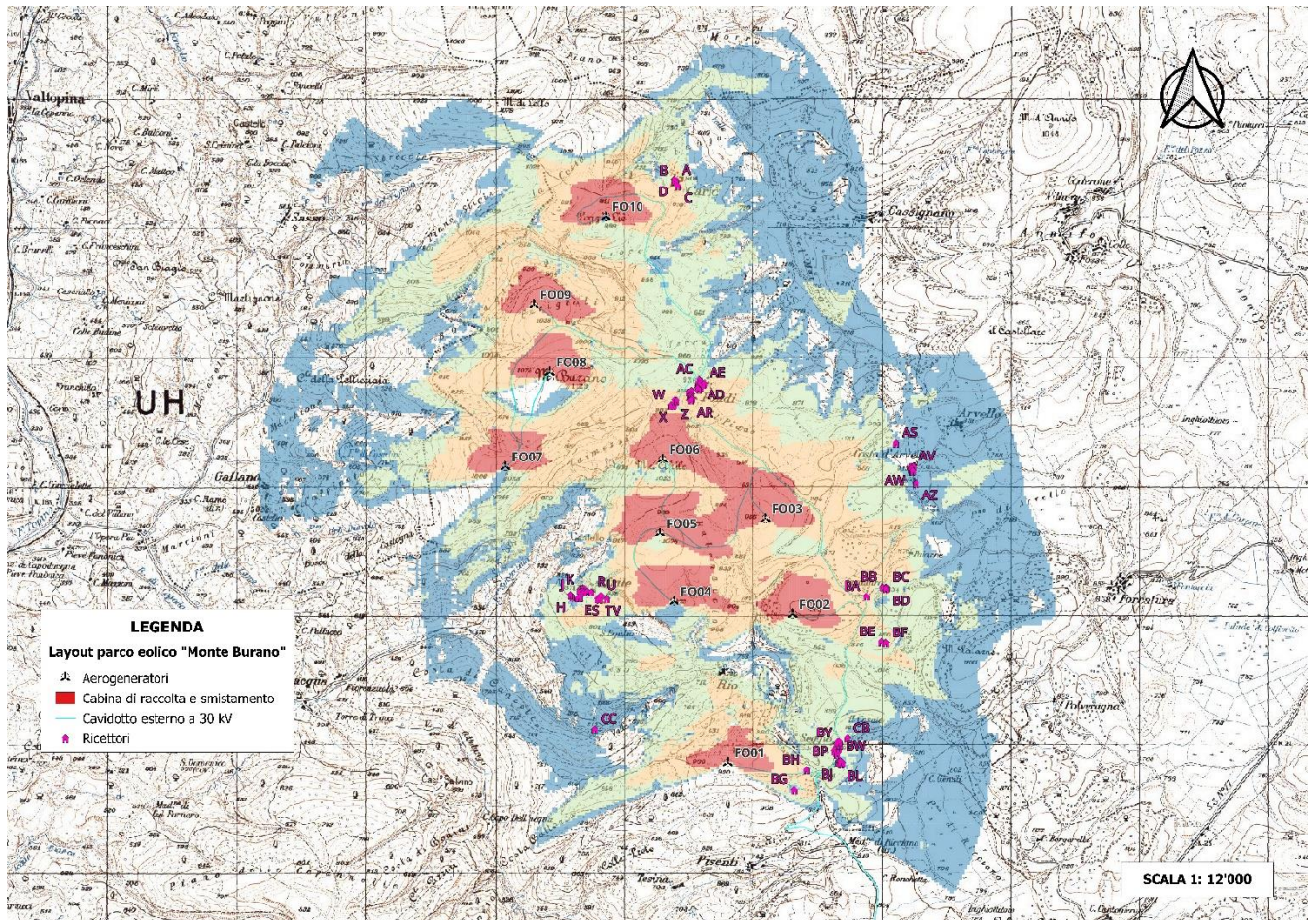


Figura 12 – Rappresentazione grafica REAL CASE

Ricettori A-B-C-D

Rappresentano mediamente i ricettori più lontani, distanti mediamente circa 600 metri dalla WRG più vicina (FO10). È possibile notare la presenza di vegetazione ad alto fusto, nella zona adiacente agli edifici e che si frappone tra essi e l'aerogeneratore in questione, che protegge e mitiga i possibili effetti di flickering.

Considerando la distanza e la presenza di alberi nelle vicinanze (Figura 13), si può affermare che tali ricettori sono schermati totalmente e le ore di ombreggiamento calcolate ed evidenziate nella tabella precedente potranno essere azzerate.

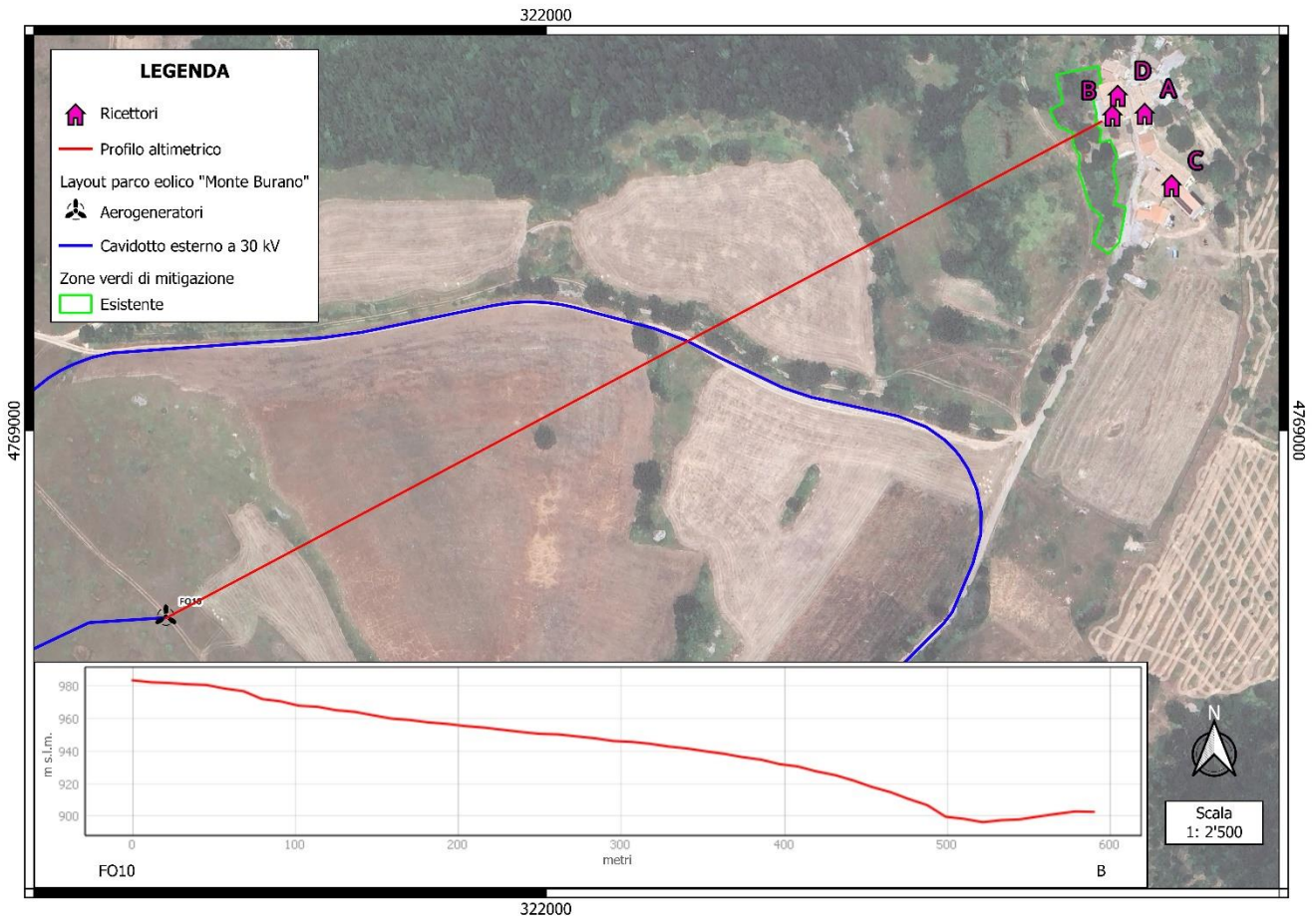


Figura 13: Profilo planimetrico, distanze ed eventuali opere di mitigazione previste nel primo caso critico.

Ricettori W-X-Y-Z-AA-AB

Questo gruppo di ricettori costituisce quelli ad una distanza inferiore rispetto agli aerogeneratori; infatti sono posti ad una distanza media di 450 metri dalla turbina FO06.

Si prevede di realizzare una fascia alberata nelle vicinanze dei ricettori, nella direzione dello aerogeneratore FO06 (Figura 14), tale fascia fungerà da mitigazione annullando il naturale effetto di flickering.

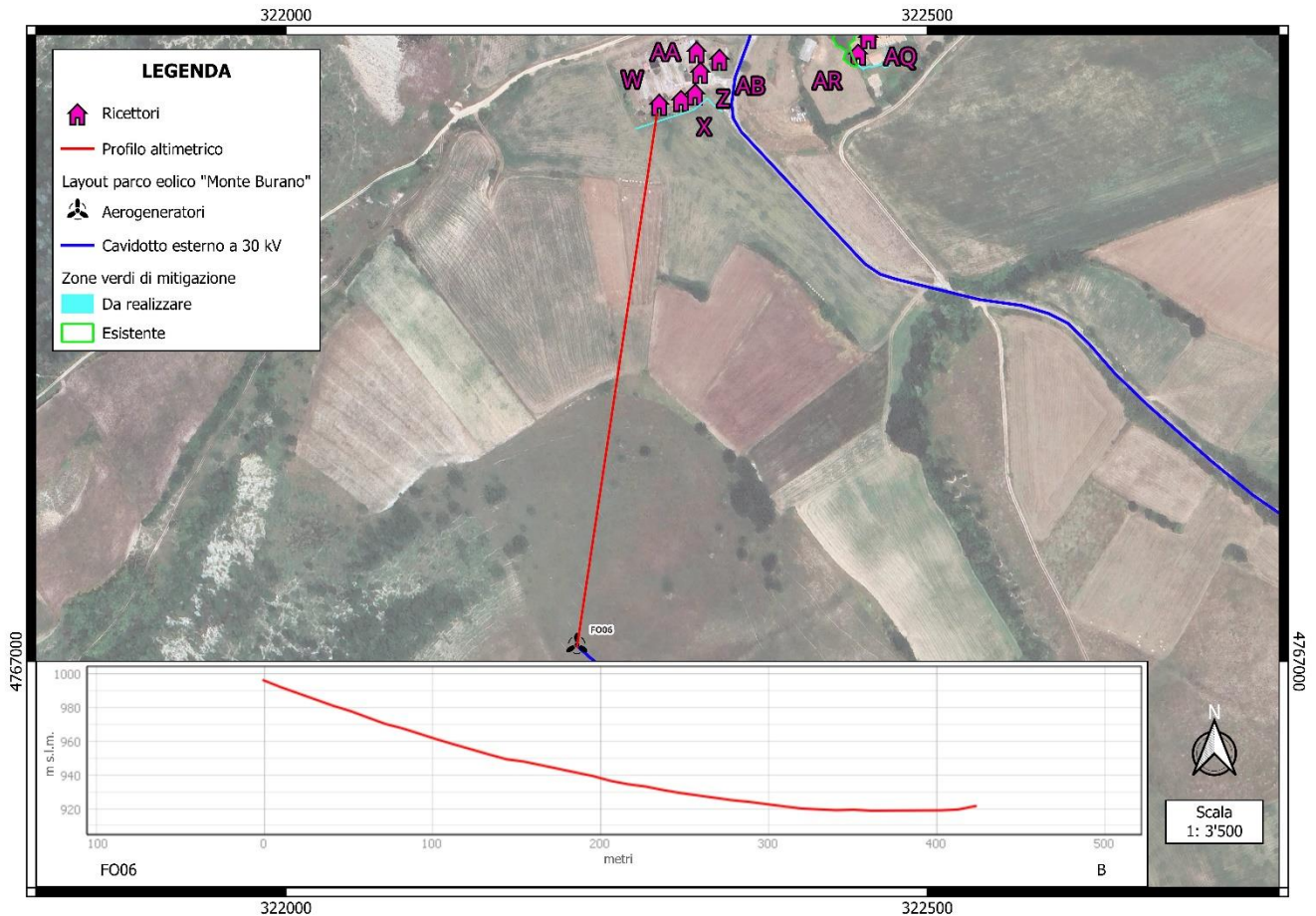


Figura 14: Profilo planimetrico, distanze ed eventuali opere di mitigazione previste nel secondo caso critico.

Ricettori AN-AO-AP-AQ-AR

Posti ad una distanza media di circa 520 metri dalla turbina FO06; è possibile notare anche la presenza di una fitta vegetazione ad alto fusto, nella zona sottostante e in direzione dell'aerogeneratore, che protegge parzialmente il complesso di edifici da possibili effetti di flickering.

Considerando che si prevede di implementare l'area verde già presente con un'ulteriore fascia di mitigazione alberata che ripari i ricettori da un eventuale possibile ombreggiamento (Figura 15), si può stimare che i futuri impatti su tali edifici della componente ombra sono trascurabili.

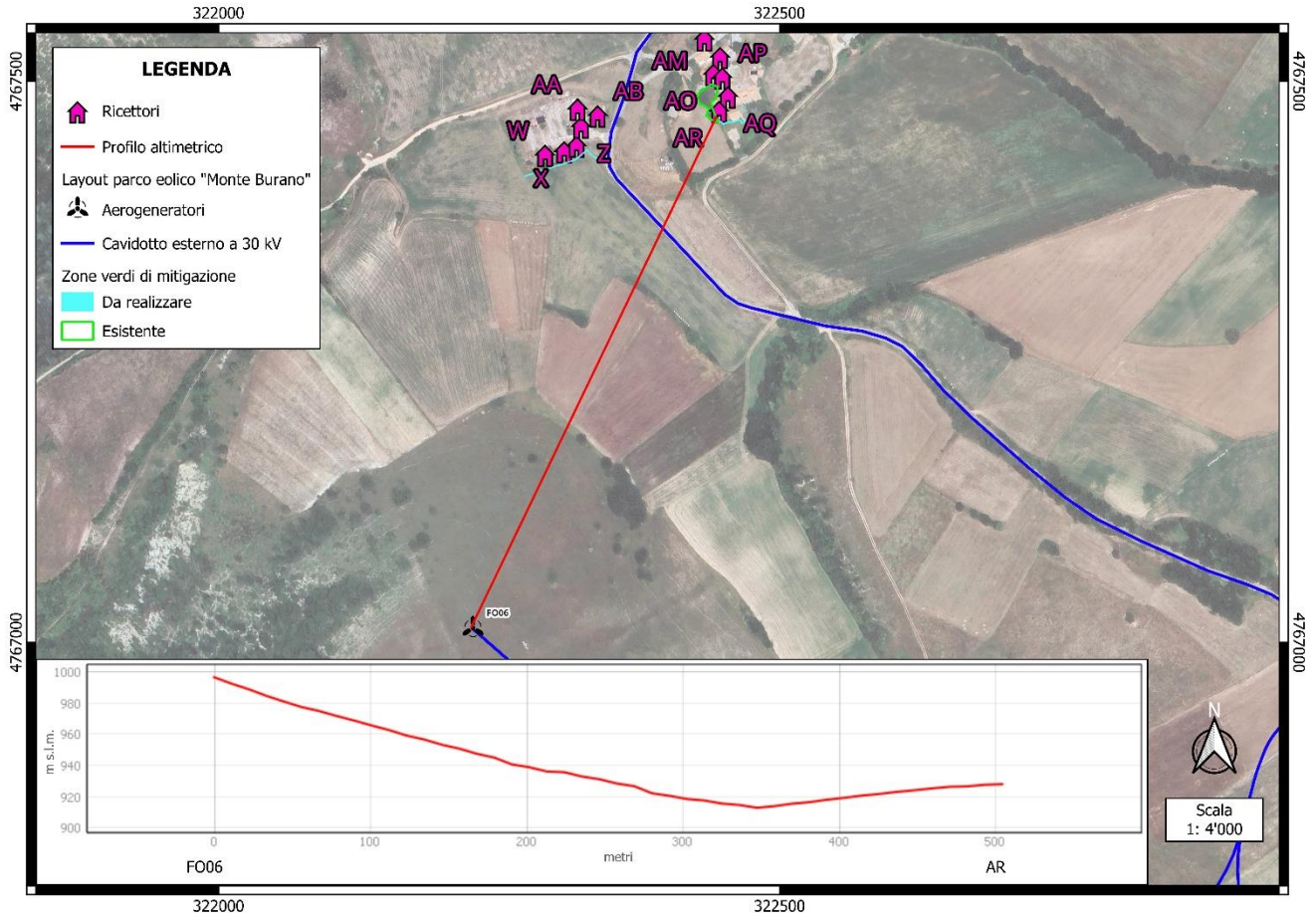


Figura 15: Profilo planimetrico, distanze ed eventuali opere di mitigazione previste nel terzo caso critico.

Ricettore BA

Il ricettore è rappresentato da un fabbricato destinato ad abitazione posto a circa 590 metri in direzione nord/est dall'aerogeneratore denominato FO02.

L'analisi ha mostrato la possibile presenza del fenomeno di shadow flickering in REAL CASE per una durata complessiva superiore alle 30 h/anno.

Tuttavia detto fenomeno è del tutto trascurabile senza introdurre ulteriori misure di mitigazione visto la presenza di schermature naturali (alberature di alto fusto) interposte tra l'aerogeneratore in progetto e poste nelle immediate vicinanze del fabbricato (Figura 16).

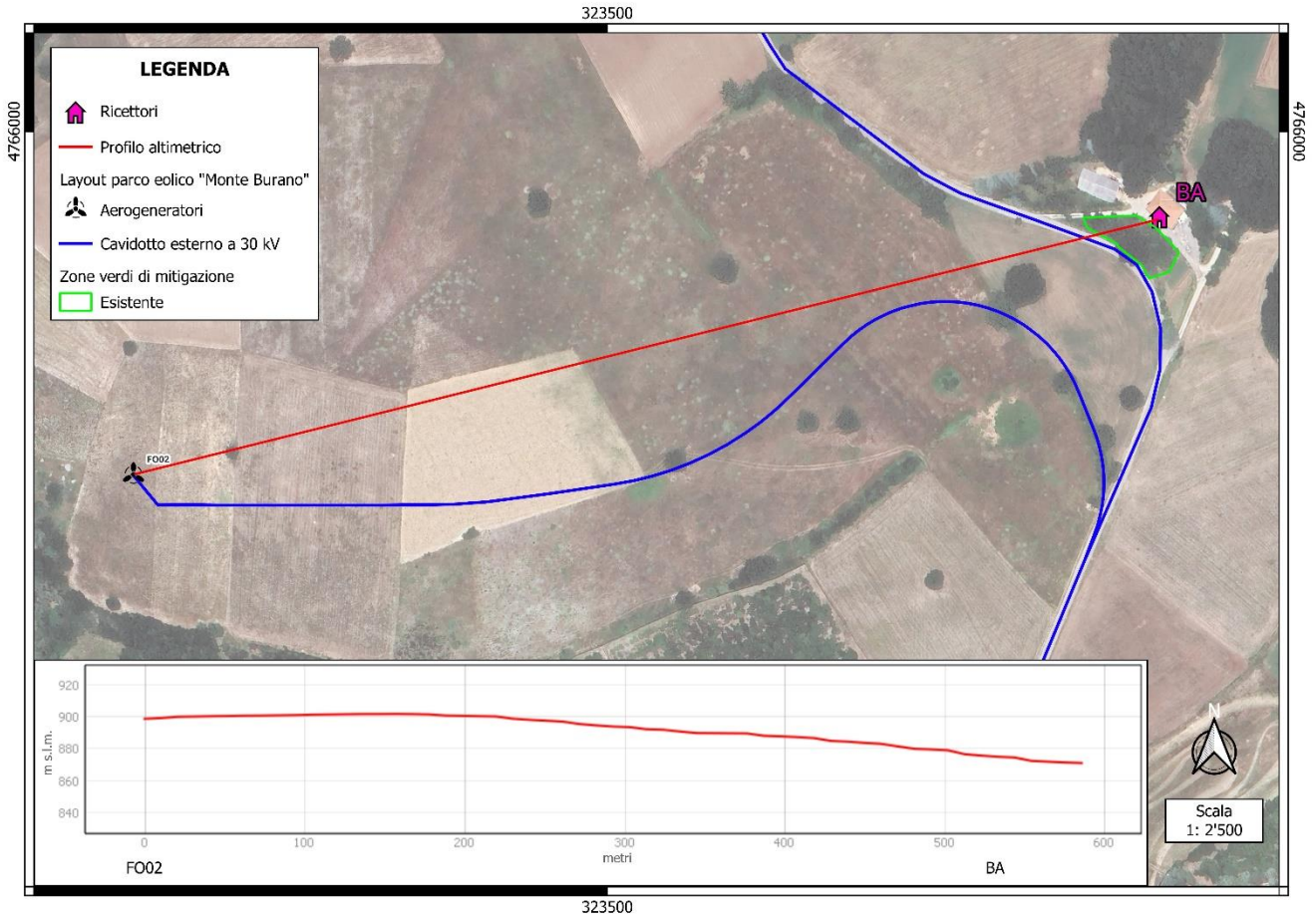



Figura 16: Profilo planimetrico, distanze ed eventuali opere di mitigazione previste nel quarto caso critico.

Nel valutare l'entità di questo fenomeno, tuttavia, si deve considerare che:

- un anno ha 8760 ore, di cui circa 4380 ore di luce ed altrettante di buio;
- ad esempio 100 ore di flickering su un edificio in un anno significa circa il 2,3% appena delle ore di luce;

RICETTORE	REAL CASE (h/year)	DISTANZA TURBINA (m)	AEROGENERATORE PIU' VICINO	% ORE DI LUCE
A	35:33:16	613	FO01	0,8%
B	36:10:30	596	FO01	0,8%
C	36:13:15	609	FO01	0,8%
D	35:48:10	604	FO01	0,8%


	PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG) RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)	DATA: FEBBRAIO 2024 Pag. 45 di 49
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W	61:35:00	428	FO06	1,4%
X	58:57:24	433	FO06	1,3%
Y	57:24:30	440	FO06	1,3%
Z	51:13:40	458	FO06	1,2%
AA	45:40:05	473	FO06	1,0%
AB	47:59:38	471	FO06	1,1%
AN	32:39:13	555	FO06	0,7%
AO	36:27:45	539	FO06	0,8%
AP	37:25:46	540	FO06	0,9%
AQ	42:29:58	526	FO06	1,0%
AR	45:58:30	511	FO06	1,0%
BA	30:34:10	588	FO02	0,7%

Dalla stima effettuata tramite i calcoli sono da detrarre:

- Le ore in cui non c'è vento e le macchine sono ferme;
- Le ore in cui non c'è sole (cielo nuvoloso e coperto) e pertanto non si genera il fenomeno di flickering;
- Le ore in cui il rotore è disallineato rispetto alla perpendicolare alla direzione dei raggi solari e, quindi, l'area di flickering è ridotta;
- Le prime ore del giorno (4:30 – 7:00) in cui le persone solitamente dormono.

Si fa presente che nonostante i 58 casi in cui si verifichi il superamento delle ore annue indicate dalla normativa Tedesca nelle condizioni di Worst case (16 in condizioni di Real case), queste sono comunque in condizioni cautelative in quanto non si è tenuto conto degli effetti mitigativi dovuti al piano di rotazione delle pale non sempre ortogonale alla direttrice sole-finestra e non vengono considerate la presenza di alberi nelle immediate vicinanze degli edifici che formano una barriera naturale, non viene considerata la disposizione delle aperture nelle pareti degli edifici come finestre, balconi e porte che consentono all'effetto di sfarfallamento di entrare nell'edificio e non si considera che nelle prime ore del giorno (solitamente dalle 4:30 alle 7:00) le attività umane sono pressoché nulle e non si sortirebbe alcun effetto sulla salute umana dovuto ad un effettivo ombreggiamento.

	<p style="text-align: center;">PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p style="text-align: center;">RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p style="text-align: right;">DATA: FEBBRAIO 2024 <i>Pag. 46 di 49</i></p>
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Tale accortezza risulta in alcuni casi fondamentale in quanto il programma di simulazione considera gli edifici formati da soli pareti trasparenti.


L'analisi svolta dimostra che la realizzazione del parco eolico di cui al presente progetto non interferisce in maniera sensibile sui ricettori per quanto riguarda il verificarsi dell'effetto shadow flickering in quanto, tale fenomeno è potenzialmente riscontrabile solo in periodi limitati della giornata durante alcuni mesi dell'anno.

In particolare il presente studio ha esaminato l'effetto del fenomeno su tutti i fabbricati interferenti con aree prossime agli aerogeneratori in progetto approfondendo quei ricettori con durata teorica dell'ombreggiamento superiore alle 30 h/anno, quale limite superiore della verifica nei confronti del possibile effetto significativo sulle persone.

Per i ricettori esaminati con durata superiore alle 30 h/anno del fenomeno di shadow flickering si è approfondita l'analisi al fine di valutare eventuali altre opere di mitigazione o delocalizzazione degli aerogeneratori.

In circostanze specifiche, e più precisamente al di sopra dei 300 m, l'effetto dell'ombra è trascurabile poiché il rapporto tra lo spessore della pala e la distanza dal recettore diventa molto piccolo, e si è previsto ugualmente l'inserimento di una fascia vedere alberata come mitigazione e riparo dall'effetto ombra laddove dall'analisi il REAL CASE risultasse superiore a 30 ore/anno.

Lo studio ha dimostrato la piena compatibilità dell'ubicazione degli aerogeneratori nei confronti del fenomeno di shadow flickering sui fabbricati circostanti non riscontrando effetti significativi che necessitano di ulteriori misure di mitigazione.

	<p>PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p>RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p>DATA: FEBBRAIO 2024 <i>Pag. 47 di 49</i></p>
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ALLEGATO 1

ALLEGATO 1

Project:
foligno

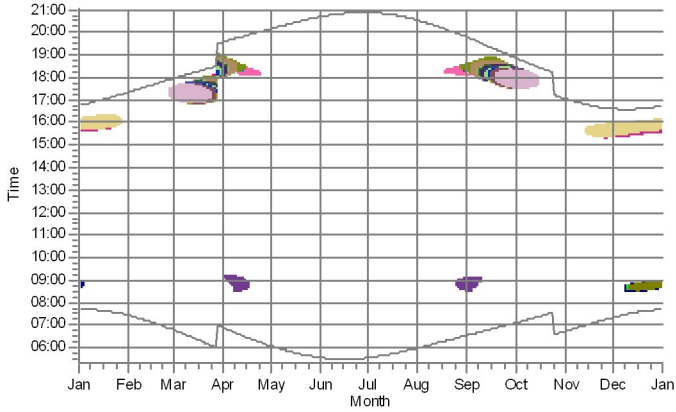
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EGM Project srl
via Vincenzo Verrastro 15/A
IT-85100 Potenza

Calculated:
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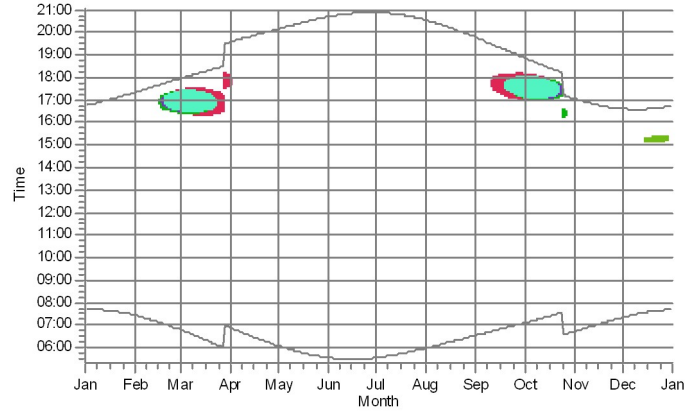
SHADOW - Calendar per WTG, graphical

Calculation: Shadow

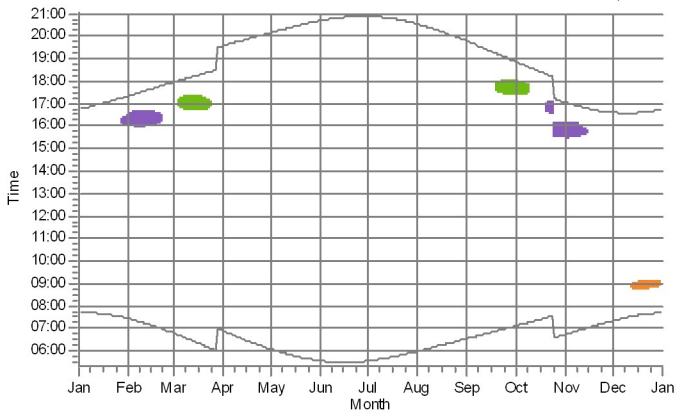
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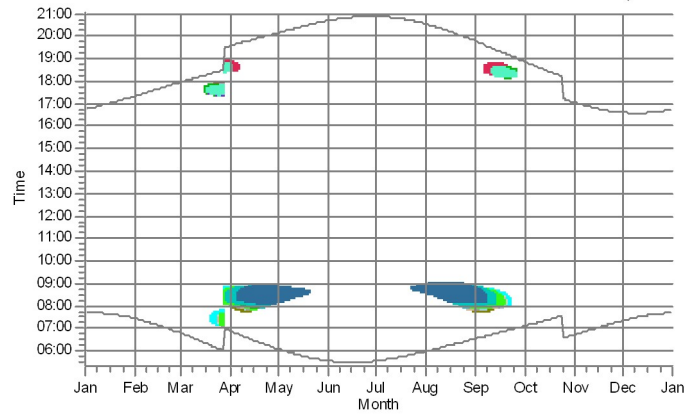
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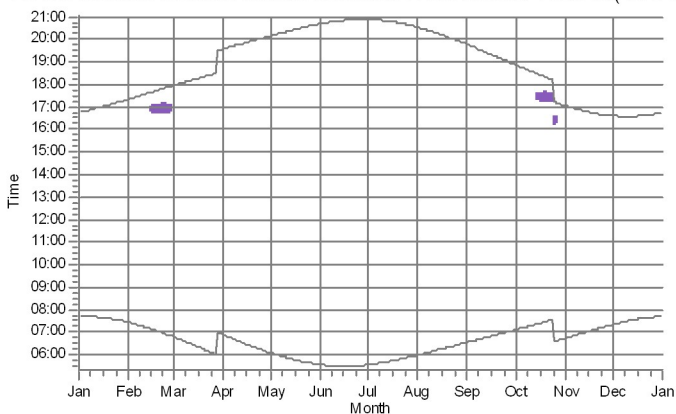
FO 03: Siemens Gamesa SG 6.6-170 6600 170.0 IO! hub: 115.0 m (TOT: 2



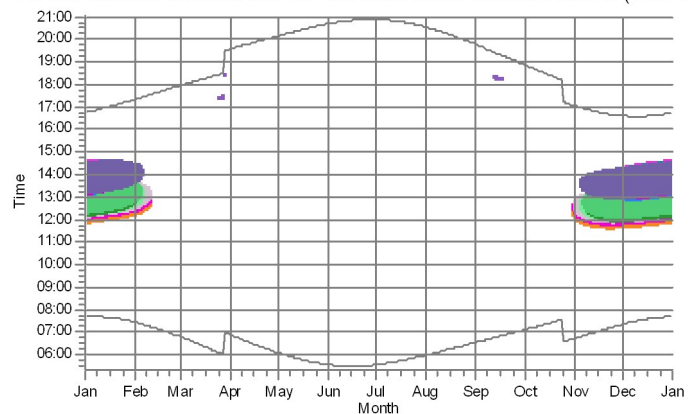
FO 04: Siemens Gamesa SG 6.6-170 6600 170.0 IO! hub: 115.0 m (TOT: 2



FO 05: Siemens Gamesa SG 6.6-170 6600 170.0 IO! hub: 115.0 m (TOT: 2



FO 06: Siemens Gamesa SG 6.6-170 6600 170.0 IO! hub: 115.0 m (TOT: 2



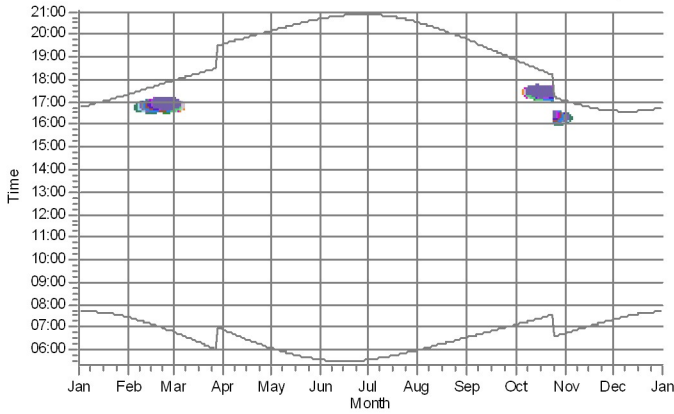
Shadow receptors

E: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (119)	S: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (133)	AG: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (147)	BA: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (167)	BP: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (182)
F: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (120)	T: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (134)	AH: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (148)	BB: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (168)	BQ: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (183)
G: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (121)	U: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (135)	AI: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (149)	BC: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (169)	BR: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (184)
H: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (122)	V: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (136)	AJ: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (150)	BD: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (170)	BS: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (185)
I: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (123)	W: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (137)	AK: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (151)	BE: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (171)	BT: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (186)
J: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (124)	X: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (138)	AL: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (152)	BF: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (172)	BU: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (187)
K: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (125)	Y: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (139)	AM: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (153)	BH: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (174)	BV: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (188)
L: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (126)	Z: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (140)	AN: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (154)	BI: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (175)	BW: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (189)
M: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (127)	AA: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (141)	AO: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (155)	BJ: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (176)	BX: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (190)
N: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (128)	AB: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (142)	AP: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (156)	BK: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (177)	BY: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (191)
O: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (129)	AC: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (143)	AQ: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (157)	BL: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (178)	BZ: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (192)
P: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (130)	AD: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (144)	AR: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (158)	BM: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (179)	CA: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (193)
Q: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (131)	AE: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (145)	AS: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (159)	BN: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (180)	CB: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (194)
R: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (132)	AF: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (146)	AZ: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (160)	BO: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (181)	CC: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (228)

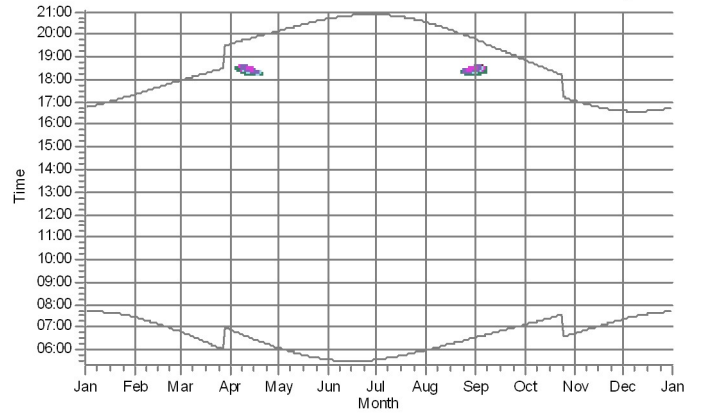
SHADOW - Calendar per WTG, graphical

Calculation: Shadow

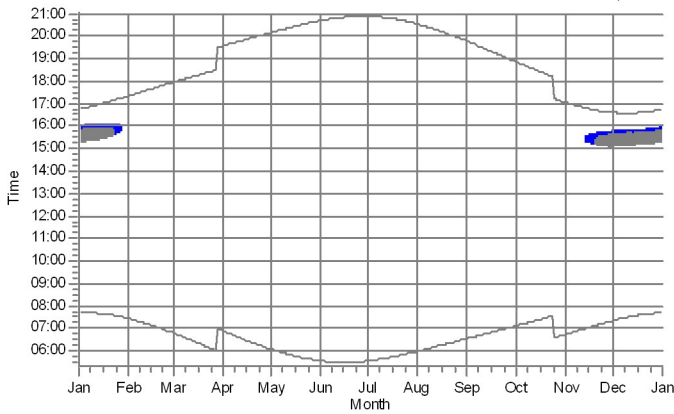
FO 07: Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 2



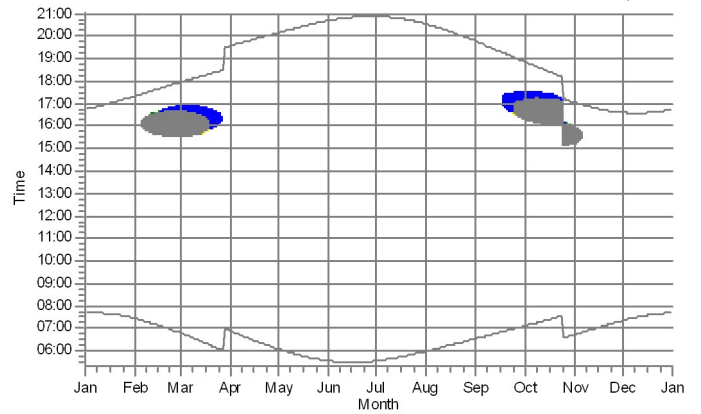
FO 08: Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 2



FO 09: Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 2



FO 10: Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 2



Shadow receptors

A: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (115)	Y: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (139)	AE: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (145)	AK: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (151)
B: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (116)	Z: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (140)	AF: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (146)	AL: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (152)
C: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (117)	AA: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (141)	AG: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (147)	AM: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (153)
D: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (118)	AB: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (142)	AH: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (148)	AN: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (154)
E: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (119)	AC: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (143)	AI: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (149)	AO: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (155)
F: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (120)	AD: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (144)	AJ: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (150)	AP: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (156)
G: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (121)			
H: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (122)			
I: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (123)			
J: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (124)			
K: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (125)			
L: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (126)			
M: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (127)			
N: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (128)			
O: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (129)			
P: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (130)			
Q: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (131)			
R: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (132)			
S: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (133)			
T: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (134)			
U: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (135)			
V: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (136)			
W: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (137)			
X: Shadow Receptor: 1.0 x 1.0 Azimuth: 0.0° Slope: 0.0° (138)			

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 01 - Siemens Gamesa SG 6.6-170 6600 170.0 IO! hub: 115.0 m (TOT: 200.0 m) (1)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:41 15:38-16:07/29 16:45 08:44-08:53/9	07:25 17:21	06:47 17:06-17:31/25 17:57	06:53 18:04-18:53/49 19:34	06:04 20:09	05:33 20:41
2	07:41 15:39-16:08/29 16:45 08:45-08:52/7	07:24 17:22	06:45 17:05-17:34/29 17:59	06:51 18:05-18:51/46 19:36	06:03 20:10	05:33 20:42
3	07:41 15:39-16:09/30 16:46 08:47-08:51/4	07:23 17:23	06:44 17:03-17:35/32 18:00	06:50 09:07-09:09/2 19:37	06:02 20:11	05:32 20:43
4	07:41 15:40-16:09/29 16:47	07:22 17:25	06:42 17:01-17:35/34 18:01	06:48 09:02-09:09/7 19:38	06:00 20:13	05:32 20:43
5	07:41 15:40-16:10/30 16:48	07:21 17:26	06:40 17:01-17:37/36 18:02	06:46 08:57-09:08/11 19:39	05:59 20:14	05:31 20:44
6	07:41 15:41-16:11/30 16:49	07:20 17:27	06:39 16:59-17:37/38 18:04	06:44 08:52-09:08/16 19:40	05:58 20:15	05:31 20:45
7	07:41 15:41-16:12/31 16:50	07:19 17:29	06:37 16:58-17:39/41 18:05	06:43 08:49-09:08/19 19:41	05:56 20:16	05:31 20:45
8	07:40 15:41-16:12/31 16:51	07:17 17:30	06:35 16:58-17:41/43 18:06	06:41 08:44-09:07/23 19:43	05:55 20:17	05:30 20:46
9	07:40 15:41-16:12/31 16:52	07:16 17:31	06:34 16:57-17:41/44 18:07	06:39 08:35-09:06/31 19:44	05:54 20:18	05:30 20:47
10	07:40 15:42-16:13/31 16:53	07:15 17:33	06:32 16:56-17:42/46 18:08	06:37 08:35-09:06/31 19:45	05:53 20:19	05:30 20:47
11	07:40 15:42-16:13/31 16:54	07:14 17:34	06:30 16:55-17:43/48 18:10	06:36 08:35-09:04/29 19:46	05:52 20:20	05:30 20:48
12	07:39 15:43-16:14/31 16:55	07:12 17:35	06:28 16:55-17:45/50 18:11	06:34 08:35-09:03/28 19:47	05:50 20:22	05:30 20:48
13	07:39 15:44-16:15/31 16:57	07:11 17:37	06:27 16:55-17:46/51 18:12	06:32 08:37-09:02/25 19:48	05:49 20:23	05:30 20:49
14	07:39 15:44-16:15/31 16:58	07:10 17:38	06:25 16:54-17:46/52 18:13	06:31 08:37-09:00/23 19:50	05:48 20:24	05:29 20:49
15	07:38 15:45-16:16/31 16:59	07:08 17:39	06:23 16:54-17:48/54 18:14	06:29 08:38-08:57/19 19:51	05:47 20:25	05:29 20:50
16	07:38 15:45-16:15/30 17:00	07:07 17:41	06:21 16:54-17:50/56 18:16	06:27 08:40-08:55/15 19:52	05:46 20:26	05:29 20:50
17	07:37 15:46-16:15/29 17:01	07:05 17:42	06:20 16:54-17:50/56 18:17	06:26 08:43-08:51/8 19:53	05:45 20:27	05:29 20:51
18	07:37 15:47-16:16/29 17:03	07:04 17:43	06:18 16:54-17:51/57 18:18	06:24 18:08-18:20/12 19:54	05:44 20:28	05:29 20:51
19	07:36 15:48-16:16/28 17:04	07:02 17:45	06:16 16:54-17:52/58 18:19	06:23 18:08-18:19/11 19:55	05:43 20:29	05:30 20:51
20	07:36 15:49-16:15/26 17:05	07:01 17:46	06:14 16:54-17:54/60 18:20	06:21 18:08-18:16/8 19:56	05:42 20:30	05:30 20:52
21	07:35 15:50-16:16/26 17:06	06:59 17:47	06:13 16:56-17:57/61 18:22	06:19 18:08-18:15/7 19:58	05:41 20:31	05:30 20:52
22	07:34 15:52-16:15/23 17:08	06:58 17:48	06:11 16:56-17:58/62 18:23	06:18 18:08-18:13/5 19:59	05:40 20:32	05:30 20:52
23	07:33 15:53-16:15/22 17:09	06:56 17:50	06:09 16:57-17:59/62 18:24	06:16 18:08-18:12/4 20:00	05:39 20:33	05:30 20:52
24	07:33 15:55-16:14/19 17:10	06:55 17:51	06:07 16:57-18:00/63 18:25	06:15 18:08-18:09/1 20:01	05:39 20:34	05:31 20:52
25	07:32 15:56-16:13/17 17:11	06:53 17:52	06:05 16:58-18:01/63 18:26	06:13 20:02	05:38 20:35	05:31 20:52
26	07:31 15:58-16:11/13 17:13	06:52 17:54	06:04 17:00-18:02/62 18:27	06:12 20:03	05:37 20:36	05:31 20:52
27	07:30 16:01-16:09/8 17:14	06:50 17:55	06:02 17:01-18:03/62 18:29	06:10 20:05	05:36 20:37	05:32 20:53
28	07:29 17:15	06:49 17:56	06:00 17:01-18:01/60 18:30	06:09 20:06	05:36 20:38	05:32 20:53
29	07:28 17:17		06:58 18:02-18:59/57 19:31	06:07 20:07	05:35 20:38	05:32 20:52
30	07:27 17:18		06:57 18:03-18:57/54 19:32	06:06 20:08	05:34 20:39	05:33 20:52
31	07:26 17:19		06:55 18:03-18:55/52 19:33		05:34 20:40	
Potential sun hours	292	294	369	401	454	459
Sum of minutes with flicker	746	36	1568	801	0	0

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 01 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (1)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	05:33 20:52	05:59 20:32	06:32 08:34-09:03/29 19:46 18:11-18:33/22	07:05 17:34-18:24/50 18:52	06:43 17:03	07:20 15:24-15:55/31 16:36
2	05:34 20:52	06:00 20:30	06:34 08:33-09:04/31 19:44 18:11-18:34/23	07:07 17:34-18:23/49 18:50	06:44 17:01	07:21 15:25-15:56/31 16:36
3	05:34 20:52	06:01 20:29	06:35 08:33-09:04/31 19:42 18:11-18:35/24	07:08 17:33-18:21/48 18:49	06:45 17:00	07:22 15:26-15:57/31 16:35
4	05:35 20:52	06:02 20:28	06:36 08:41-09:04/23 19:40 18:12-18:36/24	07:09 17:34-18:20/46 18:47	06:46 16:59	07:23 15:26-15:57/31 16:35
5	05:35 20:52	06:03 20:27	06:37 08:45-09:04/19 19:39 18:11-18:38/27	07:10 17:34-18:18/44 18:45	06:48 16:57	07:24 15:26-15:57/31 16:35
6	05:36 20:51	06:04 20:25	06:38 08:48-09:04/16 19:37 18:08-18:39/31	07:11 17:35-18:16/41 18:43	06:49 16:56	07:25 15:27-15:57/30 16:35
7	05:37 20:51	06:05 20:24	06:39 08:52-09:03/11 19:35 18:06-18:40/34	07:12 17:35-18:14/39 18:42	06:50 16:55	07:26 15:27-15:57/30 16:35
8	05:37 20:51	06:06 20:23	06:40 08:56-09:03/7 19:33 18:03-18:41/38	07:13 17:35-18:12/37 18:40	06:52 16:54	07:27 15:28-15:58/30 16:34
9	05:38 20:50	06:07 20:22	06:41 09:00-09:02/2 19:32 18:00-18:43/43	07:15 17:35-18:10/35 18:38	06:53 16:53	07:28 15:28-15:58/30 16:34 08:37-08:40/3
10	05:39 20:50	06:08 20:20	06:42 17:58-18:44/46 19:30	07:16 17:37-18:10/33 18:37	06:54 16:52	07:29 15:29-15:58/29 16:34 08:35-08:42/7
11	05:40 20:49	06:10 20:19	06:43 17:56-18:45/49 19:28	07:17 17:38-18:08/30 18:35	06:55 16:51	07:30 15:28-15:57/29 16:34 08:35-08:44/9
12	05:40 20:49	06:11 20:17	06:44 17:55-18:46/51 19:26	07:18 17:39-18:06/27 18:33	06:57 16:49	07:31 15:29-15:58/29 16:34 08:34-08:44/10
13	05:41 20:48	06:12 20:16	06:46 17:54-18:48/54 19:25	07:19 17:40-18:04/24 18:31	06:58 16:48	07:31 15:30-15:58/28 16:35 08:34-08:46/12
14	05:42 20:48	06:13 20:14	06:47 17:53-18:50/57 19:23	07:20 17:42-18:01/19 18:30	06:59 16:47	07:32 15:31-15:59/28 16:35 08:34-08:47/13
15	05:43 20:47	06:14 20:13	06:48 17:52-18:51/59 19:21	07:22 17:46-17:58/12 18:28	07:00 15:34-15:42/8 16:47	07:33 15:31-15:59/28 16:35 08:34-08:48/14
16	05:44 20:46	06:15 20:12	06:49 17:51-18:52/61 19:19	07:23 18:27 18:27	07:02 15:31-15:44/13 16:46	07:34 15:31-15:59/28 16:35 08:34-08:48/14
17	05:44 20:46	06:16 20:10	06:50 17:49-18:51/62 19:17	07:24 18:25 18:25	07:03 15:30-15:47/17 16:45	07:34 15:32-16:00/28 16:35 08:34-08:49/15
18	05:45 20:45	06:17 20:09	06:51 17:47-18:49/62 19:16	07:25 18:23 18:23	07:04 15:29-15:48/19 16:44	07:35 15:33-16:00/27 16:36 08:35-08:50/15
19	05:46 20:44	06:18 18:14-18:15/1 20:07	06:52 17:45-18:47/62 19:14	07:26 18:22 18:22	07:05 15:27-15:49/22 16:43	07:36 15:33-16:00/27 16:36 08:35-08:50/15
20	05:47 20:43	06:19 18:13-18:17/4 20:05	06:53 17:44-18:46/62 19:12	07:28 18:20 18:20	07:07 15:27-15:50/23 16:42	07:36 15:34-16:01/27 16:37 08:35-08:51/16
21	05:48 20:43	06:20 18:13-18:19/6 20:04	06:54 17:42-18:44/62 19:10	07:29 18:19 18:19	07:08 15:25-15:51/26 16:41	07:37 15:34-16:01/27 16:37 08:35-08:51/16
22	05:49 20:42	06:22 18:13-18:20/7 20:02	06:55 17:40-18:41/61 19:08	07:30 18:17 18:17	07:09 15:25-15:51/26 16:41	07:37 15:35-16:02/27 16:37 08:36-08:52/16
23	05:50 20:41	06:23 18:12-18:21/9 20:01	06:56 17:39-18:39/60 19:07	07:31 18:15 18:15	07:10 15:25-15:53/28 16:40	07:38 15:35-16:02/27 16:38 08:36-08:52/16
24	05:51 20:40	06:24 18:12-18:23/11 19:59	06:58 17:38-18:36/58 19:05	07:32 18:14 18:14	07:12 15:24-15:53/29 16:39	07:38 15:36-16:03/27 16:39 08:37-08:53/16
25	05:52 20:39	06:25 18:12-18:24/12 19:57	06:59 17:37-18:34/57 19:03	06:34 17:12 17:12	07:13 15:24-15:53/29 16:39	07:39 15:36-16:03/27 16:39 08:38-08:53/15
26	05:53 20:38	06:26 08:46-08:54/8 19:56 18:11-18:25/14	07:00 17:37-18:33/56 19:01	06:35 17:11 17:11	07:14 15:23-15:53/30 16:38	07:39 15:36-16:03/27 16:40 08:38-08:53/15
27	05:54 20:37	06:27 08:42-08:58/16 19:54 18:11-18:26/15	07:01 17:36-18:32/56 18:59	06:36 17:10 17:10	07:15 15:24-15:55/31 16:38	07:39 15:37-16:05/28 16:40 08:39-08:54/15
28	05:55 20:36	06:28 08:40-08:59/19 19:52 18:11-18:28/17	07:02 17:35-18:30/55 18:58	06:37 17:08 17:08	07:16 15:24-15:55/31 16:37	07:40 15:37-16:05/28 16:41 08:40-08:54/14
29	05:56 20:35	06:29 08:38-09:01/23 19:51 18:11-18:29/18	07:03 17:35-18:28/53 18:56	06:39 17:07 17:07	07:18 15:24-15:55/31 16:37	07:40 15:37-16:06/29 16:42 08:41-08:54/13
30	05:57 20:34	06:30 08:37-09:02/25 19:49 18:11-18:30/19	07:04 17:34-18:25/51 18:54	06:40 17:05 17:05	07:19 15:24-15:55/31 16:36	07:40 15:38-16:06/28 16:43 08:41-08:54/13
31	05:58 20:33	06:31 08:35-09:03/28 19:47 18:11-18:31/20	06:41 17:04 17:04	06:41 17:04 17:04	16:36 16:36	07:40 15:38-16:07/29 16:43 08:42-08:53/11
Potential sun hours	465	432	376	343	293	281
Sum of minutes with flicker	0	272	1629	534	394	1190

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 02 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (2)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:41 16:44	07:25 17:21	06:47 16:28-17:23/55 17:57	06:53 17:45-17:56/11 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45	07:24 17:22	06:45 16:29-17:25/56 17:59	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46	07:23 17:23	06:44 16:28-17:25/57 18:00	06:50 19:37	06:02 20:11	05:32 20:43
4	07:41 16:47	07:22 17:25	06:42 16:27-17:25/58 18:01	06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48	07:21 17:26	06:40 16:28-17:26/58 18:02	06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49	07:20 17:27	06:39 16:27-17:26/59 18:04	06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50	07:19 17:29	06:37 16:26-17:26/60 18:05	06:43 19:41	05:56 20:16	05:31 20:45
8	07:41 16:51	07:17 17:30	06:35 16:26-17:27/61 18:06	06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52	07:16 17:31	06:33 16:25-17:27/62 18:07	06:39 19:44	05:54 20:18	05:30 20:47
10	07:40 16:53	07:15 17:33	06:32 16:24-17:27/63 18:08	06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54	07:14 17:34	06:30 16:24-17:27/63 18:10	06:36 19:46	05:51 20:20	05:30 20:48
12	07:39 16:55	07:12 17:35	06:28 16:24-17:27/63 18:11	06:34 19:47	05:50 20:22	05:30 20:48
13	07:39 16:57	07:11 17:37	06:27 16:24-17:27/63 18:12	06:32 19:48	05:49 20:23	05:29 20:49
14	07:39 16:58	07:10 17:38	06:25 16:24-17:26/62 18:13	06:31 19:50	05:48 20:24	05:29 20:49
15	07:38 16:59	07:08 17:39	06:23 16:23-17:25/62 18:14	06:29 19:51	05:47 20:25	05:29 20:50
16	07:38 17:00	07:07 16:51-17:00/9 17:41	06:21 16:24-17:26/62 18:16	06:27 19:52	05:46 20:26	05:29 20:50
17	07:37 17:01	07:05 16:45-17:04/19 17:42	06:20 16:24-17:25/61 18:17	06:26 19:53	05:45 20:27	05:29 20:51
18	07:37 17:03	07:04 16:43-17:08/25 17:43	06:18 16:24-17:24/60 18:18	06:24 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04	07:02 16:40-17:10/30 17:45	06:16 16:24-17:23/59 18:19	06:23 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05	07:01 16:38-17:12/34 17:46	06:14 16:24-17:22/58 18:20	06:21 19:56	05:42 20:30	05:30 20:52
21	07:35 17:06	06:59 16:36-17:13/37 17:47	06:13 16:26-17:22/56 18:22	06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 17:08	06:58 16:35-17:15/40 17:48	06:11 16:26-17:20/54 18:23	06:18 19:59	05:40 20:32	05:30 20:52
23	07:34 17:09	06:56 16:34-17:15/41 17:50	06:09 16:27-17:19/52 18:24	06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10	06:55 16:33-17:17/44 17:51	06:07 16:27-17:17/50 18:25	06:15 20:01	05:39 20:34	05:30 20:52
25	07:32 17:11	06:53 16:32-17:19/47 17:52	06:05 16:28-17:16/48 18:26	06:13 20:02	05:38 20:35	05:31 20:52
26	07:31 17:13	06:52 16:30-17:20/50 17:54	06:04 16:30-17:15/45 18:27	06:12 20:03	05:37 20:36	05:31 20:53
27	07:30 17:14	06:50 16:30-17:22/52 17:55	06:02 16:31-17:13/42 18:29	06:10 20:05	05:36 20:37	05:31 20:53
28	07:29 17:15	06:48 16:29-17:23/54 17:56	06:00 16:33-17:10/37 18:30	06:09 20:06	05:36 20:38	05:32 20:53
29	07:28 17:17		06:58 17:34-18:08/34 19:31	06:07 20:07	05:35 20:38	05:32 20:53
30	07:27 17:18		06:57 17:37-18:06/29 19:32	06:06 20:08	05:34 20:39	05:33 20:52
31	07:26 17:19		06:55 17:40-18:02/22 19:33		05:34 20:40	
Potential sun hours	292	294	369	401	454	459
Sum of minutes with flicker	0	482	1671	11	0	0

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 02 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (2)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	17:03-18:06/63 17:03	06:43 16:36
2	05:34 20:52	06:00 20:30	06:34 19:44	07:06 18:50	17:02-18:05/63 17:01	06:44 16:36
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	17:02-18:05/63 17:00	06:45 16:35
4	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	17:03-18:05/62 16:59	06:46 16:35
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	17:02-18:04/62 16:57	06:48 16:35
6	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:43	17:02-18:03/61 16:56	06:49 16:35
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	17:02-18:02/60 16:55	06:50 16:34
8	05:37 20:51	06:06 20:23	06:40 19:33	07:13 18:40	17:02-18:01/59 16:54	06:52 16:34
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	17:02-18:00/58 16:53	06:53 16:34
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	17:03-18:00/57 16:52	06:54 16:34
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	17:02-17:59/57 16:50	06:55 16:34
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	17:02-17:58/56 16:49	06:57 16:34
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	17:02-17:56/54 16:48	06:58 16:35
14	05:42 20:48	06:13 20:14	06:47 19:23	07:20 18:30	17:02-17:54/52 16:47	06:59 16:35
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	17:03-17:54/51 16:46	07:00 16:35
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	17:03-17:52/49 16:46	07:02 16:35
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	17:03-17:50/47 16:45	07:03 16:35
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	17:04-17:47/43 16:44	07:04 16:36
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:06-17:47/41 16:43	07:05 16:36
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:06-17:45/39 16:42	07:07 16:37
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:07-17:43/36 16:41	07:08 16:37
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:09-17:42/33 16:41	07:09 16:37
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	17:11-17:40/29 16:40	07:10 16:38
24	05:51 20:40	06:24 19:59	06:58 19:05	07:32 18:14	17:13-17:37/24 16:39	07:12 16:38
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	16:17-16:34/17 16:39	07:13 16:39
26	05:53 20:38	06:26 19:56	07:00 19:01	07:35 17:11	16:24-16:26/2 16:38	07:14 16:40
27	05:54 20:37	06:27 19:54	07:01 18:59	07:36 17:10	16:36 16:38	07:15 16:40
28	05:55 20:36	06:28 19:52	07:02 18:58	07:37 17:08	17:05-18:07/62 16:37	07:16 16:41
29	05:56 20:35	06:29 19:51	07:03 18:56	07:39 17:07	17:04-18:07/63 16:37	07:18 16:42
30	05:57 20:34	06:30 19:49	07:04 18:54	07:40 17:05	17:04-18:06/62 16:36	07:19 16:43
31	05:58 20:33	06:31 19:47		06:41 17:04		07:40 16:43
Potential sun hours	465	432	376	343	293	281
Sum of minutes with flicker	0	0	952	1238	0	115

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 03 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (7)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:41 16:44	07:25 16:07-16:26/19 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45	07:24 16:06-16:30/24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46	07:23 16:06-16:34/28 17:23	06:44 18:00	06:50 19:37	06:02 20:11	05:32 20:43
4	07:41 16:47	07:22 16:05-16:36/31 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48	07:21 16:05-16:37/32 17:26	06:40 16:59-17:10/11 18:02	06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49	07:20 16:04-16:36/32 17:27	06:39 16:55-17:13/18 18:04	06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50	07:19 16:04-16:37/33 17:29	06:37 16:53-17:14/21 18:05	06:43 19:41	05:56 20:16	05:31 20:45
8	07:41 16:51	07:17 16:04-16:38/34 17:30	06:35 16:52-17:16/24 18:06	06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52	07:16 16:05-16:38/33 17:31	06:34 16:50-17:17/27 18:07	06:39 19:44	05:54 20:18	05:30 20:47
10	07:40 16:53	07:15 16:04-16:38/34 17:33	06:32 16:49-17:17/28 18:08	06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54	07:14 16:04-16:38/34 17:34	06:30 16:48-17:17/29 18:10	06:36 19:46	05:51 20:20	05:30 20:48
12	07:40 16:55	07:12 16:05-16:38/33 17:35	06:28 16:48-17:18/30 18:11	06:34 19:47	05:50 20:22	05:30 20:48
13	07:39 16:57	07:11 16:05-16:37/32 17:37	06:27 16:47-17:18/31 18:12	06:32 19:48	05:49 20:23	05:29 20:49
14	07:39 16:58	07:10 16:06-16:37/31 17:38	06:25 16:46-17:18/32 18:13	06:31 19:50	05:48 20:24	05:29 20:49
15	07:38 16:59	07:08 16:06-16:36/30 17:39	06:23 16:46-17:17/31 18:14	06:29 19:51	05:47 20:25	05:29 20:50
16	07:38 17:00	07:07 16:07-16:36/29 17:41	06:21 16:47-17:18/31 18:16	06:27 19:52	05:46 20:26	05:29 20:50
17	07:37 17:01	07:05 16:08-16:34/26 17:42	06:20 16:46-17:17/31 18:17	06:26 19:53	05:45 20:27	05:29 20:51
18	07:37 17:03	07:04 16:09-16:34/25 17:43	06:18 16:47-17:16/29 18:18	06:24 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04	07:02 16:10-16:32/22 17:45	06:16 16:47-17:15/28 18:19	06:23 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05	07:01 16:13-16:30/17 17:46	06:14 16:47-17:13/26 18:20	06:21 19:56	05:42 20:30	05:30 20:52
21	07:35 17:06	06:59 16:16-16:26/10 17:47	06:13 16:49-17:12/23 18:22	06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 17:07	06:58 17:48	06:11 16:50-17:10/20 18:23	06:18 19:59	05:40 20:32	05:30 20:52
23	07:34 17:09	06:56 17:50	06:09 16:52-17:08/16 18:24	06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10	06:55 17:51	06:07 16:56-17:03/7 18:25	06:15 20:01	05:39 20:34	05:30 20:52
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:52
26	07:31 17:13	06:52 17:54	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:53
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:53
28	07:29 16:13-16:15/2 17:15	06:49 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53
29	07:28 16:10-16:18/8 17:17		06:58 19:31	06:07 20:07	05:35 20:38	05:32 20:53
30	07:27 16:09-16:21/12 17:18		06:57 19:32	06:06 20:08	05:34 20:39	05:33 20:52
31	07:26 16:08-16:24/16 17:19		06:55 19:33		05:34 20:40	
Potential sun hours	292	294	369	401	454	459
Sum of minutes with flicker	38	589	493	0	0	0

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 03 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (7)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 17:26-17:57/31 18:52	06:43 15:34-16:07/33 17:03	07:20 16:36
2	05:34 20:52	06:00 20:30	06:34 19:44	07:06 17:26-17:56/30 18:50	06:44 15:33-16:07/34 17:01	07:21 16:36
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 17:26-17:55/29 18:49	06:45 15:34-16:07/33 17:00	07:22 16:35
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 17:27-17:55/28 18:47	06:46 15:34-16:07/33 16:59	07:23 16:35
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 17:28-17:54/26 18:45	06:48 15:34-16:06/32 16:57	07:24 16:35
6	05:36 20:51	06:04 20:25	06:38 19:37	07:11 17:29-17:52/23 18:43	06:49 15:35-16:06/31 16:56	07:25 16:35
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 17:30-17:50/20 18:42	06:50 15:35-16:05/30 16:55	07:26 16:34
8	05:37 20:51	06:06 20:23	06:40 19:33	07:13 17:32-17:47/15 18:40	06:52 15:37-16:05/28 16:54	07:27 16:34
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 17:35-17:42/7 18:38	06:53 15:37-16:00/23 16:53	07:28 16:34
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	06:54 15:38-15:57/19 16:52	07:29 16:34
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 15:40-15:55/15 16:50	07:30 16:34
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 15:41-15:53/12 16:49	07:31 16:34
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	06:58 15:42-15:50/8 16:48	07:31 08:52-08:53/1 16:35
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	06:59 15:46-15:48/2 16:47	07:32 08:50-08:56/6 16:35
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	07:00 16:46	07:33 08:49-08:58/9 16:35
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	07:02 16:46	07:34 08:48-08:59/11 16:35
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	07:03 16:45	07:34 08:48-09:00/12 16:35
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	07:04 16:44	07:35 08:49-09:01/12 16:36
19	05:46 20:44	06:18 20:07	06:52 17:45-17:49/4 19:14	07:26 18:22	07:06 16:43	07:36 08:48-09:02/14 16:36
20	05:47 20:43	06:19 20:05	06:53 17:39-17:53/14 19:12	07:28 18:20	07:07 16:42	07:36 08:49-09:03/14 16:36
21	05:48 20:43	06:20 20:04	06:54 17:36-17:55/19 19:10	07:29 16:45-16:58/13 18:19	07:08 16:41	07:37 08:49-09:03/14 16:37
22	05:49 20:42	06:22 20:02	06:55 17:34-17:56/22 19:08	07:30 16:43-17:01/18 18:17	07:09 16:41	07:37 08:50-09:04/14 16:37
23	05:50 20:41	06:23 20:01	06:56 17:32-17:57/25 19:07	07:31 16:40-17:03/23 18:15	07:10 16:40	07:38 08:50-09:04/14 16:38
24	05:51 20:40	06:24 19:59	06:58 17:31-17:58/27 19:05	07:33 16:38-17:04/26 18:14	07:12 16:39	07:38 08:51-09:05/14 16:38
25	05:52 20:39	06:25 19:57	06:59 17:29-17:58/29 19:03	06:34 15:38-16:05/27 17:12	07:13 16:39	07:39 08:52-09:04/12 16:39
26	05:53 20:38	06:26 19:56	07:00 17:28-17:58/30 19:01	06:35 15:36-16:06/30 17:11	07:14 16:38	07:39 08:52-09:04/12 16:40
27	05:54 20:37	06:27 19:54	07:01 17:28-17:59/31 18:59	06:36 15:35-16:06/31 17:10	07:15 16:38	07:40 08:54-09:05/11 16:40
28	05:55 20:36	06:28 19:52	07:02 17:27-17:59/32 18:58	06:38 15:35-16:07/32 17:08	07:16 16:37	07:40 08:55-09:04/9 16:41
29	05:56 20:35	06:29 19:51	07:03 17:27-17:58/31 18:56	06:39 15:34-16:07/33 17:07	07:18 16:37	07:40 08:56-09:04/8 16:42
30	05:57 20:34	06:30 19:49	07:04 17:26-17:58/32 18:54	06:40 15:34-16:07/33 17:05	07:19 16:36	07:40 08:58-09:02/4 16:43
31	05:58 20:33	06:31 19:47		06:41 15:34-16:08/34 17:04		07:41 16:43
Potential sun hours	465	432	376	343	293	281
Sum of minutes with flicker	0	0	296	509	333	191

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 04 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (10)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 18:28-18:52/24 19:34 08:01-08:48/47	06:04 08:12-08:50/38 20:09	05:33 20:41
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 18:28-18:51/23 19:36 07:57-08:48/51	06:03 08:14-08:49/35 20:10	05:33 20:42
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 18:30-18:50/20 19:37 07:56-08:48/52	06:02 08:15-08:49/34 20:11	05:32 20:43
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 18:30-18:47/17 19:38 07:55-08:48/53	06:00 08:17-08:49/32 20:13	05:32 20:43
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 18:32-18:45/13 19:39 07:54-08:47/53	05:59 08:17-08:48/31 20:14	05:31 20:44
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 18:35-18:42/7 19:40 07:52-08:47/55	05:58 08:19-08:48/29 20:15	05:31 20:45
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 07:51-08:48/57 19:41	05:56 08:20-08:47/27 20:16	05:31 20:45
8	07:41 16:51	07:17 17:30	06:35 18:06	06:41 07:50-08:49/59 19:43	05:55 08:22-08:47/25 20:17	05:30 20:46
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 07:49-08:49/60 19:44	05:54 08:22-08:45/23 20:18	05:30 20:47
10	07:40 16:53	07:15 17:33	06:32 18:08	06:37 07:48-08:50/62 19:45	05:53 08:24-08:45/21 20:19	05:30 20:47
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 07:47-08:50/63 19:46	05:52 08:25-08:44/19 20:20	05:30 20:48
12	07:40 16:55	07:12 17:35	06:28 18:11	06:34 07:47-08:50/63 19:47	05:50 08:26-08:44/18 20:22	05:30 20:48
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 07:49-08:51/62 19:48	05:49 08:28-08:43/15 20:23	05:29 20:49
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 07:50-08:50/60 19:50	05:48 08:29-08:43/14 20:24	05:29 20:49
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 07:51-08:50/59 19:51	05:47 08:30-08:42/12 20:25	05:29 20:50
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 07:53-08:51/58 19:52	05:46 08:31-08:41/10 20:26	05:29 20:50
17	07:37 17:01	07:05 17:42	06:20 17:35-17:43/8 18:17	06:26 07:54-08:51/57 19:53	05:45 08:32-08:40/8 20:27	05:29 20:51
18	07:37 17:03	07:04 17:43	06:18 17:31-17:46/15 18:18	06:24 07:55-08:52/57 19:54	05:44 08:34-08:39/5 20:28	05:29 20:51
19	07:36 17:04	07:03 17:45	06:16 17:29-17:47/18 18:19	06:23 07:56-08:51/55 19:55	05:43 08:35-08:39/4 20:29	05:30 20:51
20	07:36 17:05	07:01 17:46	06:14 17:27-17:47/20 18:20	06:21 07:57-08:51/54 19:57	05:42 08:36-08:38/2 20:30	05:30 20:52
21	07:35 17:06	07:00 17:47	06:13 17:27-17:49/22 18:22 07:22-07:32/10	06:19 07:59-08:52/53 19:58	05:41 20:31	05:30 20:52
22	07:34 17:08	06:58 17:48	06:11 17:26-17:50/24 18:23 07:16-07:37/21	06:18 08:00-08:52/52 19:59	05:40 20:32	05:30 20:52
23	07:34 17:09	06:56 17:50	06:09 17:25-17:52/27 18:24 07:14-07:40/26	06:16 08:02-08:52/50 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10	06:55 17:51	06:07 17:24-17:53/29 18:25 07:13-07:41/28	06:15 08:03-08:51/48 20:01	05:39 20:34	05:31 20:52
25	07:32 17:11	06:53 17:52	06:05 17:24-17:53/29 18:26 07:13-07:44/31	06:13 08:04-08:52/48 20:02	05:38 20:35	05:31 20:52
26	07:31 17:13	06:52 17:54	06:04 17:25-17:54/29 18:27 07:11-07:45/34	06:12 08:05-08:51/46 20:03	05:37 20:36	05:31 20:53
27	07:30 17:14	06:50 17:55	06:02 17:25-17:54/29 18:29 07:09-07:45/36	06:10 08:07-08:51/44 20:05	05:36 20:37	05:31 20:53
28	07:29 17:15	06:49 17:56	06:00 17:25-17:54/29 18:30 07:08-07:46/38	06:09 08:09-08:51/42 20:06	05:36 20:38	05:32 20:53
29	07:28 17:17		06:58 18:26-18:54/28 19:31 08:06-08:46/40	06:07 08:09-08:51/42 20:07	05:35 20:39	05:32 20:53
30	07:27 17:18		06:57 18:28-18:54/26 19:32 08:06-08:48/42	06:06 08:11-08:51/40 20:08	05:34 20:39	05:33 20:52
31	07:26 17:19		06:55 18:28-18:53/25 19:33 08:05-08:48/43		05:34 20:40	
Potential sun hours	292	294	369	401	454	459
Sum of minutes with flicker	0	0	707	1706	402	0

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 04 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (10)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	05:33 20:52	05:59 08:36-08:55/19 20:32	06:32 07:46-08:49/63 19:46	07:05 18:52	06:43 17:03	07:20 16:36
2	05:34 20:52	06:00 08:35-08:55/20 20:30	06:34 07:46-08:48/62 19:44	07:07 18:50	06:44 17:01	07:21 16:36
3	05:34 20:52	06:01 08:34-08:56/22 20:29	06:35 07:47-08:47/60 19:42	07:08 18:49	06:45 17:00	07:22 16:35
4	05:35 20:52	06:02 08:32-08:56/24 20:28	06:36 07:47-08:46/59 19:41	07:09 18:47	06:46 16:59	07:23 16:35
5	05:35 20:52	06:03 08:31-08:57/26 20:27	06:37 07:47-08:45/58 19:39	07:10 18:45	06:48 16:57	07:24 16:35
6	05:36 20:51	06:04 08:29-08:57/28 20:26	06:38 18:31-18:37/6 19:37 07:48-08:43/55	07:11 18:43	06:49 16:56	07:25 16:35
7	05:37 20:51	06:05 08:28-08:57/29 20:24	06:39 18:27-18:40/13 19:35 07:49-08:42/53	07:12 18:42	06:50 16:55	07:26 16:35
8	05:37 20:51	06:06 08:26-08:58/32 20:23	06:40 18:25-18:41/16 19:34 07:49-08:42/53	07:13 18:40	06:52 16:54	07:27 16:34
9	05:38 20:50	06:07 08:25-08:58/33 20:22	06:41 18:23-18:43/20 19:32 07:49-08:41/52	07:15 18:38	06:53 16:53	07:28 16:34
10	05:39 20:50	06:08 08:23-08:58/35 20:20	06:42 18:21-18:44/23 19:30 07:50-08:41/51	07:16 18:37	06:54 16:52	07:29 16:34
11	05:40 20:49	06:10 08:22-08:58/36 20:19	06:43 18:20-18:44/24 19:28 07:54-08:41/47	07:17 18:35	06:55 16:51	07:30 16:34
12	05:40 20:49	06:11 08:20-08:58/38 20:17	06:44 18:19-18:44/25 19:26 07:57-08:40/43	07:18 18:33	06:57 16:49	07:31 16:34
13	05:41 20:48	06:12 08:18-08:58/40 20:16	06:46 18:19-18:45/26 19:25 07:57-08:39/42	07:19 18:32	06:58 16:48	07:31 16:35
14	05:42 20:48	06:13 08:17-08:58/41 20:15	06:47 18:17-18:45/28 19:23 07:58-08:38/40	07:20 18:30	06:59 16:47	07:32 16:35
15	05:43 20:47	06:14 08:15-08:58/43 20:13	06:48 18:16-18:44/28 19:21 07:58-08:36/38	07:22 18:28	07:00 16:47	07:33 16:35
16	05:44 20:46	06:15 08:13-08:58/45 20:12	06:49 18:14-18:44/30 19:19 07:59-08:35/36	07:23 18:27	07:02 16:46	07:34 16:35
17	05:44 20:46	06:16 08:12-08:58/46 20:10	06:50 18:13-18:43/30 19:17 07:59-08:33/34	07:24 18:25	07:03 16:45	07:34 16:35
18	05:45 20:45	06:17 08:10-08:58/48 20:09	06:51 18:12-18:42/30 19:16 08:00-08:31/31	07:25 18:23	07:04 16:44	07:35 16:36
19	05:46 20:44	06:18 08:09-08:57/48 20:07	06:52 18:12-18:40/28 19:14 08:00-08:29/29	07:26 18:22	07:06 16:43	07:36 16:36
20	05:47 20:43	06:19 08:07-08:58/51 20:05	06:53 18:11-18:39/28 19:12 08:00-08:27/27	07:28 18:20	07:07 16:42	07:36 16:37
21	05:48 20:43	06:20 08:06-08:57/51 20:04	06:54 18:11-18:36/25 19:10 08:00-08:23/23	07:29 18:19	07:08 16:41	07:37 16:37
22	05:49 20:42	06:22 08:04-08:57/53 20:02	06:55 18:11-18:33/22 19:08 08:04-08:19/15	07:30 18:17	07:09 16:41	07:37 16:37
23	05:50 08:47-08:48/1 20:41	06:23 08:02-08:56/54 20:01	06:56 18:12-18:32/20 19:07	07:31 18:16	07:10 16:40	07:38 16:38
24	05:51 08:46-08:49/3 20:40	06:24 08:00-08:55/55 19:59	06:58 18:12-18:31/19 19:05	07:33 18:14	07:12 16:39	07:38 16:39
25	05:52 08:45-08:50/5 20:39	06:25 07:58-08:54/56 19:57	06:59 18:13-18:29/16 19:03	06:34 17:12	07:13 16:39	07:39 16:39
26	05:53 08:44-08:50/6 20:38	06:26 07:56-08:53/57 19:56	07:00 18:15-18:26/11 19:01	06:35 17:11	07:14 16:38	07:39 16:40
27	05:54 08:43-08:51/8 20:37	06:27 07:54-08:52/58 19:54	07:01 18:59	06:36 17:10	07:15 16:38	07:40 16:40
28	05:55 08:41-08:52/11 20:36	06:28 07:52-08:52/60 19:52	07:02 18:58	06:38 17:08	07:16 16:37	07:40 16:41
29	05:56 08:40-08:53/13 20:35	06:29 07:50-08:51/61 19:51	07:03 18:56	06:39 17:07	07:18 16:37	07:40 16:42
30	05:57 08:39-08:53/14 20:34	06:30 07:49-08:51/62 19:49	07:04 18:54	06:40 17:05	07:19 16:36	07:40 16:43
31	05:58 08:38-08:54/16 20:33	06:31 07:47-08:50/63 19:47		06:41 17:04		07:41 16:43
Potential sun hours	465	432	376	343	293	281
Sum of minutes with flicker	77	1334	1439	0	0	0

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 05 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (9)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:12	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:35
8	07:41 16:51	07:17 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	05:51 20:20	05:30 20:48	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 16:51	07:30 16:34
12	07:40 16:55	07:12 17:35	06:28 18:11	06:34 19:47	05:50 20:22	05:30 20:48	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	07:31 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	05:49 20:23	05:29 20:49	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:32	06:58 16:48	07:31 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	05:48 20:24	05:29 20:49	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	17:26-17:30/4 06:59	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	17:23-17:34/11 07:01	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	17:21-17:35/14 07:02	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	17:19-17:36/17 07:03	07:34 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	17:18-17:36/18 07:04	07:35 16:36
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55	05:43 20:29	05:30 20:51	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:18-17:37/19 07:06	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:57	05:42 20:30	05:30 20:52	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:17-17:36/19 07:07	07:36 16:37
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:17-17:35/18 07:08	07:37 16:37
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:17-17:34/17 07:09	07:37 16:37
23	07:34 17:09	06:56 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:16	17:17-17:33/16 07:10	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	05:39 20:34	05:30 20:52	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	17:18-17:31/13 07:12	07:38 16:39
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:53	05:52 20:39	06:25 19:57	06:59 19:03	06:34 17:12	16:19-16:31/12 07:13	07:39 16:39
26	07:31 17:13	06:52 17:54	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:53	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	16:20-16:30/10 07:14	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:53	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:10	16:22-16:29/7 07:15	07:40 16:40
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53	05:55 20:36	06:28 19:53	07:02 18:58	06:38 17:08	07:16 16:37	07:40 16:41
29	07:28 17:17		06:58 19:31	06:07 20:07	06:07 20:39	05:35 20:53	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	07:18 16:37	07:40 16:42
30	07:27 17:18		06:57 19:32	06:06 20:08	06:06 20:39	05:34 20:53	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05	07:19 16:36	07:40 16:43
31	07:27 17:19		06:55 19:33		05:34 20:40		05:58 20:33	06:31 19:47		06:41 17:04		07:41 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	343	195	293
Sum of minutes with flicker	0	191	0	0	0	0	0	0	0	0	0	0

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 06 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (8)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:41 11:53-14:34/161 16:44	07:25 13:39-14:26/47 17:21 12:14-13:38/84	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41
2	07:41 11:54-14:34/160 16:45	07:24 13:42-14:24/42 17:22 12:16-13:37/81	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 11:54-14:34/160 16:46	07:23 13:44-14:23/39 17:23 12:18-13:36/78	06:44 18:00	06:50 19:37	06:02 20:12	05:32 20:43
4	07:41 11:55-14:34/159 16:47	07:22 13:48-14:20/32 17:25 12:19-13:35/76	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 11:56-14:34/158 16:48	07:21 13:52-14:17/25 17:26 12:22-13:34/72	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 11:56-14:34/158 16:49	07:20 13:57-14:12/15 17:27 12:23-13:31/68	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 11:57-14:34/157 16:50	07:19 12:26-13:29/63 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45
8	07:41 11:58-14:34/156 16:51	07:18 12:29-13:26/57 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 11:57-14:33/156 16:52	07:16 12:33-13:22/49 17:31	06:34 18:07	06:39 19:44	05:54 20:18	05:30 20:47
10	07:40 11:58-14:33/155 16:53	07:15 12:37-13:15/38 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 11:59-14:33/154 16:54	07:14 12:45-13:04/19 17:34	06:30 18:10	06:36 19:46	05:51 20:21	05:30 20:48
12	07:40 11:59-14:33/154 16:55	07:12 12:45-13:04/19 17:35	06:28 18:11	06:34 19:47	05:50 20:22	05:30 20:48
13	07:39 12:00-14:33/153 16:57	07:11 12:45-13:04/19 17:37	06:27 18:12	06:32 19:48	05:49 20:23	05:29 20:49
14	07:39 12:00-14:33/153 16:58	07:10 12:45-13:04/19 17:38	06:25 18:13	06:31 19:50	05:48 20:24	05:29 20:49
15	07:38 12:01-14:34/153 16:59	07:08 12:45-13:04/19 17:39	06:23 18:15	06:29 19:51	05:47 20:25	05:29 20:50
16	07:38 12:01-14:33/152 17:00	07:07 12:45-13:04/19 17:41	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50
17	07:37 12:01-14:33/152 17:01	07:05 12:45-13:04/19 17:42	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51
18	07:37 12:02-14:34/152 17:03	07:04 12:45-13:04/19 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51
19	07:36 12:03-14:33/150 17:04	07:03 12:45-13:04/19 17:45	06:16 18:19	06:23 19:55	05:43 20:29	05:29 20:51
20	07:36 12:03-14:33/150 17:05	07:01 12:45-13:04/19 17:46	06:14 18:20	06:21 19:57	05:42 20:30	05:30 20:52
21	07:35 12:04-14:33/149 17:06	07:00 12:45-13:04/19 17:47	06:13 18:22	06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 12:05-14:33/148 17:08	06:58 12:45-13:04/19 17:48	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52
23	07:34 12:05-14:33/148 17:09	06:56 12:45-13:04/19 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 12:06-14:32/146 17:10	06:55 12:45-13:04/19 17:51	06:07 18:25	06:15 20:01	05:39 20:34	05:30 20:52
25	07:32 12:07-14:32/145 17:11	06:53 12:45-13:04/19 17:52	06:05 17:24-17:25/1 18:26	06:13 20:02	05:38 20:35	05:31 20:53
26	07:31 12:07-14:31/144 17:13	06:52 12:45-13:04/19 17:54	06:04 17:25-17:26/1 18:27	06:12 20:03	05:37 20:36	05:31 20:53
27	07:30 12:09-14:31/142 17:14	06:50 12:45-13:04/19 17:55	06:02 17:25-17:26/1 18:29	06:10 20:05	05:36 20:37	05:31 20:53
28	07:29 12:10-14:31/141 17:15	06:49 12:45-13:04/19 17:56	06:00 17:25-17:27/2 18:30	06:09 20:06	05:36 20:38	05:32 20:53
29	07:28 12:11-14:30/139 17:17	06:48 12:45-13:04/19 17:57	06:58 18:26-18:27/1 19:31	06:07 20:07	05:35 20:39	05:32 20:53
30	07:28 12:12-14:29/137 17:18	06:47 12:45-13:04/19 17:58	06:57 18:26-18:27/1 19:32	06:06 20:08	05:34 20:39	05:33 20:53
31	07:27 12:13-14:27/134 17:19	06:46 12:45-13:04/19 17:59	06:55 18:26-18:27/1 19:33	06:05 20:09	05:34 20:40	05:33 20:53
Potential sun hours	292	294	369	401	454	459
Sum of minutes with flicker	4676	885	6	0	0	0

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 06 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (8)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 12:06-12:47/41 17:03	07:20 11:41-14:15/154 16:36
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 12:01-12:52/51 17:01	07:21 11:41-14:16/155 16:36
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 11:58-12:56/58 17:00	07:22 11:41-14:17/156 16:35
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 11:55-12:59/64 16:59	07:23 11:42-14:18/156 16:35
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 13:27-13:43/16 16:57 11:54-13:02/68	07:24 11:42-14:19/157 16:35
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 13:21-13:48/27 16:56 11:51-13:04/73	07:25 11:42-14:20/158 16:35
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 13:17-13:51/34 16:55 11:49-13:05/76	07:26 11:43-14:21/158 16:34
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 13:15-13:54/39 16:54 11:48-13:07/79	07:27 11:43-14:22/159 16:34
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	06:53 13:12-13:55/43 16:53 11:47-13:08/81	07:28 11:43-14:23/160 16:34
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	06:54 13:10-13:57/47 16:52 11:45-13:09/84	07:29 11:44-14:24/160 16:34
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 11:45-13:59/134 16:51	07:30 11:45-14:25/160 16:34
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 11:43-14:00/137 16:49	07:31 11:44-14:24/160 16:34
13	05:41 20:48	06:12 20:16	06:46 18:19-18:20/1 19:25	07:19 18:32	06:58 11:42-14:01/139 16:48	07:31 11:45-14:25/160 16:35
14	05:42 20:48	06:13 20:15	06:47 18:17-18:18/1 19:23	07:20 18:30	06:59 11:42-14:03/141 16:47	07:32 11:45-14:26/161 16:35
15	05:43 20:47	06:14 20:13	06:48 18:15-18:17/2 19:21	07:22 18:28	07:01 11:41-14:03/142 16:46	07:33 11:46-14:27/161 16:35
16	05:44 20:46	06:15 20:12	06:49 18:14-18:16/2 19:19	07:23 18:27	07:02 11:41-14:05/144 16:46	07:34 11:46-14:27/161 16:35
17	05:44 20:46	06:16 20:10	06:50 18:13-18:15/2 19:17	07:24 18:25	07:03 11:41-14:06/145 16:45	07:34 11:47-14:28/161 16:35
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	07:04 11:40-14:06/146 16:44	07:35 11:47-14:29/162 16:36
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	07:06 11:40-14:08/148 16:43	07:36 11:47-14:29/162 16:36
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	07:07 11:40-14:08/148 16:42	07:36 11:48-14:30/162 16:37
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	07:08 11:39-14:08/149 16:41	07:37 11:48-14:30/162 16:37
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	07:09 11:40-14:10/150 16:41	07:37 11:49-14:31/162 16:37
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	07:11 11:40-14:10/150 16:40	07:38 11:49-14:31/162 16:38
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	07:12 11:39-14:11/152 16:39	07:38 11:50-14:32/162 16:39
25	05:52 20:39	06:25 19:57	06:59 19:03	06:34 17:12	07:13 11:39-14:11/152 16:39	07:39 11:50-14:32/162 16:39
26	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	07:14 11:40-14:12/152 16:38	07:39 11:51-14:32/161 16:40
27	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:10	07:15 11:40-14:13/153 16:38	07:40 11:52-14:33/161 16:40
28	05:55 20:36	06:28 19:53	07:02 18:58	06:38 17:08	07:16 11:40-14:13/153 16:37	07:40 11:52-14:33/161 16:41
29	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	07:18 11:40-14:13/153 16:37	07:40 11:52-14:33/161 16:42
30	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05	07:19 11:40-14:14/154 16:36	07:40 11:53-14:33/160 16:43
31	05:58 20:33	06:31 19:47		06:41 12:13-12:38/25 17:04		07:41 11:53-14:33/160 16:43
Potential sun hours	465	432	376	343	293	281
Sum of minutes with flicker	0	0	8	25	3823	4957

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 07 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (4)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:45	07:26 17:21	06:47 16:38-17:08/30 17:57	06:53 19:35	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:33 19:46	07:05 18:52	06:43 16:06-16:26/20 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 16:38-17:06/28 17:59	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:31	06:34 19:44	07:07 18:51	06:44 16:07-16:25/18 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 16:38-17:05/27 18:00	06:50 19:37	06:02 20:12	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 16:09-16:24/15 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 16:40-17:02/22 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:47 16:10-16:21/11 17:00	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 16:40-17:00/20 18:02	06:46 19:39	05:59 20:14	05:31 20:44	05:36 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:15-16:18/3 17:00	07:24 16:35
6	07:41 16:49	07:20 16:43-16:48/5 17:27	06:39 16:42-16:58/16 18:04	06:44 19:40	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:26	06:38 19:37	07:11 17:25-17:27/2 18:44	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 16:40-16:52/12 17:29	06:37 16:45-16:54/9 18:05	06:43 19:42	05:56 20:16	05:31 20:46	05:37 20:51	06:05 20:24	06:39 19:35	07:12 17:19-17:32/13 18:42	06:50 16:55	07:26 16:35
8	07:41 16:51	07:18 16:39-16:54/15 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:34	07:13 17:16-17:34/18 18:40	06:52 16:54	07:27 16:34
9	07:40 16:52	07:16 16:38-16:56/18 17:31	06:34 18:07	06:39 19:44	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:22	06:41 19:32	07:15 17:14-17:36/22 18:38	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 16:36-16:57/21 17:33	06:32 18:09	06:38 19:45	05:53 20:19	05:30 20:47	05:39 20:50	06:09 20:20	06:42 19:30	07:16 17:13-17:38/25 18:37	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 16:36-16:59/23 17:34	06:30 18:10	06:36 19:46	05:52 20:21	05:30 20:48	05:40 20:49	06:10 20:19	06:43 19:28	07:17 17:12-17:40/28 18:35	06:55 16:51	07:30 16:34
12	07:40 16:56	07:12 16:36-17:00/24 17:35	06:28 18:11	06:34 19:47	05:50 20:22	05:30 20:49	05:40 20:49	06:11 20:17	06:45 19:26	07:18 17:11-17:40/29 18:33	06:57 16:50	07:31 16:35
13	07:39 16:57	07:11 16:35-17:01/26 17:37	06:27 18:12	06:32 19:48	05:49 20:23	05:30 20:49	05:41 20:48	06:12 20:16	06:46 19:25	07:19 17:10-17:41/31 18:32	06:58 16:49	07:32 16:35
14	07:39 16:58	07:10 16:35-17:02/27 17:38	06:25 18:13	06:31 19:50	05:48 20:24	05:29 20:50	05:42 20:48	06:13 20:15	06:47 19:23	07:20 17:10-17:42/32 18:30	06:59 16:48	07:32 16:35
15	07:38 16:59	07:08 16:34-17:03/29 17:39	06:23 18:15	06:29 19:51	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	07:22 17:09-17:42/33 18:28	07:01 16:47	07:33 16:35
16	07:38 17:00	07:07 16:35-17:04/29 17:41	06:21 18:16	06:28 19:52	05:46 20:26	05:29 20:50	05:44 20:46	06:15 20:12	06:49 19:19	07:23 17:08-17:41/33 18:27	07:02 16:46	07:34 16:35
17	07:37 17:01	07:05 16:35-17:04/29 17:42	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	07:24 17:07-17:41/34 18:25	07:03 16:45	07:35 16:35
18	07:37 17:03	07:04 16:36-17:06/30 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:09	06:51 19:16	07:25 17:07-17:41/34 18:23	07:04 16:44	07:35 16:36
19	07:36 17:04	07:03 16:36-17:06/30 17:45	06:16 18:19	06:23 19:55	05:43 20:29	05:30 20:51	05:46 20:44	06:18 20:07	06:52 19:14	07:26 17:07-17:41/34 18:22	07:06 16:43	07:36 16:36
20	07:36 17:05	07:01 16:37-17:08/31 17:46	06:14 18:21	06:21 19:57	05:42 20:30	05:30 20:52	05:47 20:44	06:19 20:06	06:53 19:12	07:28 17:06-17:40/34 18:20	07:07 16:42	07:36 16:37
21	07:35 17:06	07:00 16:36-17:08/32 17:47	06:13 18:22	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:21 20:04	06:54 19:10	07:29 17:06-17:38/32 18:19	07:08 16:41	07:37 16:37
22	07:34 17:08	06:58 16:36-17:09/33 17:49	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:22 20:02	06:55 19:08	07:30 17:07-17:38/31 18:17	07:09 16:41	07:38 16:37
23	07:34 17:09	06:57 16:35-17:09/34 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:57 19:07	07:31 17:06-17:37/31 18:16	07:11 16:40	07:38 16:38
24	07:33 17:10	06:55 16:36-17:10/34 17:51	06:07 18:25	06:15 20:01	05:39 20:34	05:31 20:52	05:51 20:40	06:24 19:59	06:58 19:05	07:33 17:05-17:35/30 18:14	07:12 16:39	07:38 16:39
25	07:32 17:11	06:53 16:35-17:10/35 17:52	06:06 18:26	06:13 20:02	05:38 20:35	05:31 20:53	05:52 20:39	06:25 19:58	06:59 19:03	06:34 16:05-16:35/30 17:13	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 16:35-17:09/34 17:54	06:04 18:28	06:12 20:04	05:37 20:36	05:31 20:53	05:53 20:38	06:26 19:56	07:00 19:01	06:35 16:05-16:34/29 17:11	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 16:36-17:09/33 17:55	06:02 18:29	06:10 20:05	05:36 20:37	05:32 20:53	05:54 20:37	06:27 19:54	07:01 18:59	06:36 16:04-16:32/28 17:10	07:15 16:38	07:40 16:40
28	07:29 17:15	06:49 16:37-17:08/31 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53	05:55 20:36	06:28 19:53	07:02 18:58	06:38 16:05-16:32/27 17:08	07:17 16:37	07:40 16:41
29	07:29 17:17	17:57	06:58 19:31	06:07 20:07	05:35 20:39	05:32 20:53	05:56 20:35	06:29 19:51	07:03 18:56	06:39 16:04-16:30/26 17:07	07:18 16:37	07:40 16:42
30	07:28 17:18	17:58	06:57 19:32	06:06 20:08	05:34 20:39	05:33 20:53	05:57 20:34	06:30 19:49	07:04 18:54	06:40 16:04-16:29/25 17:05	07:19 16:36	07:40 16:43
31	07:27 17:19	17:59	06:55 19:33	06:05 20:40	05:34 20:40	05:33 20:53	05:58 20:33	06:31 19:48	07:04 17:04	06:41 16:06-16:28/22 17:04	07:19 16:43	07:41 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	343	293	281
Sum of minutes with flicker	0	615	152	0	0	0	0	0	0	713	67	0

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 08 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (6)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December					
1	07:41 16:44	07:26 17:21	06:47 17:57	06:53 19:35	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:33 19:46	18:16-18:33/17	07:05 18:52	06:43 17:03	07:20 16:36				
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:31	06:34 19:44	18:17-18:34/17	07:07 18:51	06:44 17:01	07:21 16:36				
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:12	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	18:17-18:35/18	07:08 18:49	06:45 17:00	07:22 16:35				
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:41	18:18-18:34/16	07:09 18:47	06:47 16:59	07:23 16:35				
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	18:30-18:32/2	05:59 20:14	05:31 20:44	06:03 20:27	06:37 19:39	18:19-18:32/13	07:10 18:45	06:48 16:57	07:24 16:35				
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	18:25-18:32/7	05:58 20:15	05:31 20:45	06:04 20:26	06:38 19:37	18:21-18:28/7	07:11 18:44	06:49 16:56	07:25 16:35				
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:42	18:23-18:36/13	05:56 20:16	05:31 20:46	06:05 20:24	06:39 19:35	18:25-18:27/2	07:12 18:42	06:50 16:55	07:26 16:35				
8	07:41 16:51	07:18 17:30	06:35 18:06	06:41 19:43	18:21-18:37/16	05:55 20:17	05:30 20:46	06:06 20:23	06:40 19:34		07:13 18:40	06:52 16:54	07:27 16:34				
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	18:19-18:37/18	05:54 20:18	05:30 20:47	06:07 20:22	06:41 19:32		07:15 18:38	06:53 16:53	07:28 16:34				
10	07:40 16:53	07:15 17:33	06:32 18:09	06:38 19:45	18:19-18:36/17	05:53 20:19	05:30 20:47	06:09 20:20	06:42 19:30		07:16 18:37	06:54 16:52	07:29 16:34				
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	18:17-18:34/17	05:52 20:21	05:30 20:48	06:10 20:19	06:43 19:28		07:17 18:35	06:55 16:51	07:30 16:34				
12	07:40 16:55	07:12 17:35	06:28 18:11	06:34 19:47	18:16-18:31/15	05:50 20:22	05:30 20:49	06:11 20:17	06:45 19:26		07:18 18:33	06:57 16:49	07:31 16:34				
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	18:16-18:30/14	05:49 20:23	05:29 20:49	06:12 20:16	06:46 19:25		07:19 18:32	06:58 16:48	07:32 16:35				
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	18:15-18:28/13	05:48 20:24	05:29 20:50	06:13 20:15	06:47 19:23		07:20 18:30	06:59 16:47	07:32 16:35				
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	18:15-18:26/11	05:47 20:25	05:29 20:47	06:14 20:13	06:48 19:21		07:22 18:28	07:01 16:47	07:33 16:35				
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	18:15-18:24/9	05:46 20:26	05:29 20:46	06:15 20:12	06:49 19:19		07:23 18:27	07:02 16:46	07:34 16:35				
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	18:15-18:22/7	05:45 20:27	05:29 20:46	06:16 20:10	06:50 19:17		07:24 18:25	07:03 16:45	07:35 16:35				
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	18:14-18:20/6	05:44 20:28	05:29 20:45	06:17 20:09	06:51 19:16		07:25 18:23	07:04 16:44	07:35 16:36				
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55	18:15-18:19/4	05:43 20:29	05:30 20:51	06:18 20:07	06:52 19:14		07:26 18:22	07:06 16:43	07:36 16:36				
20	07:36 17:05	07:01 17:46	06:14 18:21	06:21 19:57	18:15-18:17/2	05:42 20:30	05:30 20:52	06:19 20:06	06:53 19:12		07:28 18:20	07:07 16:42	07:36 16:37				
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58		05:41 20:31	05:30 20:52	06:20 20:04	06:54 19:10		07:29 18:19	07:08 16:41	07:37 16:37				
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59		05:40 20:32	05:30 20:52	06:22 20:02	06:55 19:08		07:30 18:17	07:09 16:41	07:38 16:37				
23	07:34 17:09	06:57 17:50	06:09 18:24	06:16 20:00		05:39 20:33	05:30 20:52	06:23 20:01	06:57 19:07	18:20-18:22/2	07:31 18:16	07:11 16:40	07:38 16:38				
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01		05:39 20:34	05:30 20:52	06:24 19:59	06:58 19:05	18:19-18:23/4	07:33 18:14	07:12 16:39	07:38 16:39				
25	07:32 17:11	06:53 17:52	06:06 18:26	06:13 20:02		05:38 20:35	05:31 20:53	06:25 19:58	06:59 19:03	18:18-18:24/6	06:59 17:13	07:13 16:39	07:39 16:39				
26	07:31 17:13	06:52 17:54	06:04 18:28	06:12 20:04		05:37 20:36	05:31 20:53	06:26 19:56	07:00 19:01	18:17-18:25/8	06:59 17:11	07:14 16:38	07:39 16:40				
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05		05:36 20:37	05:31 20:53	06:27 19:54	07:01 18:59	18:17-18:27/10	07:01 17:10	07:15 16:38	07:40 16:40				
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06		05:36 20:38	05:32 20:53	06:28 19:53	07:02 18:58	18:17-18:28/11	07:02 17:08	07:17 16:37	07:40 16:41				
29	07:29 17:17		06:58 19:31	06:07 20:07		05:35 20:39	05:32 20:53	06:29 19:51	07:03 18:56	18:16-18:29/13	07:03 17:07	07:18 16:37	07:40 16:42				
30	07:28 17:18		06:57 19:32	06:06 20:08		05:34 20:39	05:33 20:53	06:30 19:49	07:04 18:54	18:16-18:30/14	07:04 17:05	07:19 16:36	07:40 16:43				
31	07:27 17:19		06:55 19:33			05:34 20:40	05:58 20:33	06:31 19:47	07:05 18:54	18:16-18:31/15	06:41 17:04	07:41 16:43					
Potential sun hours	292	294	369	401	171	454	459	465	432	83	376	90	343	293	0	281	0
Sum of minutes with flicker	0	0	0	0	171	454	459	465	432	83	376	90	343	293	0	281	0

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 09 - Siemens Gamesa SG 6.6-170 6600 170.0 IO! hub: 115.0 m (TOT: 200.0 m) (5)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 15:21-15:56/35 16:44	07:26 06:47 17:21 17:57	06:53 19:35	06:04 20:09	05:33 20:41	05:33 20:53	05:59 20:32	06:33 19:46	07:05 18:52	06:43 17:03		07:20 15:09-15:45/36 16:36
2	07:41 15:21-15:57/36 16:45	07:25 06:45 17:22 17:59	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:31	06:34 19:44	07:07 18:51	06:44 17:01		07:21 15:09-15:45/36 16:36
3	07:41 15:22-15:58/36 16:46	07:23 06:44 17:23 18:00	06:50 19:37	06:02 20:12	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00		07:22 15:09-15:45/36 16:35
4	07:41 15:23-15:58/35 16:47	07:22 06:42 17:25 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:47 16:59		07:23 15:09-15:46/37 16:35
5	07:41 15:23-15:59/36 16:48	07:21 06:40 17:26 18:02	06:46 19:39	05:59 20:14	05:31 20:44	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57		07:24 15:10-15:46/36 16:35
6	07:41 15:24-16:00/36 16:49	07:20 06:39 17:27 18:04	06:44 19:40	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:44	06:49 16:56		07:25 15:10-15:46/36 16:35
7	07:41 15:24-16:01/37 16:50	07:19 06:37 17:29 18:05	06:43 19:42	05:56 20:16	05:31 20:46	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55		07:26 15:10-15:46/36 16:35
8	07:41 15:25-16:02/37 16:51	07:18 06:35 17:30 18:06	06:41 19:43	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 16:54		07:27 15:11-15:47/36 16:34
9	07:40 15:25-16:01/36 16:52	07:16 06:34 17:31 18:07	06:39 19:44	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	06:53 16:53		07:28 15:11-15:47/36 16:34
10	07:40 15:26-16:02/36 16:53	07:15 06:32 17:33 18:09	06:38 19:45	05:53 20:19	05:30 20:47	05:39 20:50	06:09 20:20	06:42 19:30	07:16 18:37	06:54 16:52		07:29 15:12-15:47/35 16:34
11	07:40 15:27-16:03/36 16:54	07:14 06:30 17:34 18:10	06:36 19:46	05:52 20:21	05:30 20:48	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 16:51		07:30 15:12-15:47/35 16:34
12	07:40 15:27-16:03/36 16:55	07:12 06:28 17:35 18:11	06:34 19:47	05:50 20:22	05:30 20:49	05:40 20:49	06:11 20:18	06:45 19:26	07:18 18:33	06:57 16:49		07:31 15:13-15:47/34 16:34
13	07:39 15:28-16:03/35 16:57	07:11 06:27 17:37 18:12	06:32 19:48	05:49 20:23	05:29 20:49	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:32	06:58 16:48		07:32 15:12-15:47/35 16:35
14	07:39 15:29-16:03/34 16:58	07:10 06:25 17:38 18:13	06:31 19:50	05:48 20:24	05:29 20:50	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	06:59 16:47		07:32 15:13-15:47/34 16:35
15	07:38 15:30-16:04/34 16:59	07:08 06:23 17:39 18:15	06:29 19:51	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	07:01 16:47	15:23-15:29/6	07:33 15:14-15:47/33 16:35
16	07:38 15:30-16:04/34 17:00	07:07 06:21 17:41 18:16	06:27 19:52	05:46 20:26	05:29 20:50	05:44 20:47	06:15 20:12	06:49 19:19	07:23 18:27	07:02 16:46	15:21-15:33/12	07:34 15:14-15:48/34 16:35
17	07:38 15:32-16:04/32 17:01	07:06 06:20 17:42 18:17	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	07:03 16:45	15:19-15:34/15	07:35 15:14-15:48/34 16:35
18	07:37 15:33-16:04/31 17:03	07:04 06:18 17:43 18:18	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	07:04 16:44	15:17-15:36/19	07:35 15:15-15:48/33 16:36
19	07:36 15:34-16:04/30 17:04	07:03 06:16 17:45 18:19	06:23 19:55	05:43 20:29	05:30 20:51	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	07:06 16:43	15:17-15:37/20	07:36 15:15-15:48/33 16:36
20	07:36 15:36-16:04/28 17:05	07:01 06:14 17:46 18:21	06:21 19:57	05:42 20:30	05:30 20:52	05:47 20:44	06:19 20:06	06:53 19:12	07:28 18:20	07:07 16:42	15:14-15:38/24	07:36 15:16-15:49/33 16:37
21	07:35 15:37-16:04/27 17:06	07:00 06:13 17:47 18:22	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	07:08 16:41	15:12-15:39/27	07:37 15:17-15:49/32 16:37
22	07:34 15:39-16:03/24 17:08	06:58 06:11 17:48 18:23	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	07:09 16:41	15:12-15:40/28	07:38 15:17-15:50/33 16:37
23	07:34 15:42-16:02/20 17:09	06:57 06:09 17:50 18:24	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:57 19:07	07:31 18:16	07:11 16:40	15:11-15:41/30	07:38 15:17-15:50/33 16:38
24	07:33 15:43-16:02/19 17:10	06:55 06:07 17:51 18:25	06:15 20:01	05:39 20:34	05:30 20:52	05:51 20:40	06:24 20:00	06:58 19:05	07:33 18:14	07:12 16:39	15:10-15:41/31	07:39 15:18-15:51/33 16:39
25	07:32 15:45-16:00/15 17:11	06:53 06:06 17:52 18:26	06:13 20:02	05:38 20:35	05:31 20:53	05:52 20:39	06:25 19:58	06:59 19:03	07:34 17:13	07:13 16:39	15:09-15:41/32	07:39 15:18-15:51/33 16:39
26	07:31 15:48-16:00/12 17:13	06:52 06:04 17:54 18:28	06:12 20:04	05:37 20:36	05:31 20:53	05:53 20:38	06:26 19:56	07:00 19:01	07:35 17:11	07:14 16:38	15:10-15:43/33	07:39 15:18-15:51/33 16:40
27	07:30 15:51-15:56/5 17:14	06:50 06:02 17:55 18:29	06:10 20:05	05:36 20:37	05:31 20:53	05:54 20:37	06:27 19:54	07:01 18:59	07:36 17:10	07:15 16:38	15:09-15:43/34	07:40 15:19-15:53/34 16:40
28	07:29 17:15 17:15	06:49 06:00 17:56 18:30	06:09 20:06	05:36 20:38	05:32 20:53	05:55 20:36	06:28 19:53	07:02 18:58	07:37 17:08	07:17 16:37	15:09-15:43/34	07:40 15:20-15:53/33 16:41
29	07:29 17:17 17:17	06:49 06:00 19:31 20:07	06:06 20:07	05:35 20:39	05:32 20:53	05:56 20:35	06:29 19:51	07:03 18:56	07:39 17:07	07:18 16:37	15:08-15:44/36	07:40 15:20-15:54/34 16:42
30	07:28 17:18 17:18	06:57 06:06 19:32 20:08	06:06 20:08	05:34 20:39	05:33 20:53	05:57 20:34	06:30 19:49	07:04 18:54	07:38 17:05	07:19 16:36	15:08-15:44/36	07:40 15:20-15:54/34 16:43
31	07:27 17:19 17:19	06:55 06:05 19:33 20:09	06:05 20:09	05:34 20:40	05:34 20:53	05:58 20:33	06:31 19:48	07:05 18:54	07:39 17:04	07:19 16:36		07:41 15:21-15:55/34 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	343	293	281
Sum of minutes with flicker	812	0	0	0	0	0	0	0	0	0	417	1064

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

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

SHADOW - Calendar per WTG

Calculation: Shadow WTG: FO 10 - Siemens Gamesa SG 6.6-170 6600 170.0 !O! hub: 115.0 m (TOT: 200.0 m) (3)
Assumptions for shadow calculations


The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December			
1	07:41 16:44	07:26 17:21	06:47 17:57	15:36-16:53/77	06:53 19:35	06:04 20:09	05:33 20:41	05:33 20:53	05:59 20:32	06:32 19:46	07:05 18:52	16:21-17:29/68 17:03	06:43 16:36	15:18-15:54/36 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	15:36-16:53/77	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:31	06:34 19:44	07:07 18:50	16:20-17:29/69 17:01	06:44 16:36	15:20-15:51/31 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	15:36-16:53/77	06:50 19:37	06:02 20:12	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	16:18-17:29/71 17:00	06:45 16:35	15:23-15:50/27 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	15:37-16:53/76	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	16:17-17:30/73 17:00	06:47 16:35	15:26-15:46/20 17:00	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	15:37-16:53/76	06:46 19:39	05:59 20:14	05:31 20:44	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	16:16-17:29/73 17:00	06:48 16:35	15:32-15:41/9 17:00	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	16:01-16:13/12	06:39 19:40	15:37-16:53/76	06:44 20:15	05:58 20:45	06:04 20:51	06:38 19:37	07:11 18:43	16:15-17:29/74 17:00	06:49 16:35	15:32-15:41/9 17:00	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	15:37-16:52/75	06:43 19:42	15:37-16:52/75	06:43 20:16	05:56 20:46	06:05 20:51	06:39 19:35	07:12 18:42	16:13-17:29/76 17:00	06:50 16:35	15:32-15:41/9 17:00	07:26 16:34
8	07:41 16:51	07:18 17:30	06:35 18:06	15:39-16:53/74	06:41 19:43	15:39-16:53/74	06:41 20:17	05:55 20:46	06:06 20:51	06:40 19:34	07:13 18:40	16:12-17:28/76 17:00	06:52 16:34	15:32-15:41/9 17:00	07:27 16:34
9	07:40 16:52	07:16 17:31	06:34 18:07	15:51-16:23/32	06:39 19:44	15:51-16:23/32	06:39 20:18	05:54 20:47	06:07 20:50	06:41 19:32	07:15 18:38	16:12-17:28/76 17:00	06:53 16:34	15:32-15:41/9 17:00	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:09	15:48-16:25/37	06:37 19:45	15:48-16:25/37	06:37 20:19	05:53 20:47	06:08 20:50	06:42 19:30	07:16 18:37	16:11-17:28/77 17:00	06:54 16:34	15:32-15:41/9 17:00	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	15:47-16:28/41	06:30 19:46	15:47-16:28/41	06:30 20:21	05:51 20:48	06:10 20:49	06:43 19:28	07:17 18:35	16:10-17:27/77 17:00	06:55 16:34	15:32-15:41/9 17:00	07:30 16:34
12	07:40 16:55	07:12 17:35	06:28 18:11	15:46-16:30/44	06:28 19:47	15:46-16:30/44	06:28 20:22	05:50 20:49	06:11 20:49	06:44 19:26	07:18 18:33	16:09-17:26/77 17:00	06:57 16:34	15:32-15:41/9 17:00	07:31 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	15:43-16:50/67	06:27 19:48	15:43-16:50/67	06:27 20:23	05:49 20:49	06:12 20:48	06:46 19:25	07:19 18:32	16:08-17:25/77 17:00	06:58 16:35	15:32-15:41/9 17:00	07:32 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	15:44-16:49/65	06:25 19:50	15:44-16:49/65	06:25 20:24	05:48 20:50	06:13 20:48	06:47 19:23	07:20 18:30	16:09-17:25/76 17:00	06:59 16:35	15:32-15:41/9 17:00	07:33 16:35
15	07:38 16:59	07:08 17:39	06:23 18:15	15:41-16:34/53	06:23 19:51	15:41-16:34/53	06:23 20:25	05:47 20:50	06:14 20:48	06:48 19:21	07:22 18:28	16:08-17:24/76 17:00	07:01 16:35	15:32-15:41/9 17:00	07:34 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	15:41-16:36/55	06:21 19:52	15:41-16:36/55	06:21 20:26	05:46 20:50	06:15 20:47	06:49 19:19	07:23 18:27	16:08-17:22/74 17:00	07:02 16:35	15:32-15:41/9 17:00	07:35 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	15:39-16:37/58	06:20 19:53	15:39-16:37/58	06:20 20:27	05:45 20:51	06:16 20:46	06:50 19:17	07:24 18:25	16:07-17:21/74 17:00	07:03 16:35	15:32-15:41/9 17:00	07:36 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	15:39-16:40/61	06:18 19:54	15:39-16:40/61	06:18 20:28	05:44 20:51	06:17 20:45	16:58-17:16/18 19:16	07:25 18:23	16:08-17:21/73 17:00	07:04 16:36	15:32-15:41/9 17:00	07:37 16:36
19	07:36 17:04	07:03 17:45	06:16 18:19	15:38-16:42/64	06:16 19:55	15:38-16:42/64	06:16 20:29	05:43 20:51	06:18 20:44	16:54-17:19/25 20:07	07:26 18:22	16:08-17:19/71 17:00	07:06 16:36	15:32-15:41/9 17:00	07:38 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	15:38-16:44/66	06:14 19:57	15:38-16:44/66	06:14 20:30	05:42 20:52	06:19 20:44	16:51-17:22/31 19:12	07:28 18:20	16:08-17:17/69 17:00	07:07 16:36	15:32-15:41/9 17:00	07:39 16:36
21	07:35 17:06	07:00 17:47	06:13 18:22	15:37-16:45/68	06:13 19:58	15:37-16:45/68	06:13 20:31	05:41 20:52	06:20 20:43	16:48-17:23/35 19:10	07:29 18:19	16:08-17:15/67 17:00	07:08 16:41	15:32-15:41/9 17:00	07:40 16:37
22	07:34 17:08	06:58 17:48	06:11 18:23	15:37-16:47/70	06:11 19:59	15:37-16:47/70	06:11 20:32	05:40 20:52	06:22 20:42	16:45-17:24/39 19:08	07:30 18:17	16:09-17:14/65 17:00	07:09 16:41	15:32-15:41/9 17:00	07:41 16:38
23	07:34 17:09	06:57 17:50	06:09 18:24	15:36-16:48/72	06:09 19:59	15:36-16:48/72	06:09 20:33	05:39 20:52	06:23 20:41	16:43-17:26/43 19:07	07:31 18:15	16:09-17:12/63 17:00	07:11 16:40	15:32-15:41/9 17:00	07:42 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	15:36-16:50/74	06:07 19:59	15:36-16:50/74	06:07 20:34	05:39 20:52	06:24 20:40	16:40-17:26/46 19:05	07:33 18:14	16:09-17:09/60 17:00	07:12 16:39	15:32-15:41/9 17:00	07:43 16:38
25	07:32 17:11	06:53 17:52	06:05 18:26	15:36-16:50/74	06:05 19:59	15:36-16:50/74	06:05 20:35	05:38 20:53	06:25 20:39	16:35-17:27/52 19:03	07:34 17:12	15:10-16:07/57 17:00	07:13 16:39	15:32-15:41/9 17:00	07:44 16:39
26	07:31 17:13	06:52 17:54	06:04 18:28	15:35-16:50/75	06:04 19:59	15:35-16:50/75	06:04 20:36	05:37 20:53	06:26 20:38	16:33-17:29/56 19:01	07:35 17:11	15:11-16:05/54 17:00	07:14 16:38	15:32-15:41/9 17:00	07:45 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	15:36-16:52/76	06:02 19:59	15:36-16:52/76	06:02 20:37	05:36 20:53	06:27 20:37	16:30-17:29/59 18:59	07:36 17:10	15:11-16:04/53 17:00	07:15 16:38	15:32-15:41/9 17:00	07:46 16:40
28	07:29 17:15	06:49 17:56	06:00 18:30	15:35-16:52/77	06:00 19:59	15:35-16:52/77	06:00 20:38	05:35 20:53	06:28 20:36	16:27-17:29/62 19:53	07:38 17:08	15:13-16:03/50 17:00	07:17 16:41	15:32-15:41/9 17:00	07:47 16:41
29	07:29 17:17	06:49 17:56	06:00 18:31	15:35-16:52/77	06:00 19:59	15:35-16:52/77	06:00 20:39	05:35 20:53	06:29 20:35	16:25-17:29/64 18:56	07:39 17:07	15:14-16:01/47 17:00	07:18 16:37	15:32-15:41/9 17:00	07:48 16:42
30	07:28 17:18	06:48 17:57	06:00 18:32	15:35-16:52/77	06:00 19:59	15:35-16:52/77	06:00 20:40	05:35 20:53	06:30 20:34	16:23-17:29/66 18:54	07:40 17:05	15:15-15:59/44 17:00	07:19 16:36	15:32-15:41/9 17:00	07:49 16:43
31	07:27 17:19	06:47 17:57	06:00 18:33	15:35-16:52/77	06:00 19:59	15:35-16:52/77	06:00 20:41	05:35 20:53	06:31 20:34	16:23-17:29/66 19:47	07:41 17:04	15:17-15:57/40 17:00	07:20 16:43	15:32-15:41/9 17:00	07:50 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	343	293	281	281	281	281
Sum of minutes with flicker	0	1255	1511	0	0	0	0	0	596	2077	123	0	0	0	0

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

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

	<p>PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p>RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p>DATA: FEBBRAIO 2024 <i>Pag. 48 di 49</i></p>
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ALLEGATO 2

ALLEGATO 2 - "CALENDAR-GRAPHICAL" (WORST CASE)

Project:
foligno

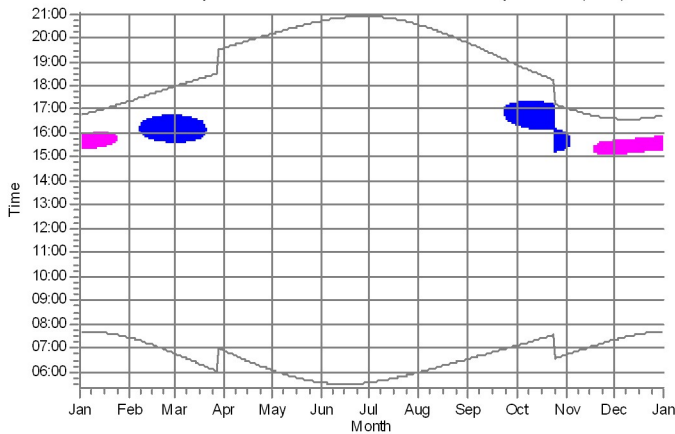
Licensed user:
EGM Project srl
via Vincenzo Verrastro 15/A
IT-85100 Potenza

Calculated:
12/02/2024 16:44/4.0.531

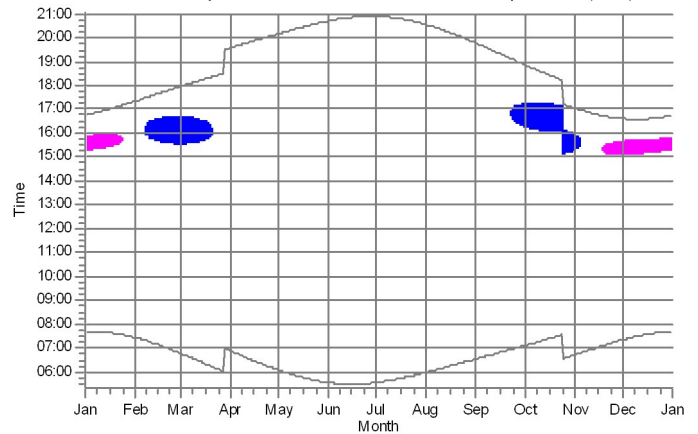
SHADOW - Calendar, graphical

Calculation: Shadow

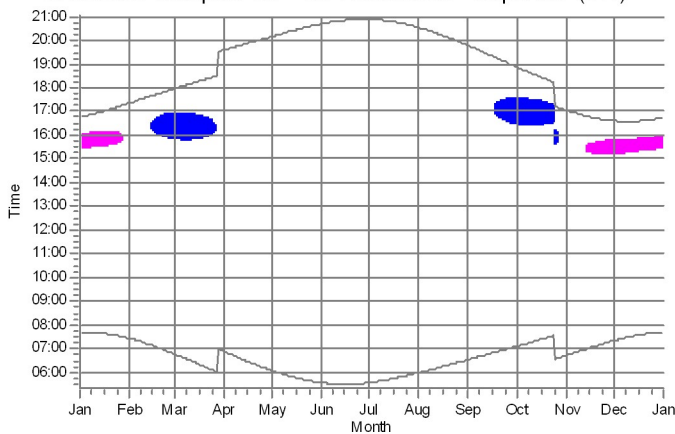
A: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (115)



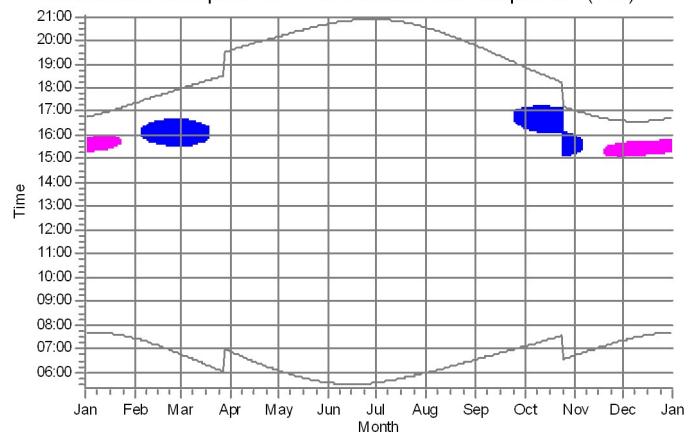
B: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (116)



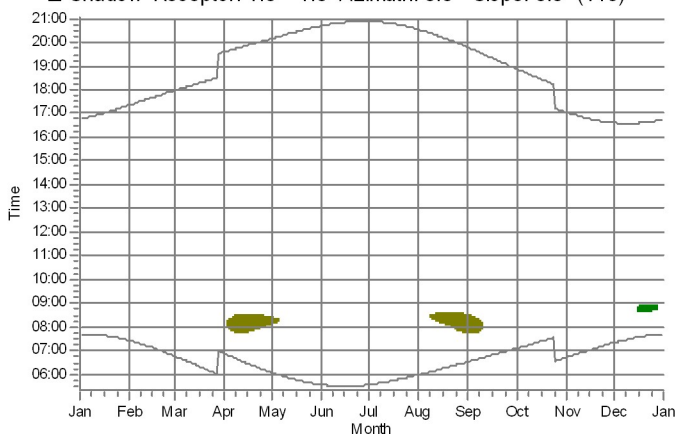
C: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (117)



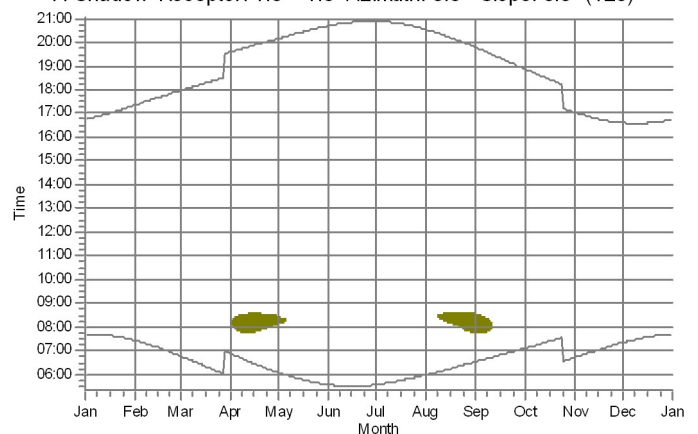
D: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (118)



E: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (119)



F: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (120)



WTGs

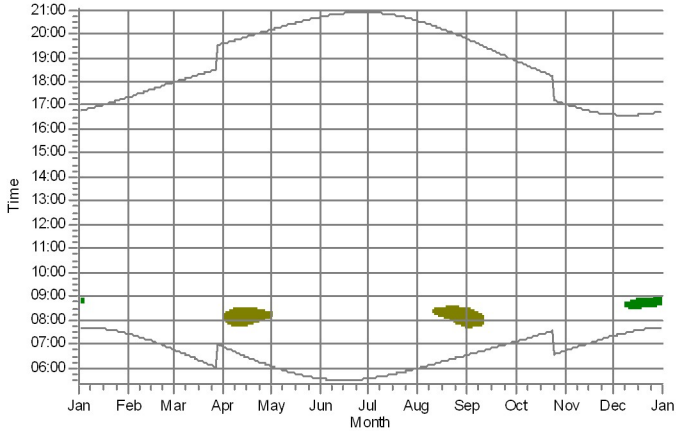
- FO 01: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (1)
- FO 10: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (3)

- FO 09: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (5)
- FO 04: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (10)

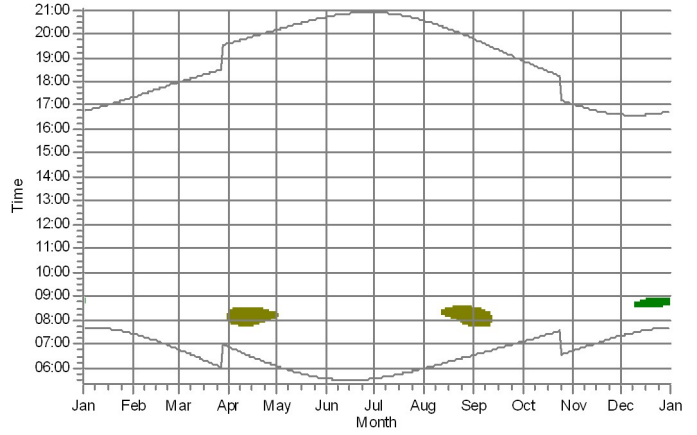
SHADOW - Calendar, graphical

Calculation: Shadow

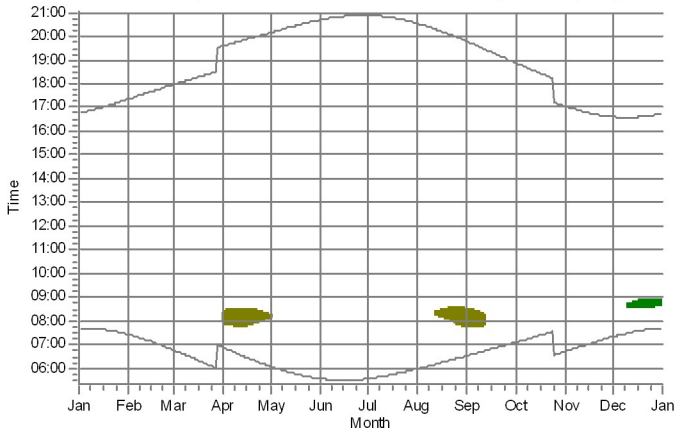
G: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (121)



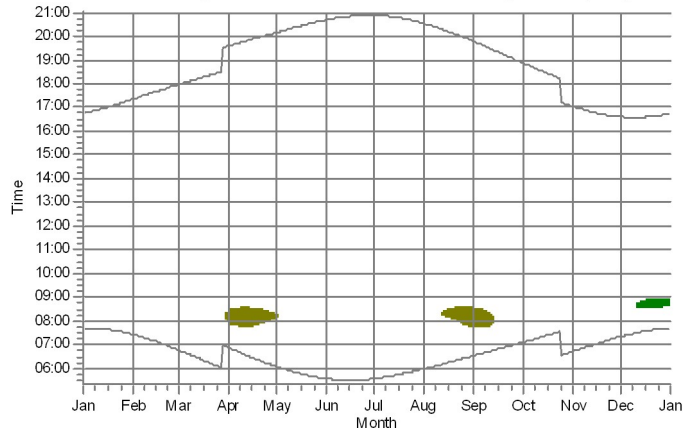
H: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (122)



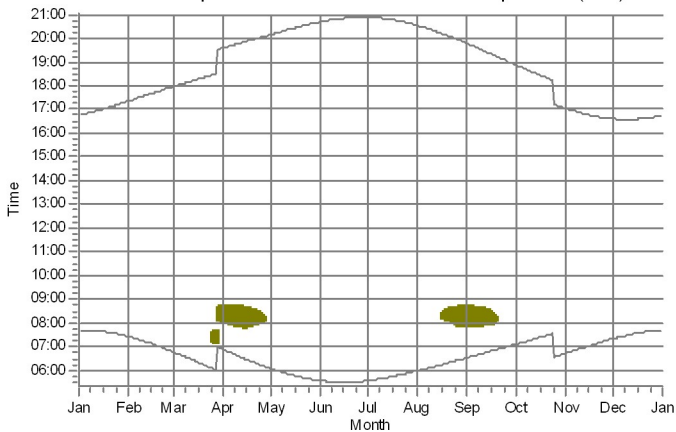
I: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (123)



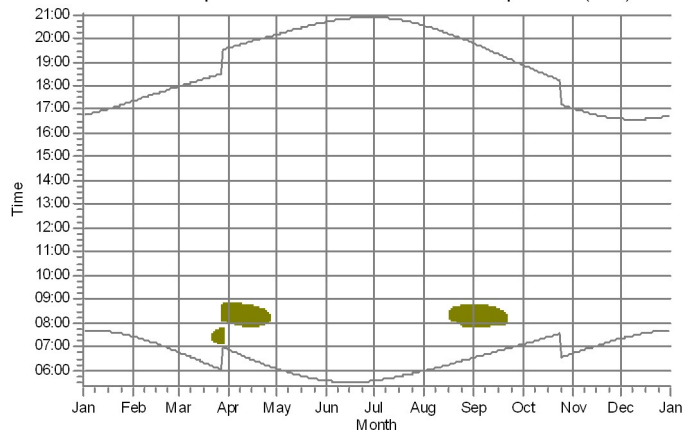
J: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (124)



K: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (125)



L: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (126)



WTGs

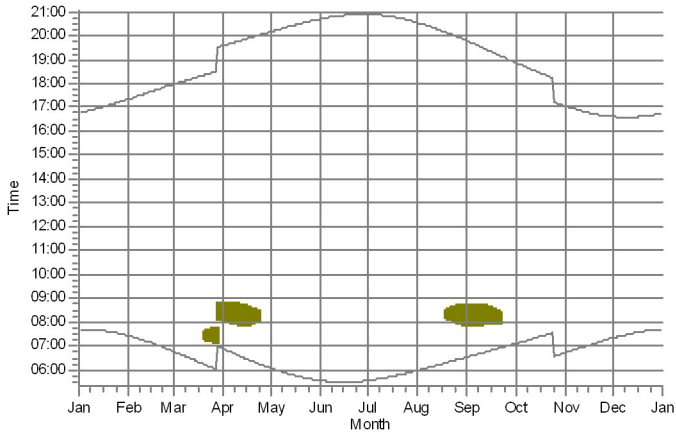
FO 01: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (1)

FO 04: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (10)

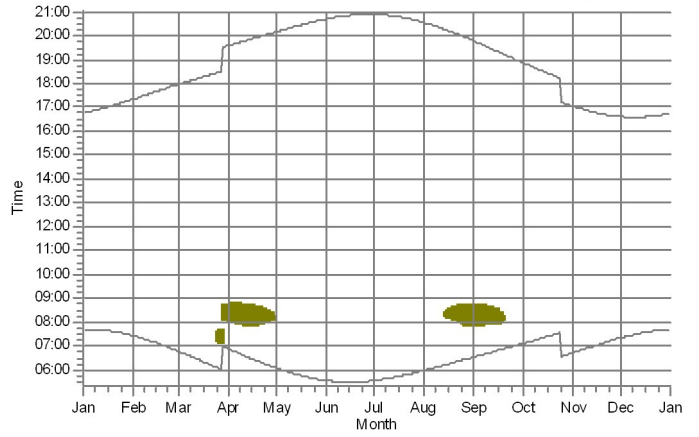
SHADOW - Calendar, graphical

Calculation: Shadow

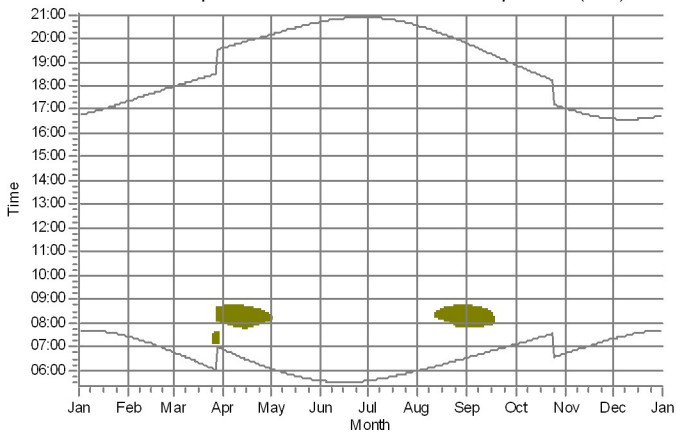
M: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (127)



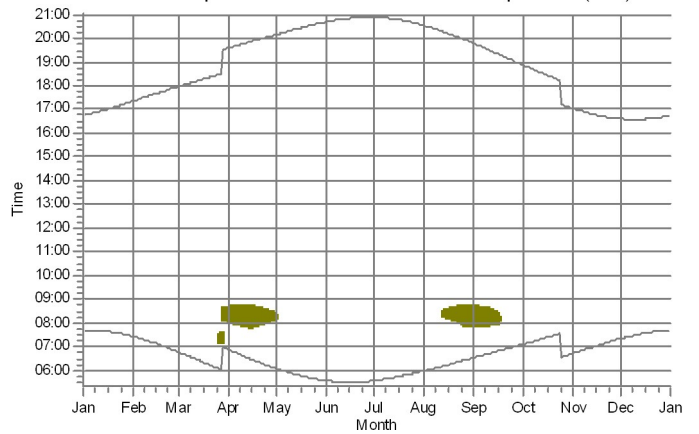
N: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (128)



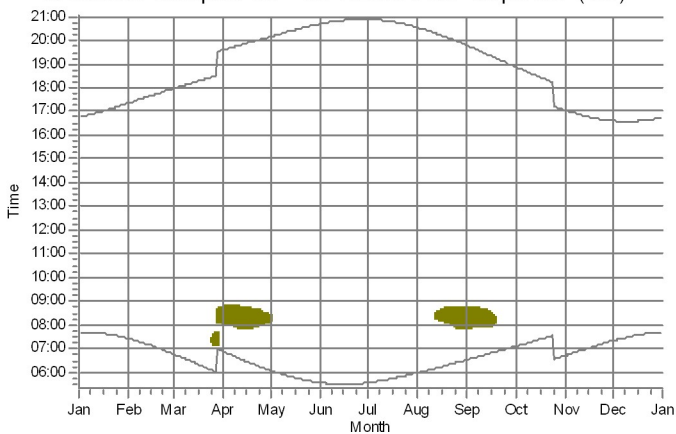
O: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (129)



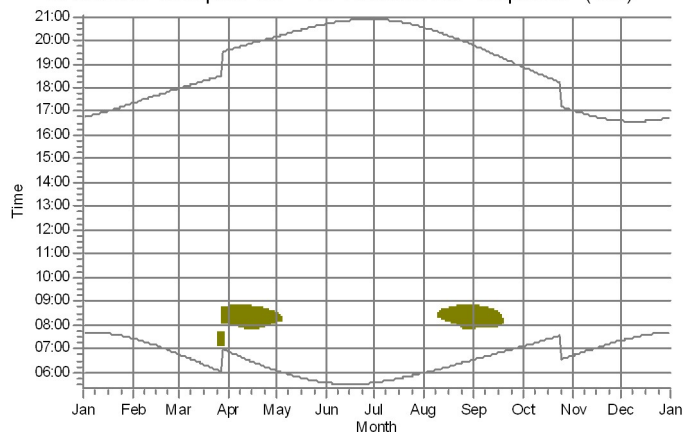
P: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (130)



Q: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (131)



R: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (132)



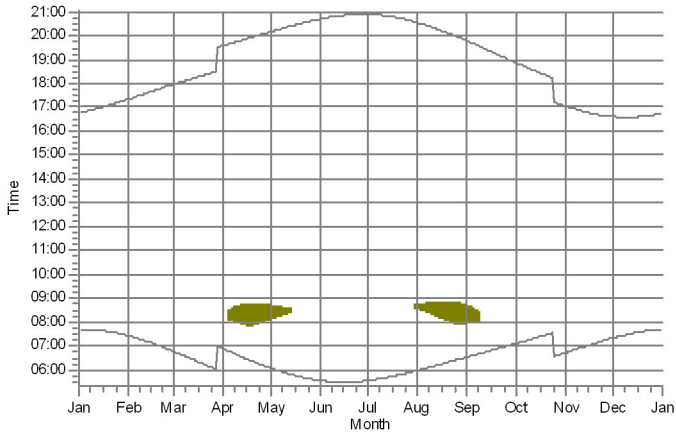
WTGs

FO 04: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (10)

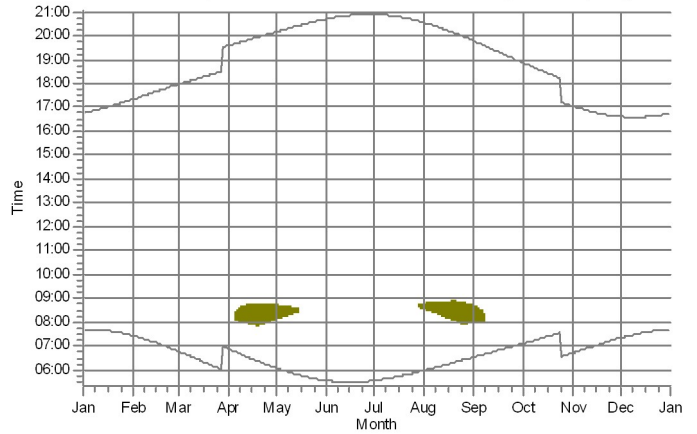
SHADOW - Calendar, graphical

Calculation: Shadow

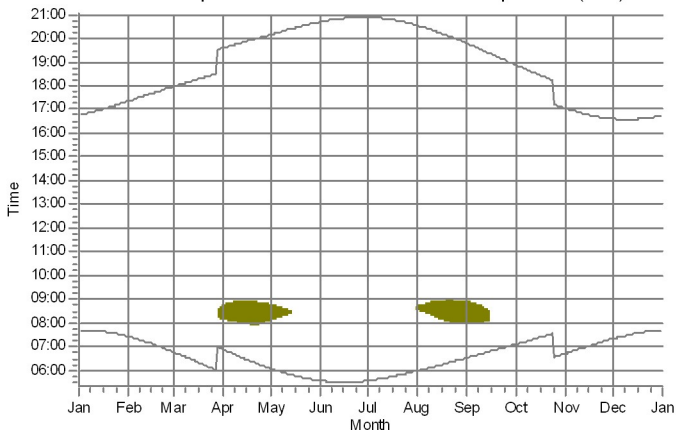
S: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (133)



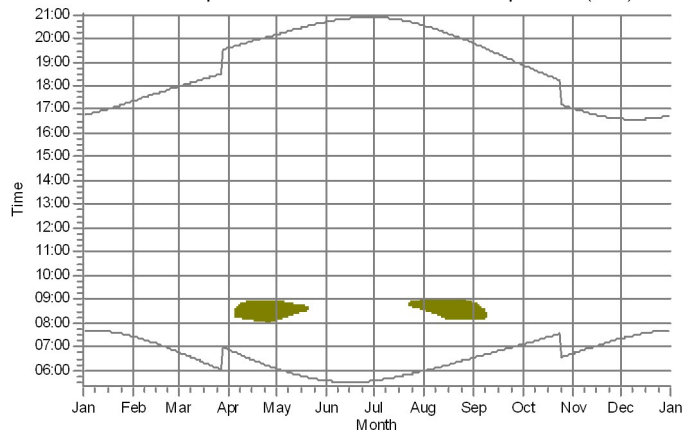
T: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (134)



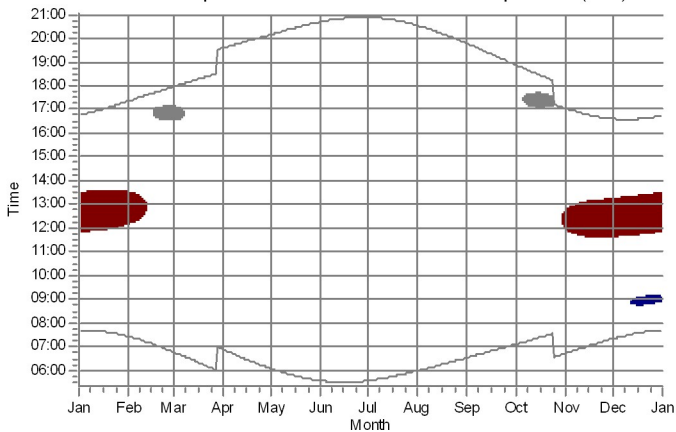
U: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (135)



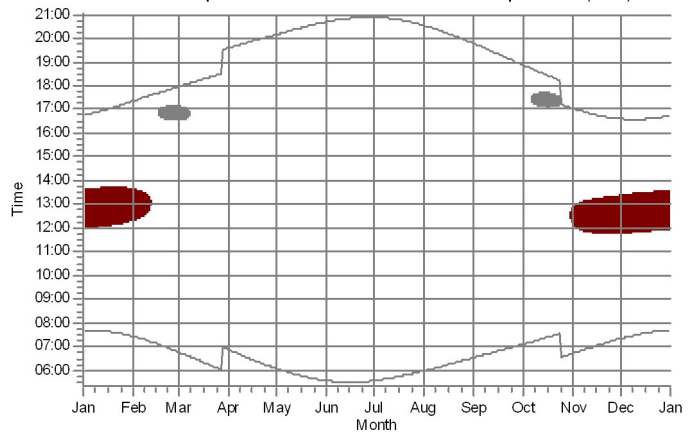
V: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (136)



W: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (137)



X: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (138)



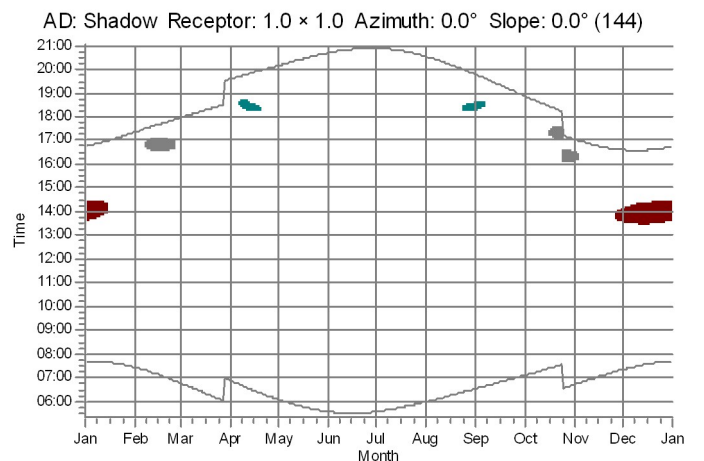
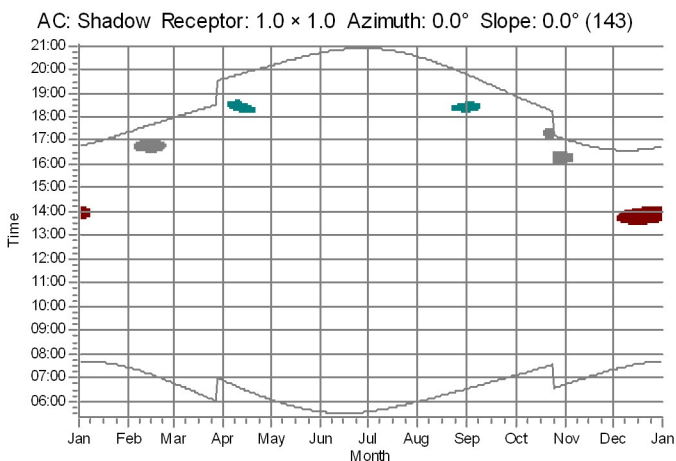
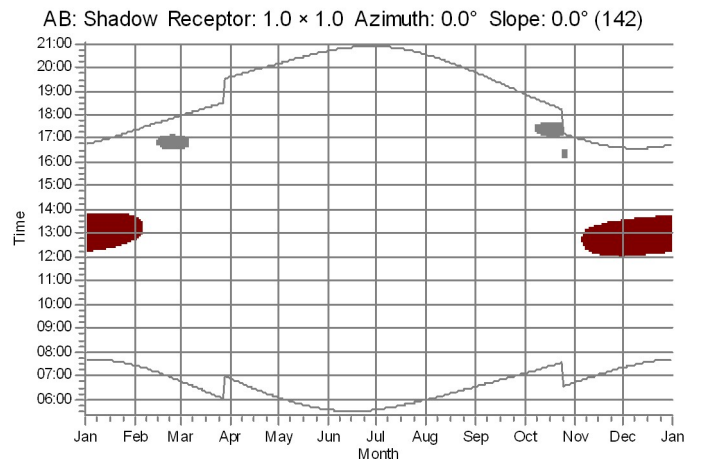
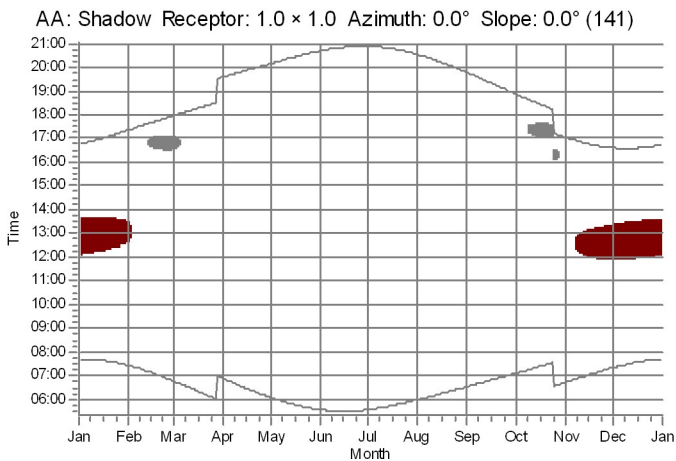
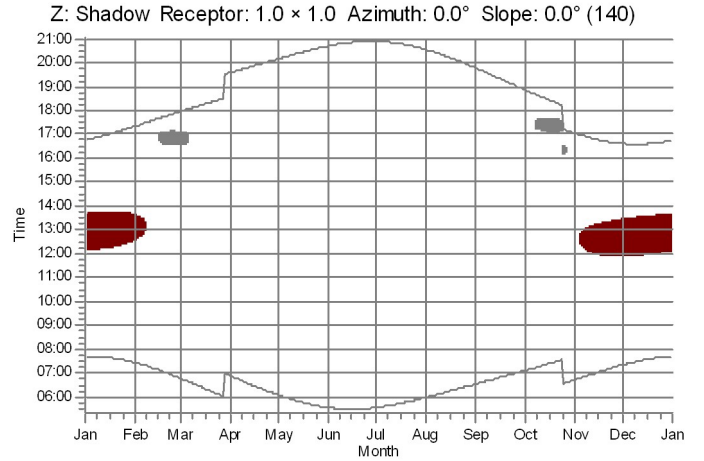
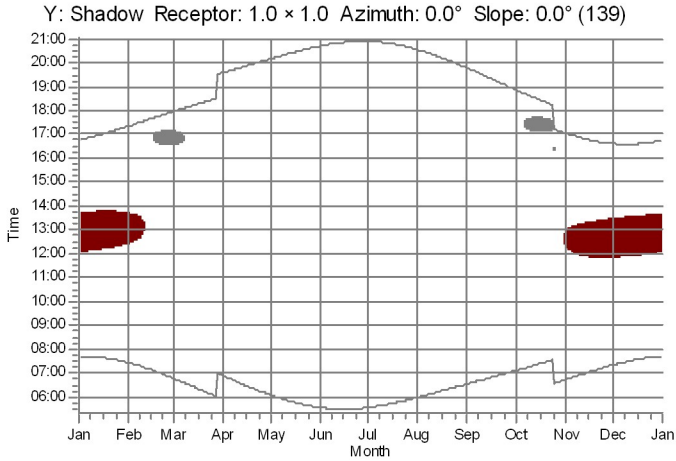
WTGs

- FO 07: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (4)
- FO 03: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (7)

- FO 06: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (8)
- FO 04: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (10)

SHADOW - Calendar, graphical

Calculation: Shadow



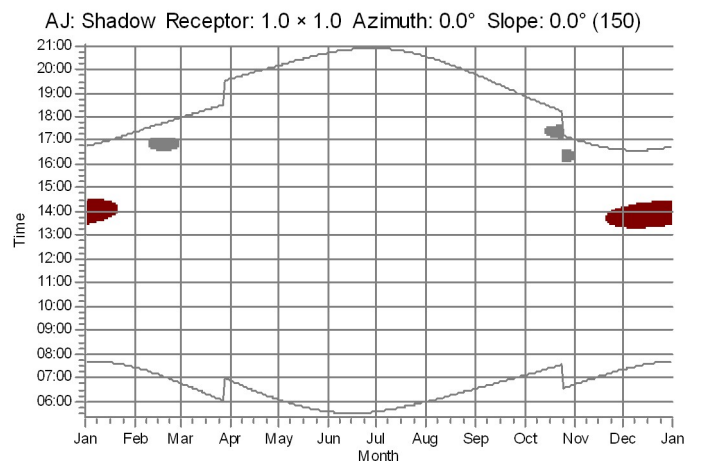
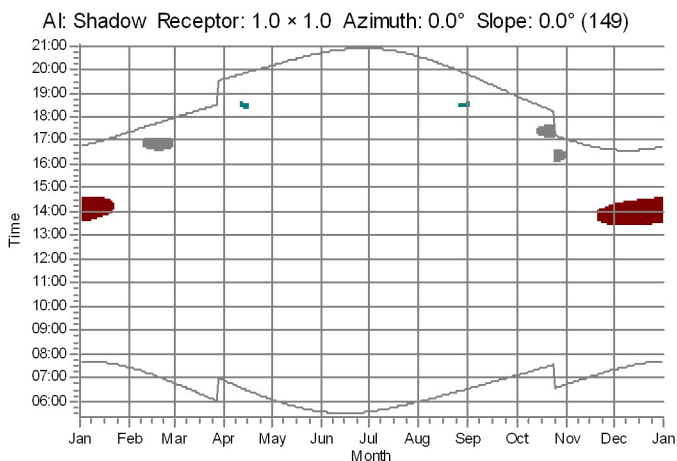
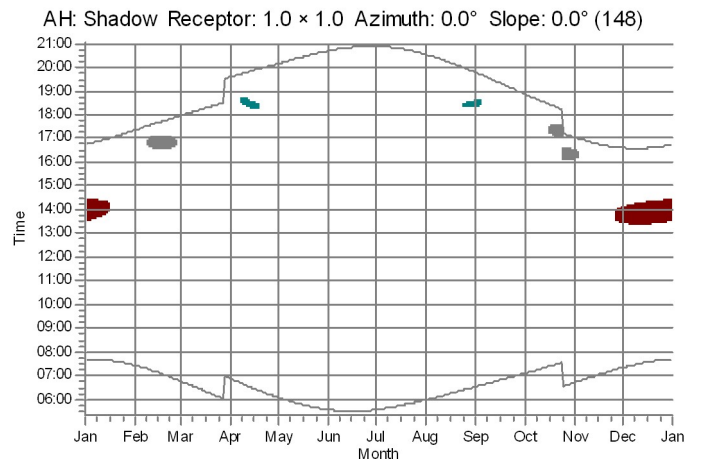
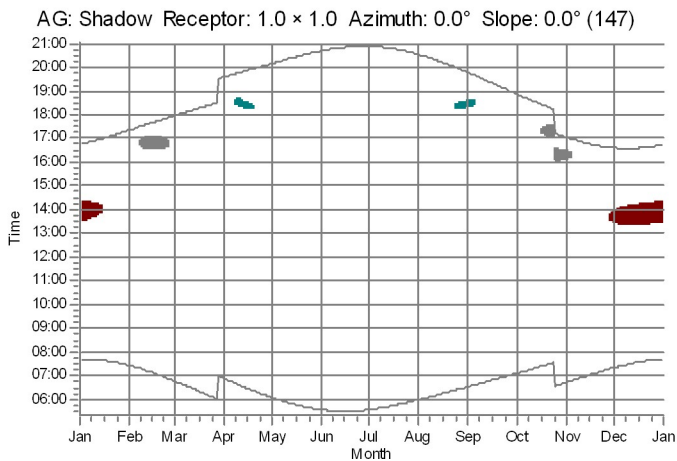
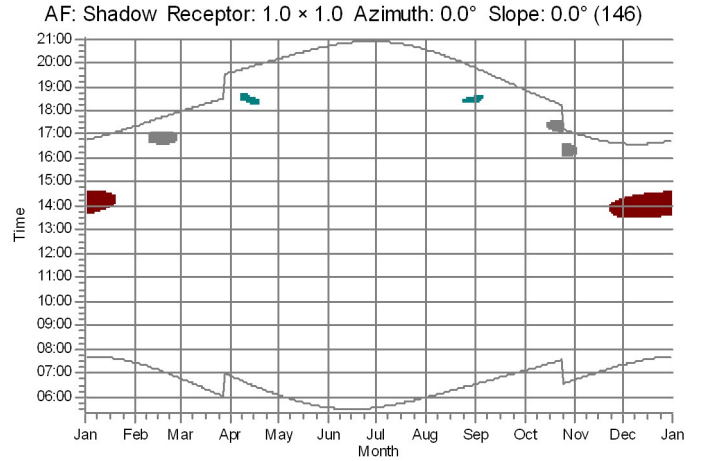
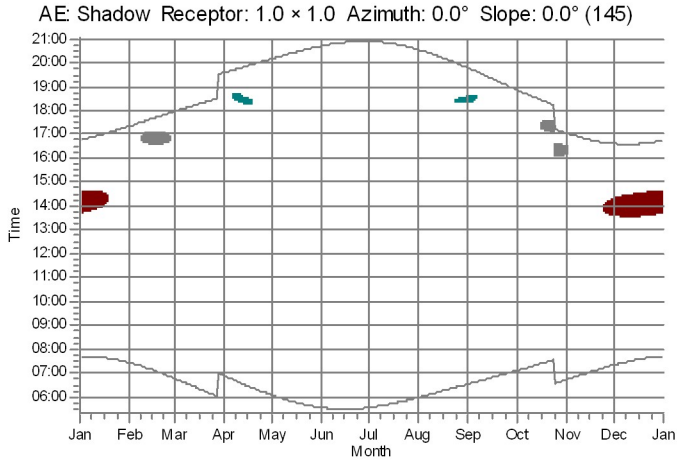
WTGs

- FO 07: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (4)
- FO 08: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (6)

- FO 06: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (8)

SHADOW - Calendar, graphical

Calculation: Shadow



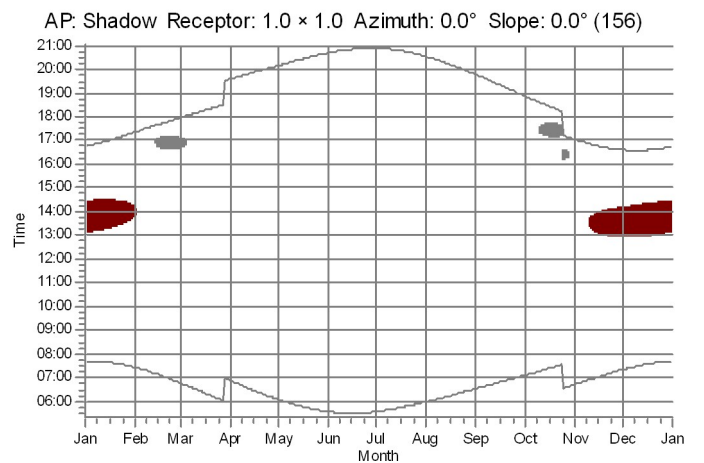
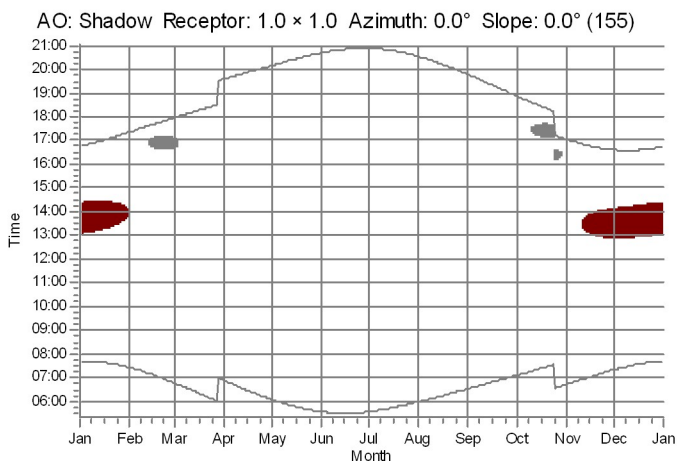
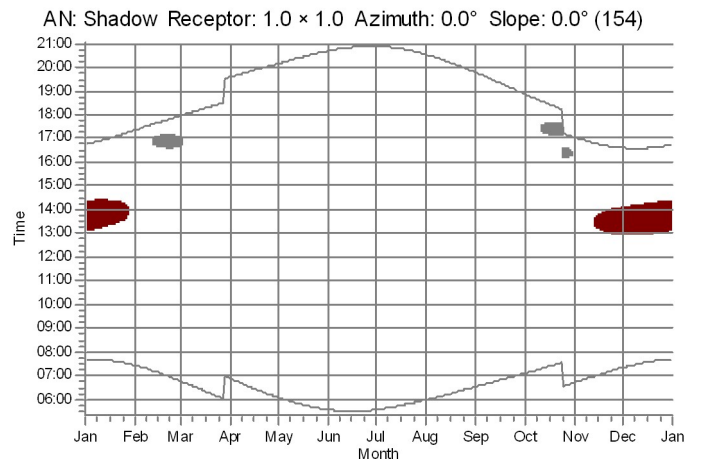
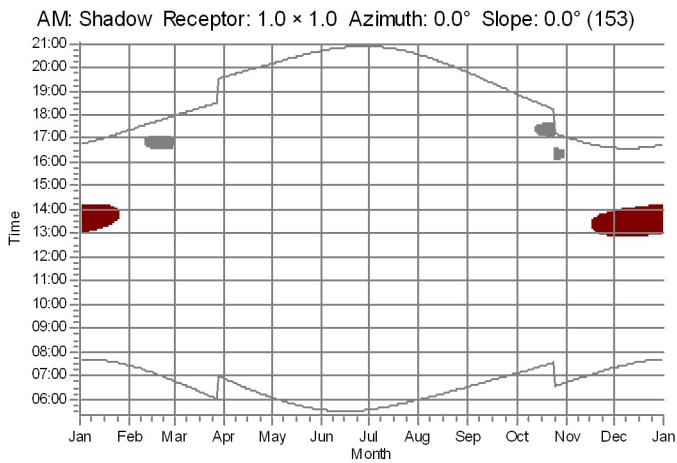
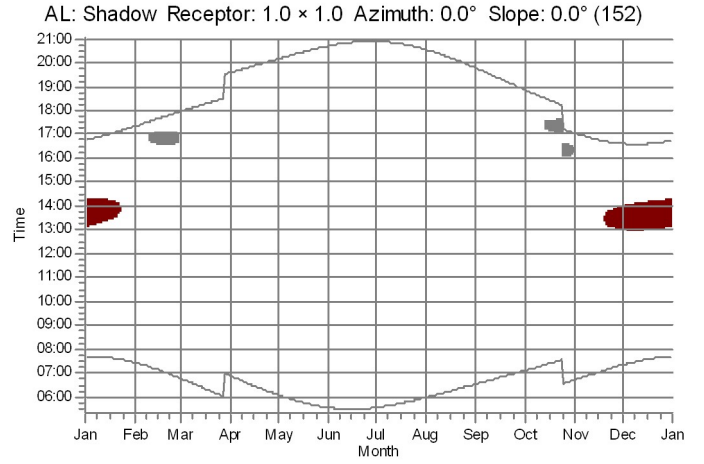
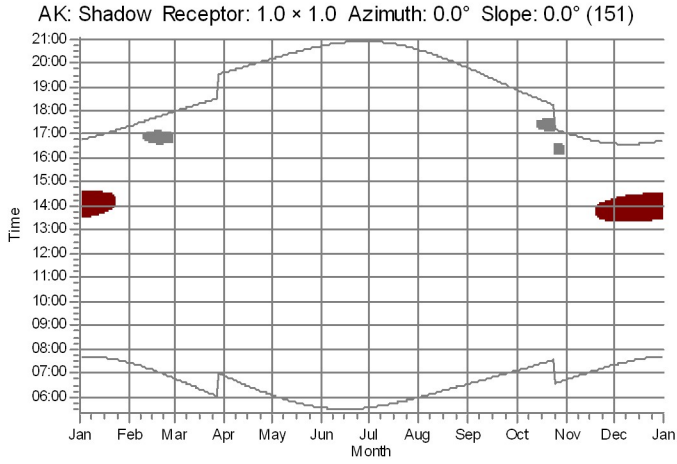
WTGs

- FO 07: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (4)
- FO 08: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (6)

- FO 06: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (8)

SHADOW - Calendar, graphical

Calculation: Shadow



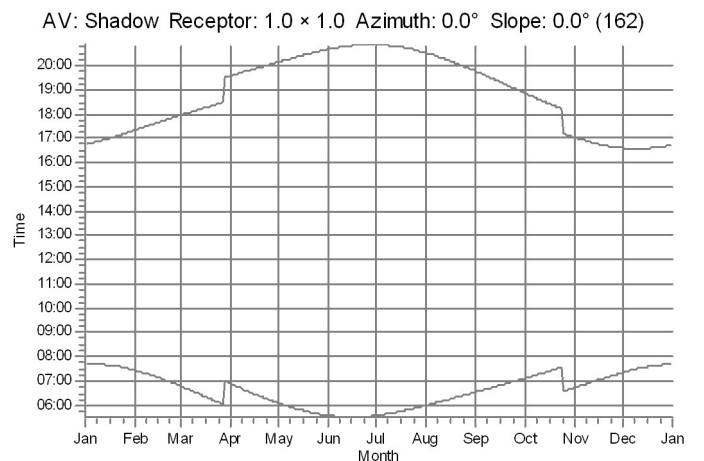
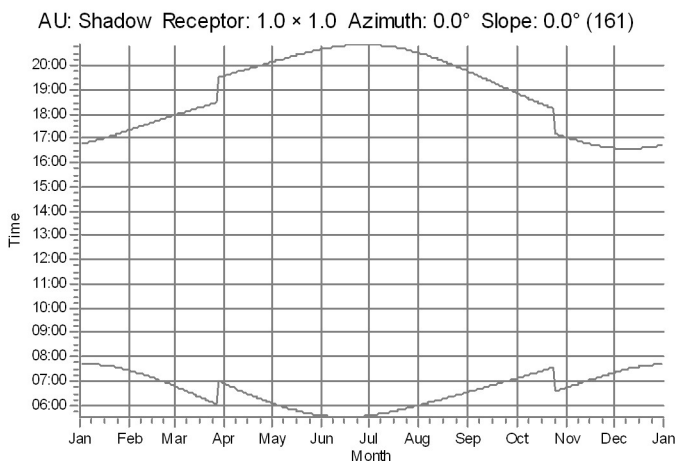
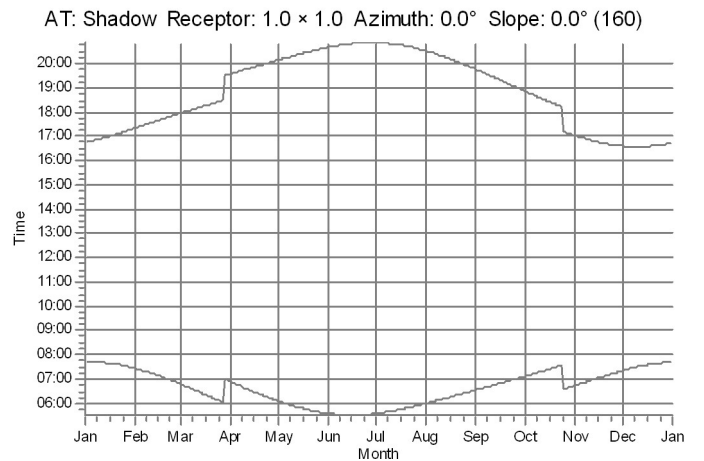
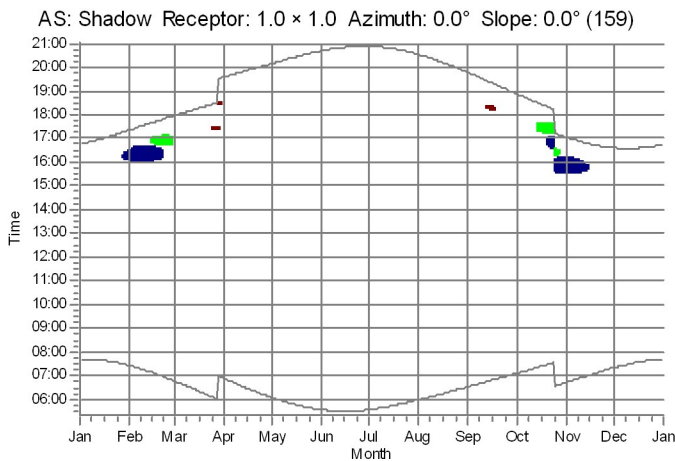
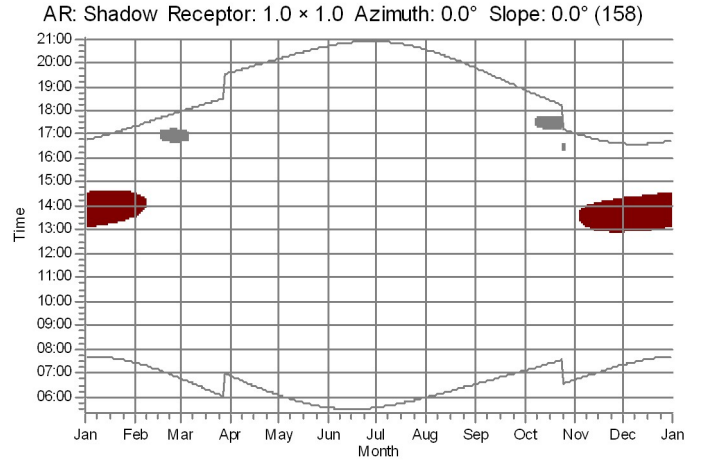
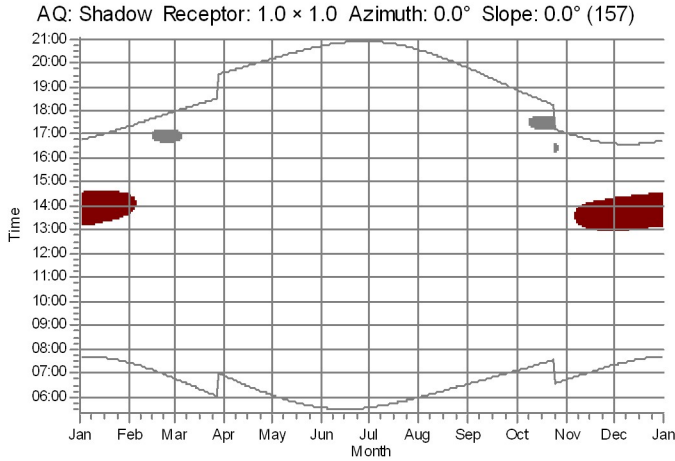
WTGs

FO 07: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (4)

FO 06: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (8)

SHADOW - Calendar, graphical

Calculation: Shadow



WTGs

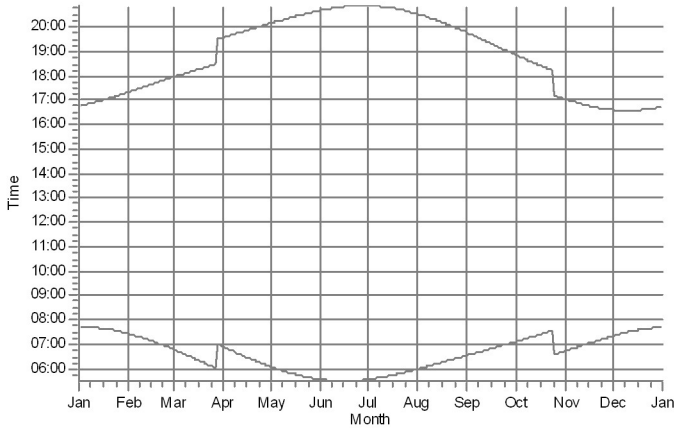
FO 07: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (4)
FO 03: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (7)

FO 06: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (8)
FO 05: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (9)

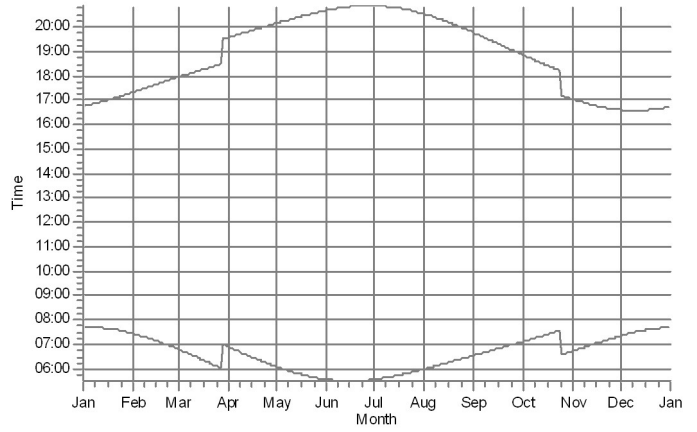
SHADOW - Calendar, graphical

Calculation: Shadow

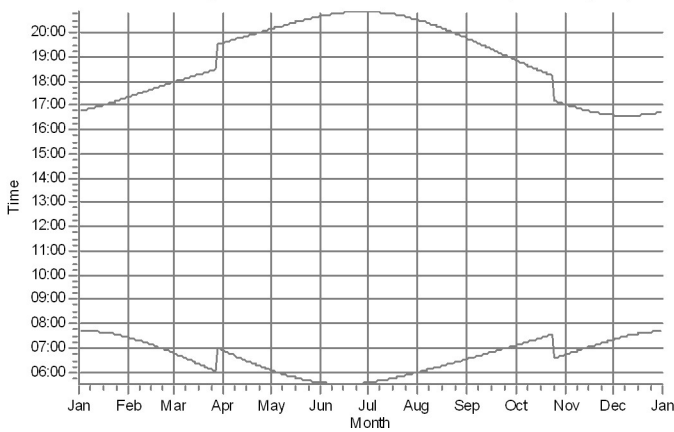
AW: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (163)



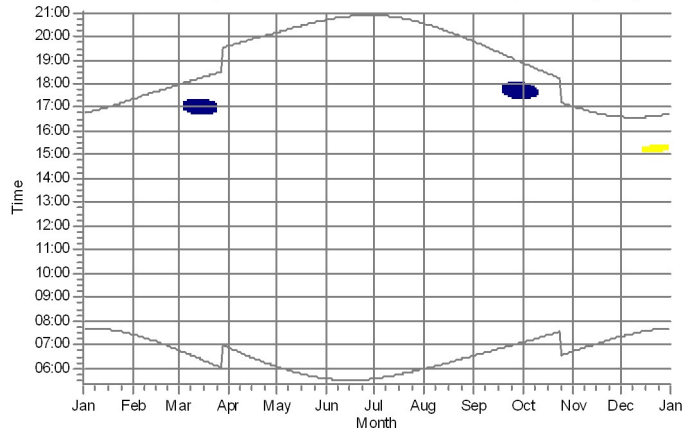
AX: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (164)



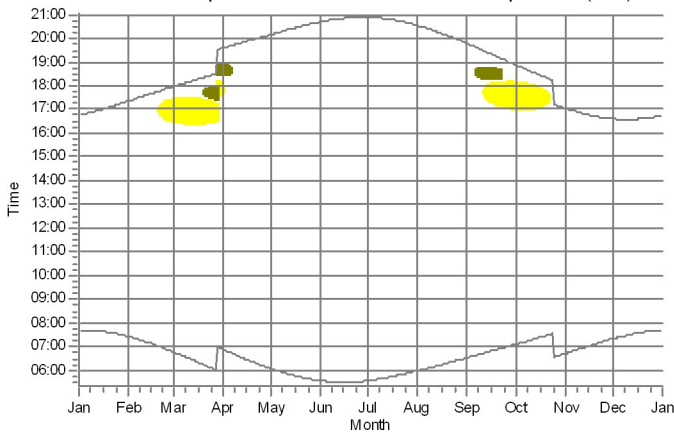
AY: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (165)



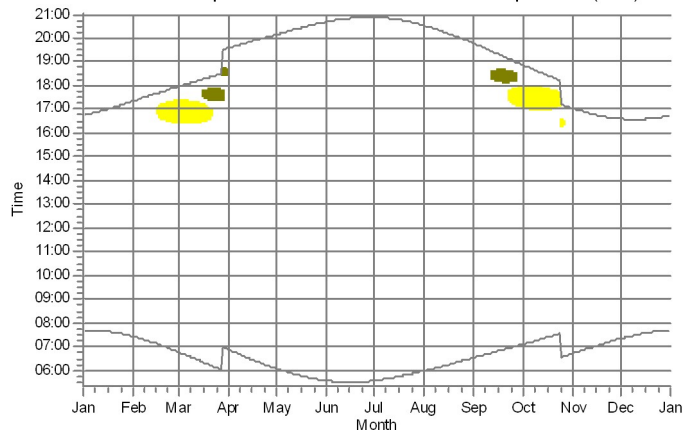
AZ: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (166)



BA: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (167)



BB: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (168)



WTGs

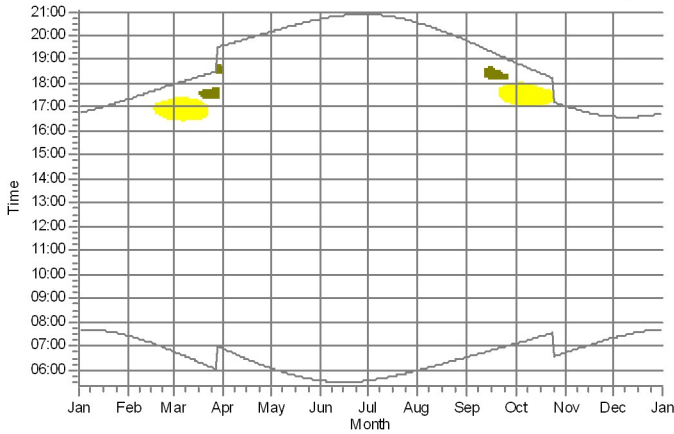
- FO 02: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (2)
- FO 03: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (7)

- FO 04: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (10)

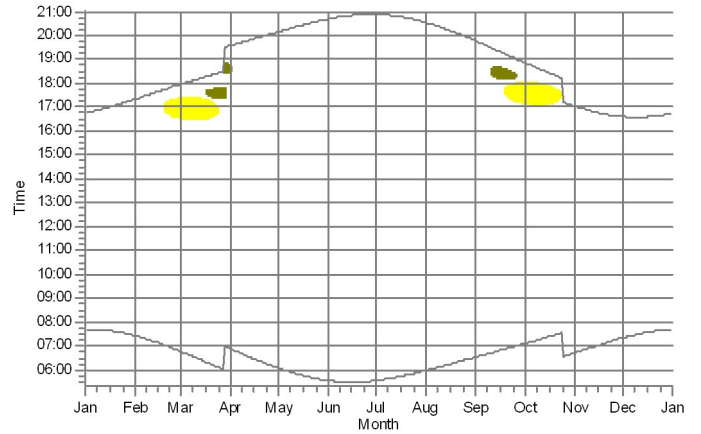
SHADOW - Calendar, graphical

Calculation: Shadow

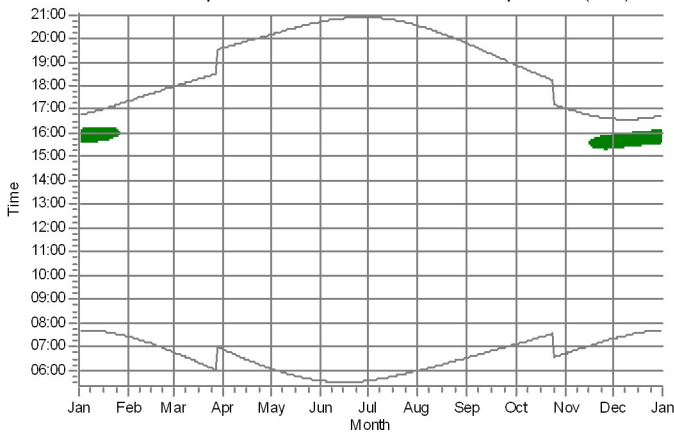
BC: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (169)



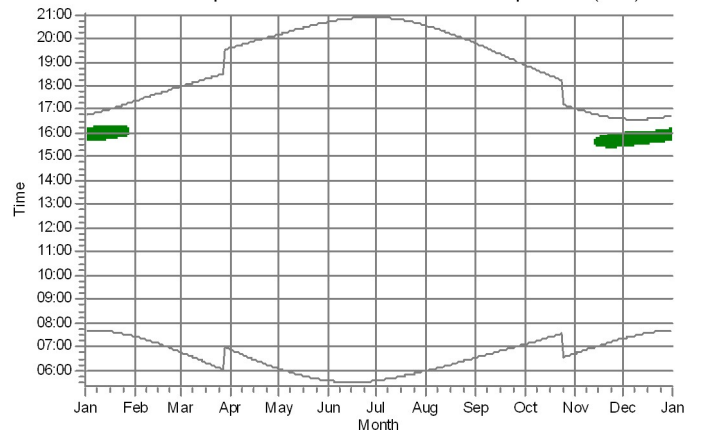
BD: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (170)



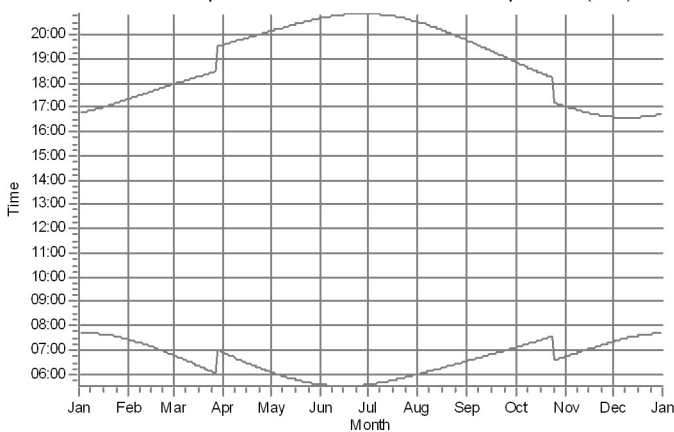
BE: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (171)



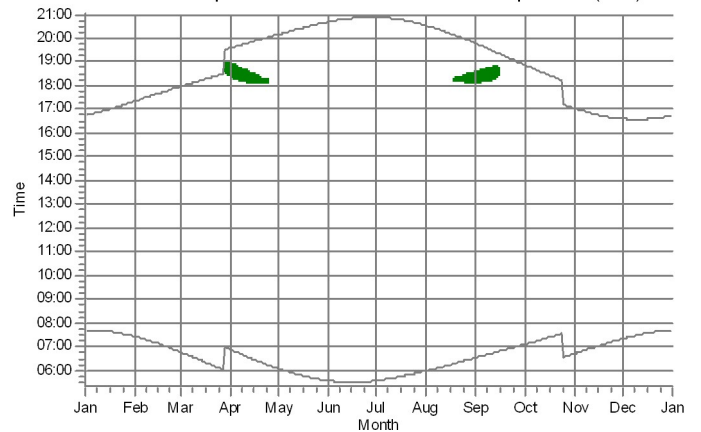
BF: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (172)



BG: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (173)



BH: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (174)



WTGs

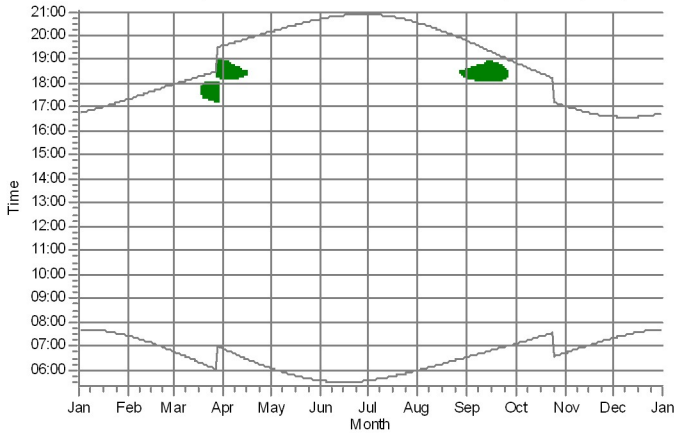
- FO 01: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (1)
- FO 02: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (2)

- FO 04: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (10)

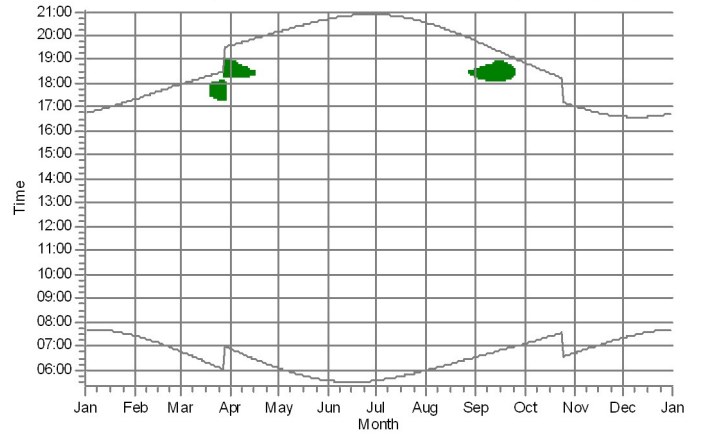
SHADOW - Calendar, graphical

Calculation: Shadow

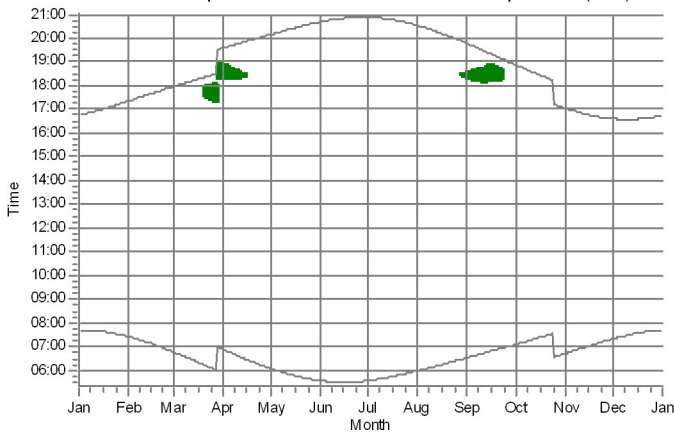
BI: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (175)



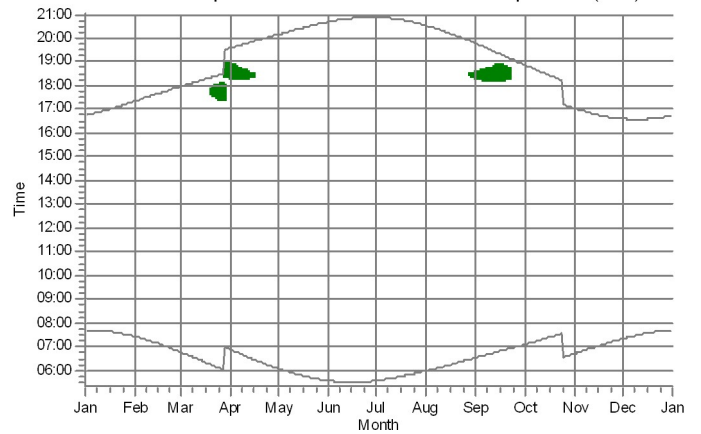
BJ: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (176)



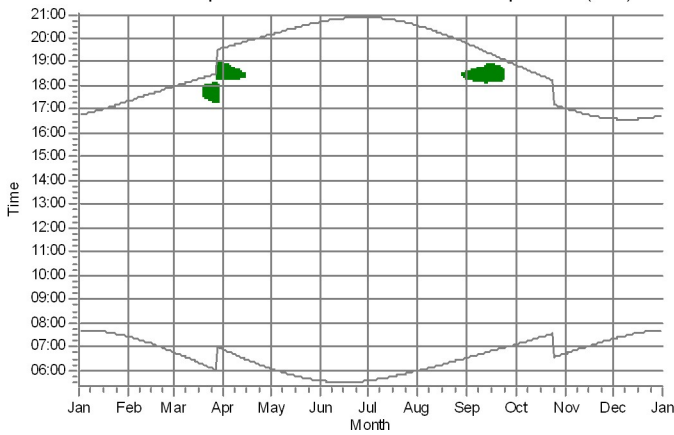
BK: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (177)



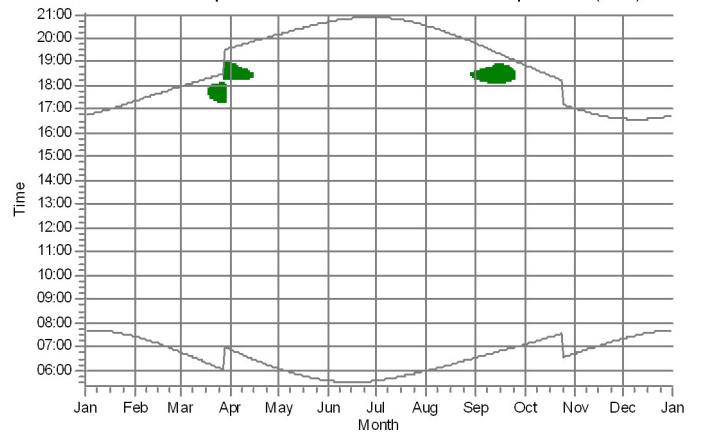
BL: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (178)



BM: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (179)



BN: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (180)



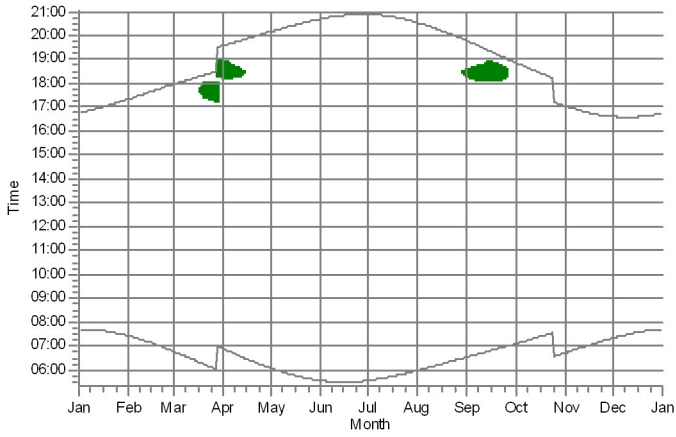
WTGs

 FO 01: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (1)

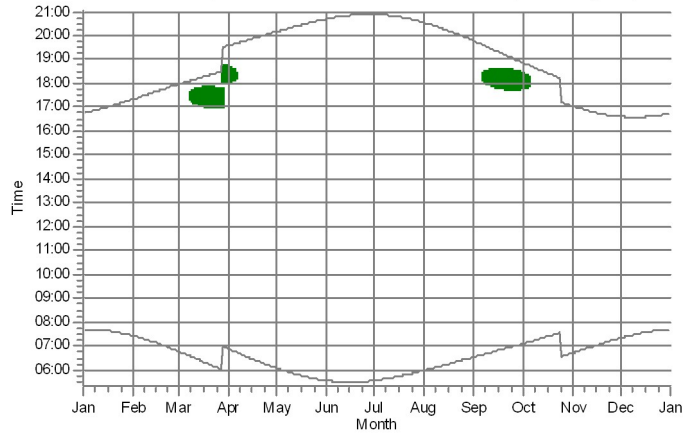
SHADOW - Calendar, graphical

Calculation: Shadow

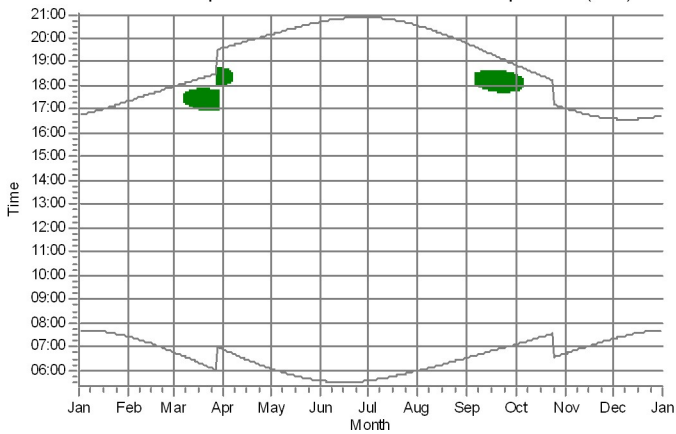
BO: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (181)



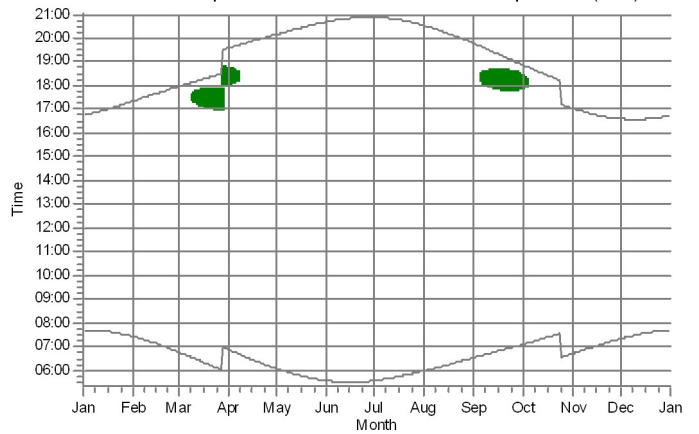
BP: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (182)



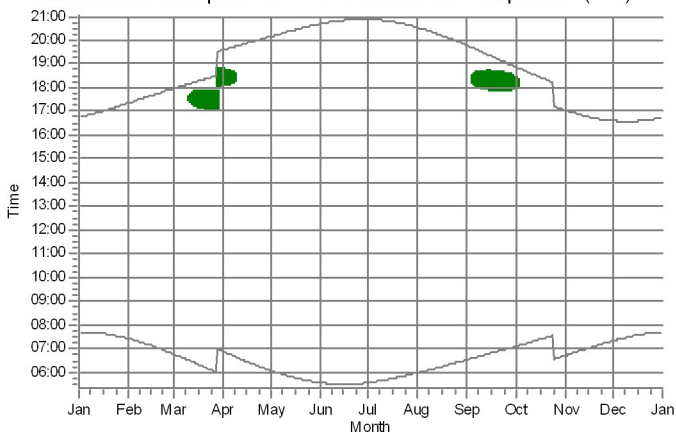
BQ: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (183)



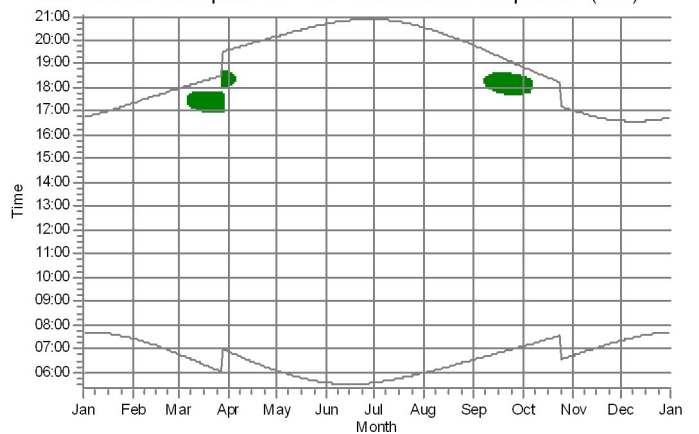
BR: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (184)



BS: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (185)



BT: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (186)



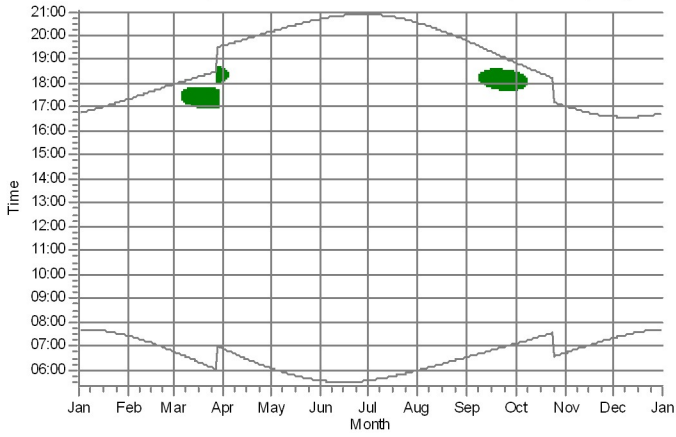
WTGs

FO 01: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (1)

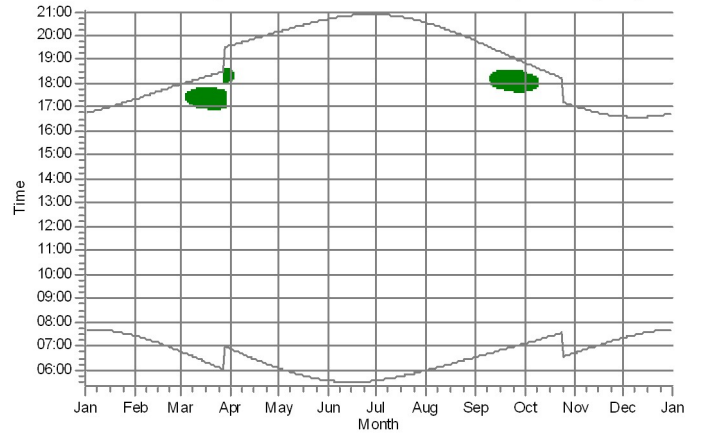
SHADOW - Calendar, graphical

Calculation: Shadow

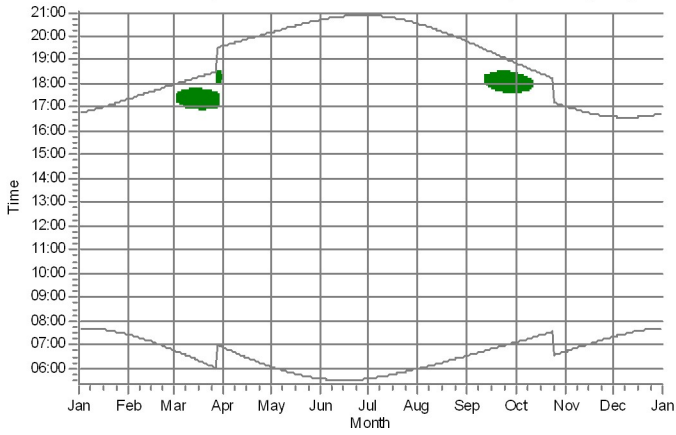
BU: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (187)



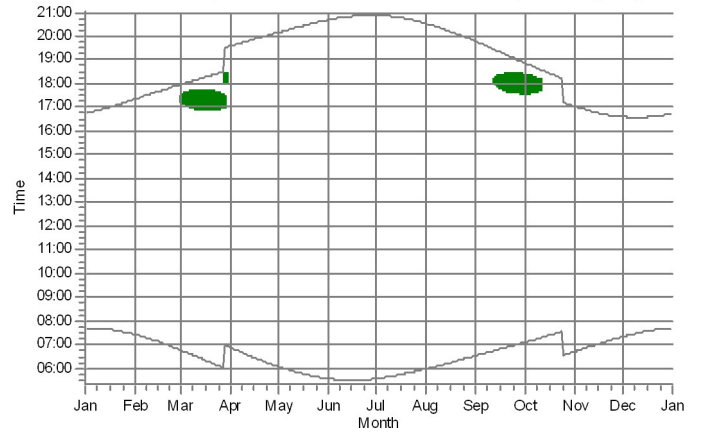
BV: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (188)



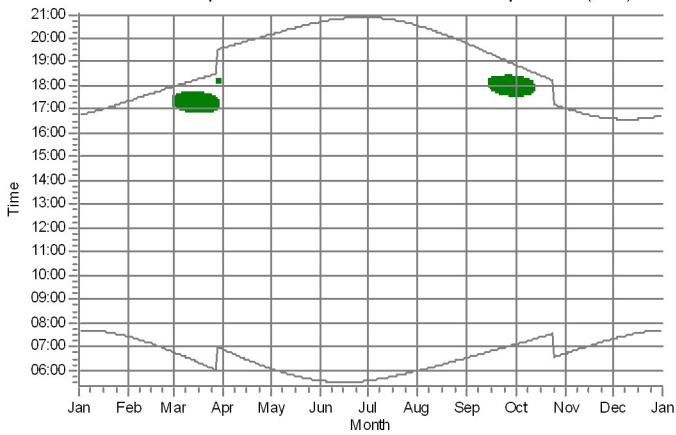
BW: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (189)



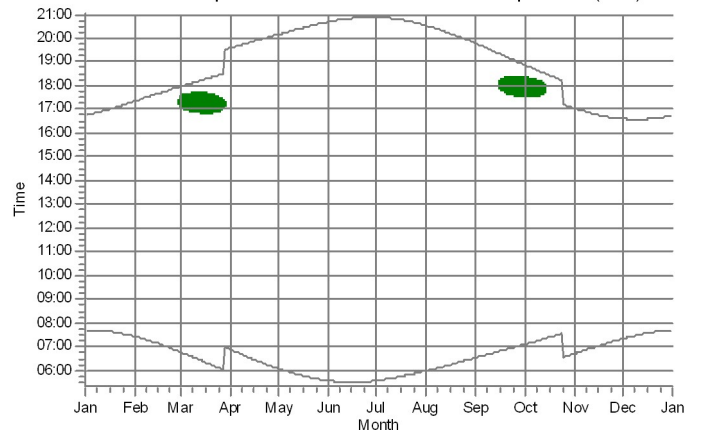
BX: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (190)



BY: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (191)



BZ: Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (192)

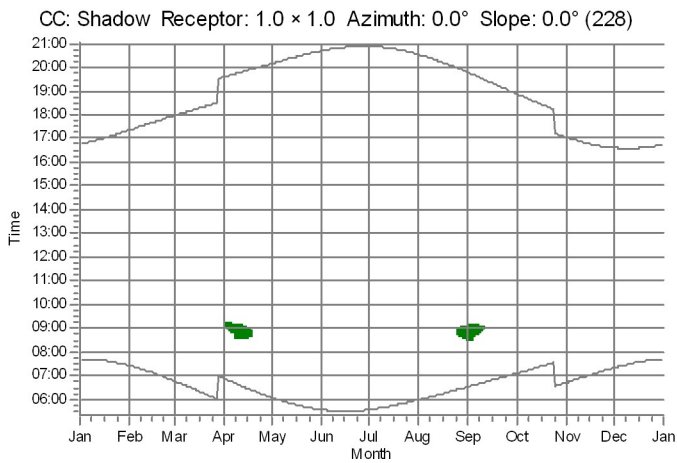
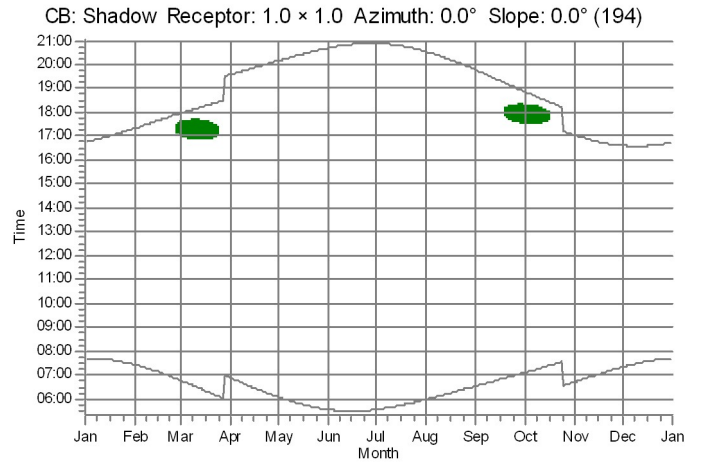
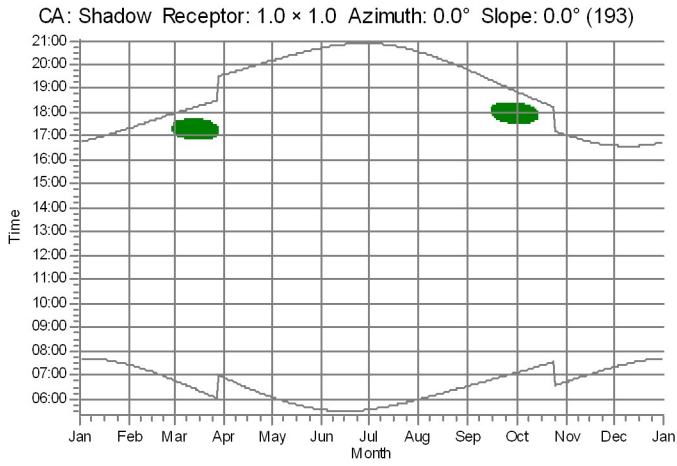


WTGs

FO 01: Siemens Gamesa SG 6.6-170 6600 170.0 IOI hub: 115.0 m (TOT: 200.0 m) (1)


SHADOW - Calendar, graphical

Calculation: Shadow



WTGs

FO 01: Siemens Gamesa SG 6.6-170 6600 170.0 !0! hub: 115.0 m (TOT: 200.0 m) (1)

	<p>PROGETTO PER LA REALIZZAZIONE DI UN PARCO EOLICO DELLA POTENZA DI 72 MW DENOMINATO "MONTE BURANO" SITUATO NEL COMUNE DI FOLIGNO (PG)</p> <p>RELAZIONE SULL'ANALISI DELL'EVOLUZIONE DELL'OMBRA INDOTTA DAGLI AEREOGENERATORI (EFFETTO SHADOW FLICKERING)</p>	<p>DATA: FEBBRAIO 2024 <i>Pag. 49 di 49</i></p>
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ALLEGATO 3

ALLEGATO 3 - "CALENDAR-TIME" (WORST CASE)

Project:
foligno

Licensed user:
EGM Project srl
via Vincenzo Verrastro 15/A
IT-85100 Potenza

Calculated:
12/02/2024 16:44/4.0.531

SHADOW - Calendar

Calculation: Shadow Shadow receptor: A - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (115)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	
1	07:41 16:44	15:24 (FO 09) 15:51 (FO 09)	07:26 17:21	06:47 17:57	15:42 (FO 10) 19:35	06:04 20:09	05:33 20:41
2	07:41 16:45	15:24 (FO 09) 15:52 (FO 09)	07:24 17:22	06:45 17:59	15:41 (FO 10) 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46	15:25 (FO 09) 15:53 (FO 09)	07:23 17:23	06:44 18:00	15:41 (FO 10) 19:37	06:02 20:12	05:32 20:43
4	07:41 16:47	15:25 (FO 09) 15:54 (FO 09)	07:22 17:25	06:42 18:01	15:42 (FO 10) 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48	15:26 (FO 09) 15:54 (FO 09)	07:21 17:26	06:40 18:02	15:42 (FO 10) 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49	15:26 (FO 09) 15:55 (FO 09)	07:20 17:27	06:39 18:04	15:42 (FO 10) 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50	15:27 (FO 09) 15:55 (FO 09)	07:19 17:29	06:37 18:05	15:42 (FO 10) 19:41	05:56 20:16	05:31 20:46
8	07:41 16:51	15:28 (FO 09) 15:56 (FO 09)	07:18 17:30	06:35 18:06	15:43 (FO 10) 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52	15:28 (FO 09) 15:56 (FO 09)	07:16 17:31	06:34 18:07	15:44 (FO 10) 19:44	05:54 20:18	05:30 20:47
10	07:40 16:53	15:28 (FO 09) 15:56 (FO 09)	07:15 17:33	06:32 18:08	15:44 (FO 10) 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54	15:29 (FO 09) 15:57 (FO 09)	07:14 17:34	06:30 18:10	15:45 (FO 10) 19:46	05:51 20:21	05:30 20:48
12	07:40 16:55	15:29 (FO 09) 15:57 (FO 09)	07:12 17:35	06:28 18:11	15:46 (FO 10) 19:47	05:50 20:22	05:29 20:49
13	07:39 16:57	15:30 (FO 09) 15:57 (FO 09)	07:11 17:37	06:27 18:12	15:47 (FO 10) 19:48	05:49 20:23	05:29 20:49
14	07:39 16:58	15:31 (FO 09) 15:57 (FO 09)	07:10 17:38	06:25 18:13	15:48 (FO 10) 19:50	05:48 20:24	05:29 20:50
15	07:38 16:59	15:32 (FO 09) 15:57 (FO 09)	07:08 17:39	06:23 18:15	15:50 (FO 10) 19:51	05:47 20:25	05:29 20:50
16	07:38 17:00	15:32 (FO 09) 15:57 (FO 09)	07:07 17:41	06:21 18:16	15:52 (FO 10) 19:52	05:46 20:26	05:29 20:50
17	07:37 17:01	15:34 (FO 09) 15:57 (FO 09)	07:05 17:42	06:20 18:17	15:54 (FO 10) 19:53	05:45 20:27	05:29 20:51
18	07:37 17:02	15:34 (FO 09) 15:56 (FO 09)	07:04 17:43	06:18 18:18	15:56 (FO 10) 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04	15:35 (FO 09) 15:56 (FO 09)	07:03 17:45	06:16 18:19	16:00 (FO 10) 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05	15:37 (FO 09) 15:56 (FO 09)	07:01 17:46	06:14 18:20	16:08 (FO 10) 19:57	05:42 20:30	05:30 20:52
21	07:35 17:06	15:38 (FO 09) 15:55 (FO 09)	07:00 17:47	06:13 18:22	15:44 (FO 10) 19:58	05:41 20:31	05:30 20:52
22	07:34 17:07	15:40 (FO 09) 15:53 (FO 09)	06:58 17:48	06:11 18:23	15:43 (FO 10) 19:59	05:40 20:32	05:30 20:52
23	07:34 17:09	15:43 (FO 09) 15:51 (FO 09)	06:56 17:50	06:09 18:24	15:43 (FO 10) 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10	06:55 17:51	06:55 17:51	06:07 18:25	06:15 20:01	05:38 20:34	05:30 20:52
25	07:32 17:11	06:53 17:52	06:53 17:52	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:53
26	07:31 17:13	06:52 17:54	06:52 17:54	06:04 18:28	06:12 20:04	05:37 20:36	05:31 20:53
27	07:30 17:14	06:50 17:55	06:50 17:55	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:53
28	07:29 17:15	06:49 17:56	06:49 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53
29	07:29 17:17			06:58 19:31	06:07 20:07	05:35 20:39	05:32 20:53
30	07:28 17:18			06:57 19:32	06:06 20:08	05:34 20:39	05:33 20:53
31	07:27 17:19			06:55 19:33		05:34 20:40	05:33 20:53
Potential sun hours	292	294	369	401	454	459	
Total, worst case	562	972	918				

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

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

Calculation: Shadow Shadow receptor: A - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (115)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December			
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	16:25 (FO 10) 17:13 (FO 10)	06:43 17:03	15:29 (FO 10) 15:54 (FO 10)	07:20 16:36	15:11 (FO 09) 15:39 (FO 09)
2	05:34 20:52	06:00 20:31	06:34 19:44	07:07 18:50	16:24 (FO 10) 17:13 (FO 10)	06:44 17:01	15:32 (FO 10) 15:50 (FO 10)	07:21 16:36	15:11 (FO 09) 15:39 (FO 09)
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	16:22 (FO 10) 17:14 (FO 10)	06:45 17:00		07:22 16:35	15:12 (FO 09) 15:40 (FO 09)
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	16:22 (FO 10) 17:15 (FO 10)	06:46 16:59		07:23 16:35	15:12 (FO 09) 15:40 (FO 09)
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	16:20 (FO 10) 17:15 (FO 10)	06:48 16:57		07:24 16:35	15:12 (FO 09) 15:40 (FO 09)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	16:19 (FO 10) 17:15 (FO 10)	06:49 16:56		07:25 16:35	15:12 (FO 09) 15:41 (FO 09)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	16:18 (FO 10) 17:15 (FO 10)	06:50 16:55		07:26 16:34	15:13 (FO 09) 15:41 (FO 09)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	16:17 (FO 10) 17:15 (FO 10)	06:52 16:54		07:27 16:34	15:13 (FO 09) 15:42 (FO 09)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	16:17 (FO 10) 17:16 (FO 10)	06:53 16:53		07:28 16:34	15:14 (FO 09) 15:42 (FO 09)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	16:16 (FO 10) 17:16 (FO 10)	06:54 16:52		07:29 16:34	15:14 (FO 09) 15:42 (FO 09)
11	05:39 20:49	06:10 20:19	06:43 19:28	07:17 18:35	16:15 (FO 10) 17:15 (FO 10)	06:55 16:50		07:30 16:34	15:15 (FO 09) 15:42 (FO 09)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	16:15 (FO 10) 17:15 (FO 10)	06:57 16:49		07:31 16:34	15:15 (FO 09) 15:42 (FO 09)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	16:14 (FO 10) 17:15 (FO 10)	06:58 16:48		07:32 16:34	15:15 (FO 09) 15:42 (FO 09)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	16:14 (FO 10) 17:15 (FO 10)	06:59 16:47		07:32 16:35	15:16 (FO 09) 15:42 (FO 09)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	16:14 (FO 10) 17:14 (FO 10)	07:01 16:46		07:33 16:35	15:17 (FO 09) 15:43 (FO 09)
16	05:43 20:46	06:15 20:12	06:49 19:19	07:23 18:27	16:14 (FO 10) 17:14 (FO 10)	07:02 16:46		07:34 16:35	15:17 (FO 09) 15:43 (FO 09)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	16:13 (FO 10) 17:13 (FO 10)	07:03 16:45		07:35 16:35	15:17 (FO 09) 15:43 (FO 09)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	16:14 (FO 10) 17:13 (FO 10)	07:04 16:44		07:35 16:36	15:18 (FO 09) 15:43 (FO 09)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	16:14 (FO 10) 17:12 (FO 10)	07:06 16:43	15:18 (FO 09)	07:36 16:36	15:18 (FO 09) 15:43 (FO 09)
20	05:47 20:44	06:19 20:06	06:53 19:12	07:28 18:20	16:14 (FO 10) 17:11 (FO 10)	07:07 16:42	8 15:26 (FO 09)	07:36 16:36	15:19 (FO 09) 15:44 (FO 09)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	16:14 (FO 10) 17:10 (FO 10)	07:08 16:41	13 15:28 (FO 09)	07:37 16:37	15:20 (FO 09) 15:45 (FO 09)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	16:16 (FO 10) 17:10 (FO 10)	07:09 16:41	16 15:30 (FO 09)	07:38 16:37	15:20 (FO 09) 15:45 (FO 09)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	16:16 (FO 10) 17:09 (FO 10)	07:11 16:40	19 15:32 (FO 09)	07:38 16:38	15:20 (FO 09) 15:45 (FO 09)
24	05:51 20:40	06:24 19:59	06:58 19:05	16:45 (FO 10) 17:00 (FO 10)	07:33 18:14	07:12 16:39	21 15:33 (FO 09)	07:38 16:38	15:21 (FO 09) 15:46 (FO 09)
25	05:52 20:39	06:25 19:58	06:59 19:03	16:40 (FO 10) 17:04 (FO 10)	06:34 17:12	07:13 16:39	22 15:33 (FO 09)	07:39 16:39	15:21 (FO 09) 15:46 (FO 09)
26	05:53 20:38	06:26 19:56	07:00 19:01	16:37 (FO 10) 17:07 (FO 10)	06:35 17:11	07:14 16:38	23 15:34 (FO 09)	07:39 16:40	15:21 (FO 09) 15:47 (FO 09)
27	05:54 20:37	06:27 19:54	07:01 18:59	16:34 (FO 10) 17:09 (FO 10)	06:36 17:10	07:15 16:38	24 15:36 (FO 09)	07:40 16:40	15:22 (FO 09) 15:48 (FO 09)
28	05:55 20:36	06:28 19:53	07:02 18:58	16:32 (FO 10) 17:10 (FO 10)	06:38 17:08	07:17 16:37	25 15:36 (FO 09)	07:40 16:41	15:23 (FO 09) 15:48 (FO 09)
29	05:56 20:35	06:29 19:51	07:03 18:56	16:29 (FO 10) 17:11 (FO 10)	06:39 17:07	07:18 16:37	26 15:37 (FO 09)	07:40 16:42	15:23 (FO 09) 15:49 (FO 09)
30	05:57 20:34	06:30 19:49	07:04 18:54	16:27 (FO 10) 17:12 (FO 10)	06:40 17:05	07:19 16:36	27 15:10 (FO 09)	07:40 16:43	15:23 (FO 09) 15:50 (FO 09)
31	05:58 20:33	06:31 19:47		06:41 17:04	06:41 15:57 (FO 10)			07:41 16:43	15:23 (FO 09) 15:50 (FO 09)
Potential sun hours	465	432	376	343	293	281			
Total, worst case			229	1642	295	824			

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

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

Calculation: Shadow Shadow receptor: B - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (116)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January		February		March		April	May	June
1	07:41	15:22 (FO 09)	07:26		06:47	15:37 (FO 10)	06:53	06:04	05:33
	16:44	25 15:47 (FO 09)	17:21		17:57	62 16:39 (FO 10)	19:35	20:09	20:41
2	07:41	15:22 (FO 09)	07:24		06:45	15:37 (FO 10)	06:51	06:03	05:33
	16:45	26 15:48 (FO 09)	17:22		17:59	62 16:39 (FO 10)	19:36	20:10	20:42
3	07:41	15:23 (FO 09)	07:23		06:44	15:37 (FO 10)	06:50	06:02	05:32
	16:46	26 15:49 (FO 09)	17:23		18:00	61 16:38 (FO 10)	19:37	20:12	20:43
4	07:41	15:23 (FO 09)	07:22		06:42	15:38 (FO 10)	06:48	06:00	05:32
	16:47	27 15:50 (FO 09)	17:25		18:01	60 16:38 (FO 10)	19:38	20:13	20:43
5	07:41	15:24 (FO 09)	07:21		06:40	15:38 (FO 10)	06:46	05:59	05:31
	16:48	27 15:51 (FO 09)	17:26		18:02	60 16:38 (FO 10)	19:39	20:14	20:44
6	07:41	15:24 (FO 09)	07:20		06:39	15:38 (FO 10)	06:44	05:58	05:31
	16:49	28 15:52 (FO 09)	17:27		18:04	59 16:37 (FO 10)	19:40	20:15	20:45
7	07:41	15:25 (FO 09)	07:19		06:37	15:38 (FO 10)	06:43	05:56	05:31
	16:50	29 15:54 (FO 09)	17:29		18:05	58 16:36 (FO 10)	19:41	20:16	20:46
8	07:41	15:26 (FO 09)	07:18		06:35	15:39 (FO 10)	06:41	05:55	05:30
	16:51	28 15:54 (FO 09)	17:30	15 16:01 (FO 10)	18:06	57 16:36 (FO 10)	19:43	20:17	20:46
9	07:40	15:26 (FO 09)	07:16		06:34	15:39 (FO 10)	06:39	05:54	05:30
	16:52	28 15:54 (FO 09)	17:31	24 16:21 (FO 10)	18:07	56 16:35 (FO 10)	19:44	20:18	20:47
10	07:40	15:26 (FO 09)	07:15		06:32	15:40 (FO 10)	06:37	05:53	05:30
	16:53	28 15:54 (FO 09)	17:33	30 16:23 (FO 10)	18:08	54 16:34 (FO 10)	19:45	20:19	20:47
11	07:40	15:27 (FO 09)	07:14		06:30	15:40 (FO 10)	06:36	05:51	05:30
	16:54	28 15:55 (FO 09)	17:34	35 16:26 (FO 10)	18:10	52 16:32 (FO 10)	19:46	20:21	20:48
12	07:40	15:27 (FO 09)	07:12		06:28	15:42 (FO 10)	06:34	05:50	05:29
	16:55	28 15:55 (FO 09)	17:35	38 16:28 (FO 10)	18:11	50 16:32 (FO 10)	19:47	20:22	20:49
13	07:39	15:29 (FO 09)	07:11		06:27	15:43 (FO 10)	06:32	05:49	05:29
	16:57	26 15:55 (FO 09)	17:37	41 16:29 (FO 10)	18:12	47 16:30 (FO 10)	19:48	20:23	20:49
14	07:39	15:29 (FO 09)	07:10		06:25	15:44 (FO 10)	06:31	05:48	05:29
	16:58	26 15:55 (FO 09)	17:38	44 16:31 (FO 10)	18:13	45 16:29 (FO 10)	19:50	20:24	20:50
15	07:38	15:30 (FO 09)	07:08		06:23	15:45 (FO 10)	06:29	05:47	05:29
	16:59	25 15:55 (FO 09)	17:39	47 16:32 (FO 10)	18:15	42 16:27 (FO 10)	19:51	20:25	20:50
16	07:38	15:31 (FO 09)	07:07		06:21	15:48 (FO 10)	06:27	05:46	05:29
	17:00	24 15:55 (FO 09)	17:41	49 16:33 (FO 10)	18:16	38 16:26 (FO 10)	19:52	20:26	20:50
17	07:37	15:32 (FO 09)	07:05		06:20	15:50 (FO 10)	06:26	05:45	05:29
	17:01	23 15:55 (FO 09)	17:42	52 16:34 (FO 10)	18:17	33 16:23 (FO 10)	19:53	20:27	20:51
18	07:37	15:33 (FO 09)	07:04		06:18	15:52 (FO 10)	06:24	05:44	05:29
	17:02	21 15:54 (FO 09)	17:43	53 16:35 (FO 10)	18:18	28 16:20 (FO 10)	19:54	20:28	20:51
19	07:36	15:34 (FO 09)	07:03		06:16	15:55 (FO 10)	06:23	05:43	05:29
	17:04	19 15:53 (FO 09)	17:45	55 16:36 (FO 10)	18:19	22 16:17 (FO 10)	19:55	20:29	20:51
20	07:36	15:36 (FO 09)	07:01		06:14	16:00 (FO 10)	06:21	05:42	05:30
	17:05	17 15:53 (FO 09)	17:46	57 16:37 (FO 10)	18:20	11 16:11 (FO 10)	19:57	20:30	20:52
21	07:35	15:37 (FO 09)	07:00		06:13		06:19	05:41	05:30
	17:06	15 15:52 (FO 09)	17:47	58 16:37 (FO 10)	18:22		19:58	20:31	20:52
22	07:34	15:39 (FO 09)	06:58		06:11		06:18	05:40	05:30
	17:07	11 15:50 (FO 09)	17:48	59 16:38 (FO 10)	18:23		19:59	20:32	20:52
23	07:34	15:44 (FO 09)	06:56		06:09		06:16	05:39	05:30
	17:09	2 15:46 (FO 09)	17:50	60 16:38 (FO 10)	18:24		20:00	20:33	20:52
24	07:33		06:55		06:07		06:15	05:38	05:30
	17:10		17:51	61 16:39 (FO 10)	18:25		20:01	20:34	20:52
25	07:32		06:53		06:05		06:13	05:38	05:31
	17:11		17:52	61 16:39 (FO 10)	18:26		20:02	20:35	20:53
26	07:31		06:52		06:04		06:12	05:37	05:31
	17:13		17:54	61 16:38 (FO 10)	18:28		20:04	20:36	20:53
27	07:30		06:50		06:02		06:10	05:36	05:31
	17:14		17:55	62 16:39 (FO 10)	18:29		20:05	20:37	20:53
28	07:29		06:49		06:00		06:09	05:36	05:32
	17:15		17:56	62 16:39 (FO 10)	18:30		20:06	20:38	20:53
29	07:29				06:58		06:07	05:35	05:32
	17:17				19:31		20:07	20:39	20:53
30	07:28				06:57		06:06	05:34	05:33
	17:18				19:32		20:08	20:39	20:53
31	07:27				06:55			05:34	
	17:19				19:33			20:40	
Potential sun hours	292		294		369		401	454	459
Total, worst case	537		1024		957				

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

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

Calculation: Shadow Shadow receptor: B - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (116)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December			
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	16:21 (FO 10) 17:10 (FO 10)	06:43 17:03	15:24 (FO 10) 15:52 (FO 10)	07:20 16:36	15:10 (FO 09) 15:37 (FO 09)
2	05:34 20:52	06:00 20:31	06:34 19:44	07:07 18:50	16:20 (FO 10) 17:11 (FO 10)	06:44 17:01	15:26 (FO 10) 15:49 (FO 10)	07:21 16:36	15:10 (FO 09) 15:37 (FO 09)
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	16:18 (FO 10) 17:11 (FO 10)	06:45 17:00	15:31 (FO 10) 15:45 (FO 10)	07:22 16:35	15:10 (FO 09) 15:38 (FO 09)
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	16:17 (FO 10) 17:12 (FO 10)	06:46 16:59	15:33 (FO 10) 15:48 (FO 10)	07:23 16:35	15:10 (FO 09) 15:38 (FO 09)
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	16:16 (FO 10) 17:12 (FO 10)	06:48 16:57	15:34 (FO 10) 15:49 (FO 10)	07:24 16:35	15:10 (FO 09) 15:39 (FO 09)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	16:15 (FO 10) 17:12 (FO 10)	06:49 16:56	15:35 (FO 10) 15:50 (FO 10)	07:25 16:35	15:10 (FO 09) 15:38 (FO 09)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	16:14 (FO 10) 17:12 (FO 10)	06:50 16:55	15:36 (FO 10) 15:51 (FO 10)	07:26 16:34	15:11 (FO 09) 15:38 (FO 09)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	16:13 (FO 10) 17:12 (FO 10)	06:52 16:54	15:37 (FO 10) 15:52 (FO 10)	07:27 16:34	15:11 (FO 09) 15:38 (FO 09)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	16:13 (FO 10) 17:13 (FO 10)	06:53 16:53	15:38 (FO 10) 15:53 (FO 10)	07:28 16:34	15:12 (FO 09) 15:38 (FO 09)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	16:12 (FO 10) 17:13 (FO 10)	06:54 16:52	15:39 (FO 10) 15:54 (FO 10)	07:29 16:34	15:12 (FO 09) 15:38 (FO 09)
11	05:39 20:49	06:10 20:19	06:43 19:28	07:17 18:35	16:11 (FO 10) 17:13 (FO 10)	06:55 16:50	15:40 (FO 10) 15:55 (FO 10)	07:30 16:34	15:13 (FO 09) 15:39 (FO 09)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	16:10 (FO 10) 17:12 (FO 10)	06:57 16:49	15:41 (FO 10) 15:56 (FO 10)	07:31 16:34	15:13 (FO 09) 15:39 (FO 09)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	16:10 (FO 10) 17:12 (FO 10)	06:58 16:48	15:42 (FO 10) 15:57 (FO 10)	07:32 16:34	15:13 (FO 09) 15:38 (FO 09)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	16:10 (FO 10) 17:12 (FO 10)	06:59 16:47	15:43 (FO 10) 15:58 (FO 10)	07:32 16:35	15:14 (FO 09) 15:38 (FO 09)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	16:10 (FO 10) 17:11 (FO 10)	07:01 16:46	15:44 (FO 10) 15:59 (FO 10)	07:33 16:35	15:14 (FO 09) 15:39 (FO 09)
16	05:43 20:46	06:15 20:12	06:49 19:19	07:23 18:27	16:09 (FO 10) 17:11 (FO 10)	07:02 16:46	15:45 (FO 10) 15:60 (FO 10)	07:34 16:35	15:15 (FO 09) 15:39 (FO 09)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	16:09 (FO 10) 17:10 (FO 10)	07:03 16:45	15:46 (FO 10) 15:61 (FO 10)	07:35 16:35	15:15 (FO 09) 15:39 (FO 09)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	16:10 (FO 10) 17:10 (FO 10)	07:04 16:44	15:47 (FO 10) 15:62 (FO 10)	07:35 16:36	15:16 (FO 09) 15:40 (FO 09)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	16:10 (FO 10) 17:09 (FO 10)	07:06 16:43	15:48 (FO 10) 15:63 (FO 10)	07:36 16:36	15:16 (FO 09) 15:39 (FO 09)
20	05:47 20:44	06:19 20:06	06:53 19:12	07:28 18:20	16:10 (FO 10) 17:08 (FO 10)	07:07 16:42	15:49 (FO 10) 15:64 (FO 10)	07:36 16:36	15:17 (FO 09) 15:40 (FO 09)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	16:10 (FO 10) 17:07 (FO 10)	07:08 16:41	15:50 (FO 10) 15:65 (FO 10)	07:37 16:37	15:18 (FO 09) 15:41 (FO 09)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	16:11 (FO 10) 17:07 (FO 10)	07:09 16:41	15:51 (FO 10) 15:66 (FO 10)	07:38 16:37	15:18 (FO 09) 15:41 (FO 09)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	16:11 (FO 10) 17:06 (FO 10)	07:11 16:40	15:52 (FO 10) 15:67 (FO 10)	07:38 16:38	15:18 (FO 09) 15:41 (FO 09)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	16:12 (FO 10) 17:05 (FO 10)	07:12 16:39	15:53 (FO 10) 15:68 (FO 10)	07:38 16:38	15:19 (FO 09) 15:42 (FO 09)
25	05:52 20:39	06:25 19:58	06:59 19:03	07:34 18:12	16:13 (FO 10) 17:04 (FO 10)	07:13 16:39	15:54 (FO 10) 15:69 (FO 10)	07:39 16:39	15:19 (FO 09) 15:43 (FO 09)
26	05:53 20:38	06:26 19:56	07:00 19:01	07:35 18:11	16:14 (FO 10) 17:03 (FO 10)	07:14 16:38	15:55 (FO 10) 15:70 (FO 10)	07:39 16:40	15:19 (FO 09) 15:43 (FO 09)
27	05:54 20:37	06:27 19:54	07:01 18:59	07:36 18:10	16:15 (FO 10) 17:02 (FO 10)	07:15 16:38	15:56 (FO 10) 15:71 (FO 10)	07:40 16:40	15:20 (FO 09) 15:44 (FO 09)
28	05:55 20:36	06:28 19:53	07:02 18:58	07:37 18:08	16:16 (FO 10) 17:01 (FO 10)	07:17 16:37	15:57 (FO 10) 15:72 (FO 10)	07:40 16:41	15:20 (FO 09) 15:45 (FO 09)
29	05:56 20:35	06:29 19:51	07:03 18:56	07:39 18:07	16:17 (FO 10) 17:00 (FO 10)	07:18 16:37	15:58 (FO 10) 15:73 (FO 10)	07:40 16:42	15:21 (FO 09) 15:45 (FO 09)
30	05:57 20:34	06:30 19:49	07:04 18:54	07:40 18:06	16:18 (FO 10) 17:00 (FO 10)	07:19 16:36	15:59 (FO 10) 15:74 (FO 10)	07:40 16:43	15:21 (FO 09) 15:46 (FO 09)
31	05:58 20:33	06:31 19:47	07:05 18:53	07:41 18:05	16:19 (FO 10) 17:00 (FO 10)	07:20 16:35	15:60 (FO 10) 15:75 (FO 10)	07:41 16:43	15:21 (FO 09) 15:46 (FO 09)
Potential sun hours	465	432	376	343	293	281			
Total, worst case			250	1688	301	780			

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

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

Calculation: Shadow Shadow receptor: C - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (117)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:44	15:30 (FO 09) 15:56 (FO 09)	07:26 17:21	06:47 17:57	15:55 (FO 10) 16:53 (FO 10)	06:53 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45	15:31 (FO 09) 15:57 (FO 09)	07:24 17:22	06:45 17:59	15:54 (FO 10) 16:53 (FO 10)	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46	15:31 (FO 09) 15:58 (FO 09)	07:23 17:23	06:44 18:00	15:53 (FO 10) 16:53 (FO 10)	06:50 19:37	06:02 20:12	05:32 20:43
4	07:41 16:47	15:31 (FO 09) 15:58 (FO 09)	07:22 17:25	06:42 18:01	15:53 (FO 10) 16:53 (FO 10)	06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48	15:32 (FO 09) 15:59 (FO 09)	07:21 17:26	06:40 18:02	15:53 (FO 10) 16:53 (FO 10)	06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49	15:32 (FO 09) 16:00 (FO 09)	07:20 17:27	06:39 18:04	15:52 (FO 10) 16:53 (FO 10)	06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50	15:33 (FO 09) 16:01 (FO 09)	07:19 17:29	06:37 18:05	15:52 (FO 10) 16:52 (FO 10)	06:43 19:41	05:56 20:16	05:31 20:46
8	07:41 16:51	15:33 (FO 09) 16:02 (FO 09)	07:18 17:30	06:35 18:06	15:52 (FO 10) 16:53 (FO 10)	06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52	15:33 (FO 09) 16:01 (FO 09)	07:16 17:31	06:34 18:07	15:52 (FO 10) 16:52 (FO 10)	06:39 19:44	05:54 20:18	05:30 20:47
10	07:40 16:53	15:34 (FO 09) 16:02 (FO 09)	07:15 17:33	06:32 18:08	15:52 (FO 10) 16:52 (FO 10)	06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54	15:34 (FO 09) 16:03 (FO 09)	07:14 17:34	06:30 18:10	15:52 (FO 10) 16:51 (FO 10)	06:36 19:46	05:51 20:21	05:30 20:48
12	07:40 16:55	15:34 (FO 09) 16:03 (FO 09)	07:12 17:35	06:28 18:11	15:53 (FO 10) 16:51 (FO 10)	06:34 19:47	05:50 20:22	05:29 20:49
13	07:39 16:57	15:35 (FO 09) 16:03 (FO 09)	07:11 17:37	06:27 18:12	15:53 (FO 10) 16:50 (FO 10)	06:32 19:48	05:49 20:23	05:29 20:49
14	07:39 16:58	15:35 (FO 09) 16:03 (FO 09)	07:10 17:38	06:25 18:13	15:53 (FO 10) 16:49 (FO 10)	06:31 19:50	05:48 20:24	05:29 20:50
15	07:38 16:59	15:36 (FO 09) 16:04 (FO 09)	07:08 17:39	06:23 18:15	15:54 (FO 10) 16:48 (FO 10)	06:29 19:51	05:47 20:25	05:29 20:50
16	07:38 17:00	15:36 (FO 09) 16:04 (FO 09)	07:07 17:41	06:21 18:16	15:55 (FO 10) 16:48 (FO 10)	06:27 19:52	05:46 20:26	05:29 20:50
17	07:37 17:01	15:37 (FO 09) 16:04 (FO 09)	07:05 17:42	06:20 18:17	15:56 (FO 10) 16:46 (FO 10)	06:26 19:53	05:45 20:27	05:29 20:51
18	07:37 17:02	15:38 (FO 09) 16:04 (FO 09)	07:04 17:43	06:18 18:18	15:56 (FO 10) 16:45 (FO 10)	06:24 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04	15:38 (FO 09) 16:04 (FO 09)	07:03 17:45	06:16 18:19	15:57 (FO 10) 16:43 (FO 10)	06:23 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05	15:39 (FO 09) 16:04 (FO 09)	07:01 17:46	06:14 18:20	15:58 (FO 10) 16:41 (FO 10)	06:21 19:57	05:42 20:30	05:30 20:52
21	07:35 17:06	15:40 (FO 09) 16:04 (FO 09)	07:00 17:47	06:13 18:22	16:00 (FO 10) 16:41 (FO 10)	06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 17:07	15:41 (FO 09) 16:03 (FO 09)	06:58 17:48	06:11 18:23	16:02 (FO 10) 16:38 (FO 10)	06:18 19:59	05:40 20:32	05:30 20:52
23	07:34 17:09	15:42 (FO 09) 16:02 (FO 09)	06:56 17:50	06:09 18:24	16:04 (FO 10) 16:36 (FO 10)	06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10	15:43 (FO 09) 16:02 (FO 09)	06:55 17:51	06:07 18:25	15:59 (FO 10) 16:50 (FO 10)	06:15 20:01	05:38 20:34	05:30 20:52
25	07:32 17:11	15:45 (FO 09) 16:00 (FO 09)	06:53 17:52	06:05 18:26	16:10 (FO 10) 16:30 (FO 10)	06:13 20:02	05:38 20:35	05:31 20:53
26	07:31 17:13	15:48 (FO 09) 16:00 (FO 09)	06:52 17:54	06:04 18:28	15:56 (FO 10) 16:50 (FO 10)	06:12 20:04	05:37 20:36	05:31 20:53
27	07:30 17:14	15:51 (FO 09) 15:56 (FO 09)	06:50 17:55	06:02 18:29	15:56 (FO 10) 16:52 (FO 10)	06:10 20:05	05:36 20:37	05:31 20:53
28	07:29 17:15		06:49 17:56	06:00 18:30	15:55 (FO 10) 16:52 (FO 10)	06:09 20:06	05:36 20:38	05:32 20:53
29	07:29 17:17			06:58 19:31		06:07 20:07	05:35 20:39	05:32 20:53
30	07:28 17:18			06:57 19:32		06:06 20:08	05:34 20:39	05:33 20:53
31	07:27 17:19			06:55 19:33			05:34 20:40	
Potential sun hours	292		294	369	401	454	459	
Total, worst case	665		573	1287				

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

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

Calculation: Shadow Shadow receptor: C - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (117)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December		
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	16:32 (FO 10) 17:29 (FO 10)	06:43 17:03	07:20 16:36	15:16 (FO 09) 15:45 (FO 09)
2	05:34 20:52	06:00 20:31	06:34 19:44	07:07 18:50	16:31 (FO 10) 17:29 (FO 10)	06:44 17:01	07:21 16:36	15:17 (FO 09) 15:45 (FO 09)
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	16:30 (FO 10) 17:29 (FO 10)	06:45 17:00	07:22 16:35	15:17 (FO 09) 15:45 (FO 09)
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	16:30 (FO 10) 17:30 (FO 10)	06:46 16:59	07:23 16:35	15:17 (FO 09) 15:46 (FO 09)
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	16:29 (FO 10) 17:29 (FO 10)	06:48 16:57	07:24 16:35	15:18 (FO 09) 15:46 (FO 09)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	16:28 (FO 10) 17:29 (FO 10)	06:49 16:56	07:25 16:35	15:18 (FO 09) 15:46 (FO 09)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	16:28 (FO 10) 17:29 (FO 10)	06:50 16:55	07:26 16:34	15:19 (FO 09) 15:46 (FO 09)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	16:27 (FO 10) 17:28 (FO 10)	06:52 16:54	07:27 16:34	15:19 (FO 09) 15:47 (FO 09)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	16:28 (FO 10) 17:28 (FO 10)	06:53 16:53	07:28 16:34	15:20 (FO 09) 15:47 (FO 09)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	16:28 (FO 10) 17:28 (FO 10)	06:54 16:52	07:29 16:34	15:21 (FO 09) 15:47 (FO 09)
11	05:39 20:49	06:10 20:19	06:43 19:28	07:17 18:35	16:27 (FO 10) 17:27 (FO 10)	06:55 16:50	07:30 16:34	15:21 (FO 09) 15:47 (FO 09)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	16:27 (FO 10) 17:26 (FO 10)	06:57 16:49	07:31 16:34	15:22 (FO 09) 15:47 (FO 09)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	16:27 (FO 10) 17:25 (FO 10)	06:58 16:48	07:32 16:34	15:22 (FO 09) 15:47 (FO 09)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	16:28 (FO 10) 17:25 (FO 10)	06:59 16:47	07:32 16:35	15:23 (FO 09) 15:47 (FO 09)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	16:28 (FO 10) 17:24 (FO 10)	07:01 16:46	07:33 15:23 (FO 09)	15:23 (FO 09) 15:47 (FO 09)
16	05:43 20:46	06:15 20:12	06:49 19:19	07:23 18:27	16:29 (FO 10) 17:22 (FO 10)	07:02 16:46	07:34 15:21 (FO 09)	15:24 (FO 09) 15:48 (FO 09)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	16:29 (FO 10) 17:21 (FO 10)	07:03 16:45	07:35 15:34 (FO 09)	15:24 (FO 09) 15:48 (FO 09)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	16:31 (FO 10) 17:21 (FO 10)	07:04 16:44	07:35 15:17 (FO 09)	15:25 (FO 09) 15:48 (FO 09)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	16:31 (FO 10) 17:19 (FO 10)	07:06 16:43	07:36 15:17 (FO 09)	15:25 (FO 09) 15:48 (FO 09)
20	05:47 20:44	06:19 20:06	06:53 19:12	07:28 18:20	16:32 (FO 10) 17:17 (FO 10)	07:07 16:42	07:36 15:16 (FO 09)	15:26 (FO 09) 15:49 (FO 09)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	16:33 (FO 10) 17:15 (FO 10)	07:08 16:41	07:37 15:15 (FO 09)	15:26 (FO 09) 15:49 (FO 09)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	16:35 (FO 10) 17:14 (FO 10)	07:09 16:41	07:38 15:15 (FO 09)	15:27 (FO 09) 15:50 (FO 09)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	16:37 (FO 10) 17:12 (FO 10)	07:11 16:40	07:38 15:15 (FO 09)	15:27 (FO 09) 15:50 (FO 09)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	16:38 (FO 10) 17:09 (FO 10)	07:12 16:39	07:38 15:15 (FO 09)	15:28 (FO 09) 15:51 (FO 09)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 18:12	16:39 (FO 10) 17:27 (FO 10)	07:13 16:39	07:39 15:14 (FO 09)	15:28 (FO 09) 15:51 (FO 09)
26	05:53 20:38	06:26 19:56	07:00 19:01	07:35 18:11	16:38 (FO 10) 17:29 (FO 10)	07:14 16:38	07:39 15:15 (FO 09)	15:28 (FO 09) 15:51 (FO 09)
27	05:54 20:37	06:27 19:54	07:01 18:59	07:36 18:10	16:37 (FO 10) 17:29 (FO 10)	07:15 16:38	07:40 15:15 (FO 09)	15:29 (FO 09) 15:53 (FO 09)
28	05:55 20:36	06:28 19:53	07:02 18:58	07:38 18:08	16:35 (FO 10) 17:29 (FO 10)	07:17 16:37	07:40 15:15 (FO 09)	15:29 (FO 09) 15:53 (FO 09)
29	05:56 20:35	06:29 19:51	07:03 18:56	07:39 18:07	16:34 (FO 10) 17:29 (FO 10)	07:18 16:37	07:40 15:15 (FO 09)	15:30 (FO 09) 15:54 (FO 09)
30	05:57 20:34	06:30 19:49	07:04 18:54	07:40 18:06	16:33 (FO 10) 17:29 (FO 10)	07:19 16:36	07:40 15:15 (FO 09)	15:30 (FO 09) 15:54 (FO 09)
31	05:58 20:33	06:31 19:47	07:05 18:53	07:41 18:05	16:33 (FO 10) 17:29 (FO 10)	07:20 16:36	07:41 16:43	15:30 (FO 09) 15:55 (FO 09)
Potential sun hours	465	432	376	343	293	281		
Total, worst case			552	1325	364	778		

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

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

Calculation: Shadow Shadow receptor: D - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (118)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	
1	07:41 16:44	15:21 (FO 09) 15:47 (FO 09)	07:26 17:21	06:47 17:57	15:36 (FO 10) 19:35	06:04 20:09	05:33 20:41
2	07:41 16:45	15:21 (FO 09) 15:48 (FO 09)	07:24 17:22	06:45 17:59	15:36 (FO 10) 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46	15:22 (FO 09) 15:49 (FO 09)	07:23 17:23	06:44 18:00	15:36 (FO 10) 19:37	06:02 20:12	05:32 20:43
4	07:41 16:47	15:23 (FO 09) 15:50 (FO 09)	07:22 17:25	06:42 18:01	15:37 (FO 10) 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48	15:23 (FO 09) 15:51 (FO 09)	07:21 17:26	06:40 18:02	15:37 (FO 10) 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49	15:24 (FO 09) 15:52 (FO 09)	07:20 17:27	16:01 (FO 10) 16:13 (FO 10)	06:39 18:04	06:44 19:40	05:58 20:45
7	07:41 16:50	15:24 (FO 09) 15:53 (FO 09)	07:19 17:29	15:56 (FO 10) 16:17 (FO 10)	06:37 18:05	06:43 19:41	05:56 20:46
8	07:41 16:51	15:25 (FO 09) 15:53 (FO 09)	07:18 17:30	15:53 (FO 10) 16:20 (FO 10)	06:35 18:06	06:41 19:43	05:55 20:46
9	07:40 16:52	15:25 (FO 09) 15:53 (FO 09)	07:16 17:31	15:51 (FO 10) 16:23 (FO 10)	06:34 18:07	06:39 19:44	05:54 20:47
10	07:40 16:53	15:26 (FO 09) 15:53 (FO 09)	07:15 17:33	15:48 (FO 10) 16:24 (FO 10)	06:32 18:08	06:37 19:45	05:53 20:47
11	07:40 16:54	15:27 (FO 09) 15:54 (FO 09)	07:14 17:34	15:47 (FO 10) 16:27 (FO 10)	06:30 18:10	06:36 19:46	05:51 20:48
12	07:40 16:55	15:27 (FO 09) 15:53 (FO 09)	07:12 17:35	15:46 (FO 10) 16:29 (FO 10)	06:28 18:11	06:34 19:47	05:50 20:49
13	07:39 16:57	15:28 (FO 09) 15:54 (FO 09)	07:11 17:37	15:44 (FO 10) 16:29 (FO 10)	06:27 18:12	06:32 19:48	05:49 20:49
14	07:39 16:58	15:29 (FO 09) 15:53 (FO 09)	07:10 17:38	15:43 (FO 10) 16:31 (FO 10)	06:25 18:13	06:31 19:50	05:48 20:50
15	07:38 16:59	15:30 (FO 09) 15:54 (FO 09)	07:08 17:39	15:41 (FO 10) 16:32 (FO 10)	06:23 18:15	06:29 19:51	05:47 20:50
16	07:38 17:00	15:30 (FO 09) 15:53 (FO 09)	07:07 17:41	15:41 (FO 10) 16:33 (FO 10)	06:21 18:16	06:27 19:52	05:46 20:50
17	07:37 17:01	15:32 (FO 09) 15:53 (FO 09)	07:05 17:42	15:39 (FO 10) 16:33 (FO 10)	06:20 18:17	06:26 19:53	05:45 20:51
18	07:37 17:02	15:33 (FO 09) 15:53 (FO 09)	07:04 17:43	15:39 (FO 10) 16:35 (FO 10)	06:18 18:18	06:24 19:54	05:44 20:51
19	07:36 17:04	15:34 (FO 09) 15:52 (FO 09)	07:03 17:45	15:38 (FO 10) 16:35 (FO 10)	06:16 18:19	06:23 19:55	05:43 20:51
20	07:36 17:05	15:36 (FO 09) 15:51 (FO 09)	07:01 17:46	15:38 (FO 10) 16:36 (FO 10)	06:14 18:20	06:21 19:57	05:42 20:52
21	07:35 17:06	15:38 (FO 09) 15:50 (FO 09)	07:00 17:47	15:37 (FO 10) 16:36 (FO 10)	06:13 18:22	06:19 19:58	05:41 20:52
22	07:34 17:07	15:41 (FO 09) 15:47 (FO 09)	06:58 17:48	15:37 (FO 10) 16:37 (FO 10)	06:11 18:23	06:18 19:59	05:40 20:52
23	07:34 17:09		06:56 17:50	15:36 (FO 10) 16:36 (FO 10)	06:09 18:24	06:16 20:00	05:39 20:52
24	07:33 17:10		06:55 17:51	15:36 (FO 10) 16:37 (FO 10)	06:07 18:25	06:15 20:01	05:38 20:52
25	07:32 17:11		06:53 17:52	15:36 (FO 10) 16:37 (FO 10)	06:05 18:26	06:13 20:02	05:38 20:53
26	07:31 17:13		06:52 17:54	15:35 (FO 10) 16:37 (FO 10)	06:04 18:28	06:12 20:04	05:37 20:53
27	07:30 17:14		06:50 17:55	15:36 (FO 10) 16:37 (FO 10)	06:02 18:29	06:10 20:05	05:36 20:53
28	07:29 17:15		06:49 17:56	15:35 (FO 10) 16:37 (FO 10)	06:00 18:30	06:09 20:06	05:36 20:53
29	07:29 17:17				06:58 19:31	06:07 20:07	05:35 20:53
30	07:28 17:18				06:57 19:32	06:06 20:08	05:34 20:53
31	07:27 17:19				06:55 19:33	05:34 20:40	
Potential sun hours	292		294	369	401	454	459
Total, worst case	517		1118	846			

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

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

Calculation: Shadow Shadow receptor: D - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (118)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December			
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	16:22 (FO 10) 17:06 (FO 10)	06:43 17:03	15:18 (FO 10) 15:54 (FO 10)	07:20 16:36	15:09 (FO 09) 15:36 (FO 09)
2	05:34 20:52	06:00 20:31	06:34 19:44	07:07 18:50	16:20 (FO 10) 17:07 (FO 10)	06:44 17:01	15:20 (FO 10) 15:51 (FO 10)	07:21 16:36	15:09 (FO 09) 15:36 (FO 09)
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	16:18 (FO 10) 17:07 (FO 10)	06:45 17:00	15:23 (FO 10) 15:50 (FO 10)	07:22 16:35	15:09 (FO 09) 15:37 (FO 09)
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	16:18 (FO 10) 17:09 (FO 10)	06:46 16:59	15:26 (FO 10) 15:46 (FO 10)	07:23 16:35	15:09 (FO 09) 15:37 (FO 09)
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	16:16 (FO 10) 17:09 (FO 10)	06:48 16:57	15:32 (FO 10) 15:41 (FO 10)	07:24 16:35	15:10 (FO 09) 15:38 (FO 09)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	16:15 (FO 10) 17:09 (FO 10)	06:49 16:56		07:25 16:35	15:10 (FO 09) 15:38 (FO 09)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	16:13 (FO 10) 17:10 (FO 10)	06:50 16:55		07:26 16:34	15:10 (FO 09) 15:38 (FO 09)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	16:12 (FO 10) 17:10 (FO 10)	06:52 16:54		07:27 16:34	15:11 (FO 09) 15:38 (FO 09)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	16:12 (FO 10) 17:11 (FO 10)	06:53 16:53		07:28 16:34	15:11 (FO 09) 15:38 (FO 09)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	16:11 (FO 10) 17:10 (FO 10)	06:54 16:52		07:29 16:34	15:12 (FO 09) 15:38 (FO 09)
11	05:39 20:49	06:10 20:19	06:43 19:28	07:17 18:35	16:10 (FO 10) 17:10 (FO 10)	06:55 16:50		07:30 16:34	15:12 (FO 09) 15:39 (FO 09)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	16:09 (FO 10) 17:10 (FO 10)	06:57 16:49		07:31 16:34	15:13 (FO 09) 15:39 (FO 09)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	16:08 (FO 10) 17:10 (FO 10)	06:58 16:48		07:32 16:34	15:12 (FO 09) 15:38 (FO 09)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	16:09 (FO 10) 17:10 (FO 10)	06:59 16:47		07:32 16:35	15:13 (FO 09) 15:38 (FO 09)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	16:08 (FO 10) 17:10 (FO 10)	07:01 16:46		07:33 16:35	15:14 (FO 09) 15:39 (FO 09)
16	05:43 20:46	06:15 20:12	06:49 19:19	07:23 18:27	16:08 (FO 10) 17:09 (FO 10)	07:02 16:46		07:34 16:35	15:14 (FO 09) 15:39 (FO 09)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	16:07 (FO 10) 17:08 (FO 10)	07:03 16:45		07:35 16:35	15:14 (FO 09) 15:39 (FO 09)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	16:08 (FO 10) 17:09 (FO 10)	07:04 16:44		07:35 16:36	15:15 (FO 09) 15:40 (FO 09)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	16:08 (FO 10) 17:08 (FO 10)	07:06 16:43		07:36 16:36	15:15 (FO 09) 15:39 (FO 09)
20	05:47 20:44	06:19 20:06	06:53 19:12	07:28 18:20	16:08 (FO 10) 17:07 (FO 10)	07:07 16:42	15:16 (FO 09)	07:36 16:36	15:16 (FO 09) 15:40 (FO 09)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	16:08 (FO 10) 17:06 (FO 10)	07:08 16:41	6 15:22 (FO 09) 15:13 (FO 09)	16:36 16:37	15:40 (FO 09) 15:17 (FO 09)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	16:09 (FO 10) 17:06 (FO 10)	07:09 16:41	15:12 (FO 09) 15:27 (FO 09)	16:37 16:37	15:17 (FO 09) 15:41 (FO 09)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	16:09 (FO 10) 17:05 (FO 10)	07:11 16:40	15:11 (FO 09) 15:29 (FO 09)	16:38 16:38	15:17 (FO 09) 15:41 (FO 09)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	16:09 (FO 10) 17:04 (FO 10)	07:12 16:39	15:10 (FO 09) 15:30 (FO 09)	16:38 16:38	15:18 (FO 09) 15:42 (FO 09)
25	05:52 20:39	06:25 19:58	06:59 19:03	16:42 (FO 10) 16:52 (FO 10)	07:13 17:12	07:13 16:39	15:09 (FO 09) 15:30 (FO 09)	16:39 16:39	15:18 (FO 09) 15:43 (FO 09)
26	05:53 20:38	06:26 19:56	07:00 19:01	16:37 (FO 10) 16:58 (FO 10)	06:35 17:11	07:14 16:38	15:10 (FO 09) 15:32 (FO 09)	16:39 16:40	15:18 (FO 09) 15:43 (FO 09)
27	05:54 20:37	06:27 19:54	07:01 18:59	16:33 (FO 10) 17:01 (FO 10)	06:36 17:10	07:15 16:38	15:09 (FO 09) 15:33 (FO 09)	16:40 16:40	15:19 (FO 09) 15:44 (FO 09)
28	05:55 20:36	06:28 19:53	07:02 18:58	16:29 (FO 10) 17:03 (FO 10)	06:38 17:08	07:17 16:37	15:09 (FO 09) 15:33 (FO 09)	16:40 16:41	15:20 (FO 09) 15:45 (FO 09)
29	05:56 20:35	06:29 19:51	07:03 18:56	16:27 (FO 10) 17:04 (FO 10)	06:39 17:07	07:18 16:37	15:08 (FO 09) 15:34 (FO 09)	16:40 16:42	15:20 (FO 09) 15:45 (FO 09)
30	05:57 20:34	06:30 19:49	07:04 18:54	16:24 (FO 10) 17:05 (FO 10)	06:40 17:05	07:19 16:36	15:08 (FO 09) 15:34 (FO 09)	16:40 16:43	15:20 (FO 09) 15:46 (FO 09)
31	05:58 20:33	06:31 19:47	06:31 19:05	06:41 17:04	06:41 15:56 (FO 10)	07:19 16:36	15:34 (FO 09)	16:43 16:43	15:21 (FO 09) 15:46 (FO 09)
Potential sun hours	465	432	376	343	293	281			
Total, worst case			171	1693	337	798			

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

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

Calculation: Shadow Shadow receptor: E - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (119)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April		May		June	
1	07:41	07:25	06:47	06:53		06:04	08:12 (FO 04)	05:33	
	16:45	17:21	17:57	19:35		20:09	8 08:20 (FO 04)	20:41	
2	07:41	07:24	06:45	06:51		06:03	08:14 (FO 04)	05:33	
	16:45	17:22	17:59	19:36		20:10	5 08:19 (FO 04)	20:42	
3	07:41	07:23	06:44	06:50		06:02	08:15 (FO 04)	05:32	
	16:46	17:23	18:00	19:37		20:12	4 08:19 (FO 04)	20:43	
4	07:41	07:22	06:42	06:48		08:04 (FO 04)	06:00	08:17 (FO 04)	05:32
	16:47	17:25	18:01	19:38	9	08:13 (FO 04)	20:13	1 08:18 (FO 04)	20:43
5	07:41	07:21	06:40	06:46		07:58 (FO 04)	05:59		05:31
	16:48	17:26	18:02	19:39	20	08:18 (FO 04)	20:14		20:44
6	07:41	07:20	06:39	06:44		07:54 (FO 04)	05:58		05:31
	16:49	17:27	18:04	19:40	26	08:20 (FO 04)	20:15		20:45
7	07:41	07:19	06:37	06:43		07:52 (FO 04)	05:56		05:31
	16:50	17:29	18:05	19:41	31	08:23 (FO 04)	20:16		20:45
8	07:41	07:18	06:35	06:41		07:51 (FO 04)	05:55		05:30
	16:51	17:30	18:06	19:43	33	08:24 (FO 04)	20:17		20:46
9	07:40	07:16	06:34	06:39		07:50 (FO 04)	05:54		05:30
	16:52	17:31	18:07	19:44	35	08:25 (FO 04)	20:18		20:47
10	07:40	07:15	06:32	06:38		07:50 (FO 04)	05:53		05:30
	16:53	17:33	18:09	19:45	36	08:26 (FO 04)	20:19		20:47
11	07:40	07:14	06:30	06:36		07:48 (FO 04)	05:52		05:30
	16:54	17:34	18:10	19:46	39	08:27 (FO 04)	20:21		20:48
12	07:40	07:12	06:28	06:34		07:47 (FO 04)	05:50		05:30
	16:56	17:35	18:11	19:47	40	08:27 (FO 04)	20:22		20:48
13	07:39	07:11	06:27	06:32		07:49 (FO 04)	05:49		05:30
	16:57	17:37	18:12	19:48	39	08:28 (FO 04)	20:23		20:49
14	07:39	07:10	06:25	06:31		07:50 (FO 04)	05:48		05:29
	16:58	17:38	18:13	19:50	38	08:28 (FO 04)	20:24		20:49
15	07:38	07:08	06:23	06:29		07:51 (FO 04)	05:47		05:29
	16:59	17:39	18:15	19:51	37	08:28 (FO 04)	20:25		20:50
16	07:38	07:07	06:21	06:27		07:53 (FO 04)	05:46		05:29
	17:00	17:41	18:16	19:52	36	08:29 (FO 04)	20:26		20:50
17	07:37	07:05	06:20	06:26		07:54 (FO 04)	05:45		05:29
	17:01	17:42	18:17	19:53	34	08:28 (FO 04)	20:27		20:51
18	07:37	07:04	06:18	06:24		07:55 (FO 04)	05:44		05:29
	17:03	17:43	18:18	19:54	34	08:29 (FO 04)	20:28		20:51
19	07:36	07:03	06:16	06:23		07:56 (FO 04)	05:43		05:30
	17:04	17:45	18:19	19:55	32	08:28 (FO 04)	20:29		20:51
20	07:36	07:01	06:14	06:21		07:57 (FO 04)	05:42		05:30
	17:05	17:46	18:20	19:57	30	08:27 (FO 04)	20:30		20:52
21	07:35	07:00	06:13	06:19		07:59 (FO 04)	05:41		05:30
	17:06	17:47	18:22	19:58	29	08:28 (FO 04)	20:31		20:52
22	07:34	06:58	06:11	06:18		08:00 (FO 04)	05:40		05:30
	17:08	17:48	18:23	19:59	27	08:27 (FO 04)	20:32		20:52
23	07:34	06:56	06:09	06:16		08:02 (FO 04)	05:39		05:30
	17:09	17:50	18:24	20:00	25	08:27 (FO 04)	20:33		20:52
24	07:33	06:55	06:07	06:15		08:03 (FO 04)	05:39		05:31
	17:10	17:51	18:25	20:01	23	08:26 (FO 04)	20:34		20:52
25	07:32	06:53	06:06	06:13		08:04 (FO 04)	05:38		05:31
	17:11	17:52	18:26	20:02	22	08:26 (FO 04)	20:35		20:53
26	07:31	06:52	06:04	06:12		08:05 (FO 04)	05:37		05:31
	17:13	17:54	18:28	20:03	19	08:24 (FO 04)	20:36		20:53
27	07:30	06:50	06:02	06:10		08:07 (FO 04)	05:36		05:32
	17:14	17:55	18:29	20:05	17	08:24 (FO 04)	20:37		20:53
28	07:29	06:49	06:00	06:09		08:09 (FO 04)	05:36		05:32
	17:15	17:56	18:30	20:06	15	08:24 (FO 04)	20:38		20:53
29	07:28		06:58	06:07		08:09 (FO 04)	05:35		05:32
	17:17		19:31	20:07	13	08:22 (FO 04)	20:39		20:53
30	07:28		06:57	06:06		08:11 (FO 04)	05:34		05:33
	17:18		19:32	20:08	11	08:22 (FO 04)	20:39		20:53
31	07:27		06:55				05:34		
	17:19		19:33				20:40		
Potential sun hours	292	294	369	401		454		459	
Total, worst case				750			18		

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

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

Calculation: Shadow Shadow receptor: E - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (119)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December	
1	05:33 20:52	05:59 20:32	06:33 19:46	07:47 (FO 04) 08:26 (FO 04)	07:05 18:52	06:43 17:03	07:20 16:36
2	05:34 20:52	06:00 20:30	06:34 19:44	07:48 (FO 04) 08:24 (FO 04)	07:07 18:51	06:44 17:01	07:21 16:36
3	05:34 20:52	06:01 20:29	06:35 19:42	07:48 (FO 04) 08:23 (FO 04)	07:08 18:49	06:45 17:00	07:22 16:35
4	05:35 20:52	06:02 20:28	06:36 19:41	07:48 (FO 04) 08:21 (FO 04)	07:09 18:47	06:46 16:59	07:23 16:35
5	05:36 20:52	06:03 20:27	06:37 19:39	07:48 (FO 04) 08:19 (FO 04)	07:10 18:45	06:48 16:58	07:24 16:35
6	05:36 20:51	06:04 20:26	06:38 19:37	07:50 (FO 04) 08:16 (FO 04)	07:11 18:43	06:49 16:56	07:25 16:35
7	05:37 20:51	06:05 20:24	06:39 19:35	07:53 (FO 04) 08:13 (FO 04)	07:12 18:42	06:50 16:55	07:26 16:35
8	05:37 20:51	06:06 20:23	06:40 19:34	07:57 (FO 04) 08:08 (FO 04)	07:13 18:40	06:52 16:54	07:27 16:34
9	05:38 20:50	06:07 20:22	06:41 19:32	08:25 (FO 04) 08:27 (FO 04)	07:15 18:38	06:53 16:53	07:28 16:34
10	05:39 20:50	06:09 20:20	06:42 19:30	08:23 (FO 04) 08:27 (FO 04)	07:16 18:37	06:54 16:52	07:29 16:34
11	05:40 20:49	06:10 20:19	06:43 19:28	08:22 (FO 04) 08:28 (FO 04)	07:17 18:35	06:55 16:51	07:30 16:34
12	05:40 20:49	06:11 20:17	06:44 19:26	08:20 (FO 04) 08:29 (FO 04)	07:18 18:33	06:57 16:50	07:31 16:35
13	05:41 20:48	06:12 20:16	06:46 19:25	08:18 (FO 04) 08:30 (FO 04)	07:19 18:32	06:58 16:48	07:31 16:35
14	05:42 20:48	06:13 20:15	06:47 19:23	08:17 (FO 04) 08:30 (FO 04)	07:20 18:30	06:59 16:48	07:32 16:35
15	05:43 20:47	06:14 20:13	06:48 19:21	08:15 (FO 04) 08:31 (FO 04)	07:22 18:28	07:01 16:47	07:33 16:35
16	05:44 20:46	06:15 20:12	06:49 19:19	08:13 (FO 04) 08:31 (FO 04)	07:23 18:27	07:02 16:46	07:34 16:35
17	05:44 20:46	06:16 20:10	06:50 19:17	08:12 (FO 04) 08:31 (FO 04)	07:24 18:25	07:03 16:45	07:34 16:36
18	05:45 20:45	06:17 20:09	06:51 19:16	08:10 (FO 04) 08:32 (FO 04)	07:25 18:23	07:04 16:44	07:35 16:36
19	05:46 20:44	06:18 20:07	06:52 19:14	08:09 (FO 04) 08:33 (FO 04)	07:26 18:22	07:06 16:43	07:36 16:36
20	05:47 20:43	06:19 20:05	06:53 19:12	08:07 (FO 04) 08:33 (FO 04)	07:28 18:20	07:07 16:42	07:36 16:37
21	05:48 20:43	06:21 20:04	06:54 19:10	08:06 (FO 04) 08:33 (FO 04)	07:29 18:19	07:08 16:41	07:37 16:37
22	05:49 20:42	06:22 20:02	06:55 19:08	08:04 (FO 04) 08:33 (FO 04)	07:30 18:17	07:09 16:41	07:37 16:37
23	05:50 20:41	06:23 20:01	06:57 19:07	08:02 (FO 04) 08:32 (FO 04)	07:31 18:16	07:11 16:40	07:38 16:38
24	05:51 20:40	06:24 19:59	06:58 19:05	08:00 (FO 04) 08:32 (FO 04)	07:33 18:14	07:12 16:39	07:38 16:39
25	05:52 20:39	06:25 19:57	06:59 19:03	07:58 (FO 04) 08:32 (FO 04)	06:34 17:13	07:13 16:39	07:39 16:39
26	05:53 20:38	06:26 19:56	07:00 19:01	07:56 (FO 04) 08:31 (FO 04)	06:35 17:11	07:14 16:38	07:39 16:40
27	05:54 20:37	06:27 19:54	07:01 18:59	07:54 (FO 04) 08:31 (FO 04)	06:36 17:10	07:15 16:38	07:40 16:40
28	05:55 20:36	06:28 19:53	07:02 18:58	07:52 (FO 04) 08:30 (FO 04)	06:38 17:08	07:16 16:37	07:40 16:41
29	05:56 20:35	06:29 19:51	07:03 18:56	07:50 (FO 04) 08:29 (FO 04)	06:39 17:07	07:18 16:37	07:40 16:42
30	05:57 20:34	06:30 19:49	07:04 18:54	07:49 (FO 04) 08:28 (FO 04)	06:40 17:05	07:19 16:36	07:40 16:43
31	05:58 20:33	06:31 19:47	07:05 18:52	07:47 (FO 04) 08:27 (FO 04)	06:41 17:04	07:20 16:35	07:41 16:43
Potential sun hours	465	432	376	343	293	281	69
Total, worst case		551	231				

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

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

Calculation: Shadow Shadow receptor: F - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (120)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December			
1	07:41	07:25	06:47	06:53	06:04	08:12 (FO 04)	05:33	05:33	05:59	06:33	07:48 (FO 04)	07:05	06:43	07:20	
	16:45	17:21	17:57	19:35	20:09	9 08:21 (FO 04)	20:41	20:52	20:32	19:46	40 08:28 (FO 04)	18:52	17:03	16:36	
2	07:41	07:24	06:45	06:51	06:03	08:14 (FO 04)	05:33	05:34	06:00	06:34	38 07:49 (FO 04)	07:07	06:44	07:21	
	16:45	17:22	17:59	19:36	20:10	6 08:20 (FO 04)	20:42	20:52	20:30	19:44	38 08:27 (FO 04)	18:51	17:01	16:36	
3	07:41	07:23	06:44	06:50	06:02	08:15 (FO 04)	05:32	05:34	06:01	06:35	36 07:49 (FO 04)	07:08	06:45	07:22	
	16:46	17:23	18:00	19:37	20:12	4 08:19 (FO 04)	20:43	20:52	20:29	19:42	36 08:25 (FO 04)	18:49	17:00	16:35	
4	07:41	07:22	06:42	06:48	06:00	08:17 (FO 04)	05:32	05:35	06:02	06:36	34 07:49 (FO 04)	07:09	06:46	07:23	
	16:47	17:25	18:01	19:38	20:13	1 08:18 (FO 04)	20:43	20:52	20:28	19:41	34 08:23 (FO 04)	18:47	16:59	16:35	
5	07:41	07:21	06:40	06:46	05:59		05:31	05:36	06:03	06:37	32 07:50 (FO 04)	07:10	06:48	07:24	
	16:48	17:26	18:02	19:39	20:14		20:44	20:52	20:27	19:39	32 08:22 (FO 04)	18:45	16:58	16:35	
6	07:41	07:20	06:39	06:44	05:58		05:31	05:36	06:04	06:38	30 07:50 (FO 04)	07:11	06:49	07:25	
	16:49	17:27	18:04	19:40	20:15		20:45	20:51	20:26	19:37	29 08:19 (FO 04)	18:43	16:56	16:35	
7	07:41	07:19	06:37	06:43	05:56		05:31	05:37	06:05	06:39	29 07:52 (FO 04)	07:12	06:50	07:26	
	16:50	17:29	18:05	19:41	20:16		20:45	20:51	20:24	19:35	25 06:17 (FO 04)	18:42	16:55	16:35	
8	07:41	07:18	06:35	06:41	05:55		05:30	05:37	06:06	06:40	25 07:54 (FO 04)	07:13	06:52	07:27	
	16:51	17:30	18:06	19:43	20:17		20:46	20:51	20:23	19:34	19 08:13 (FO 04)	18:40	16:54	16:34	
9	07:40	07:16	06:34	06:39	05:54		05:30	05:38	06:07	06:41	19 08:00 (FO 04)	07:15	06:53	07:28	
	16:52	17:31	18:07	19:44	20:18		20:47	20:50	20:22	2 08:27 (FO 04)	19:32	6 08:06 (FO 04)	18:38	16:53	16:34
10	07:40	07:15	06:32	06:38	05:53		05:30	05:39	06:09	06:42	6 08:23 (FO 04)	06:42	07:16	06:54	07:29
	16:53	17:33	18:09	19:45	20:19		20:47	20:50	20:20	5 08:28 (FO 04)	19:30		18:37	16:52	16:34
11	07:40	07:14	06:30	06:36	05:52		05:30	05:40	06:10	06:43	5 08:22 (FO 04)	06:43	07:17	06:55	07:30
	16:54	17:34	18:10	19:46	20:21		20:48	20:49	20:19	7 08:29 (FO 04)	19:28		18:35	16:51	16:34
12	07:40	07:12	06:28	06:34	05:50		05:30	05:40	06:11	06:44	7 08:20 (FO 04)	06:44	07:18	06:57	07:31
	16:56	17:35	18:11	19:47	20:22		20:48	20:49	20:17	10 08:30 (FO 04)	19:26		18:33	16:50	16:35
13	07:39	07:11	06:27	06:32	05:49		05:30	05:41	06:12	06:46	10 08:18 (FO 04)	06:46	07:19	06:58	07:31
	16:57	17:37	18:12	19:48	20:23		20:49	20:48	20:16	13 08:31 (FO 04)	19:25		18:32	16:48	16:35
14	07:39	07:10	06:25	06:31	05:48		05:29	05:42	06:13	06:47	13 08:17 (FO 04)	06:47	07:20	06:59	07:32
	16:58	17:38	18:13	19:50	20:24		20:49	20:48	20:15	14 08:31 (FO 04)	19:23		18:30	16:48	16:35
15	07:38	07:08	06:23	06:29	05:47		05:29	05:43	06:14	06:48	14 08:15 (FO 04)	06:48	07:22	07:01	07:33
	16:59	17:39	18:15	19:51	20:25		20:50	20:47	20:13	17 08:32 (FO 04)	19:21		18:28	16:47	16:35
16	07:38	07:07	06:21	06:27	05:46		05:29	05:44	06:15	06:49	17 08:13 (FO 04)	06:49	07:23	07:02	07:34
	17:00	17:41	18:16	19:52	20:26		20:50	20:46	20:12	19 08:32 (FO 04)	19:19		18:27	16:46	16:35
17	07:37	07:05	06:20	06:26	05:45		05:29	05:44	06:16	06:50	19 08:12 (FO 04)	06:50	07:24	07:03	07:34
	17:01	17:42	18:17	19:53	20:27		20:51	20:46	20:10	21 08:33 (FO 04)	19:17		18:25	16:45	16:35
18	07:37	07:04	06:18	06:24	05:44		05:29	05:45	06:17	06:51	21 08:10 (FO 04)	06:51	07:25	07:04	07:35
	17:03	17:43	18:18	19:54	20:28		20:51	20:45	20:09	23 08:33 (FO 04)	19:16		18:23	16:44	16:36
19	07:36	07:03	06:16	06:23	05:43		05:30	05:46	06:18	06:52	23 08:09 (FO 04)	06:52	07:26	07:06	07:36
	17:04	17:45	18:19	19:55	20:29		20:51	20:44	20:07	25 08:34 (FO 04)	19:14		18:22	16:43	16:36
20	07:36	07:01	06:14	06:21	05:42		05:30	05:47	06:19	06:53	25 08:07 (FO 04)	06:53	07:28	07:07	07:36
	17:05	17:46	18:20	19:57	20:30		20:52	20:43	20:05	27 08:34 (FO 04)	19:12		18:20	16:42	16:37
21	07:35	07:00	06:13	06:19	05:41		05:30	05:48	06:21	06:54	27 08:06 (FO 04)	06:54	07:29	07:08	07:37
	17:06	17:47	18:22	19:58	20:31		20:52	20:43	20:04	28 08:34 (FO 04)	19:10		18:19	16:41	16:37
22	07:34	06:58	06:11	06:18	05:40		05:30	05:49	06:22	06:55	28 08:04 (FO 04)	06:55	07:30	07:09	07:37
	17:08	17:48	18:23	19:59	20:32		20:52	20:42	20:02	30 08:34 (FO 04)	19:08		18:17	16:41	16:37
23	07:34	06:56	06:09	06:16	05:39		05:30	05:50	06:23	06:57	30 08:02 (FO 04)	06:57	07:31	07:11	07:38
	17:09	17:50	18:24	20:00	20:33		20:52	20:41	20:01	32 08:34 (FO 04)	19:07		18:16	16:40	16:38
24	07:33	06:55	06:07	06:15	05:39		05:31	05:51	06:24	06:58	32 08:00 (FO 04)	06:58	07:33	07:12	07:38
	17:10	17:51	18:25	20:01	20:34		20:52	20:40	20:00	34 08:34 (FO 04)	19:05		18:14	16:39	16:39
25	07:32	06:53	06:06	06:13	05:38		05:31	05:52	06:25	06:59	34 07:58 (FO 04)	06:59	06:34	07:13	07:39
	17:11	17:52	18:26	20:02	20:35		20:53	20:39	20:07	35 08:33 (FO 04)	19:03		17:13	16:39	16:39
26	07:31	06:52	06:04	06:12	05:37		05:31	05:53	06:26	06:53	35 07:56 (FO 04)	07:00	06:35	07:14	07:39
	17:13	17:54	18:28	20:03	20:36		20:53	20:38	20:06	37 08:33 (FO 04)	19:01		17:11	16:38	16:40
27	07:30	06:50	06:02	06:10	05:36		05:32	05:54	06:27	06:54	37 07:54 (FO 04)	07:01	06:36	07:15	07:40
	17:14	17:55	18:29	20:05	20:37		20:53	20:37	20:09	38 08:32 (FO 04)	18:59		17:10	16:38	16:40
28	07:29	06:49	06:00	06:09	05:36		05:32	05:55	06:28	06:57	38 07:52 (FO 04)	07:02	06:38	07:16	07:40
	17:15	17:56	18:30	20:06	20:38		20:53	20:36	20:10	40 08:32 (FO 04)	18:58		17:08	16:37	16:41
29	07:28		06:58	06:07	05:35		05:32	05:56	06:29	06:58	40 07:50 (FO 04)	07:03	06:39	07:18	07:40
	17:17		19:31	20:07	20:39		20:53	20:35	20:11	41 08:31 (FO 04)	18:56		17:07	16:37	16:42
30	07:28		06:57	06:06	05:34		05:33	05:57	06:30	06:59	41 07:49 (FO 04)	07:04	06:40	07:19	07:40
	17:18		19:32	20:08	20:39		20:53	20:34	20:11	41 08:30 (FO 04)	18:54		17:05	16:36	16:43
31	07:27		06:55		05:34			05:58	06:31	06:59	41 07:48 (FO 04)		06:41		07:41
	17:19		19:33		20:40			20:33	19:47	41 08:29 (FO 04)			17:04		16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	259	343	293	281		
Total, worst case				799	20				580						

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

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

Calculation: Shadow Shadow receptor: G - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (121)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:41 16:45	08:44 (FO 01) 08:53 (FO 01)	07:25 17:21	06:47 17:57	06:53 19:35	06:04 20:09
2	07:41 16:45	08:45 (FO 01) 08:52 (FO 01)	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10
3	07:41 16:46	08:47 (FO 01) 08:51 (FO 01)	07:23 17:23	06:44 18:00	06:50 19:37	08:02 (FO 04) 08:14 (FO 04)
4	07:41 16:47		07:22 17:25	06:42 18:01	06:48 19:38	06:02 20:13
5	07:41 16:48		07:21 17:26	06:40 18:02	06:46 19:39	07:54 (FO 04) 08:20 (FO 04)
6	07:41 16:49		07:20 17:27	06:39 18:04	06:44 19:40	07:52 (FO 04) 08:21 (FO 04)
7	07:41 16:50		07:19 17:29	06:37 18:05	06:43 19:41	07:51 (FO 04) 08:23 (FO 04)
8	07:41 16:51		07:18 17:30	06:35 18:06	06:41 19:43	07:50 (FO 04) 08:24 (FO 04)
9	07:40 16:52		07:16 17:31	06:34 18:07	06:39 19:44	07:49 (FO 04) 08:25 (FO 04)
10	07:40 16:53		07:15 17:33	06:32 18:09	06:38 19:45	07:48 (FO 04) 08:26 (FO 04)
11	07:40 16:54		07:14 17:34	06:30 18:10	06:36 19:46	07:47 (FO 04) 08:26 (FO 04)
12	07:40 16:56		07:12 17:35	06:28 18:11	06:34 19:47	07:47 (FO 04) 08:26 (FO 04)
13	07:39 16:57		07:11 17:37	06:27 18:12	06:32 19:48	07:49 (FO 04) 08:27 (FO 04)
14	07:39 16:58		07:10 17:38	06:25 18:13	06:31 19:50	07:50 (FO 04) 08:27 (FO 04)
15	07:38 16:59		07:08 17:39	06:23 18:15	06:29 19:51	07:51 (FO 04) 08:26 (FO 04)
16	07:38 17:00		07:07 17:41	06:21 18:16	06:27 19:52	07:53 (FO 04) 08:27 (FO 04)
17	07:37 17:01		07:05 17:42	06:20 18:17	06:26 19:53	07:54 (FO 04) 08:26 (FO 04)
18	07:37 17:03		07:04 17:43	06:18 18:18	06:24 19:54	07:55 (FO 04) 08:27 (FO 04)
19	07:36 17:04		07:03 17:45	06:16 18:19	06:23 19:55	07:56 (FO 04) 08:26 (FO 04)
20	07:36 17:05		07:01 17:46	06:14 18:20	06:21 19:57	07:57 (FO 04) 08:25 (FO 04)
21	07:35 17:06		07:00 17:47	06:13 18:22	06:19 19:58	07:59 (FO 04) 08:25 (FO 04)
22	07:34 17:08		06:58 17:48	06:11 18:23	06:18 19:59	08:00 (FO 04) 08:24 (FO 04)
23	07:34 17:09		06:56 17:50	06:09 18:24	06:16 20:00	08:02 (FO 04) 08:24 (FO 04)
24	07:33 17:10		06:55 17:51	06:07 18:25	06:15 20:01	08:03 (FO 04) 08:23 (FO 04)
25	07:32 17:11		06:53 17:52	06:06 18:26	06:13 20:02	08:04 (FO 04) 08:22 (FO 04)
26	07:31 17:13		06:52 17:54	06:04 18:28	06:12 20:03	08:05 (FO 04) 08:21 (FO 04)
27	07:30 17:14		06:50 17:55	06:02 18:29	06:10 20:05	08:07 (FO 04) 08:20 (FO 04)
28	07:29 17:15		06:49 17:56	06:00 18:30	06:09 20:06	08:09 (FO 04) 08:20 (FO 04)
29	07:28 17:17			06:58 19:31	06:07 20:07	08:09 (FO 04) 08:18 (FO 04)
30	07:28 17:18			06:57 19:32	06:06 20:08	08:11 (FO 04) 08:17 (FO 04)
31	07:27 17:19			06:55 19:33		05:34 20:40
Potential sun hours	292		294	369	401	454
Total, worst case	20				737	3

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

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

Calculation: Shadow Shadow receptor: G - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (121)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December		
1	05:33 20:52	05:59 20:32	06:33 19:46	07:46 (FO 04) 08:25 (FO 04)	07:05 18:52	06:43 17:03	07:20 16:36	
2	05:34 20:52	06:00 20:30	06:34 19:44	07:46 (FO 04) 08:24 (FO 04)	07:07 18:51	06:44 17:01	07:21 16:36	
3	05:34 20:52	06:01 20:29	06:35 19:42	07:47 (FO 04) 08:23 (FO 04)	07:08 18:49	06:45 17:00	07:22 16:35	
4	05:35 20:52	06:02 20:28	06:36 19:41	07:47 (FO 04) 08:21 (FO 04)	07:09 18:47	06:46 16:59	07:23 16:35	
5	05:36 20:52	06:03 20:27	06:37 19:39	07:47 (FO 04) 08:19 (FO 04)	07:10 18:45	06:48 16:58	07:24 16:35	
6	05:36 20:51	06:04 20:26	06:38 19:37	07:48 (FO 04) 08:17 (FO 04)	07:11 18:43	06:49 16:56	07:25 16:35	
7	05:37 20:51	06:05 20:24	06:39 19:35	07:49 (FO 04) 08:15 (FO 04)	07:12 18:42	06:50 16:55	07:26 16:35	
8	05:37 20:51	06:06 20:23	06:40 19:34	07:51 (FO 04) 08:12 (FO 04)	07:13 18:40	06:52 16:54	07:27 16:34	
9	05:38 20:50	06:07 20:22	06:41 19:32	07:55 (FO 04) 08:07 (FO 04)	07:15 18:38	06:53 16:53	07:28 16:34	3 08:37 (FO 01)
10	05:39 20:50	06:09 20:20	06:42 19:30		07:16 18:37	06:54 16:52	07:29 16:34	7 08:35 (FO 01)
11	05:40 20:49	06:10 20:19	06:43 19:28	08:22 (FO 04) 08:23 (FO 04)	07:17 18:35	06:55 16:51	07:30 16:34	9 08:35 (FO 01)
12	05:40 20:49	06:11 20:17	06:45 19:26	08:20 (FO 04) 08:24 (FO 04)	07:18 18:33	06:57 16:50	07:31 16:35	10 08:34 (FO 01)
13	05:41 20:48	06:12 20:16	06:46 19:25	08:18 (FO 04) 08:25 (FO 04)	07:19 18:32	06:58 16:49	07:31 16:35	12 08:34 (FO 01)
14	05:42 20:48	06:13 20:15	06:47 19:23	08:17 (FO 04) 08:26 (FO 04)	07:20 18:30	06:59 16:48	07:32 16:35	13 08:34 (FO 01)
15	05:43 20:47	06:14 20:13	06:48 19:21	08:15 (FO 04) 08:26 (FO 04)	07:22 18:28	07:01 16:47	07:33 16:35	14 08:34 (FO 01)
16	05:44 20:46	06:15 20:12	06:49 19:19	08:13 (FO 04) 08:27 (FO 04)	07:23 18:27	07:02 16:46	07:34 16:35	14 08:34 (FO 01)
17	05:44 20:46	06:16 20:10	06:50 19:17	08:12 (FO 04) 08:28 (FO 04)	07:24 18:25	07:03 16:45	07:34 16:36	15 08:34 (FO 01)
18	05:45 20:45	06:17 20:09	06:51 19:16	08:10 (FO 04) 08:28 (FO 04)	07:25 18:23	07:04 16:44	07:35 16:36	15 08:35 (FO 01)
19	05:46 20:44	06:18 20:07	06:52 19:14	08:09 (FO 04) 08:29 (FO 04)	07:26 18:22	07:06 16:43	07:36 16:36	15 08:35 (FO 01)
20	05:47 20:43	06:19 20:05	06:53 19:12	08:07 (FO 04) 08:30 (FO 04)	07:28 18:20	07:07 16:42	07:36 16:37	16 08:35 (FO 01)
21	05:48 20:43	06:21 20:04	06:54 19:10	08:06 (FO 04) 08:30 (FO 04)	07:29 18:19	07:08 16:41	07:37 16:37	16 08:35 (FO 01)
22	05:49 20:42	06:22 20:02	06:55 19:08	08:04 (FO 04) 08:30 (FO 04)	07:30 18:17	07:09 16:41	07:37 16:37	16 08:36 (FO 01)
23	05:50 20:41	06:23 20:01	06:57 19:07	08:02 (FO 04) 08:30 (FO 04)	07:31 18:16	07:11 16:40	07:38 16:38	16 08:36 (FO 01)
24	05:51 20:40	06:24 19:59	06:58 19:05	08:00 (FO 04) 08:30 (FO 04)	07:33 18:14	07:12 16:39	07:38 16:39	16 08:37 (FO 01)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:58 (FO 04) 08:30 (FO 04)	06:34 17:13	07:13 16:39	07:39 16:39	15 08:38 (FO 01)
26	05:53 20:38	06:26 19:56	07:00 19:01	07:56 (FO 04) 08:29 (FO 04)	06:35 17:11	07:14 16:38	07:39 16:40	15 08:38 (FO 01)
27	05:54 20:37	06:27 19:54	07:01 18:59	07:54 (FO 04) 08:29 (FO 04)	06:36 17:10	07:15 16:38	07:40 16:40	15 08:39 (FO 01)
28	05:55 20:36	06:28 19:53	07:02 18:58	07:52 (FO 04) 08:28 (FO 04)	06:38 17:08	07:16 16:37	07:40 16:41	14 08:40 (FO 01)
29	05:56 20:35	06:29 19:51	07:03 18:56	07:50 (FO 04) 08:28 (FO 04)	06:39 17:07	07:18 16:37	07:40 16:42	13 08:41 (FO 01)
30	05:57 20:34	06:30 19:49	07:04 18:54	07:49 (FO 04) 08:27 (FO 04)	06:40 17:05	07:19 16:36	07:40 16:43	13 08:41 (FO 01)
31	05:58 20:33	06:31 19:47	07:05 18:53	07:47 (FO 04) 08:26 (FO 04)	06:41 17:04	07:20 16:43	07:41 16:43	11 08:42 (FO 01)
Potential sun hours	465	432	376		343	293	281	
Total, worst case		482	267				303	

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

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

Calculation: Shadow Shadow receptor: H - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (122)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:45	08:47 (FO 01) 08:50 (FO 01)	07:25 17:21	06:47 17:57	06:53 19:35	08:05 (FO 04) 08:15 (FO 04)	06:04 20:09	05:33 20:41
2	07:41 16:45		07:24 17:22	06:45 17:59	06:51 19:36	08:00 (FO 04) 08:19 (FO 04)	06:03 20:10	05:33 20:42
3	07:41 16:46		07:23 17:23	06:44 18:00	06:50 19:37	07:57 (FO 04) 08:23 (FO 04)	06:02 20:12	05:32 20:43
4	07:41 16:47		07:22 17:25	06:42 18:01	06:48 19:38	07:55 (FO 04) 08:24 (FO 04)	06:00 20:13	05:32 20:43
5	07:41 16:48		07:21 17:26	06:40 18:02	06:46 19:39	07:54 (FO 04) 08:25 (FO 04)	05:59 20:14	05:31 20:44
6	07:41 16:49		07:20 17:27	06:39 18:04	06:44 19:40	07:52 (FO 04) 08:26 (FO 04)	05:58 20:15	05:31 20:45
7	07:41 16:50		07:19 17:29	06:37 18:05	06:43 19:41	07:52 (FO 04) 08:28 (FO 04)	05:56 20:16	05:31 20:45
8	07:41 16:51		07:18 17:30	06:35 18:06	06:41 19:43	07:51 (FO 04) 08:28 (FO 04)	05:55 20:17	05:30 20:46
9	07:40 16:52		07:16 17:31	06:34 18:07	06:39 19:44	07:49 (FO 04) 08:28 (FO 04)	05:54 20:18	05:30 20:47
10	07:40 16:53		07:15 17:33	06:32 18:09	06:38 19:45	07:49 (FO 04) 08:29 (FO 04)	05:53 20:19	05:30 20:47
11	07:40 16:54		07:14 17:34	06:30 18:10	06:36 19:46	07:48 (FO 04) 08:29 (FO 04)	05:52 20:21	05:30 20:48
12	07:40 16:56		07:12 17:35	06:28 18:11	06:34 19:47	07:47 (FO 04) 08:29 (FO 04)	05:50 20:22	05:30 20:48
13	07:39 16:57		07:11 17:37	06:27 18:12	06:32 19:48	07:49 (FO 04) 08:29 (FO 04)	05:49 20:23	05:30 20:49
14	07:39 16:58		07:10 17:38	06:25 18:13	06:31 19:50	07:50 (FO 04) 08:29 (FO 04)	05:48 20:24	05:29 20:49
15	07:38 16:59		07:08 17:39	06:23 18:15	06:29 19:51	07:51 (FO 04) 08:28 (FO 04)	05:47 20:25	05:29 20:50
16	07:38 17:00		07:07 17:41	06:21 18:16	06:27 19:52	07:53 (FO 04) 08:29 (FO 04)	05:46 20:26	05:29 20:50
17	07:37 17:01		07:05 17:42	06:20 18:17	06:26 19:53	07:54 (FO 04) 08:28 (FO 04)	05:45 20:27	05:29 20:51
18	07:37 17:03		07:04 17:43	06:18 18:18	06:24 19:54	07:55 (FO 04) 08:28 (FO 04)	05:44 20:28	05:29 20:51
19	07:36 17:04		07:03 17:45	06:16 18:19	06:23 19:55	07:56 (FO 04) 08:27 (FO 04)	05:43 20:29	05:30 20:51
20	07:36 17:05		07:01 17:46	06:14 18:20	06:21 19:57	07:57 (FO 04) 08:26 (FO 04)	05:42 20:30	05:30 20:52
21	07:35 17:06		07:00 17:47	06:13 18:22	06:19 19:58	07:59 (FO 04) 08:26 (FO 04)	05:41 20:31	05:30 20:52
22	07:34 17:08		06:58 17:48	06:11 18:23	06:18 19:59	08:00 (FO 04) 08:24 (FO 04)	05:40 20:32	05:30 20:52
23	07:34 17:09		06:56 17:50	06:09 18:24	06:16 20:00	08:02 (FO 04) 08:24 (FO 04)	05:39 20:33	05:30 20:52
24	07:33 17:10		06:55 17:51	06:07 18:25	06:15 20:01	08:03 (FO 04) 08:23 (FO 04)	05:39 20:34	05:31 20:52
25	07:32 17:11		06:53 17:52	06:06 18:26	06:13 20:02	08:04 (FO 04) 08:22 (FO 04)	05:38 20:35	05:31 20:53
26	07:31 17:13		06:52 17:54	06:04 18:28	06:12 20:03	08:05 (FO 04) 08:20 (FO 04)	05:37 20:36	05:31 20:53
27	07:30 17:14		06:50 17:55	06:02 18:29	06:10 20:05	08:07 (FO 04) 08:19 (FO 04)	05:36 20:37	05:32 20:53
28	07:29 17:15		06:49 17:56	06:00 18:30	06:09 20:06	08:09 (FO 04) 08:18 (FO 04)	05:36 20:38	05:32 20:53
29	07:28 17:17			06:58 19:31	06:07 20:07	08:09 (FO 04) 08:16 (FO 04)	05:35 20:39	05:32 20:53
30	07:28 17:18			06:57 19:32	06:06 20:08	08:11 (FO 04) 08:15 (FO 04)	05:34 20:39	05:33 20:53
31	07:27 17:19			06:55 19:33			05:34 20:40	
Potential sun hours	292		294	369	401		454	459
Total, worst case	3				821			

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

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

Calculation: Shadow Shadow receptor: H - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (122)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December		
1	05:33 20:52	05:59 20:32	06:33 19:46	07:47 (FO 04) 18:52	07:05 17:03	07:20 16:36		
2	05:34 20:52	06:00 20:30	06:34 19:44	07:47 (FO 04) 18:51	07:07 17:01	07:21 16:36		
3	05:34 20:52	06:01 20:29	06:35 19:42	07:47 (FO 04) 18:49	07:08 17:00	07:22 16:35		
4	05:35 20:52	06:02 20:28	06:36 19:41	07:48 (FO 04) 18:47	07:09 16:59	07:23 16:35		
5	05:36 20:52	06:03 20:27	06:37 19:39	07:48 (FO 04) 18:45	07:10 16:58	07:24 16:35		
6	05:36 20:51	06:04 20:26	06:38 19:37	07:48 (FO 04) 18:44	07:11 16:56	07:25 16:35		
7	05:37 20:51	06:05 20:24	06:39 19:35	07:49 (FO 04) 18:42	07:12 16:55	07:26 16:35		
8	05:37 20:51	06:06 20:23	06:40 19:34	07:49 (FO 04) 18:40	07:13 16:54	07:27 16:34		
9	05:38 20:50	06:07 20:22	06:41 19:32	07:50 (FO 04) 18:38	07:15 16:53	07:28 16:34		
10	05:39 20:50	06:09 20:20	06:42 19:30	07:52 (FO 04) 18:37	07:16 16:52	07:29 16:34		
11	05:40 20:49	06:10 20:19	06:43 19:28	07:57 (FO 04) 18:35	07:17 16:51	07:30 16:34	08:39 (FO 01) 08:41 (FO 01)	
12	05:40 20:49	06:11 20:17	08:20 (FO 04) 08:21 (FO 04) 19:26	06:45 18:33	07:18 16:50	07:31 16:35	08:36 (FO 01) 08:42 (FO 01)	
13	05:41 20:48	06:12 20:16	08:18 (FO 04) 08:23 (FO 04) 19:25	06:46 19:25	07:19 18:32	07:31 16:49	08:36 (FO 01) 08:44 (FO 01)	
14	05:42 20:48	06:13 20:15	08:17 (FO 04) 08:24 (FO 04) 19:23	06:47 19:23	07:20 18:30	06:59 16:48	07:32 16:35	08:36 (FO 01) 08:45 (FO 01)
15	05:43 20:47	06:14 20:13	08:15 (FO 04) 08:25 (FO 04) 19:21	06:48 19:21	07:22 18:28	07:01 16:47	07:33 16:35	08:36 (FO 01) 08:47 (FO 01)
16	05:44 20:46	06:15 20:12	08:13 (FO 04) 08:26 (FO 04) 19:19	06:49 19:19	07:23 18:27	07:02 16:46	07:34 16:35	08:35 (FO 01) 08:47 (FO 01)
17	05:44 20:46	06:16 20:10	08:12 (FO 04) 08:27 (FO 04) 19:17	06:50 19:17	07:24 18:25	07:03 16:45	07:34 16:36	08:36 (FO 01) 08:48 (FO 01)
18	05:45 20:45	06:17 20:09	08:10 (FO 04) 08:28 (FO 04) 19:16	06:51 19:16	07:25 18:23	07:04 16:44	07:35 16:36	08:37 (FO 01) 08:49 (FO 01)
19	05:46 20:44	06:18 20:07	08:09 (FO 04) 08:29 (FO 04) 19:14	06:52 19:14	07:26 18:22	07:06 16:43	07:36 16:36	08:36 (FO 01) 08:49 (FO 01)
20	05:47 20:43	06:19 20:05	08:07 (FO 04) 08:30 (FO 04) 19:12	06:53 19:12	07:28 18:20	07:07 16:42	07:36 16:37	08:37 (FO 01) 08:50 (FO 01)
21	05:48 20:43	06:21 20:04	08:06 (FO 04) 08:30 (FO 04) 19:10	06:54 19:10	07:29 18:19	07:08 16:41	07:37 16:37	08:37 (FO 01) 08:50 (FO 01)
22	05:49 20:42	06:22 20:02	08:04 (FO 04) 08:31 (FO 04) 19:08	06:55 19:08	07:30 18:17	07:09 16:41	07:37 16:37	08:38 (FO 01) 08:51 (FO 01)
23	05:50 20:41	06:23 20:01	08:02 (FO 04) 08:31 (FO 04) 19:07	06:57 19:07	07:31 18:16	07:11 16:40	07:38 16:38	08:38 (FO 01) 08:51 (FO 01)
24	05:51 20:40	06:24 19:59	08:00 (FO 04) 08:31 (FO 04) 19:05	06:58 19:05	07:33 18:14	07:12 16:39	07:38 16:39	08:39 (FO 01) 08:52 (FO 01)
25	05:52 20:39	06:25 19:57	07:58 (FO 04) 08:31 (FO 04) 19:03	06:59 19:03	06:34 17:13	07:13 16:39	07:39 16:39	08:39 (FO 01) 08:52 (FO 01)
26	05:53 20:38	06:26 19:56	07:56 (FO 04) 08:31 (FO 04) 19:01	07:00 19:01	06:35 17:11	07:14 16:38	07:39 16:40	08:40 (FO 01) 08:52 (FO 01)
27	05:54 20:37	06:27 19:54	07:54 (FO 04) 08:30 (FO 04) 18:59	07:01 18:59	06:36 17:10	07:15 16:38	07:40 16:40	08:41 (FO 01) 08:53 (FO 01)
28	05:55 20:36	06:28 19:53	07:52 (FO 04) 08:30 (FO 04) 18:58	07:02 18:58	06:38 17:08	07:16 16:37	07:40 16:41	08:42 (FO 01) 08:53 (FO 01)
29	05:56 20:35	06:29 19:51	07:50 (FO 04) 08:30 (FO 04) 18:56	07:03 18:56	06:39 17:07	07:18 16:37	07:40 16:42	08:43 (FO 01) 08:53 (FO 01)
30	05:57 20:34	06:30 19:49	07:49 (FO 04) 08:29 (FO 04) 18:54	07:04 18:54	06:40 17:05	07:19 16:36	07:40 16:43	08:44 (FO 01) 08:52 (FO 01)
31	05:58 20:33	06:31 19:47	07:47 (FO 04) 08:29 (FO 04)		06:41 17:04		07:41 16:43	08:45 (FO 01) 08:52 (FO 01)
Potential sun hours	465	432	376	343	293	281		
Total, worst case		487	346			223		

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

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

Calculation: Shadow Shadow receptor: I - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (123)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:45	08:47 (FO 01) 08:50 (FO 01)	07:25 17:21	06:47 17:57	06:53 19:35	08:02 (FO 04) 08:18 (FO 04)	06:04 20:09	05:33 20:41
2	07:41 16:45		07:24 17:22	06:45 17:59	06:51 19:36	07:58 (FO 04) 08:21 (FO 04)	06:03 20:10	05:33 20:42
3	07:41 16:46		07:23 17:23	06:44 18:00	06:50 19:37	07:56 (FO 04) 08:24 (FO 04)	06:02 20:12	05:32 20:43
4	07:41 16:47		07:22 17:25	06:42 18:01	06:48 19:38	07:55 (FO 04) 08:25 (FO 04)	06:00 20:13	05:32 20:43
5	07:41 16:48		07:21 17:26	06:40 18:02	06:46 19:39	07:54 (FO 04) 08:26 (FO 04)	05:59 20:14	05:31 20:44
6	07:41 16:49		07:20 17:27	06:39 18:04	06:44 19:40	07:52 (FO 04) 08:27 (FO 04)	05:58 20:15	05:31 20:45
7	07:41 16:50		07:19 17:29	06:37 18:05	06:43 19:41	07:52 (FO 04) 08:28 (FO 04)	05:56 20:16	05:31 20:45
8	07:41 16:51		07:18 17:30	06:35 18:06	06:41 19:43	07:51 (FO 04) 08:28 (FO 04)	05:55 20:17	05:30 20:46
9	07:40 16:52		07:16 17:31	06:34 18:07	06:39 19:44	07:49 (FO 04) 08:28 (FO 04)	05:54 20:18	05:30 20:47
10	07:40 16:53		07:15 17:33	06:32 18:09	06:38 19:45	07:49 (FO 04) 08:29 (FO 04)	05:53 20:19	05:30 20:47
11	07:40 16:54		07:14 17:34	06:30 18:10	06:36 19:46	07:48 (FO 04) 08:29 (FO 04)	05:52 20:21	05:30 20:48
12	07:40 16:56		07:12 17:35	06:28 18:11	06:34 19:47	07:47 (FO 04) 08:29 (FO 04)	05:50 20:22	05:30 20:48
13	07:39 16:57		07:11 17:37	06:27 18:12	06:32 19:48	07:49 (FO 04) 08:29 (FO 04)	05:49 20:23	05:30 20:49
14	07:39 16:58		07:10 17:38	06:25 18:13	06:31 19:50	07:50 (FO 04) 08:29 (FO 04)	05:48 20:24	05:29 20:49
15	07:38 16:59		07:08 17:39	06:23 18:15	06:29 19:51	07:51 (FO 04) 08:28 (FO 04)	05:47 20:25	05:29 20:50
16	07:38 17:00		07:07 17:41	06:21 18:16	06:27 19:52	07:53 (FO 04) 08:29 (FO 04)	05:46 20:26	05:29 20:50
17	07:37 17:01		07:05 17:42	06:20 18:17	06:26 19:53	07:54 (FO 04) 08:28 (FO 04)	05:45 20:27	05:29 20:51
18	07:37 17:03		07:04 17:43	06:18 18:18	06:24 19:54	07:55 (FO 04) 08:28 (FO 04)	05:44 20:28	05:29 20:51
19	07:36 17:04		07:03 17:45	06:16 18:19	06:23 19:55	07:56 (FO 04) 08:27 (FO 04)	05:43 20:29	05:30 20:51
20	07:36 17:05		07:01 17:46	06:14 18:20	06:21 19:57	07:57 (FO 04) 08:26 (FO 04)	05:42 20:30	05:30 20:52
21	07:35 17:06		07:00 17:47	06:13 18:22	06:19 19:58	07:59 (FO 04) 08:25 (FO 04)	05:41 20:31	05:30 20:52
22	07:34 17:08		06:58 17:48	06:11 18:23	06:18 19:59	08:00 (FO 04) 08:24 (FO 04)	05:40 20:32	05:30 20:52
23	07:34 17:09		06:56 17:50	06:09 18:24	06:16 20:00	08:02 (FO 04) 08:24 (FO 04)	05:39 20:33	05:30 20:52
24	07:33 17:10		06:55 17:51	06:07 18:25	06:15 20:01	08:03 (FO 04) 08:22 (FO 04)	05:39 20:34	05:31 20:52
25	07:32 17:11		06:53 17:52	06:06 18:26	06:13 20:02	08:04 (FO 04) 08:21 (FO 04)	05:38 20:35	05:31 20:53
26	07:31 17:13		06:52 17:54	06:04 18:28	06:12 20:03	08:05 (FO 04) 08:19 (FO 04)	05:37 20:36	05:31 20:53
27	07:30 17:14		06:50 17:55	06:02 18:29	06:10 20:05	08:07 (FO 04) 08:19 (FO 04)	05:36 20:37	05:32 20:53
28	07:29 17:15		06:49 17:56	06:00 18:30	06:09 20:06	08:09 (FO 04) 08:17 (FO 04)	05:36 20:38	05:32 20:53
29	07:28 17:17			06:58 19:31	06:07 20:07	08:09 (FO 04) 08:15 (FO 04)	05:35 20:39	05:32 20:53
30	07:28 17:18			06:57 19:32	06:06 20:08	08:11 (FO 04) 08:13 (FO 04)	05:34 20:39	05:33 20:53
31	07:27 17:19			06:55 19:33			05:34 20:40	
Potential sun hours	292		294	369	401		454	459
Total, worst case	3				828			

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

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

Calculation: Shadow Shadow receptor: I - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (123)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December	
1	05:33 20:52	05:59 20:32	06:33 19:46	07:47 (FO 04) 18:52	07:05 17:03	07:20 16:36	
2	05:34 20:52	06:00 20:30	06:34 19:44	07:47 (FO 04) 18:51	07:07 17:01	07:21 16:36	
3	05:34 20:52	06:01 20:29	06:35 19:42	07:47 (FO 04) 18:49	07:08 17:00	07:22 16:35	
4	05:35 20:52	06:02 20:28	06:36 19:41	07:48 (FO 04) 18:47	07:09 16:59	07:23 16:35	
5	05:36 20:52	06:03 20:27	06:37 19:39	07:48 (FO 04) 18:45	07:10 16:58	07:24 16:35	
6	05:36 20:51	06:04 20:26	06:38 19:37	07:48 (FO 04) 18:44	07:11 16:56	07:25 16:35	
7	05:37 20:51	06:05 20:24	06:39 19:35	07:49 (FO 04) 18:42	07:12 16:55	07:26 16:35	
8	05:37 20:51	06:06 20:23	06:40 19:34	07:49 (FO 04) 18:40	07:13 16:54	07:27 16:34	
9	05:38 20:50	06:07 20:22	06:41 19:32	07:49 (FO 04) 18:38	07:15 16:53	07:28 16:34	
10	05:39 20:50	06:09 20:20	06:42 19:30	07:51 (FO 04) 18:37	07:16 16:52	07:29 16:34	
11	05:40 20:49	06:10 20:19	06:43 19:28	07:55 (FO 04) 18:35	07:17 16:51	07:30 16:34	08:38 (FO 01)
12	05:40 20:49	06:11 20:17	06:45 19:26	08:12 (FO 04) 18:33	07:18 16:50	07:31 16:35	3 08:41 (FO 01) 6 08:42 (FO 01)
13	05:41 20:48	06:12 20:16	06:46 19:25	08:18 (FO 04) 18:32	07:19 16:49	07:31 16:35	8 08:36 (FO 01) 8 08:44 (FO 01)
14	05:42 20:48	06:13 20:15	06:47 19:23	08:17 (FO 04) 18:30	07:20 16:48	07:32 16:35	9 08:36 (FO 01) 9 08:45 (FO 01)
15	05:43 20:47	06:14 20:13	06:48 19:21	08:15 (FO 04) 18:28	07:22 16:47	07:33 16:35	10 08:36 (FO 01) 10 08:46 (FO 01)
16	05:44 20:46	06:15 20:12	06:49 19:19	08:13 (FO 04) 18:27	07:23 16:46	07:34 16:35	12 08:35 (FO 01) 12 08:47 (FO 01)
17	05:44 20:46	06:16 20:10	06:50 19:17	08:12 (FO 04) 18:25	07:24 16:45	07:34 16:36	12 08:36 (FO 01) 12 08:48 (FO 01)
18	05:45 20:45	06:17 20:09	06:51 19:16	08:10 (FO 04) 18:23	07:25 16:44	07:35 16:36	13 08:36 (FO 01) 13 08:49 (FO 01)
19	05:46 20:44	06:18 20:07	06:52 19:14	08:09 (FO 04) 18:22	07:26 16:43	07:36 16:36	13 08:36 (FO 01) 13 08:49 (FO 01)
20	05:47 20:43	06:19 20:05	06:53 19:12	08:07 (FO 04) 18:20	07:28 16:42	07:36 16:37	13 08:37 (FO 01) 13 08:50 (FO 01)
21	05:48 20:43	06:21 20:04	06:54 19:10	08:06 (FO 04) 18:19	07:29 16:41	07:37 16:37	13 08:37 (FO 01) 13 08:50 (FO 01)
22	05:49 20:42	06:22 20:02	06:55 19:08	08:04 (FO 04) 18:17	07:30 16:41	07:37 16:37	13 08:38 (FO 01) 13 08:51 (FO 01)
23	05:50 20:41	06:23 20:01	06:57 19:07	08:02 (FO 04) 18:16	07:31 16:40	07:38 16:38	13 08:38 (FO 01) 13 08:51 (FO 01)
24	05:51 20:40	06:24 19:59	06:58 19:05	08:00 (FO 04) 18:14	07:33 16:39	07:38 16:39	13 08:39 (FO 01) 13 08:52 (FO 01)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:58 (FO 04) 17:13	07:34 16:39	07:39 16:39	13 08:39 (FO 01) 13 08:52 (FO 01)
26	05:53 20:38	06:26 19:56	07:00 19:01	07:56 (FO 04) 17:11	07:35 16:38	07:39 16:40	13 08:39 (FO 01) 13 08:52 (FO 01)
27	05:54 20:37	06:27 19:54	07:01 18:59	07:54 (FO 04) 17:10	07:36 16:38	07:40 16:40	13 08:41 (FO 01) 12 08:53 (FO 01)
28	05:55 20:36	06:28 19:53	07:02 18:58	07:52 (FO 04) 17:08	07:37 16:37	07:40 16:41	12 08:41 (FO 01) 12 08:53 (FO 01)
29	05:56 20:35	06:29 19:51	07:03 18:56	07:50 (FO 04) 17:07	07:39 16:37	07:40 16:42	10 08:42 (FO 01) 10 08:52 (FO 01)
30	05:57 20:34	06:30 19:49	07:04 18:54	07:49 (FO 04) 17:05	07:40 16:36	07:40 16:43	10 08:43 (FO 01) 9 08:52 (FO 01)
31	05:58 20:33	06:31 19:47	07:04 18:52	07:47 (FO 04) 17:04	06:41 16:36	07:41 16:43	8 08:44 (FO 01) 8 08:52 (FO 01)
Potential sun hours	465	432	376	343	293	281	
Total, worst case		478	358			228	

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

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

Calculation: Shadow Shadow receptor: J - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (124)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	
1	07:41 16:45	07:25 17:21	06:47 17:57	06:53 19:35	08:01 (FO 04) 08:20 (FO 04)	06:04 20:09	05:33 20:41
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	07:57 (FO 04) 08:22 (FO 04)	06:03 20:10	05:33 20:42
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	07:56 (FO 04) 08:25 (FO 04)	06:02 20:12	05:32 20:43
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	07:55 (FO 04) 08:26 (FO 04)	06:00 20:13	05:32 20:43
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	07:54 (FO 04) 08:27 (FO 04)	05:59 20:14	05:31 20:44
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	07:52 (FO 04) 08:28 (FO 04)	05:58 20:15	05:31 20:45
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	07:52 (FO 04) 08:29 (FO 04)	05:56 20:16	05:31 20:45
8	07:41 16:51	07:18 17:30	06:35 18:06	06:41 19:43	07:51 (FO 04) 08:29 (FO 04)	05:55 20:17	05:30 20:46
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	07:49 (FO 04) 08:29 (FO 04)	05:54 20:18	05:30 20:47
10	07:40 16:53	07:15 17:33	06:32 18:09	06:38 19:45	07:49 (FO 04) 08:30 (FO 04)	05:53 20:19	05:30 20:47
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	07:48 (FO 04) 08:30 (FO 04)	05:52 20:21	05:30 20:48
12	07:40 16:56	07:12 17:35	06:28 18:11	06:34 19:47	07:47 (FO 04) 08:29 (FO 04)	05:50 20:22	05:30 20:48
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	07:49 (FO 04) 08:30 (FO 04)	05:49 20:23	05:30 20:49
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	07:50 (FO 04) 08:29 (FO 04)	05:48 20:24	05:29 20:49
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	07:51 (FO 04) 08:29 (FO 04)	05:47 20:25	05:29 20:50
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	07:53 (FO 04) 08:29 (FO 04)	05:46 20:26	05:29 20:50
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	07:54 (FO 04) 08:28 (FO 04)	05:45 20:27	05:29 20:51
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	07:55 (FO 04) 08:28 (FO 04)	05:44 20:28	05:29 20:51
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55	07:56 (FO 04) 08:27 (FO 04)	05:43 20:29	05:30 20:51
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:57	07:57 (FO 04) 08:26 (FO 04)	05:42 20:30	05:30 20:52
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58	07:59 (FO 04) 08:25 (FO 04)	05:41 20:31	05:30 20:52
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	08:00 (FO 04) 08:24 (FO 04)	05:40 20:32	05:30 20:52
23	07:34 17:09	06:56 17:50	06:09 18:24	06:16 20:00	08:02 (FO 04) 08:23 (FO 04)	05:39 20:33	05:30 20:52
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	08:03 (FO 04) 08:22 (FO 04)	05:39 20:34	05:31 20:52
25	07:32 17:11	06:53 17:52	06:06 18:26	06:13 20:02	08:04 (FO 04) 08:21 (FO 04)	05:38 20:35	05:31 20:53
26	07:31 17:13	06:52 17:54	06:04 18:28	06:12 20:03	08:05 (FO 04) 08:19 (FO 04)	05:37 20:36	05:31 20:53
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	08:07 (FO 04) 08:18 (FO 04)	05:36 20:37	05:32 20:53
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06	08:09 (FO 04) 08:17 (FO 04)	05:36 20:38	05:32 20:53
29	07:28 17:17		06:58 19:31	06:07 20:07	08:09 (FO 04) 08:14 (FO 04)	05:35 20:39	05:32 20:53
30	07:28 17:18		06:57 19:32	06:06 20:08	08:11 (FO 04) 08:12 (FO 04)	05:34 20:39	05:33 20:53
31	07:27 17:19		06:55 19:33	08:06 (FO 04) 08:16 (FO 04)		05:34 20:40	
Potential sun hours	292	294	369	401		454	459
Total, worst case			10	840			

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

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

Calculation: Shadow Shadow receptor: J - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (124)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December		
1	05:33 20:52	05:59 20:32	06:33 19:46	07:47 (FO 04) 08:29 (FO 04)	07:05 18:52	06:43 17:03	07:20 16:36	
2	05:34 20:52	06:00 20:30	06:34 19:44	07:47 (FO 04) 08:28 (FO 04)	07:07 18:51	06:44 17:01	07:21 16:36	
3	05:34 20:52	06:01 20:29	06:35 19:42	07:47 (FO 04) 08:27 (FO 04)	07:08 18:49	06:45 17:00	07:22 16:35	
4	05:35 20:52	06:02 20:28	06:36 19:41	07:48 (FO 04) 08:26 (FO 04)	07:09 18:47	06:46 16:59	07:23 16:35	
5	05:36 20:52	06:03 20:27	06:37 19:39	07:48 (FO 04) 08:25 (FO 04)	07:10 18:45	06:48 16:58	07:24 16:35	
6	05:36 20:51	06:04 20:26	06:38 19:37	07:48 (FO 04) 08:24 (FO 04)	07:11 18:44	06:49 16:56	07:25 16:35	
7	05:37 20:51	06:05 20:24	06:39 19:35	07:49 (FO 04) 08:22 (FO 04)	07:12 18:42	06:50 16:55	07:26 16:35	
8	05:37 20:51	06:06 20:23	06:40 19:34	07:49 (FO 04) 08:20 (FO 04)	07:13 18:40	06:52 16:54	07:27 16:34	
9	05:38 20:50	06:07 20:22	06:41 19:32	07:49 (FO 04) 08:18 (FO 04)	07:15 18:38	06:53 16:53	07:28 16:34	
10	05:39 20:50	06:09 20:20	06:42 19:30	07:50 (FO 04) 08:16 (FO 04)	07:16 18:37	06:54 16:52	07:29 16:34	
11	05:40 20:49	06:10 20:19	06:43 19:28	07:54 (FO 04) 08:14 (FO 04)	07:17 18:35	06:55 16:51	07:30 16:34	
12	05:40 20:49	06:11 20:17	06:45 19:26	07:57 (FO 04) 08:09 (FO 04)	07:18 18:33	06:57 16:50	07:31 16:35	08:37 (FO 01) 08:42 (FO 01)
13	05:41 20:48	06:12 20:16	06:46 19:25	08:18 (FO 04) 08:20 (FO 04)	07:19 18:32	06:58 16:49	07:31 16:35	08:36 (FO 01) 08:43 (FO 01)
14	05:42 20:48	06:13 20:15	06:47 19:23	08:17 (FO 04) 08:22 (FO 04)	07:20 18:30	06:59 16:48	07:32 16:35	08:36 (FO 01) 08:45 (FO 01)
15	05:43 20:47	06:14 20:13	06:48 19:21	08:15 (FO 04) 08:24 (FO 04)	07:22 18:28	07:01 16:47	07:33 16:35	08:36 (FO 01) 08:46 (FO 01)
16	05:44 20:46	06:15 20:12	06:49 19:19	08:13 (FO 04) 08:25 (FO 04)	07:23 18:27	07:02 16:46	07:34 16:35	08:35 (FO 01) 08:46 (FO 01)
17	05:44 20:46	06:16 20:10	06:50 19:17	08:12 (FO 04) 08:26 (FO 04)	07:24 18:25	07:03 16:45	07:34 16:36	08:36 (FO 01) 08:47 (FO 01)
18	05:45 20:45	06:17 20:09	06:51 19:16	08:10 (FO 04) 08:27 (FO 04)	07:25 18:23	07:04 16:44	07:35 16:36	08:36 (FO 01) 08:49 (FO 01)
19	05:46 20:44	06:18 20:07	06:52 19:14	08:09 (FO 04) 08:29 (FO 04)	07:26 18:22	07:06 16:43	07:36 16:36	08:36 (FO 01) 08:49 (FO 01)
20	05:47 20:43	06:19 20:05	06:53 19:12	08:07 (FO 04) 08:29 (FO 04)	07:28 18:20	07:07 16:42	07:36 16:37	08:37 (FO 01) 08:50 (FO 01)
21	05:48 20:43	06:21 20:04	06:54 19:10	08:06 (FO 04) 08:30 (FO 04)	07:29 18:19	07:08 16:41	07:37 16:37	08:37 (FO 01) 08:50 (FO 01)
22	05:49 20:42	06:22 20:02	06:55 19:08	08:04 (FO 04) 08:30 (FO 04)	07:30 18:17	07:09 16:41	07:37 16:37	08:38 (FO 01) 08:51 (FO 01)
23	05:50 20:41	06:23 20:01	06:57 19:07	08:02 (FO 04) 08:30 (FO 04)	07:31 18:16	07:11 16:40	07:38 16:38	08:38 (FO 01) 08:51 (FO 01)
24	05:51 20:40	06:24 19:59	06:58 19:05	08:00 (FO 04) 08:31 (FO 04)	07:33 18:14	07:12 16:39	07:38 16:39	08:39 (FO 01) 08:52 (FO 01)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:58 (FO 04) 08:31 (FO 04)	06:34 17:13	07:13 16:39	07:39 16:39	08:39 (FO 01) 08:52 (FO 01)
26	05:53 20:38	06:26 19:56	07:00 19:01	07:56 (FO 04) 08:31 (FO 04)	06:35 17:11	07:14 16:38	07:39 16:40	08:40 (FO 01) 08:51 (FO 01)
27	05:54 20:37	06:27 19:54	07:01 18:59	07:54 (FO 04) 08:31 (FO 04)	06:36 17:10	07:15 16:38	07:40 16:40	08:41 (FO 01) 08:52 (FO 01)
28	05:55 20:36	06:28 19:53	07:02 18:58	07:52 (FO 04) 08:30 (FO 04)	06:38 17:08	07:16 16:37	07:40 16:41	08:42 (FO 01) 08:52 (FO 01)
29	05:56 20:35	06:29 19:51	07:03 18:56	07:50 (FO 04) 08:30 (FO 04)	06:39 17:07	07:18 16:37	07:40 16:42	08:43 (FO 01) 08:52 (FO 01)
30	05:57 20:34	06:30 19:49	07:04 18:54	07:49 (FO 04) 08:30 (FO 04)	06:40 17:05	07:19 16:36	07:40 16:43	08:44 (FO 01) 08:52 (FO 01)
31	05:58 20:33	06:31 19:47	07:05 18:53	07:47 (FO 04) 08:29 (FO 04)	06:41 17:04	07:20 16:43	07:41 16:43	08:45 (FO 01) 08:51 (FO 01)
Potential sun hours	465	432	376	343	293	281	212	
Total, worst case		476	385					

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

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

Calculation: Shadow Shadow receptor: K - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (125)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December				
1	07:41	07:25	06:47	06:53	08:04 (FO 04)	06:04	05:33	05:33	05:59	06:33	07:54 (FO 04)	07:05	06:43	07:20		
	16:45	17:21	17:57	19:35	38 08:42 (FO 04)	20:09	20:41	20:52	20:32	19:46	46 08:40 (FO 04)	18:52	17:03	16:36		
2	07:41	07:24	06:45	06:51	08:03 (FO 04)	06:03	05:33	05:34	06:00	06:34	07:54 (FO 04)	07:07	06:44	07:21		
	16:45	17:22	17:59	19:36	39 08:42 (FO 04)	20:10	20:42	20:52	20:30	19:44	46 08:40 (FO 04)	18:51	17:01	16:36		
3	07:41	07:23	06:44	06:50	08:03 (FO 04)	06:02	05:32	05:34	06:01	06:35	07:54 (FO 04)	07:08	06:45	07:22		
	16:46	17:23	18:00	19:37	40 08:43 (FO 04)	20:12	20:43	20:52	20:29	19:42	46 08:40 (FO 04)	18:49	17:00	16:35		
4	07:41	07:22	06:42	06:48	08:02 (FO 04)	06:00	05:32	05:35	06:02	06:36	07:54 (FO 04)	07:09	06:46	07:23		
	16:47	17:25	18:01	19:38	41 08:43 (FO 04)	20:13	20:43	20:52	20:28	19:41	46 08:40 (FO 04)	18:47	16:59	16:35		
5	07:41	07:21	06:40	06:46	08:00 (FO 04)	05:59	05:31	05:36	06:03	06:37	07:55 (FO 04)	07:10	06:48	07:24		
	16:48	17:26	18:02	19:39	43 08:43 (FO 04)	20:14	20:44	20:52	20:27	19:39	44 08:39 (FO 04)	18:45	16:58	16:35		
6	07:41	07:20	06:39	06:44	07:59 (FO 04)	05:58	05:31	05:36	06:04	06:38	07:55 (FO 04)	07:11	06:49	07:25		
	16:49	17:27	18:04	19:40	44 08:43 (FO 04)	20:15	20:45	20:51	20:26	19:37	44 08:39 (FO 04)	18:43	16:56	16:35		
7	07:41	07:19	06:37	06:43	07:59 (FO 04)	05:56	05:31	05:37	06:05	06:39	07:55 (FO 04)	07:12	06:50	07:26		
	16:50	17:29	18:05	19:41	44 08:43 (FO 04)	20:16	20:45	20:51	20:24	19:35	43 08:38 (FO 04)	18:42	16:55	16:35		
8	07:41	07:18	06:35	06:41	07:57 (FO 04)	05:55	05:30	05:37	06:06	06:40	07:56 (FO 04)	07:13	06:52	07:27		
	16:51	17:30	18:06	19:43	46 08:43 (FO 04)	20:17	20:46	20:51	20:23	19:34	41 08:37 (FO 04)	18:40	16:54	16:34		
9	07:40	07:16	06:34	06:39	07:56 (FO 04)	05:54	05:30	05:38	06:07	06:41	07:56 (FO 04)	07:15	06:53	07:28		
	16:52	17:31	18:07	19:44	46 08:42 (FO 04)	20:18	20:47	20:50	20:22	19:32	40 08:36 (FO 04)	18:38	16:53	16:34		
10	07:40	07:15	06:32	06:38	07:56 (FO 04)	05:53	05:30	05:39	06:09	06:42	07:56 (FO 04)	07:16	06:54	07:29		
	16:53	17:33	18:09	19:45	46 08:42 (FO 04)	20:19	20:47	20:50	20:20	19:30	39 08:35 (FO 04)	18:37	16:52	16:34		
11	07:40	07:14	06:30	06:36	07:55 (FO 04)	05:52	05:30	05:40	06:10	06:43	07:57 (FO 04)	07:17	06:55	07:30		
	16:54	17:34	18:10	19:46	46 08:41 (FO 04)	20:21	20:48	20:49	20:19	19:28	38 08:35 (FO 04)	18:35	16:51	16:34		
12	07:40	07:12	06:28	06:34	07:54 (FO 04)	05:50	05:30	05:40	06:11	06:44	07:58 (FO 04)	07:18	06:57	07:31		
	16:56	17:35	18:11	19:47	46 08:40 (FO 04)	20:22	20:48	20:49	20:17	19:26	36 08:34 (FO 04)	18:33	16:50	16:35		
13	07:39	07:11	06:27	06:32	07:54 (FO 04)	05:49	05:30	05:41	06:12	06:46	07:58 (FO 04)	07:19	06:58	07:31		
	16:57	17:37	18:12	19:48	46 08:40 (FO 04)	20:23	20:49	20:48	20:16	19:25	34 08:32 (FO 04)	18:32	16:48	16:35		
14	07:39	07:10	06:25	06:31	07:52 (FO 04)	05:48	05:29	05:42	06:13	06:47	07:58 (FO 04)	07:20	06:59	07:32		
	16:58	17:38	18:13	19:50	47 08:39 (FO 04)	20:24	20:49	20:48	20:15	19:23	33 08:31 (FO 04)	18:30	16:48	16:35		
15	07:38	07:08	06:23	06:29	07:51 (FO 04)	05:47	05:29	05:43	06:14	06:48	07:58 (FO 04)	07:22	07:01	07:33		
	16:59	17:39	18:15	19:51	47 08:38 (FO 04)	20:25	20:50	20:47	20:13	19:21	31 08:29 (FO 04)	18:28	16:47	16:35		
16	07:38	07:07	06:21	06:27	07:53 (FO 04)	05:46	05:29	05:44	06:15	10 08:13 (FO 04)	06:49	07:59 (FO 04)	07:23	07:02	07:34	
	17:00	17:41	18:16	19:52	45 08:38 (FO 04)	20:26	20:50	20:46	20:12	10 08:23 (FO 04)	19:19	27 08:26 (FO 04)	18:27	16:46	16:35	
17	07:37	07:05	06:20	06:26	07:54 (FO 04)	05:45	05:29	05:44	06:16	08:12 (FO 04)	06:50	07:59 (FO 04)	07:24	07:03	07:34	
	17:01	17:42	18:17	19:53	42 08:36 (FO 04)	20:27	20:51	20:46	20:10	15 08:27 (FO 04)	19:17	25 08:24 (FO 04)	18:25	16:45	16:35	
18	07:37	07:04	06:18	06:24	07:55 (FO 04)	05:44	05:29	05:45	06:17	08:10 (FO 04)	06:51	08:01 (FO 04)	07:25	07:04	07:35	
	17:03	17:43	18:18	19:54	41 08:36 (FO 04)	20:28	20:51	20:45	20:09	19 08:29 (FO 04)	19:16	19 08:20 (FO 04)	18:23	16:44	16:36	
19	07:36	07:03	06:16	06:23	07:56 (FO 04)	05:43	05:30	05:46	06:18	08:09 (FO 04)	06:52	08:09 (FO 04)	07:26	07:06	07:36	
	17:04	17:45	18:19	19:55	38 08:34 (FO 04)	20:29	20:51	20:44	20:07	23 08:32 (FO 04)	19:14	8 08:14 (FO 04)	18:22	16:43	16:36	
20	07:36	07:01	06:14	06:21	07:57 (FO 04)	05:42	05:30	05:47	06:19	08:07 (FO 04)	06:53	08:07 (FO 04)	07:28	07:07	07:36	
	17:05	17:46	18:20	19:57	35 08:32 (FO 04)	20:30	20:52	20:43	20:05	27 08:34 (FO 04)	19:12	18:20	16:42	16:37		
21	07:35	07:00	06:13	06:19	07:59 (FO 04)	05:41	05:30	05:48	06:21	08:06 (FO 04)	06:54	08:06 (FO 04)	07:29	07:08	07:37	
	17:06	17:47	18:22	19:58	32 08:31 (FO 04)	20:31	20:52	20:43	20:04	29 08:35 (FO 04)	19:10	18:19	16:41	16:37		
22	07:34	06:58	06:11	06:18	08:00 (FO 04)	05:40	05:30	05:49	06:22	08:04 (FO 04)	06:55	08:04 (FO 04)	07:30	07:09	07:37	
	17:08	17:48	18:23	19:59	29 08:29 (FO 04)	20:32	20:52	20:42	20:02	32 08:36 (FO 04)	19:08	18:17	16:41	16:37		
23	07:34	06:56	06:09	06:16	08:02 (FO 04)	05:39	05:30	05:50	06:23	08:02 (FO 04)	06:57	08:02 (FO 04)	07:31	07:11	07:38	
	17:09	17:50	18:24	20:00	26 08:28 (FO 04)	20:33	20:52	20:41	20:01	35 08:37 (FO 04)	19:07	18:16	16:40	16:38		
24	07:33	06:55	06:07	06:15	08:03 (FO 04)	05:39	05:31	05:51	06:24	08:00 (FO 04)	06:58	08:00 (FO 04)	07:33	07:12	07:38	
	17:10	17:51	18:25	20:01	22 08:25 (FO 04)	20:34	20:52	20:40	19:59	38 08:38 (FO 04)	19:05	18:14	16:39	16:39		
25	07:32	06:53	06:06	06:13	08:04 (FO 04)	05:38	05:31	05:52	06:25	07:58 (FO 04)	06:59	08:04 (FO 04)	07:34	07:13	07:39	
	17:11	17:52	18:26	18 07:32 (FO 04)	20:02	19 08:23 (FO 04)	20:35	20:53	20:39	41 08:39 (FO 04)	19:03	17:13	16:39	16:39		
26	07:31	06:52	06:04	06:11	07:35 (FO 04)	06:12	08:05 (FO 04)	05:37	05:31	05:53	06:26	07:56 (FO 04)	07:00	06:35	07:14	07:39
	17:13	17:54	18:28	24 07:35 (FO 04)	20:03	14 08:19 (FO 04)	20:36	20:53	20:38	19:56	43 08:39 (FO 04)	19:01	17:11	16:38	16:40	
27	07:30	06:50	06:02	06:09	07:09 (FO 04)	06:10	08:08 (FO 04)	05:36	05:32	05:54	06:27	07:54 (FO 04)	07:01	06:36	07:15	07:40
	17:14	17:55	18:29	28 07:37 (FO 04)	20:05	6 08:14 (FO 04)	20:37	20:53	20:37	19:54	46 08:40 (FO 04)	18:59	17:10	16:38	16:40	
28	07:29	06:49	06:00	06:07	07:08 (FO 04)	06:09	05:36	05:32	05:55	06:28	07:53 (FO 04)	07:02	06:38	07:16	07:40	
	17:15	17:56	18:30	30 07:38 (FO 04)	20:06	20:38	20:53	20:36	19:53	47 08:40 (FO 04)	18:58	17:08	16:37	16:41		
29	07:28	06:58	06:11	06:18	08:07 (FO 04)	06:07	05:35	05:32	05:56	06:29	07:53 (FO 04)	07:03	06:39	07:18	07:40	
	17:17	18:00	18:34	32 08:39 (FO 04)	20:07	20:39	20:53	20:35	19:51	47 08:40 (FO 04)	18:56	17:07	16:37	16:42		
30	07:28	06:57	06:10	06:17	08:07 (FO 04)	06:06	05:34	05:33	05:57	06:30	07:54 (FO 04)	07:04	06:40	07:19	07:40	
	17:18	18:01	18:35	34 08:41 (FO 04)	20:08	20:39	20:53	20:34	19:49	46 08:40 (FO 04)	18:54	17:05	16:36	16:43		
31	07:27	06:56	06:09	06:16	08:05 (FO 04)	06:05	05:34	05:33	05:58	06:31	07:54 (FO 04)	07:04	06:41	07:20	07:41	
	17:19	18:02	18:36	36 08:41 (FO 04)	20:09	20:40	20:54	20:33	19:47	46 08:40 (FO 04)	18:54	17:04	16:35	16:43		
Potential sun hours	292	294	369	401	454	459	465	432	544	376	686	343	293	281		
Total, worst case			202	1008												

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

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

Calculation: Shadow Shadow receptor: L - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (126)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December		
1	07:41 16:45	07:25 17:21	06:47 17:57	06:53 19:35	08:05 (FO 04) 20:09	06:04 20:41	05:33 20:52	05:33 20:32	05:59 20:32	06:33 19:46	07:55 (FO 04) 08:42 (FO 04)	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	08:04 (FO 04) 20:10	06:03 20:42	05:33 20:52	05:34 20:30	06:00 20:30	06:34 19:44	07:55 (FO 04) 08:42 (FO 04)	07:07 18:51	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	08:03 (FO 04) 20:12	06:02 20:43	05:32 20:52	05:34 20:29	06:01 20:29	06:35 19:42	07:55 (FO 04) 08:42 (FO 04)	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	08:02 (FO 04) 20:13	06:00 20:43	05:32 20:52	05:35 20:28	06:02 20:28	06:36 19:41	07:55 (FO 04) 08:42 (FO 04)	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	08:01 (FO 04) 20:14	05:59 20:44	05:31 20:52	05:36 20:27	06:03 20:27	06:37 19:39	07:56 (FO 04) 08:42 (FO 04)	07:10 18:45	06:48 16:58	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	08:00 (FO 04) 20:15	05:58 20:45	05:31 20:51	05:36 20:26	06:04 20:26	06:38 19:37	07:56 (FO 04) 08:41 (FO 04)	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	08:00 (FO 04) 20:16	05:56 20:45	05:31 20:51	05:37 20:24	06:05 20:24	06:39 19:35	07:56 (FO 04) 08:41 (FO 04)	07:12 18:42	06:50 16:55	07:26 16:35
8	07:41 16:51	07:18 17:30	06:35 18:06	06:41 19:43	07:58 (FO 04) 20:17	05:55 20:46	05:30 20:51	05:37 20:23	06:06 20:23	06:40 19:34	07:56 (FO 04) 08:40 (FO 04)	07:13 18:40	06:52 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	07:57 (FO 04) 20:18	05:54 20:47	05:30 20:50	05:38 20:22	06:07 20:22	06:41 19:32	07:56 (FO 04) 08:39 (FO 04)	07:15 18:38	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:09	06:38 19:45	07:57 (FO 04) 20:19	05:53 20:47	05:30 20:50	05:39 20:20	06:09 20:20	06:42 19:30	07:57 (FO 04) 08:38 (FO 04)	07:16 18:37	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	07:56 (FO 04) 20:21	05:52 20:48	05:30 20:49	05:40 20:19	06:10 20:19	06:43 19:28	07:59 (FO 04) 08:38 (FO 04)	07:17 18:35	06:55 16:51	07:30 16:34
12	07:40 16:56	07:12 17:35	06:28 18:11	06:34 19:47	07:55 (FO 04) 20:22	05:50 20:48	05:30 20:49	05:40 20:17	06:11 20:17	19:26	07:59 (FO 04) 08:37 (FO 04)	07:18 18:33	06:57 16:50	07:31 16:35
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	07:55 (FO 04) 20:23	05:49 20:49	05:30 20:48	05:41 20:16	06:12 20:16	19:25	07:59 (FO 04) 08:36 (FO 04)	07:19 18:32	06:58 16:48	07:31 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	07:53 (FO 04) 20:24	05:48 20:49	05:29 20:48	05:42 20:15	06:13 20:15	19:25	07:59 (FO 04) 08:34 (FO 04)	07:20 18:30	06:59 16:48	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	07:53 (FO 04) 20:25	05:47 20:50	05:29 20:47	05:43 20:13	06:14 20:13	19:21	07:59 (FO 04) 08:33 (FO 04)	07:22 18:28	07:01 16:47	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	07:54 (FO 04) 20:26	05:46 20:50	05:29 20:46	05:44 20:12	06:15 20:12	19:19	07:59 (FO 04) 08:31 (FO 04)	07:23 18:27	07:02 16:46	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	07:54 (FO 04) 20:27	05:45 20:51	05:29 20:46	05:44 20:10	06:16 20:10	19:17	07:59 (FO 04) 08:29 (FO 04)	07:24 18:25	07:03 16:45	07:34 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	07:55 (FO 04) 20:28	05:44 20:51	05:29 20:45	05:45 20:09	06:17 20:09	19:16	07:59 (FO 04) 08:30 (FO 04)	07:25 18:23	07:04 16:44	07:35 16:36
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55	07:56 (FO 04) 20:29	05:43 20:51	05:29 20:44	05:46 20:07	06:18 20:07	19:15	07:59 (FO 04) 08:33 (FO 04)	07:26 18:22	07:06 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:57	07:57 (FO 04) 20:30	05:42 20:52	05:30 20:43	05:47 20:05	06:19 20:05	19:14	07:59 (FO 04) 08:35 (FO 04)	07:27 18:20	07:07 16:42	07:36 16:37
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58	07:59 (FO 04) 20:31	05:41 20:52	05:30 20:43	05:48 20:04	06:21 20:04	19:13	07:59 (FO 04) 08:36 (FO 04)	07:28 18:19	07:08 16:41	07:37 16:37
22	07:34 17:07	06:58 17:48	06:11 18:23	06:18 19:59	08:00 (FO 04) 20:32	05:40 20:52	05:29 20:42	05:49 20:02	06:22 20:02	19:12	07:59 (FO 04) 08:37 (FO 04)	07:29 18:17	07:09 16:41	07:37 16:37
23	07:34 17:09	06:56 17:50	06:09 18:24	06:16 20:00	08:02 (FO 04) 20:33	05:39 20:52	05:30 20:41	05:50 20:01	06:23 20:01	19:11	07:59 (FO 04) 08:38 (FO 04)	07:30 18:16	07:11 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	08:03 (FO 04) 20:34	05:39 20:52	05:31 20:40	05:51 19:59	06:24 19:59	19:10	07:59 (FO 04) 08:39 (FO 04)	07:31 18:14	07:12 16:39	07:38 16:39
25	07:32 17:11	06:53 17:52	06:06 18:26	06:13 20:02	08:04 (FO 04) 20:35	05:38 20:53	05:31 20:39	05:52 19:57	06:25 19:57	19:09	07:59 (FO 04) 08:40 (FO 04)	07:32 18:13	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:54	06:04 18:28	06:12 20:03	08:07 (FO 04) 20:36	05:37 20:53	05:31 20:38	05:53 19:56	06:26 19:56	19:08	07:56 (FO 04) 08:41 (FO 04)	07:33 18:11	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	08:10 (FO 04) 20:37	05:36 20:53	05:32 20:37	05:54 19:54	06:27 19:54	19:07	07:55 (FO 04) 08:41 (FO 04)	07:34 18:09	07:15 16:38	07:40 16:40
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06	07:09 (FO 04) 20:38	05:39 20:53	05:32 20:36	05:55 19:53	06:28 19:53	19:06	07:55 (FO 04) 08:42 (FO 04)	07:35 18:08	07:16 16:37	07:40 16:41
29	07:28 17:17	06:58 19:31	06:07 18:35	06:07 20:07	08:08 (FO 04) 20:39	05:38 20:53	05:32 20:35	05:56 19:51	06:29 19:51	19:05	07:54 (FO 04) 08:42 (FO 04)	07:36 18:06	07:17 16:37	07:40 16:42
30	07:28 17:18	06:57 19:32	06:06 18:37	06:06 20:08	08:08 (FO 04) 20:40	05:37 20:53	05:32 20:34	05:57 19:49	06:30 19:49	19:04	07:54 (FO 04) 08:42 (FO 04)	07:37 18:04	07:19 16:36	07:40 16:43
31	07:27 17:19	06:55 19:33	06:05 18:38	06:05 20:08	08:07 (FO 04) 20:41	05:36 20:53	05:31 20:33	05:58 19:47	06:31 19:47	19:03	07:55 (FO 04) 08:42 (FO 04)	07:38 18:04	07:21 16:43	07:41 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	760	343	293	281	
Total, worst case			262	1031					548					

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

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

Calculation: Shadow Shadow receptor: M - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (127)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:45	07:25 17:21	06:47 17:57	06:53 19:35	08:05 (FO 04) 20:09	06:04 20:41	05:33 20:52	05:33 20:32	05:59 19:46	07:55 (FO 04) 18:52	07:05 17:03	06:43 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	08:03 (FO 04) 20:10	06:03 20:42	05:33 20:52	05:34 20:30	06:00 19:44	07:55 (FO 04) 18:51	07:07 17:01	06:44 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	08:03 (FO 04) 20:12	06:02 20:43	05:32 20:52	05:34 20:29	06:01 19:42	07:55 (FO 04) 18:49	07:08 17:00	06:45 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	08:02 (FO 04) 20:13	06:00 20:43	05:32 20:52	05:35 20:28	06:02 19:41	07:56 (FO 04) 18:47	07:09 16:59	06:46 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	08:01 (FO 04) 20:14	05:59 20:44	05:31 20:52	05:36 20:27	06:03 19:39	07:56 (FO 04) 18:45	07:10 16:58	06:48 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	08:00 (FO 04) 20:15	05:58 20:45	05:31 20:51	05:36 20:26	06:04 19:37	07:56 (FO 04) 18:43	07:11 16:56	06:49 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	08:00 (FO 04) 20:16	05:56 20:45	05:31 20:51	05:37 20:24	06:05 19:35	07:56 (FO 04) 18:42	07:12 16:55	06:50 16:35
8	07:41 16:51	07:18 17:30	06:35 18:06	06:41 19:43	07:59 (FO 04) 20:17	05:55 20:46	05:30 20:51	05:37 20:23	06:06 19:34	07:56 (FO 04) 18:40	07:13 16:54	06:52 16:34
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	07:57 (FO 04) 20:18	05:54 20:47	05:30 20:50	05:38 20:22	06:07 19:32	07:56 (FO 04) 18:38	07:15 16:53	06:53 16:34
10	07:40 16:53	07:15 17:33	06:32 18:09	06:38 19:45	07:57 (FO 04) 20:19	05:53 20:47	05:30 20:50	05:39 20:20	06:09 19:30	07:57 (FO 04) 18:37	07:16 16:52	06:54 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	07:56 (FO 04) 20:21	05:52 20:48	05:30 20:49	05:40 20:19	06:10 19:28	07:58 (FO 04) 18:35	07:17 16:51	06:55 16:34
12	07:40 16:56	07:12 17:35	06:28 18:11	06:34 19:47	07:55 (FO 04) 20:22	05:50 20:48	05:30 20:49	05:40 20:17	06:11 19:26	07:58 (FO 04) 18:33	07:18 16:50	06:57 16:35
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	07:55 (FO 04) 20:23	05:49 20:49	05:30 20:50	05:41 20:16	06:12 19:25	07:58 (FO 04) 18:32	07:19 16:48	06:58 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	07:55 (FO 04) 20:24	05:48 20:49	05:29 20:48	05:42 20:15	06:13 19:23	07:59 (FO 04) 18:30	07:20 16:48	06:59 16:35
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	07:55 (FO 04) 20:25	05:47 20:50	05:29 20:47	05:43 20:13	06:14 19:21	07:59 (FO 04) 18:28	07:22 16:47	07:01 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	07:56 (FO 04) 20:26	05:46 20:50	05:29 20:46	05:44 20:12	06:15 19:19	08:00 (FO 04) 18:27	07:23 16:46	07:02 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	07:56 (FO 04) 20:27	05:45 20:51	05:29 20:46	05:44 20:10	06:16 19:17	08:00 (FO 04) 18:25	07:24 16:45	07:03 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	07:58 (FO 04) 20:28	05:44 20:51	05:29 20:45	05:45 20:09	06:17 19:16	08:00 (FO 04) 18:23	07:25 16:44	07:04 16:36
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55	08:36 (FO 04) 20:29	05:43 20:51	05:29 20:44	05:46 20:07	06:18 15	08:14 (FO 04) 18:22	07:26 16:43	07:06 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:57	07:59 (FO 04) 20:30	05:42 20:52	05:30 20:43	05:47 20:05	06:19 22	08:10 (FO 04) 18:20	07:28 16:42	07:07 16:37
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58	08:01 (FO 04) 20:31	05:41 20:52	05:30 20:43	05:48 20:04	06:21 26	08:08 (FO 04) 18:19	07:29 16:41	07:08 16:37
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	07:16 (FO 04) 20:32	05:40 20:52	05:30 20:42	05:49 20:02	06:22 30	08:06 (FO 04) 18:18	07:30 16:41	07:09 16:38
23	07:34 17:09	06:56 17:50	06:09 18:24	06:16 20:00	07:14 (FO 04) 20:33	05:39 20:52	05:30 20:41	06:23 20:01	06:57 33	08:04 (FO 04) 18:17	07:31 16:40	07:11 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	07:40 (FO 04) 20:34	05:39 20:52	05:31 20:40	06:24 19:59	06:58 36	08:02 (FO 04) 18:15	07:33 16:39	07:12 16:39
25	07:32 17:11	06:53 17:52	06:06 18:26	06:13 20:02	07:13 (FO 04) 20:35	05:38 20:53	05:31 20:39	06:25 19:57	06:59 38	08:01 (FO 04) 18:13	07:34 16:39	07:13 16:39
26	07:31 17:13	06:52 17:54	06:04 18:28	06:12 20:03	07:11 (FO 04) 20:36	05:37 20:53	05:31 20:38	06:26 19:56	07:00 41	08:09 (FO 04) 18:11	07:35 16:38	07:14 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	07:45 (FO 04) 20:37	05:36 20:53	05:32 20:37	06:27 19:54	06:58 43	08:10 (FO 04) 18:09	07:36 16:38	07:15 16:40
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06	07:09 (FO 04) 20:38	05:36 20:53	05:32 20:36	06:28 19:53	07:02 45	08:11 (FO 04) 18:08	07:37 16:37	07:16 16:41
29	07:28 17:17	06:58 18:31	06:08 18:34	06:07 20:07	07:46 (FO 04) 20:39	05:35 20:53	05:32 20:35	06:29 19:51	07:03 46	08:12 (FO 04) 18:06	07:38 16:37	07:17 16:42
30	07:28 17:18	06:57 18:32	06:06 18:37	06:06 20:08	08:07 (FO 04) 20:40	05:34 20:53	05:33 20:34	06:30 19:49	07:04 48	08:13 (FO 04) 18:04	07:39 16:36	07:18 16:43
31	07:27 17:19	06:55 18:33	06:05 18:42	06:05 20:09	08:06 (FO 04) 20:41	05:34 20:53	05:33 20:33	06:31 19:47	07:05 48	08:14 (FO 04) 18:03	07:40 16:35	07:19 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	361	343	293
Total, worst case			343	977					471	861		281

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

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

Calculation: Shadow Shadow receptor: N - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (128)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December		
1	07:41 16:45	07:25 17:21	06:47 17:57	06:53 19:35	08:05 (FO 04) 20:09	06:04 20:41	05:33 20:52	05:33 20:32	05:59 20:32	06:33 19:46	07:55 (FO 04) 08:43 (FO 04)	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	08:04 (FO 04) 20:10	06:03 20:42	05:33 20:52	05:34 20:30	06:00 20:30	06:34 19:44	07:55 (FO 04) 08:42 (FO 04)	07:07 18:51	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	08:04 (FO 04) 20:12	06:02 20:43	05:32 20:52	05:34 20:29	06:01 20:29	06:35 19:42	07:55 (FO 04) 08:42 (FO 04)	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	08:03 (FO 04) 20:13	06:00 20:43	05:32 20:52	05:35 20:28	06:02 20:28	06:36 19:41	07:55 (FO 04) 08:42 (FO 04)	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	08:02 (FO 04) 20:14	05:59 20:44	05:31 20:52	05:36 20:27	06:03 20:27	06:37 19:39	07:56 (FO 04) 08:41 (FO 04)	07:10 18:45	06:48 16:58	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	08:00 (FO 04) 20:15	05:58 20:45	05:31 20:51	05:36 20:26	06:04 20:26	06:38 19:37	07:56 (FO 04) 08:40 (FO 04)	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	08:00 (FO 04) 20:16	05:56 20:45	05:31 20:51	05:37 20:24	06:05 20:24	06:39 19:35	07:57 (FO 04) 08:40 (FO 04)	07:12 18:42	06:50 16:55	07:26 16:35
8	07:41 16:51	07:18 17:30	06:35 18:06	06:41 19:43	08:05 (FO 04) 20:17	05:55 20:46	05:30 20:51	05:37 20:23	06:06 20:23	06:40 19:34	07:57 (FO 04) 08:39 (FO 04)	07:13 18:40	06:52 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	07:57 (FO 04) 20:18	05:54 20:47	05:30 20:50	05:38 20:22	06:07 20:22	06:41 19:32	07:57 (FO 04) 08:38 (FO 04)	07:15 18:38	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:09	06:38 19:45	07:57 (FO 04) 20:19	05:53 20:47	05:30 20:50	05:39 20:20	06:09 20:20	06:42 19:30	07:57 (FO 04) 08:37 (FO 04)	07:16 18:37	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	07:56 (FO 04) 20:21	05:52 20:48	05:30 20:49	05:40 20:19	06:10 20:19	06:43 19:28	07:58 (FO 04) 08:37 (FO 04)	07:17 18:35	06:55 16:51	07:30 16:34
12	07:40 16:56	07:12 17:35	06:28 18:11	06:34 19:47	07:55 (FO 04) 20:22	05:50 20:48	05:30 20:49	05:40 20:17	06:11 20:17	06:44 19:26	07:58 (FO 04) 08:35 (FO 04)	07:18 18:33	06:57 16:50	07:31 16:35
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	07:54 (FO 04) 20:23	05:49 20:49	05:30 20:48	05:41 20:16	06:12 20:16	06:46 19:25	07:59 (FO 04) 08:34 (FO 04)	07:19 18:32	06:58 16:48	07:31 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	07:53 (FO 04) 20:24	05:48 20:49	05:29 20:48	05:42 20:15	06:13 20:15	06:47 19:23	08:17 (FO 04) 08:24 (FO 04)	07:20 18:30	06:59 16:48	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	07:52 (FO 04) 20:25	05:47 20:50	05:29 20:47	05:43 20:13	06:14 20:13	06:48 19:21	08:15 (FO 04) 08:28 (FO 04)	07:22 18:28	07:01 16:47	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	07:53 (FO 04) 20:26	05:46 20:50	05:29 20:46	05:44 20:12	06:15 20:12	06:49 19:19	08:13 (FO 04) 08:31 (FO 04)	07:23 18:27	07:02 16:46	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	07:54 (FO 04) 20:27	05:45 20:51	05:29 20:46	05:44 20:10	06:16 20:10	06:50 19:17	08:12 (FO 04) 08:33 (FO 04)	07:24 18:25	07:03 16:45	07:34 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	07:55 (FO 04) 20:28	05:44 20:51	05:29 20:45	05:45 20:09	06:17 20:09	06:51 19:24	08:10 (FO 04) 08:34 (FO 04)	07:25 18:23	07:04 16:44	07:35 16:36
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55	07:56 (FO 04) 20:29	05:43 20:51	05:29 20:44	05:46 20:07	06:18 20:07	06:52 19:28	08:09 (FO 04) 08:37 (FO 04)	07:26 18:22	07:06 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:57	07:57 (FO 04) 20:30	05:42 20:52	05:30 20:43	05:47 20:05	06:19 20:05	06:53 19:25	08:07 (FO 04) 08:38 (FO 04)	07:27 18:20	07:07 16:42	07:36 16:37
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58	07:59 (FO 04) 20:31	05:41 20:52	05:30 20:43	05:48 20:04	06:21 20:04	06:54 19:10	08:06 (FO 04) 08:39 (FO 04)	07:28 18:19	07:08 16:41	07:37 16:37
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	08:00 (FO 04) 20:32	05:40 20:52	05:30 20:42	05:49 20:02	06:22 20:02	06:55 19:08	08:04 (FO 04) 08:40 (FO 04)	07:29 18:17	07:09 16:41	07:37 16:37
23	07:34 17:09	06:56 17:50	06:09 18:24	06:16 20:00	08:02 (FO 04) 20:33	05:39 20:52	05:30 20:41	05:50 20:01	06:23 20:01	06:57 19:07	08:02 (FO 04) 08:40 (FO 04)	07:30 18:16	07:11 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	08:03 (FO 04) 20:34	05:39 20:52	05:31 20:40	05:51 20:09	06:24 19:59	06:58 19:05	08:00 (FO 04) 08:41 (FO 04)	07:31 18:14	07:12 16:39	07:38 16:39
25	07:32 17:11	06:53 17:52	06:06 18:26	06:13 20:02	08:04 (FO 04) 20:35	05:38 20:53	05:31 20:39	05:52 19:57	06:25 19:57	06:59 19:03	07:58 (FO 04) 08:42 (FO 04)	07:32 18:13	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:54	06:04 18:28	06:12 20:03	08:05 (FO 04) 20:36	05:37 20:53	05:31 20:38	05:53 19:56	06:26 19:56	06:53 19:01	07:56 (FO 04) 08:42 (FO 04)	07:33 18:11	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	08:07 (FO 04) 20:37	05:36 20:53	05:32 20:37	05:54 19:54	06:27 19:54	06:54 18:59	07:54 (FO 04) 08:42 (FO 04)	07:34 18:09	07:15 17:10	07:40 16:40
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06	08:09 (FO 04) 20:38	05:36 20:53	05:32 20:36	05:55 19:53	06:28 19:53	06:54 18:58	07:54 (FO 04) 08:43 (FO 04)	07:35 18:08	07:16 16:37	07:40 16:41
29	07:28 17:17	06:48 18:00	06:07 18:31	06:07 20:07	08:08 (FO 04) 20:39	05:35 20:53	05:32 20:35	05:56 19:51	06:29 19:51	06:54 18:56	07:54 (FO 04) 08:43 (FO 04)	07:36 18:07	07:17 16:37	07:40 16:42
30	07:28 17:18	06:47 18:01	06:06 18:32	06:06 20:08	08:07 (FO 04) 20:39	05:34 20:53	05:33 20:34	05:57 19:49	06:30 19:49	06:54 18:54	07:54 (FO 04) 08:43 (FO 04)	07:37 18:04	07:19 16:36	07:40 16:43
31	07:27 17:19	06:46 18:02	06:05 18:33	06:05 20:09	08:06 (FO 04) 20:40	05:34 20:53	05:33 20:33	05:58 19:47	06:31 19:47	06:54 18:54	07:55 (FO 04) 08:43 (FO 04)	07:38 18:04	07:20 16:43	07:41 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	696	343	293	281	
Total, worst case			203	1098				623						

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

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

Calculation: Shadow Shadow receptor: 0 - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (129)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December		
1	07:41 16:45	07:25 17:21	06:47 17:57	06:53 19:35	08:04 (FO 04) 08:39 (FO 04)	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:33 19:46	07:53 (FO 04) 08:40 (FO 04)	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	08:02 (FO 04) 08:39 (FO 04)	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:34 19:44	07:53 (FO 04) 08:40 (FO 04)	07:07 18:51	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	08:02 (FO 04) 08:41 (FO 04)	06:02 20:12	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	07:54 (FO 04) 08:39 (FO 04)	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	08:01 (FO 04) 08:41 (FO 04)	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:41	07:54 (FO 04) 08:39 (FO 04)	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	08:00 (FO 04) 08:41 (FO 04)	05:59 20:14	05:31 20:44	05:36 20:52	06:03 20:27	06:37 19:39	07:54 (FO 04) 08:38 (FO 04)	07:10 18:45	06:48 16:58	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	07:58 (FO 04) 08:41 (FO 04)	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:26	06:38 19:37	07:54 (FO 04) 08:37 (FO 04)	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	07:58 (FO 04) 08:42 (FO 04)	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:55 (FO 04) 08:36 (FO 04)	07:12 18:42	06:50 16:55	07:26 16:35
8	07:41 16:51	07:18 17:30	06:35 18:06	06:41 19:43	07:57 (FO 04) 08:42 (FO 04)	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:34	07:55 (FO 04) 08:35 (FO 04)	07:13 18:40	06:52 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	07:56 (FO 04) 08:41 (FO 04)	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:22	06:41 19:32	07:55 (FO 04) 08:34 (FO 04)	07:15 18:38	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:09	06:38 19:45	07:55 (FO 04) 08:42 (FO 04)	05:53 20:19	05:30 20:47	05:39 20:50	06:09 20:20	06:42 19:30	07:55 (FO 04) 08:33 (FO 04)	07:16 18:37	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	07:54 (FO 04) 08:41 (FO 04)	05:52 20:21	05:30 20:48	05:40 20:49	06:10 20:19	06:43 19:28	07:57 (FO 04) 08:32 (FO 04)	07:17 18:35	06:55 16:51	07:30 16:34
12	07:40 16:56	07:12 17:35	06:28 18:11	06:34 19:47	07:53 (FO 04) 08:40 (FO 04)	05:50 20:22	05:30 20:48	05:40 20:49	06:11 20:17	06:44 19:26	07:57 (FO 04) 08:31 (FO 04)	07:18 18:33	06:57 16:50	07:31 16:35
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	07:52 (FO 04) 08:40 (FO 04)	05:49 20:23	05:30 20:49	05:41 20:48	06:12 20:16	06:46 19:25	07:57 (FO 04) 08:29 (FO 04)	07:19 18:32	06:58 16:48	07:32 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	07:51 (FO 04) 08:39 (FO 04)	05:48 20:24	05:29 20:49	05:42 20:48	06:13 20:15	06:47 19:23	07:58 (FO 04) 08:27 (FO 04)	07:20 18:30	06:59 16:48	07:33 16:35
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	07:51 (FO 04) 08:38 (FO 04)	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	07:58 (FO 04) 08:24 (FO 04)	07:22 18:28	07:01 16:47	07:34 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	07:53 (FO 04) 08:38 (FO 04)	05:46 20:26	05:29 20:50	05:44 20:46	06:15 20:12	06:49 19:19	07:59 (FO 04) 08:20 (FO 04)	07:23 18:27	07:02 16:46	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	07:54 (FO 04) 08:37 (FO 04)	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	08:04 (FO 04) 08:15 (FO 04)	07:24 18:25	07:03 16:45	07:34 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	07:55 (FO 04) 08:37 (FO 04)	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:09	06:51 19:16	08:10 (FO 04) 08:34 (FO 04)	07:25 18:23	07:04 16:44	07:35 16:36
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55	07:56 (FO 04) 08:35 (FO 04)	05:43 20:29	05:30 20:51	05:46 20:44	06:18 20:07	06:52 19:14	08:09 (FO 04) 08:36 (FO 04)	07:26 18:22	07:06 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:57	07:57 (FO 04) 08:34 (FO 04)	05:42 20:30	05:30 20:52	05:47 20:43	06:19 20:05	06:53 19:12	08:07 (FO 04) 08:37 (FO 04)	07:28 18:20	07:07 16:42	07:36 16:37
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58	07:59 (FO 04) 08:33 (FO 04)	05:41 20:31	05:30 20:52	05:48 20:43	06:21 20:04	06:54 19:10	08:06 (FO 04) 08:38 (FO 04)	07:29 18:19	07:08 16:41	07:37 16:37
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	08:00 (FO 04) 08:32 (FO 04)	05:40 20:32	05:30 20:52	05:49 20:42	06:22 20:02	06:55 19:08	08:04 (FO 04) 08:38 (FO 04)	07:30 18:17	07:09 16:41	07:37 16:37
23	07:34 17:09	06:56 17:50	06:09 18:24	06:16 20:00	08:02 (FO 04) 08:31 (FO 04)	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:57 19:07	08:02 (FO 04) 08:39 (FO 04)	07:31 18:16	07:11 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	08:03 (FO 04) 08:29 (FO 04)	05:39 20:34	05:31 20:52	05:51 20:40	06:24 19:59	06:58 19:05	08:00 (FO 04) 08:39 (FO 04)	07:33 18:14	07:12 16:39	07:38 16:39
25	07:32 17:11	06:53 17:52	06:06 18:26	06:13 20:02	08:04 (FO 04) 08:28 (FO 04)	05:38 20:35	05:31 20:53	05:52 20:39	06:25 19:57	06:59 19:03	07:58 (FO 04) 08:40 (FO 04)	07:34 17:13	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:54	06:04 18:28	06:12 20:03	08:05 (FO 04) 08:25 (FO 04)	05:37 20:36	05:31 20:53	05:53 20:38	06:26 19:56	06:53 19:01	07:56 (FO 04) 08:40 (FO 04)	07:30 17:11	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	08:07 (FO 04) 08:24 (FO 04)	05:36 20:37	05:32 20:53	05:54 20:37	06:27 19:54	06:54 18:59	08:37 (FO 04) 08:40 (FO 04)	07:31 17:10	07:15 16:38	07:40 16:40
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06	08:08 (FO 04) 08:22 (FO 04)	05:36 20:38	05:32 20:53	05:55 20:36	06:28 19:53	06:54 18:58	08:40 (FO 04) 07:52 (FO 04)	07:32 17:08	07:16 16:37	07:40 16:41
29	07:28 17:17	06:58 19:31	06:06 18:35	06:07 20:07	08:06 (FO 04) 08:35 (FO 04)	05:35 20:39	05:32 20:53	05:56 20:35	06:29 19:51	06:54 18:56	07:52 (FO 04) 08:40 (FO 04)	07:33 17:07	07:18 16:37	07:40 16:42
30	07:28 17:18	06:57 19:32	06:06 18:37	06:06 20:08	08:06 (FO 04) 08:37 (FO 04)	05:34 20:39	05:33 20:53	05:57 20:34	06:30 19:49	06:54 18:54	07:52 (FO 04) 08:40 (FO 04)	07:34 17:05	07:19 16:36	07:40 16:43
31	07:27 17:19	06:55 19:33	06:05 18:38	06:05 20:09	08:05 (FO 04) 08:38 (FO 04)	05:34 20:40	05:33 20:53	05:58 20:33	06:31 19:47	06:54 18:54	07:53 (FO 04) 08:40 (FO 04)	07:35 17:04	07:20 16:43	07:41 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	316	343	293	281	
Total, worst case			145	1066					613	616				

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

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

Calculation: Shadow Shadow receptor: P - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (130)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:41 16:45	07:25 17:21	06:47 17:57	06:53 19:35	08:04 (FO 04) 08:39 (FO 04)	06:04 20:09
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	08:03 (FO 04) 08:40 (FO 04)	06:03 20:10
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	08:03 (FO 04) 08:41 (FO 04)	06:02 20:12
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	08:01 (FO 04) 08:42 (FO 04)	06:00 20:13
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	08:00 (FO 04) 08:42 (FO 04)	05:59 20:14
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	07:59 (FO 04) 08:42 (FO 04)	05:58 20:15
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	07:59 (FO 04) 08:43 (FO 04)	05:56 20:16
8	07:41 16:51	07:18 17:30	06:35 18:06	06:41 19:43	07:58 (FO 04) 08:42 (FO 04)	05:55 20:17
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	07:57 (FO 04) 08:42 (FO 04)	05:54 20:18
10	07:40 16:53	07:15 17:33	06:32 18:09	06:38 19:45	07:56 (FO 04) 08:42 (FO 04)	05:53 20:19
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	07:55 (FO 04) 08:42 (FO 04)	05:52 20:21
12	07:40 16:56	07:12 17:35	06:28 18:11	06:34 19:47	07:53 (FO 04) 08:41 (FO 04)	05:50 20:22
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	07:53 (FO 04) 08:41 (FO 04)	05:49 20:23
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	07:52 (FO 04) 08:41 (FO 04)	05:48 20:24
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	07:51 (FO 04) 08:40 (FO 04)	05:47 20:25
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	07:53 (FO 04) 08:40 (FO 04)	05:46 20:26
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	07:54 (FO 04) 08:38 (FO 04)	05:45 20:27
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	07:55 (FO 04) 08:38 (FO 04)	05:44 20:28
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55	07:56 (FO 04) 08:37 (FO 04)	05:43 20:29
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:57	07:57 (FO 04) 08:35 (FO 04)	05:42 20:30
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58	07:59 (FO 04) 08:35 (FO 04)	05:41 20:31
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	08:00 (FO 04) 08:33 (FO 04)	05:40 20:32
23	07:34 17:09	06:56 17:50	06:09 18:24	06:16 20:00	08:02 (FO 04) 08:33 (FO 04)	05:39 20:33
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	08:03 (FO 04) 08:31 (FO 04)	05:39 20:34
25	07:32 17:11	06:53 17:52	06:06 18:26	06:13 20:02	08:04 (FO 04) 08:30 (FO 04)	05:38 20:35
26	07:31 17:13	06:52 17:54	06:04 18:28	06:12 20:03	08:05 (FO 04) 08:28 (FO 04)	05:37 20:36
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	08:07 (FO 04) 08:26 (FO 04)	05:36 20:37
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06	08:09 (FO 04) 08:25 (FO 04)	05:36 20:38
29	07:28 17:17		06:58 19:31	06:07 20:07	08:09 (FO 04) 08:22 (FO 04)	05:35 20:39
30	07:28 17:18		06:57 19:32	06:06 20:08	08:07 (FO 04) 08:11 (FO 04)	05:34 20:39
31	07:27 17:19		06:55 19:33	06:06 20:08	08:06 (FO 04) 08:06 (FO 04)	05:34 20:40
Potential sun hours	292	294	369	401	454	459
Total, worst case			133	1102	2	

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

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

Calculation: Shadow Shadow receptor: P - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (130)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December		
1	05:33 20:52	05:59 20:32	06:33 19:46	07:54 (FO 04) 08:41 (FO 04)	07:05 18:52	06:43 17:03	07:20 16:36	
2	05:34 20:52	06:00 20:30	06:34 19:44	07:54 (FO 04) 08:40 (FO 04)	07:07 18:51	06:44 17:01	07:21 16:36	
3	05:34 20:52	06:01 20:29	06:35 19:42	07:55 (FO 04) 08:40 (FO 04)	07:08 18:49	06:45 17:00	07:22 16:35	
4	05:35 20:52	06:02 20:28	06:36 19:41	07:55 (FO 04) 08:39 (FO 04)	07:09 18:47	06:46 16:59	07:23 16:35	
5	05:36 20:52	06:03 20:27	06:37 19:39	07:55 (FO 04) 08:39 (FO 04)	07:10 18:45	06:48 16:58	07:24 16:35	
6	05:36 20:51	06:04 20:26	06:38 19:37	07:55 (FO 04) 08:38 (FO 04)	07:11 18:43	06:49 16:56	07:25 16:35	
7	05:37 20:51	06:05 20:24	06:39 19:35	07:55 (FO 04) 08:37 (FO 04)	07:12 18:42	06:50 16:55	07:26 16:35	
8	05:37 20:51	06:06 20:23	06:40 19:34	07:55 (FO 04) 08:36 (FO 04)	07:13 18:40	06:52 16:54	07:27 16:34	
9	05:38 20:50	06:07 20:22	06:41 19:32	07:56 (FO 04) 08:35 (FO 04)	07:15 18:38	06:53 16:53	07:28 16:34	
10	05:39 20:50	06:09 20:20	06:42 19:30	07:56 (FO 04) 08:33 (FO 04)	07:16 18:37	06:54 16:52	07:29 16:34	
11	05:40 20:49	06:10 20:19	06:43 19:28	07:57 (FO 04) 08:33 (FO 04)	07:17 18:35	06:55 16:51	07:30 16:34	
12	05:40 20:49	06:11 20:17	08:20 (FO 04) 08:24 (FO 04)	06:44 19:26	07:58 (FO 04) 08:31 (FO 04)	07:18 18:33	06:57 16:50	07:31 16:35
13	05:41 20:48	06:12 20:16	08:18 (FO 04) 08:27 (FO 04)	06:46 19:25	07:58 (FO 04) 08:29 (FO 04)	07:19 18:32	06:58 16:48	07:31 16:35
14	05:42 20:48	06:13 20:15	08:17 (FO 04) 08:30 (FO 04)	06:47 19:23	07:58 (FO 04) 08:26 (FO 04)	07:20 18:30	06:59 16:48	07:32 16:35
15	05:43 20:47	06:14 20:13	08:15 (FO 04) 08:32 (FO 04)	06:48 19:21	07:58 (FO 04) 08:24 (FO 04)	07:22 18:28	07:01 16:47	07:33 16:35
16	05:44 20:46	06:15 20:12	08:13 (FO 04) 08:33 (FO 04)	06:49 19:19	08:01 (FO 04) 08:20 (FO 04)	07:23 18:27	07:02 16:46	07:34 16:35
17	05:44 20:46	06:16 20:10	08:12 (FO 04) 08:35 (FO 04)	06:50 19:17	08:07 (FO 04) 08:13 (FO 04)	07:24 18:25	07:03 16:45	07:34 16:35
18	05:45 20:45	06:17 20:09	08:10 (FO 04) 08:36 (FO 04)	06:51 19:16		07:25 18:23	07:04 16:44	07:35 16:36
19	05:46 20:44	06:18 20:07	08:09 (FO 04) 08:38 (FO 04)	06:52 19:14		07:26 18:22	07:06 16:43	07:36 16:36
20	05:47 20:43	06:19 20:05	08:07 (FO 04) 08:39 (FO 04)	06:53 19:12		07:28 18:20	07:07 16:42	07:36 16:37
21	05:48 20:43	06:21 20:04	08:06 (FO 04) 08:39 (FO 04)	06:54 19:10		07:29 18:19	07:08 16:41	07:37 16:37
22	05:49 20:42	06:22 20:02	08:04 (FO 04) 08:40 (FO 04)	06:55 19:08		07:30 18:17	07:09 16:41	07:37 16:37
23	05:50 20:41	06:23 20:01	08:02 (FO 04) 08:40 (FO 04)	06:57 19:07		07:31 18:16	07:11 16:40	07:38 16:38
24	05:51 20:40	06:24 19:59	08:00 (FO 04) 08:41 (FO 04)	06:58 19:05		07:33 18:14	07:12 16:39	07:38 16:39
25	05:52 20:39	06:25 19:57	07:58 (FO 04) 08:41 (FO 04)	06:59 19:03		06:34 17:13	07:13 16:39	07:39 16:39
26	05:53 20:38	06:26 19:56	07:56 (FO 04) 08:41 (FO 04)	07:00 19:01		06:35 17:11	07:14 16:38	07:39 16:40
27	05:54 20:37	06:27 19:54	07:54 (FO 04) 08:41 (FO 04)	07:01 18:59		06:36 17:10	07:15 16:38	07:40 16:40
28	05:55 20:36	06:28 19:53	07:53 (FO 04) 08:41 (FO 04)	07:02 18:58		06:38 17:08	07:16 16:37	07:40 16:41
29	05:56 20:35	06:29 19:51	07:53 (FO 04) 08:41 (FO 04)	07:03 18:56		06:39 17:07	07:18 16:37	07:40 16:42
30	05:57 20:34	06:30 19:49	07:53 (FO 04) 08:41 (FO 04)	07:04 18:54		06:40 17:05	07:19 16:36	07:40 16:43
31	05:58 20:33	06:31 19:47	07:53 (FO 04) 08:41 (FO 04)			06:41 17:04		07:41 16:43
Potential sun hours	465	432	376	343	293	281		
Total, worst case		648	607					

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

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

Calculation: Shadow Shadow receptor: Q - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (131)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March		April		May		June
1	07:41 16:45	07:25 17:21	06:47 17:57		06:53 19:35		08:05 (FO 04) 20:09		08:12 (FO 04) 20:41
2	07:41 16:45	07:24 17:22	06:45 17:59		06:51 19:36	38	08:04 (FO 04) 20:10	3	08:15 (FO 04) 20:42
3	07:41 16:46	07:23 17:23	06:44 18:00		06:50 19:37	39	08:04 (FO 04) 20:12		05:32 20:43
4	07:41 16:47	07:22 17:25	06:42 18:01		06:48 19:38	41	08:03 (FO 04) 20:13		05:32 20:43
5	07:41 16:48	07:21 17:26	06:40 18:02		06:46 19:39	42	08:02 (FO 04) 20:14		05:31 20:44
6	07:41 16:49	07:20 17:27	06:39 18:04		06:44 19:40	43	08:01 (FO 04) 20:15		05:31 20:45
7	07:41 16:50	07:19 17:29	06:37 18:05		06:43 19:41	44	08:01 (FO 04) 20:16		05:31 20:45
8	07:41 16:51	07:18 17:30	06:35 18:06		06:41 19:43	44	08:00 (FO 04) 20:17		05:30 20:46
9	07:40 16:52	07:16 17:31	06:34 18:07		06:39 19:44	45	07:58 (FO 04) 20:18		05:30 20:47
10	07:40 16:53	07:15 17:33	06:32 18:09		06:38 19:45	46	07:57 (FO 04) 20:19		05:30 20:47
11	07:40 16:54	07:14 17:34	06:30 18:10		06:36 19:46	47	07:56 (FO 04) 20:21		05:30 20:48
12	07:40 16:56	07:12 17:35	06:28 18:11		06:34 19:47	48	07:55 (FO 04) 20:22		05:30 20:48
13	07:39 16:57	07:11 17:37	06:27 18:12		06:32 19:48	49	07:55 (FO 04) 20:23		05:30 20:49
14	07:39 16:58	07:10 17:38	06:25 18:13		06:31 19:50	49	07:53 (FO 04) 20:24		05:29 20:49
15	07:38 16:59	07:08 17:39	06:23 18:15		06:29 19:51	50	07:52 (FO 04) 20:25		05:29 20:50
16	07:38 17:00	07:07 17:41	06:21 18:16		06:27 19:52	50	07:53 (FO 04) 20:26		05:29 20:50
17	07:37 17:01	07:05 17:42	06:20 18:17		06:26 19:53	49	07:54 (FO 04) 20:27		05:29 20:51
18	07:37 17:03	07:04 17:43	06:18 18:18		06:24 19:54	47	07:55 (FO 04) 20:28		05:29 20:51
19	07:36 17:04	07:03 17:45	06:16 18:19		06:23 19:55	45	07:56 (FO 04) 20:29		05:30 20:51
20	07:36 17:05	07:01 17:46	06:14 18:20		06:21 19:57	43	07:57 (FO 04) 20:30		05:30 20:52
21	07:35 17:06	07:00 17:47	06:13 18:22		06:19 19:58	41	07:59 (FO 04) 20:31		05:30 20:52
22	07:34 17:08	06:58 17:48	06:11 18:23		06:18 19:59	38	08:00 (FO 04) 20:32		05:30 20:52
23	07:34 17:09	06:56 17:50	06:09 18:24		06:16 20:00	35	08:02 (FO 04) 20:33		05:30 20:52
24	07:33 17:10	06:55 17:51	06:07 18:25		06:15 20:01	33	08:03 (FO 04) 20:34		05:31 20:52
25	07:32 17:11	06:53 17:52	06:06 18:26	07:22 (FO 04)	06:13 20:02	30	08:04 (FO 04) 20:35		05:31 20:53
26	07:31 17:13	06:52 17:54	06:04 18:28	4 07:26 (FO 04) 19 07:33 (FO 04)	06:12 20:03	28	08:32 (FO 04) 20:36		05:31 20:53
27	07:30 17:14	06:50 17:55	06:02 18:29	25 07:36 (FO 04)	06:10 20:05	24	08:29 (FO 04) 20:37		05:32 20:53
28	07:29 17:15	06:49 17:56	06:00 18:30	29 07:38 (FO 04)	06:09 20:06	21	08:07 (FO 04) 20:38		05:32 20:53
29	07:28 17:17		06:58 19:31	29 08:08 (FO 04) 31 08:39 (FO 04)	06:07 20:07	17	08:09 (FO 04) 20:39		05:32 20:53
30	07:28 17:18		06:57 19:32	33 08:41 (FO 04)	06:06 20:08	14	08:23 (FO 04) 20:39		05:33 20:53
31	07:27 17:19		06:55 19:33	35 08:07 (FO 04) 08:42 (FO 04)		10	08:11 (FO 04) 20:40		05:34 20:54
Potential sun hours	292	294	369		401		454		459
Total, worst case			176		1152		3		

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

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

Calculation: Shadow Shadow receptor: Q - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (131)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December		
1	05:33 20:52	05:59 20:32	06:33 19:46	07:55 (FO 04) 08:43 (FO 04)	07:05 18:52	06:43 17:03	07:20 16:36	
2	05:34 20:52	06:00 20:30	06:34 19:44	07:55 (FO 04) 08:43 (FO 04)	07:07 18:51	06:44 17:01	07:21 16:36	
3	05:34 20:52	06:01 20:29	06:35 19:42	07:56 (FO 04) 08:43 (FO 04)	07:08 18:49	06:45 17:00	07:22 16:35	
4	05:35 20:52	06:02 20:28	06:36 19:41	07:57 (FO 04) 08:42 (FO 04)	07:09 18:47	06:46 16:59	07:23 16:35	
5	05:36 20:52	06:03 20:27	06:37 19:39	07:57 (FO 04) 08:41 (FO 04)	07:10 18:45	06:48 16:58	07:24 16:35	
6	05:36 20:51	06:04 20:26	06:38 19:37	07:57 (FO 04) 08:41 (FO 04)	07:11 18:43	06:49 16:56	07:25 16:35	
7	05:37 20:51	06:05 20:24	06:39 19:35	07:57 (FO 04) 08:40 (FO 04)	07:12 18:42	06:50 16:55	07:26 16:35	
8	05:37 20:51	06:06 20:23	06:40 19:34	07:57 (FO 04) 08:39 (FO 04)	07:13 18:40	06:52 16:54	07:27 16:34	
9	05:38 20:50	06:07 20:22	06:41 19:32	07:57 (FO 04) 08:38 (FO 04)	07:15 18:38	06:53 16:53	07:28 16:34	
10	05:39 20:50	06:09 20:20	06:42 19:30	07:57 (FO 04) 08:37 (FO 04)	07:16 18:37	06:54 16:52	07:29 16:34	
11	05:40 20:49	06:10 20:19	06:43 19:28	07:58 (FO 04) 08:36 (FO 04)	07:17 18:35	06:55 16:51	07:30 16:34	
12	05:40 20:49	06:11 20:17	08:20 (FO 04) 08:26 (FO 04)	06:44 19:26	07:59 (FO 04) 08:35 (FO 04)	07:18 18:33	06:57 16:50	07:31 16:35
13	05:41 20:48	06:12 20:16	08:18 (FO 04) 08:29 (FO 04)	06:46 19:25	07:59 (FO 04) 08:33 (FO 04)	07:19 18:32	06:58 16:48	07:31 16:35
14	05:42 20:48	06:13 20:15	08:17 (FO 04) 08:32 (FO 04)	06:47 19:23	07:59 (FO 04) 08:31 (FO 04)	07:20 18:30	06:59 16:48	07:32 16:35
15	05:43 20:47	06:14 20:13	08:15 (FO 04) 08:34 (FO 04)	06:48 19:21	08:00 (FO 04) 08:28 (FO 04)	07:22 18:28	07:01 16:47	07:33 16:35
16	05:44 20:46	06:15 20:12	08:13 (FO 04) 08:35 (FO 04)	06:49 19:19	08:00 (FO 04) 08:26 (FO 04)	07:23 18:27	07:02 16:46	07:34 16:35
17	05:44 20:46	06:16 20:10	08:12 (FO 04) 08:37 (FO 04)	06:50 19:17	08:01 (FO 04) 08:22 (FO 04)	07:24 18:25	07:03 16:45	07:34 16:35
18	05:45 20:45	06:17 20:09	08:10 (FO 04) 08:38 (FO 04)	06:51 19:16	08:06 (FO 04) 08:16 (FO 04)	07:25 18:23	07:04 16:44	07:35 16:36
19	05:46 20:44	06:18 20:07	08:09 (FO 04) 08:40 (FO 04)	06:52 19:14		07:26 18:22	07:06 16:43	07:36 16:36
20	05:47 20:43	06:19 20:05	08:07 (FO 04) 08:41 (FO 04)	06:53 19:12		07:28 18:20	07:07 16:42	07:36 16:37
21	05:48 20:43	06:21 20:04	08:06 (FO 04) 08:41 (FO 04)	06:54 19:10		07:29 18:19	07:08 16:41	07:37 16:37
22	05:49 20:42	06:22 20:02	08:04 (FO 04) 08:42 (FO 04)	06:55 19:08		07:30 18:17	07:09 16:41	07:37 16:37
23	05:50 20:41	06:23 20:01	08:02 (FO 04) 08:43 (FO 04)	06:57 19:07		07:31 18:16	07:11 16:40	07:38 16:38
24	05:51 20:40	06:24 19:59	08:00 (FO 04) 08:43 (FO 04)	06:58 19:05		07:33 18:14	07:12 16:39	07:38 16:39
25	05:52 20:39	06:25 19:57	07:58 (FO 04) 08:43 (FO 04)	06:59 19:03		06:34 17:13	07:13 16:39	07:39 16:39
26	05:53 20:38	06:26 19:56	07:56 (FO 04) 08:44 (FO 04)	07:00 19:01		06:35 17:11	07:14 16:38	07:39 16:40
27	05:54 20:37	06:27 19:54	07:54 (FO 04) 08:44 (FO 04)	07:01 18:59		06:36 17:10	07:15 16:38	07:40 16:40
28	05:55 20:36	06:28 19:53	07:54 (FO 04) 08:44 (FO 04)	07:02 18:58		06:38 17:08	07:16 16:37	07:40 16:41
29	05:56 20:35	06:29 19:51	07:54 (FO 04) 08:44 (FO 04)	07:03 18:56		06:39 17:07	07:18 16:37	07:40 16:42
30	05:57 20:34	06:30 19:49	07:55 (FO 04) 08:44 (FO 04)	07:04 18:54		06:40 17:05	07:19 16:36	07:40 16:43
31	05:58 20:33	06:31 19:47	07:55 (FO 04) 08:44 (FO 04)			06:41 17:04		07:41 16:43
Potential sun hours	465	432	376	343	293	281		
Total, worst case		689	667					

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

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

Calculation: Shadow Shadow receptor: R - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (132)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:41	07:25	06:47	06:53	08:06 (FO 04)	06:04
	16:45	17:21	17:57	19:35	38 08:44 (FO 04)	20:09
2	07:41	07:24	06:45	06:51	08:05 (FO 04)	06:03
	16:45	17:22	17:59	19:36	40 08:45 (FO 04)	20:10
3	07:41	07:23	06:44	06:50	08:05 (FO 04)	06:02
	16:46	17:23	18:00	19:37	41 08:46 (FO 04)	20:12
4	07:41	07:22	06:42	06:48	08:04 (FO 04)	06:00
	16:47	17:25	18:01	19:38	42 08:46 (FO 04)	20:13
5	07:41	07:21	06:40	06:46	08:03 (FO 04)	05:59
	16:48	17:26	18:02	19:39	43 08:46 (FO 04)	20:14
6	07:41	07:20	06:39	06:44	08:02 (FO 04)	05:58
	16:49	17:27	18:04	19:40	44 08:46 (FO 04)	20:15
7	07:41	07:19	06:37	06:43	08:02 (FO 04)	05:56
	16:50	17:29	18:05	19:41	45 08:47 (FO 04)	20:16
8	07:41	07:18	06:35	06:41	08:01 (FO 04)	05:55
	16:51	17:30	18:06	19:43	46 08:47 (FO 04)	20:17
9	07:40	07:16	06:34	06:39	08:00 (FO 04)	05:54
	16:52	17:31	18:07	19:44	47 08:47 (FO 04)	20:18
10	07:40	07:15	06:32	06:38	08:00 (FO 04)	05:53
	16:53	17:33	18:09	19:45	47 08:47 (FO 04)	20:19
11	07:40	07:14	06:30	06:36	07:58 (FO 04)	05:52
	16:54	17:34	18:10	19:46	49 08:47 (FO 04)	20:21
12	07:40	07:12	06:28	06:34	07:56 (FO 04)	05:50
	16:56	17:35	18:11	19:47	50 08:46 (FO 04)	20:22
13	07:39	07:11	06:27	06:32	07:56 (FO 04)	05:49
	16:57	17:37	18:12	19:48	50 08:46 (FO 04)	20:23
14	07:39	07:10	06:25	06:31	07:54 (FO 04)	05:48
	16:58	17:38	18:13	19:50	51 08:45 (FO 04)	20:24
15	07:38	07:08	06:23	06:29	07:53 (FO 04)	05:47
	16:59	17:39	18:15	19:51	51 08:44 (FO 04)	20:25
16	07:38	07:07	06:21	06:27	07:53 (FO 04)	05:46
	17:00	17:41	18:16	19:52	51 08:44 (FO 04)	20:26
17	07:37	07:05	06:20	06:26	07:54 (FO 04)	05:45
	17:01	17:42	18:17	19:53	49 08:43 (FO 04)	20:27
18	07:37	07:04	06:18	06:24	07:55 (FO 04)	05:44
	17:03	17:43	18:18	19:54	48 08:43 (FO 04)	20:28
19	07:36	07:03	06:16	06:23	07:56 (FO 04)	05:43
	17:04	17:45	18:19	19:55	46 08:42 (FO 04)	20:29
20	07:36	07:01	06:14	06:21	07:57 (FO 04)	05:42
	17:05	17:46	18:20	19:57	43 08:40 (FO 04)	20:30
21	07:35	07:00	06:13	06:19	07:59 (FO 04)	05:41
	17:06	17:47	18:22	19:58	41 08:40 (FO 04)	20:31
22	07:34	06:58	06:11	06:18	08:00 (FO 04)	05:40
	17:08	17:48	18:23	19:59	39 08:39 (FO 04)	20:32
23	07:34	06:56	06:09	06:16	08:02 (FO 04)	05:39
	17:09	17:50	18:24	20:00	36 08:38 (FO 04)	20:33
24	07:33	06:55	06:07	06:15	08:03 (FO 04)	05:39
	17:10	17:51	18:25	20:01	33 08:36 (FO 04)	20:34
25	07:32	06:53	06:06	06:13	08:04 (FO 04)	05:38
	17:11	17:52	18:26	20:02	31 08:35 (FO 04)	20:35
26	07:31	06:52	06:04	06:12	08:05 (FO 04)	05:37
	17:13	17:54	18:28	18 07:33 (FO 04)	20:03	28 08:33 (FO 04)
27	07:30	06:50	06:02	06:10	08:07 (FO 04)	05:36
	17:14	17:55	18:29	25 07:37 (FO 04)	20:05	25 08:32 (FO 04)
28	07:29	06:49	06:00	06:09	08:09 (FO 04)	05:36
	17:15	17:56	18:30	28 07:39 (FO 04)	20:06	22 08:31 (FO 04)
29	07:28		06:58	08:09 (FO 04)	06:07	08:09 (FO 04)
	17:17		19:31	31 08:40 (FO 04)	20:07	20 08:29 (FO 04)
30	07:28		06:57	08:09 (FO 04)	06:06	08:11 (FO 04)
	17:18		19:32	34 08:43 (FO 04)	20:08	16 08:27 (FO 04)
31	07:27		06:55	08:08 (FO 04)		05:34
	17:19		19:33	36 08:44 (FO 04)		20:40
Potential sun hours	292	294	369	401	454	459
Total, worst case			172	1212	21	

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

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

Calculation: Shadow Shadow receptor: R - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (132)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December	
1	05:33 20:52	05:59 20:32	06:33 19:46	07:57 (FO 04) 08:46 (FO 04)	07:05 18:52	06:43 17:03	07:20 16:36
2	05:34 20:52	06:00 20:30	06:34 19:44	07:58 (FO 04) 08:45 (FO 04)	07:07 18:51	06:44 17:01	07:21 16:36
3	05:34 20:52	06:01 20:29	06:35 19:42	07:58 (FO 04) 08:45 (FO 04)	07:08 18:49	06:45 17:00	07:22 16:35
4	05:35 20:52	06:02 20:28	06:36 19:41	07:58 (FO 04) 08:44 (FO 04)	07:09 18:47	06:46 16:59	07:23 16:35
5	05:36 20:52	06:03 20:27	06:37 19:39	07:58 (FO 04) 08:43 (FO 04)	07:10 18:45	06:48 16:58	07:24 16:35
6	05:36 20:51	06:04 20:26	06:38 19:37	07:58 (FO 04) 08:43 (FO 04)	07:11 18:43	06:49 16:56	07:25 16:35
7	05:37 20:51	06:05 20:24	06:39 19:35	07:58 (FO 04) 08:42 (FO 04)	07:12 18:42	06:50 16:55	07:26 16:35
8	05:37 20:51	06:06 20:23	06:40 19:34	07:59 (FO 04) 08:41 (FO 04)	07:13 18:40	06:52 16:54	07:27 16:34
9	05:38 20:50	06:07 20:22	06:41 19:32	07:58 (FO 04) 08:39 (FO 04)	07:15 18:38	06:53 16:53	07:28 16:34
10	05:39 20:50	06:09 20:20	06:42 19:30	07:58 (FO 04) 08:38 (FO 04)	07:16 18:37	06:54 16:52	07:29 16:34
11	05:40 20:49	06:10 20:19	06:43 19:28	08:00 (FO 04) 08:38 (FO 04)	07:17 18:35	06:55 16:51	07:30 16:34
12	05:40 20:49	06:11 20:17	06:44 19:26	08:00 (FO 04) 08:36 (FO 04)	07:18 18:33	06:57 16:50	07:31 16:35
13	05:41 20:48	06:12 20:16	06:46 19:25	08:00 (FO 04) 08:34 (FO 04)	07:19 18:32	06:58 16:48	07:31 16:35
14	05:42 20:48	06:13 20:15	06:47 19:23	08:00 (FO 04) 08:32 (FO 04)	07:20 18:30	06:59 16:47	07:32 16:35
15	05:43 20:47	06:14 20:13	06:48 19:21	08:01 (FO 04) 08:29 (FO 04)	07:22 18:28	07:01 16:47	07:33 16:35
16	05:44 20:46	06:15 20:12	06:49 19:19	08:01 (FO 04) 08:26 (FO 04)	07:23 18:27	07:02 16:46	07:34 16:35
17	05:44 20:46	06:16 20:10	06:50 19:17	08:03 (FO 04) 08:22 (FO 04)	07:24 18:25	07:03 16:45	07:34 16:35
18	05:45 20:45	06:17 20:09	06:51 19:16	08:10 (FO 04) 08:15 (FO 04)	07:25 18:23	07:04 16:44	07:35 16:36
19	05:46 20:44	06:18 20:07	06:52 19:14	08:09 (FO 04) 08:43 (FO 04)	07:26 18:22	07:06 16:43	07:36 16:36
20	05:47 20:43	06:19 20:05	06:53 19:12	08:07 (FO 04) 08:44 (FO 04)	07:28 18:20	07:07 16:42	07:36 16:37
21	05:48 20:43	06:21 20:04	06:54 19:10	08:06 (FO 04) 08:44 (FO 04)	07:29 18:19	07:08 16:41	07:37 16:37
22	05:49 20:42	06:22 20:02	06:55 19:08	08:04 (FO 04) 08:45 (FO 04)	07:30 18:17	07:09 16:41	07:37 16:37
23	05:50 20:41	06:23 20:01	06:57 19:07	08:02 (FO 04) 08:45 (FO 04)	07:31 18:16	07:11 16:40	07:38 16:38
24	05:51 20:40	06:24 19:59	06:58 19:05	08:00 (FO 04) 08:46 (FO 04)	07:33 18:14	07:12 16:39	07:38 16:39
25	05:52 20:39	06:25 19:57	06:59 19:03	07:58 (FO 04) 08:46 (FO 04)	06:34 17:13	07:13 16:39	07:39 16:39
26	05:53 20:38	06:26 19:56	07:00 19:01	07:56 (FO 04) 08:46 (FO 04)	06:35 17:11	07:14 16:38	07:39 16:40
27	05:54 20:37	06:27 19:54	07:01 18:59	07:55 (FO 04) 08:46 (FO 04)	06:36 17:10	07:15 16:38	07:40 16:40
28	05:55 20:36	06:28 19:53	07:02 18:58	07:55 (FO 04) 08:46 (FO 04)	06:38 17:08	07:16 16:37	07:40 16:41
29	05:56 20:35	06:29 19:51	07:03 18:56	07:55 (FO 04) 08:46 (FO 04)	06:39 17:07	07:18 16:37	07:40 16:42
30	05:57 20:34	06:30 19:49	07:04 18:54	07:56 (FO 04) 08:46 (FO 04)	06:40 17:05	07:19 16:36	07:40 16:43
31	05:58 20:33	06:31 19:47	07:05 18:52	07:56 (FO 04) 08:46 (FO 04)	06:41 17:04	07:20 16:35	07:41 16:43
Potential sun hours	465	432	376	343	293	281	
Total, worst case		762	664				

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

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

Calculation: Shadow Shadow receptor: S - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (133)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April		May		June
1	07:41 16:45	07:25 17:21	06:47 17:57	06:53 19:35		06:04 20:09		05:33 20:41
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36		06:03 20:10	26	05:33 20:42
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37		06:02 20:12	24	05:32 20:43
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38		06:00 20:13	23	05:32 20:43
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	17	08:09 (FO 04) 08:26 (FO 04)	20	05:31 20:44
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	23	08:06 (FO 04) 08:29 (FO 04)	19	05:31 20:45
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	27	08:06 (FO 04) 08:33 (FO 04)	16	05:31 20:45
8	07:41 16:51	07:18 17:30	06:35 18:06	06:41 19:43	29	08:05 (FO 04) 08:34 (FO 04)	15	05:30 20:46
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	33	08:03 (FO 04) 08:36 (FO 04)	12	05:30 20:47
10	07:40 16:53	07:15 17:33	06:32 18:09	06:38 19:45	35	08:03 (FO 04) 08:38 (FO 04)	10	05:30 20:47
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	37	08:02 (FO 04) 08:39 (FO 04)	8	05:30 20:48
12	07:39 16:56	07:12 17:35	06:28 18:11	06:34 19:47	41	08:01 (FO 04) 08:39 (FO 04)	6	05:30 20:48
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	42	08:00 (FO 04) 08:41 (FO 04)	4	05:30 20:49
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	43	07:59 (FO 04) 08:41 (FO 04)	1	05:29 20:49
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	44	07:58 (FO 04) 08:41 (FO 04)		05:29 20:50
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	45	07:57 (FO 04) 08:42 (FO 04)		05:29 20:50
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	46	07:56 (FO 04) 08:42 (FO 04)		05:29 20:51
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	47	07:56 (FO 04) 08:43 (FO 04)		05:29 20:51
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55	48	07:56 (FO 04) 08:42 (FO 04)		05:30 20:51
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:57	49	07:57 (FO 04) 08:42 (FO 04)		05:30 20:52
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58	50	07:59 (FO 04) 08:42 (FO 04)		05:30 20:52
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	51	08:00 (FO 04) 08:42 (FO 04)		05:30 20:52
23	07:34 17:09	06:56 17:50	06:09 18:24	06:16 20:00	52	08:02 (FO 04) 08:42 (FO 04)		05:30 20:52
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	53	08:03 (FO 04) 08:41 (FO 04)		05:31 20:52
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	54	08:04 (FO 04) 08:42 (FO 04)		05:31 20:53
26	07:31 17:13	06:52 17:54	06:04 18:28	06:12 20:03	55	08:05 (FO 04) 08:41 (FO 04)		05:31 20:53
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	56	08:07 (FO 04) 08:41 (FO 04)		05:32 20:53
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06	57	08:09 (FO 04) 08:41 (FO 04)		05:32 20:53
29	07:28 17:17		06:58 19:31	06:07 20:07	58	08:09 (FO 04) 08:40 (FO 04)		05:32 20:53
30	07:28 17:18		06:57 19:32	06:06 20:08	59	08:11 (FO 04) 08:39 (FO 04)		05:33 20:53
31	07:27 17:19		06:55 19:33		60	05:34 20:40		
Potential sun hours	292	294	369	401		454		459
Total, worst case				956			184	

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

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

Calculation: Shadow Shadow receptor: S - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (133)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December		
1	05:33 20:52	05:59 20:32	08:36 (FO 04) 08:41 (FO 04)	06:33 19:46	08:01 (FO 04) 08:38 (FO 04)	07:05 18:52	06:43 17:03	07:20 16:36
2	05:34 20:52	06:00 20:30	08:35 (FO 04) 08:42 (FO 04)	06:34 19:44	08:01 (FO 04) 08:36 (FO 04)	07:07 18:51	06:44 17:01	07:21 16:36
3	05:34 20:52	06:01 20:29	08:34 (FO 04) 08:42 (FO 04)	06:35 19:42	08:01 (FO 04) 08:34 (FO 04)	07:08 18:49	06:45 17:00	07:22 16:35
4	05:35 20:52	06:02 20:28	08:32 (FO 04) 08:43 (FO 04)	06:36 19:41	08:02 (FO 04) 08:31 (FO 04)	07:09 18:47	06:46 16:59	07:23 16:35
5	05:36 20:52	06:03 20:27	08:31 (FO 04) 08:44 (FO 04)	06:37 19:39	08:02 (FO 04) 08:29 (FO 04)	07:10 18:45	06:48 16:58	07:24 16:35
6	05:36 20:51	06:04 20:26	08:29 (FO 04) 08:45 (FO 04)	06:38 19:37	08:02 (FO 04) 08:25 (FO 04)	07:11 18:43	06:49 16:56	07:25 16:35
7	05:37 20:51	06:05 20:24	08:28 (FO 04) 08:45 (FO 04)	06:39 19:35	08:04 (FO 04) 08:21 (FO 04)	07:12 18:42	06:50 16:55	07:26 16:35
8	05:37 20:51	06:06 20:23	08:26 (FO 04) 08:46 (FO 04)	06:40 19:34		07:13 18:40	06:52 16:54	07:27 16:34
9	05:38 20:50	06:07 20:22	08:25 (FO 04) 08:46 (FO 04)	06:41 19:32		07:15 18:38	06:53 16:53	07:28 16:34
10	05:39 20:50	06:09 20:20	08:23 (FO 04) 08:46 (FO 04)	06:42 19:30		07:16 18:37	06:54 16:52	07:29 16:34
11	05:40 20:49	06:10 20:19	08:22 (FO 04) 08:47 (FO 04)	06:43 19:28		07:17 18:35	06:55 16:51	07:30 16:34
12	05:40 20:49	06:11 20:17	08:20 (FO 04) 08:47 (FO 04)	06:44 19:26		07:18 18:33	06:57 16:50	07:31 16:35
13	05:41 20:48	06:12 20:16	08:18 (FO 04) 08:47 (FO 04)	06:46 19:25		07:19 18:32	06:58 16:48	07:31 16:35
14	05:42 20:48	06:13 20:15	08:17 (FO 04) 08:47 (FO 04)	06:47 19:23		07:20 18:30	06:59 16:47	07:32 16:35
15	05:43 20:47	06:14 20:13	08:15 (FO 04) 08:47 (FO 04)	06:48 19:21		07:22 18:28	07:01 16:47	07:33 16:35
16	05:44 20:46	06:15 20:12	08:13 (FO 04) 08:47 (FO 04)	06:49 19:19		07:23 18:27	07:02 16:46	07:34 16:35
17	05:44 20:46	06:16 20:10	08:12 (FO 04) 08:47 (FO 04)	06:50 19:17		07:24 18:25	07:03 16:45	07:34 16:35
18	05:45 20:45	06:17 20:09	08:10 (FO 04) 08:47 (FO 04)	06:51 19:16		07:25 18:23	07:04 16:44	07:35 16:36
19	05:46 20:44	06:18 20:07	08:09 (FO 04) 08:48 (FO 04)	06:52 19:14		07:26 18:22	07:06 16:43	07:36 16:36
20	05:47 20:43	06:19 20:05	08:07 (FO 04) 08:48 (FO 04)	06:53 19:12		07:28 18:20	07:07 16:42	07:36 16:37
21	05:48 20:43	06:21 20:04	08:06 (FO 04) 08:48 (FO 04)	06:54 19:10		07:29 18:19	07:08 16:41	07:37 16:37
22	05:49 20:42	06:22 20:02	08:04 (FO 04) 08:47 (FO 04)	06:55 19:08		07:30 18:17	07:09 16:41	07:37 16:37
23	05:50 20:41	06:23 20:01	08:02 (FO 04) 08:47 (FO 04)	06:57 19:07		07:31 18:16	07:11 16:40	07:38 16:38
24	05:51 20:40	06:24 19:59	08:00 (FO 04) 08:46 (FO 04)	06:58 19:05		07:33 18:14	07:12 16:39	07:38 16:39
25	05:52 20:39	06:25 19:57	07:59 (FO 04) 08:45 (FO 04)	06:59 19:03		06:34 17:13	07:13 16:39	07:39 16:39
26	05:53 20:38	06:26 19:56	07:59 (FO 04) 08:45 (FO 04)	07:00 19:01		06:35 17:11	07:14 16:38	07:39 16:40
27	05:54 20:37	06:27 19:54	07:59 (FO 04) 08:44 (FO 04)	07:01 18:59		06:36 17:10	07:15 16:38	07:40 16:40
28	05:55 20:36	06:28 19:53	08:00 (FO 04) 08:43 (FO 04)	07:02 18:58		06:38 17:08	07:16 16:37	07:40 16:41
29	05:56 20:35	06:29 19:51	08:00 (FO 04) 08:42 (FO 04)	07:03 18:56		06:39 17:07	07:18 16:37	07:40 16:42
30	05:57 20:34	06:30 19:49	08:00 (FO 04) 08:40 (FO 04)	07:04 18:54		06:40 17:05	07:19 16:36	07:40 16:43
31	05:58 20:33	08:38 (FO 04) 08:40 (FO 04)	06:31 19:47	08:01 (FO 04) 08:39 (FO 04)		06:41 17:04		07:41 16:43
Potential sun hours	465	432	376	343	293	281		
Total, worst case	2	946	201					

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

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

Calculation: Shadow Shadow receptor: T - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (134)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April		May		June
1	07:41 16:45	07:25 17:21	06:47 17:57	06:53 19:35		06:04 20:09		05:33 20:41
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36		06:03 20:10	28	05:33 20:42
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37		06:02 20:12	25	05:32 20:43
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38		06:00 20:13	24	05:32 20:43
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39		05:59 20:14	22	05:31 20:44
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	15	08:09 (FO 04) 08:24 (FO 04)	21	05:31 20:45
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	22	08:07 (FO 04) 08:29 (FO 04)	18	05:31 20:45
8	07:41 16:51	07:18 17:30	06:35 18:06	06:41 19:43	27	08:05 (FO 04) 08:32 (FO 04)	17	05:30 20:46
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	30	08:04 (FO 04) 08:34 (FO 04)	14	05:30 20:47
10	07:40 16:53	07:15 17:33	06:32 18:09	06:38 19:45	32	08:04 (FO 04) 08:36 (FO 04)	13	05:30 20:47
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	34	08:03 (FO 04) 08:37 (FO 04)	10	05:30 20:48
12	07:40 16:56	07:12 17:35	06:28 18:11	06:34 19:47	36	08:02 (FO 04) 08:38 (FO 04)	8	05:30 20:48
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	38	08:02 (FO 04) 08:40 (FO 04)	7	05:30 20:49
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	40	08:00 (FO 04) 07:59 (FO 04)	4	05:29 20:49
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	41	08:40 (FO 04) 07:59 (FO 04)	2	05:29 20:50
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	43	07:59 (FO 04) 08:42 (FO 04)		05:29 20:50
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	45	07:57 (FO 04) 08:42 (FO 04)		05:29 20:51
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	46	07:57 (FO 04) 08:43 (FO 04)		05:29 20:51
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55	46	07:56 (FO 04) 08:42 (FO 04)		05:30 20:51
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:57	45	07:57 (FO 04) 08:42 (FO 04)		05:30 20:52
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58	44	07:59 (FO 04) 08:43 (FO 04)		05:30 20:52
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	42	08:00 (FO 04) 08:42 (FO 04)		05:30 20:52
23	07:34 17:09	06:56 17:50	06:09 18:24	06:16 20:00	41	08:02 (FO 04) 08:43 (FO 04)		05:30 20:52
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	39	08:03 (FO 04) 08:42 (FO 04)		05:31 20:52
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	38	08:04 (FO 04) 08:42 (FO 04)		05:31 20:53
26	07:31 17:13	06:52 17:54	06:04 18:28	06:12 20:03	36	08:05 (FO 04) 08:41 (FO 04)		05:31 20:53
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	35	08:07 (FO 04) 08:42 (FO 04)		05:32 20:53
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06	33	08:09 (FO 04) 08:42 (FO 04)		05:32 20:53
29	07:28 17:17		06:58 19:31	06:07 20:07	32	08:09 (FO 04) 08:41 (FO 04)		05:32 20:53
30	07:28 17:18		06:57 19:32	06:06 20:08	30	08:11 (FO 04) 08:41 (FO 04)		05:33 20:53
31	07:27 17:19		06:55 19:33			05:34 20:40		
Potential sun hours	292	294	369	401		454		459
Total, worst case				910		213		

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

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

Calculation: Shadow Shadow receptor: T - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (134)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December		
1	05:33 20:52	05:59 20:32	08:36 (FO 04) 08:43 (FO 04)	06:33 19:46	08:02 (FO 04) 08:36 (FO 04)	07:05 18:52	06:43 17:03	07:20 16:36
2	05:34 20:52	06:00 20:30	08:35 (FO 04) 08:44 (FO 04)	06:34 19:44	08:02 (FO 04) 08:34 (FO 04)	07:07 18:51	06:44 17:01	07:21 16:36
3	05:34 20:52	06:01 20:29	08:34 (FO 04) 08:45 (FO 04)	06:35 19:42	08:02 (FO 04) 08:32 (FO 04)	07:08 18:49	06:45 17:00	07:22 16:35
4	05:35 20:52	06:02 20:28	08:32 (FO 04) 08:45 (FO 04)	06:36 19:41	08:02 (FO 04) 08:29 (FO 04)	07:09 18:47	06:46 16:59	07:23 16:35
5	05:36 20:52	06:03 20:27	08:31 (FO 04) 08:46 (FO 04)	06:37 19:39	08:03 (FO 04) 08:25 (FO 04)	07:10 18:45	06:48 16:58	07:24 16:35
6	05:36 20:51	06:04 20:26	08:29 (FO 04) 08:47 (FO 04)	06:38 19:37	08:05 (FO 04) 08:20 (FO 04)	07:11 18:43	06:49 16:56	07:25 16:35
7	05:37 20:51	06:05 20:24	08:28 (FO 04) 08:47 (FO 04)	06:39 19:35		07:12 18:42	06:50 16:55	07:26 16:35
8	05:37 20:51	06:06 20:23	08:26 (FO 04) 08:47 (FO 04)	06:40 19:34		07:13 18:40	06:52 16:54	07:27 16:34
9	05:38 20:50	06:07 20:22	08:25 (FO 04) 08:48 (FO 04)	06:41 19:32		07:15 18:38	06:53 16:53	07:28 16:34
10	05:39 20:50	06:09 20:20	08:23 (FO 04) 08:48 (FO 04)	06:42 19:30		07:16 18:37	06:54 16:52	07:29 16:34
11	05:40 20:49	06:10 20:19	08:22 (FO 04) 08:48 (FO 04)	06:43 19:28		07:17 18:35	06:55 16:51	07:30 16:34
12	05:40 20:49	06:11 20:17	08:20 (FO 04) 08:48 (FO 04)	06:44 19:26		07:18 18:33	06:57 16:50	07:31 16:35
13	05:41 20:48	06:12 20:16	08:18 (FO 04) 08:48 (FO 04)	06:46 19:25		07:19 18:32	06:58 16:48	07:31 16:35
14	05:42 20:48	06:13 20:15	08:17 (FO 04) 08:48 (FO 04)	06:47 19:23		07:20 18:30	06:59 16:47	07:32 16:35
15	05:43 20:47	06:14 20:13	08:15 (FO 04) 08:48 (FO 04)	06:48 19:21		07:22 18:28	07:01 16:47	07:33 16:35
16	05:44 20:46	06:15 20:12	08:13 (FO 04) 08:48 (FO 04)	06:49 19:19		07:23 18:27	07:02 16:46	07:34 16:35
17	05:44 20:46	06:16 20:10	08:12 (FO 04) 08:48 (FO 04)	06:50 19:17		07:24 18:25	07:03 16:45	07:34 16:35
18	05:45 20:45	06:17 20:09	08:10 (FO 04) 08:48 (FO 04)	06:51 19:16		07:25 18:23	07:04 16:44	07:35 16:36
19	05:46 20:44	06:18 20:07	08:09 (FO 04) 08:49 (FO 04)	06:52 19:14		07:26 18:22	07:06 16:43	07:36 16:36
20	05:47 20:43	06:19 20:05	08:07 (FO 04) 08:48 (FO 04)	06:53 19:12		07:28 18:20	07:07 16:42	07:36 16:37
21	05:48 20:43	06:21 20:04	08:06 (FO 04) 08:48 (FO 04)	06:54 19:10		07:29 18:19	07:08 16:41	07:37 16:37
22	05:49 20:42	06:22 20:02	08:04 (FO 04) 08:47 (FO 04)	06:55 19:08		07:30 18:17	07:09 16:41	07:37 16:37
23	05:50 20:41	06:23 20:01	08:02 (FO 04) 08:47 (FO 04)	06:57 19:07		07:31 18:16	07:11 16:40	07:38 16:38
24	05:51 20:40	06:24 19:59	08:00 (FO 04) 08:46 (FO 04)	06:58 19:05		07:33 18:14	07:12 16:39	07:38 16:39
25	05:52 20:39	06:25 19:57	08:00 (FO 04) 08:45 (FO 04)	06:59 19:03		06:34 17:13	07:13 16:39	07:39 16:39
26	05:53 20:38	06:26 19:56	08:00 (FO 04) 08:44 (FO 04)	07:00 19:01		06:35 17:11	07:14 16:38	07:39 16:40
27	05:54 20:37	06:27 19:54	08:01 (FO 04) 08:43 (FO 04)	07:01 18:59		06:36 17:10	07:15 16:38	07:40 16:40
28	05:55 20:36	06:28 19:53	08:01 (FO 04) 08:42 (FO 04)	07:02 18:58		06:38 17:08	07:16 16:37	07:40 16:41
29	05:56 20:35	06:29 19:51	08:01 (FO 04) 08:41 (FO 04)	07:03 18:56		06:39 17:07	07:18 16:37	07:40 16:42
30	05:57 20:34	08:39 (FO 04) 08:42 (FO 04)	06:30 19:49	07:04 18:54		06:40 17:05	07:19 16:36	07:40 16:43
31	05:58 20:33	08:38 (FO 04) 08:43 (FO 04)	06:31 19:47	07:04 18:54		06:41 17:04		07:41 16:43
Potential sun hours	465	432	376	343	293	281		
Total, worst case	9	961	160					

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

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

Calculation: Shadow Shadow receptor: U - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (135)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:41 16:45	07:25 17:21	06:47 17:57	06:53 19:35	26 08:14 (FO 04) 20:09	29 08:12 (FO 04) 20:41
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	29 08:13 (FO 04) 20:10	26 08:14 (FO 04) 20:42
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	32 08:12 (FO 04) 20:12	25 08:15 (FO 04) 20:43
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	34 08:11 (FO 04) 20:13	22 08:17 (FO 04) 20:43
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	36 08:10 (FO 04) 20:14	20 08:19 (FO 04) 20:44
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	38 08:09 (FO 04) 20:15	17 08:36 (FO 04) 20:45
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	40 08:08 (FO 04) 20:16	15 08:20 (FO 04) 20:45
8	07:41 16:51	07:18 17:30	06:35 18:06	06:41 19:43	42 08:07 (FO 04) 20:17	12 08:22 (FO 04) 20:46
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	43 08:06 (FO 04) 20:18	10 08:24 (FO 04) 20:47
10	07:40 16:53	07:15 17:33	06:32 18:09	06:38 19:45	44 08:06 (FO 04) 20:19	6 08:25 (FO 04) 20:47
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	45 08:05 (FO 04) 20:21	4 08:29 (FO 04) 20:48
12	07:40 16:56	07:12 17:35	06:28 18:11	06:34 19:47	46 08:04 (FO 04) 20:22	1 08:26 (FO 04) 20:48
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	47 08:04 (FO 04) 20:23	05:30 20:49
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	47 08:03 (FO 04) 20:24	05:29 20:49
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	48 08:02 (FO 04) 20:25	05:29 20:50
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	48 08:02 (FO 04) 20:26	05:29 20:50
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	49 08:01 (FO 04) 20:27	05:29 20:51
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	49 08:01 (FO 04) 20:28	05:29 20:51
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55	49 08:00 (FO 04) 20:29	05:30 20:51
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:57	50 07:59 (FO 04) 20:30	05:30 20:52
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58	50 07:59 (FO 04) 20:31	05:30 20:52
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	48 08:00 (FO 04) 20:32	05:30 20:52
23	07:34 17:09	06:56 17:50	06:09 18:24	06:16 20:00	46 08:02 (FO 04) 20:33	05:30 20:52
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	44 08:03 (FO 04) 20:34	05:31 20:52
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	42 08:04 (FO 04) 20:35	05:31 20:53
26	07:31 17:13	06:52 17:54	06:04 18:28	06:12 20:03	40 08:05 (FO 04) 20:36	05:31 20:53
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	38 08:07 (FO 04) 20:37	05:32 20:53
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06	36 08:09 (FO 04) 20:38	05:32 20:53
29	07:28 17:17		06:58 19:31	06:07 20:07	34 08:09 (FO 04) 20:39	05:32 20:53
30	07:28 17:18		06:57 19:32	06:06 20:08	32 08:11 (FO 04) 20:39	05:33 20:53
31	07:27 17:19		06:55 19:33	06:05 20:09		05:34 20:40
Potential sun hours	292	294	369	401	454	459
Total, worst case			38	1252	187	

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

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

Calculation: Shadow Shadow receptor: U - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (135)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September		October	November	December	
1	05:33 20:52	05:59 20:32	2	08:36 (FO 04) 19:46	45	08:04 (FO 04) 18:52	06:43 17:03	07:20 16:36
2	05:34 20:52	06:00 20:30	5	08:35 (FO 04) 19:44	44	08:04 (FO 04) 18:51	06:44 17:01	07:21 16:36
3	05:34 20:52	06:01 20:29	7	08:34 (FO 04) 19:42	43	08:04 (FO 04) 18:49	06:45 17:00	07:22 16:35
4	05:35 20:52	06:02 20:28	11	08:32 (FO 04) 19:41	42	08:04 (FO 04) 18:47	06:46 16:59	07:23 16:35
5	05:35 20:52	06:03 20:27	13	08:31 (FO 04) 19:39	41	08:04 (FO 04) 18:45	06:48 16:58	07:24 16:35
6	05:36 20:51	06:04 20:26	16	08:29 (FO 04) 19:37	38	08:05 (FO 04) 18:43	06:49 16:56	07:25 16:35
7	05:37 20:51	06:05 20:24	18	08:28 (FO 04) 19:35	36	08:05 (FO 04) 18:42	06:50 16:55	07:26 16:35
8	05:37 20:51	06:06 20:23	21	08:26 (FO 04) 19:34	35	08:05 (FO 04) 18:40	06:52 16:54	07:27 16:34
9	05:38 20:50	06:07 20:22	23	08:25 (FO 04) 19:32	32	08:05 (FO 04) 18:38	06:53 16:53	07:28 16:34
10	05:39 20:50	06:09 20:20	26	08:23 (FO 04) 19:30	29	08:06 (FO 04) 18:37	06:54 16:52	07:29 16:34
11	05:40 20:49	06:10 20:19	27	08:22 (FO 04) 19:28	26	08:07 (FO 04) 18:35	06:55 16:51	07:30 16:34
12	05:40 20:49	06:11 20:17	30	08:20 (FO 04) 19:26	23	08:07 (FO 04) 18:33	06:57 16:50	07:31 16:35
13	05:41 20:48	06:12 20:16	32	08:18 (FO 04) 19:25	17	08:08 (FO 04) 18:32	06:58 16:48	07:31 16:35
14	05:42 20:48	06:13 20:15	34	08:17 (FO 04) 19:23		07:20 18:30	06:59 16:47	07:32 16:35
15	05:43 20:47	06:14 20:13	36	08:15 (FO 04) 19:21		07:22 18:28	07:01 16:47	07:33 16:35
16	05:44 20:46	06:15 20:12	39	08:13 (FO 04) 19:19		07:23 18:27	07:02 16:46	07:34 16:35
17	05:44 20:46	06:16 20:10	40	08:12 (FO 04) 19:17		07:24 18:25	07:03 16:45	07:34 16:35
18	05:45 20:45	06:17 20:09	42	08:10 (FO 04) 19:16		07:25 18:23	07:04 16:44	07:35 16:36
19	05:46 20:44	06:18 20:07	44	08:09 (FO 04) 19:14		07:26 18:22	07:06 16:43	07:36 16:36
20	05:47 20:43	06:19 20:05	47	08:07 (FO 04) 19:12		07:28 18:20	07:07 16:42	07:36 16:37
21	05:48 20:43	06:21 20:04	48	08:06 (FO 04) 19:10		07:29 18:19	07:08 16:41	07:37 16:37
22	05:49 20:42	06:22 20:02	50	08:04 (FO 04) 19:08		07:30 18:17	07:09 16:41	07:37 16:37
23	05:50 20:41	06:23 20:01	49	08:04 (FO 04) 19:07		07:31 18:16	07:11 16:40	07:38 16:38
24	05:51 20:40	06:24 19:59	49	08:03 (FO 04) 19:05		07:33 18:14	07:12 16:39	07:38 16:39
25	05:52 20:39	06:25 19:57	49	08:04 (FO 04) 19:03		06:34 17:13	07:13 16:39	07:39 16:39
26	05:53 20:38	06:26 19:56	49	08:04 (FO 04) 19:01		06:35 17:11	07:14 16:38	07:39 16:40
27	05:54 20:37	06:27 19:54	48	08:04 (FO 04) 18:59		06:36 17:10	07:15 16:38	07:40 16:40
28	05:55 20:36	06:28 19:53	48	08:04 (FO 04) 18:58		06:38 17:08	07:16 16:37	07:40 16:41
29	05:56 20:35	06:29 19:51	47	08:04 (FO 04) 18:56		06:39 17:07	07:18 16:37	07:40 16:42
30	05:57 20:34	06:30 19:49	47	08:04 (FO 04) 18:54		06:40 17:05	07:19 16:36	07:40 16:43
31	05:58 20:33	06:31 19:47	46	08:04 (FO 04) 18:50 (FO 04)		06:41 17:04		07:41 16:43
Potential sun hours	465	432		376		343	293	281
Total, worst case		1043		451				

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

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

Calculation: Shadow Shadow receptor: V - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (136)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April		May		June
1	07:41 16:45	07:25 17:21	06:47 17:57	06:53 19:35		06:04 20:09		05:33 20:41
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36		06:03 20:10	38	05:33 20:42
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37		06:02 20:12	35	05:32 20:43
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38		06:00 20:13	34	05:32 20:43
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39		05:59 20:14	31	05:31 20:44
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	15	08:19 (FO 04) 08:34 (FO 04)	29	05:31 20:45
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	19	08:19 (FO 04) 08:38 (FO 04)	27	05:31 20:45
8	07:41 16:51	07:18 17:30	06:35 18:06	06:41 19:43	23	08:18 (FO 04) 08:41 (FO 04)	25	05:30 20:46
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	25	08:17 (FO 04) 08:42 (FO 04)	23	05:30 20:47
10	07:40 16:53	07:15 17:33	06:32 18:09	06:38 19:45	28	08:17 (FO 04) 08:45 (FO 04)	21	05:30 20:47
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	31	08:15 (FO 04) 08:46 (FO 04)	19	05:30 20:48
12	07:40 16:56	07:12 17:35	06:28 18:11	06:34 19:47	33	08:14 (FO 04) 08:47 (FO 04)	18	05:30 20:48
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	35	08:14 (FO 04) 08:49 (FO 04)	15	05:30 20:49
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	36	08:13 (FO 04) 08:49 (FO 04)	14	05:29 20:49
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	37	08:12 (FO 04) 08:49 (FO 04)	12	05:29 20:50
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	39	08:12 (FO 04) 08:51 (FO 04)	10	05:29 20:50
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	40	08:11 (FO 04) 08:51 (FO 04)	8	05:29 20:51
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	42	08:10 (FO 04) 08:52 (FO 04)	5	05:29 20:51
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55	42	08:09 (FO 04) 08:51 (FO 04)	4	05:30 20:51
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:57	43	08:08 (FO 04) 08:51 (FO 04)	2	05:30 20:52
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58	44	08:08 (FO 04) 08:52 (FO 04)		05:30 20:52
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	45	08:07 (FO 04) 08:52 (FO 04)		05:30 20:52
23	07:34 17:09	06:56 17:50	06:09 18:24	06:16 20:00	45	08:07 (FO 04) 08:52 (FO 04)		05:30 20:52
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	45	08:06 (FO 04) 08:51 (FO 04)		05:31 20:52
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	47	08:05 (FO 04) 08:52 (FO 04)		05:31 20:53
26	07:31 17:13	06:52 17:54	06:04 18:28	06:12 20:03	46	08:05 (FO 04) 08:51 (FO 04)		05:31 20:53
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	44	08:07 (FO 04) 08:51 (FO 04)		05:32 20:53
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06	42	08:09 (FO 04) 08:51 (FO 04)		05:32 20:53
29	07:28 17:17		06:58 19:31	06:07 20:07	42	08:09 (FO 04) 08:51 (FO 04)		05:32 20:53
30	07:28 17:18		06:57 19:32	06:06 20:08	40	08:11 (FO 04) 08:51 (FO 04)		05:33 20:53
31	07:27 17:19		06:55 19:33			05:34 20:40		
Potential sun hours	292	294	369	401		454		459
Total, worst case				928		402		

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

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

Calculation: Shadow Shadow receptor: V - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (136)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	05:33 20:52	05:59 20:32	08:36 (FO 04) 06:33	08:14 (FO 04) 07:05	06:43 17:03	07:20 16:36
2	05:34 20:52	06:00 20:30	08:35 (FO 04) 06:34	08:15 (FO 04) 07:07	06:44 17:01	07:21 16:36
3	05:34 20:52	06:01 20:29	08:34 (FO 04) 06:35	08:15 (FO 04) 07:08	06:45 17:00	07:22 16:35
4	05:35 20:52	06:02 20:28	08:32 (FO 04) 06:36	08:15 (FO 04) 07:09	06:46 16:59	07:23 16:35
5	05:35 20:52	06:03 20:27	08:31 (FO 04) 06:37	08:15 (FO 04) 07:10	06:48 16:57	07:24 16:35
6	05:36 20:51	06:04 20:26	08:29 (FO 04) 06:38	08:15 (FO 04) 07:11	06:49 16:56	07:25 16:35
7	05:37 20:51	06:05 20:24	08:28 (FO 04) 06:39	08:17 (FO 04) 07:12	06:50 16:55	07:26 16:35
8	05:37 20:51	06:06 20:23	08:26 (FO 04) 06:40	08:22 (FO 04) 07:13	06:52 16:54	07:27 16:34
9	05:38 20:50	06:07 20:22	08:25 (FO 04) 06:41	08:20 (FO 04) 07:14	06:53 16:53	07:28 16:34
10	05:39 20:50	06:09 20:20	08:23 (FO 04) 06:42	08:19 (FO 04) 07:15	06:54 16:52	07:29 16:34
11	05:40 20:49	06:10 20:19	08:22 (FO 04) 06:43	08:18 (FO 04) 07:16	06:55 16:51	07:30 16:34
12	05:40 20:49	06:11 20:17	08:20 (FO 04) 06:44	08:17 (FO 04) 07:17	06:56 16:50	07:31 16:35
13	05:41 20:48	06:12 20:16	08:18 (FO 04) 06:46	08:16 (FO 04) 07:18	06:58 16:48	07:31 16:35
14	05:42 20:48	06:13 20:15	08:17 (FO 04) 06:47	08:15 (FO 04) 07:19	06:59 16:47	07:32 16:35
15	05:43 20:47	06:14 20:13	08:15 (FO 04) 06:48	08:14 (FO 04) 07:20	07:01 16:47	07:33 16:35
16	05:44 20:46	06:15 20:12	08:13 (FO 04) 06:49	08:13 (FO 04) 07:21	07:02 16:46	07:34 16:35
17	05:44 20:46	06:16 20:10	08:12 (FO 04) 06:50	08:12 (FO 04) 07:22	07:03 16:45	07:34 16:35
18	05:45 20:45	06:17 20:09	08:11 (FO 04) 06:51	08:11 (FO 04) 07:23	07:04 16:44	07:35 16:36
19	05:46 20:44	06:18 20:07	08:11 (FO 04) 06:52	08:10 (FO 04) 07:24	07:05 16:43	07:36 16:36
20	05:47 20:43	06:19 20:05	08:10 (FO 04) 06:53	08:09 (FO 04) 07:25	07:06 16:42	07:36 16:37
21	05:48 20:43	06:20 20:04	08:09 (FO 04) 06:54	08:08 (FO 04) 07:26	07:07 16:41	07:37 16:37
22	05:49 20:42	06:22 20:02	08:08 (FO 04) 06:55	08:07 (FO 04) 07:27	07:08 16:41	07:37 16:37
23	05:50 20:41	06:23 20:01	08:07 (FO 04) 06:56	08:06 (FO 04) 07:28	07:09 16:40	07:38 16:38
24	05:51 20:40	06:24 19:59	08:06 (FO 04) 06:57	08:05 (FO 04) 07:29	07:10 16:39	07:38 16:39
25	05:52 20:39	06:25 19:57	08:05 (FO 04) 06:58	08:04 (FO 04) 07:30	07:11 16:38	07:39 16:39
26	05:53 20:38	06:26 19:56	08:04 (FO 04) 06:59	08:03 (FO 04) 07:31	07:12 16:38	07:39 16:40
27	05:54 20:37	06:27 19:54	08:03 (FO 04) 07:00	08:02 (FO 04) 07:32	07:13 16:38	07:40 16:40
28	05:55 20:36	06:28 19:53	08:02 (FO 04) 07:01	08:01 (FO 04) 07:33	07:14 16:38	07:40 16:41
29	05:56 20:35	06:29 19:51	08:01 (FO 04) 07:02	08:00 (FO 04) 07:34	07:15 16:37	07:40 16:41
30	05:57 20:34	06:30 19:49	08:00 (FO 04) 07:03	07:59 (FO 04) 07:35	07:16 16:37	07:40 16:42
31	05:58 20:33	06:31 19:47	07:58 (FO 04) 07:04	07:57 (FO 04) 07:36	07:17 16:36	07:41 16:43
Potential sun hours	465	432	376	343	293	281
Total, worst case	77	1128	147			

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

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

Calculation: Shadow Shadow receptor: W - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (137)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:44	11:53 (FO 06) 13:25 (FO 06)	07:25 17:21	12:14 (FO 06) 13:26 (FO 06)	06:47 17:57	16:38 (FO 07) 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45	11:54 (FO 06) 13:25 (FO 06)	07:24 17:22	12:16 (FO 06) 13:26 (FO 06)	06:45 17:59	16:38 (FO 07) 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46	11:54 (FO 06) 13:26 (FO 06)	07:23 17:23	12:18 (FO 06) 13:25 (FO 06)	06:44 18:00	16:38 (FO 07) 19:37	06:02 20:12	05:32 20:43
4	07:41 16:47	11:55 (FO 06) 13:26 (FO 06)	07:22 17:25	12:19 (FO 06) 13:24 (FO 06)	06:42 18:01	16:40 (FO 07) 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48	11:56 (FO 06) 13:27 (FO 06)	07:21 17:26	12:22 (FO 06) 13:22 (FO 06)	06:40 18:02	16:40 (FO 07) 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49	11:56 (FO 06) 13:27 (FO 06)	07:20 17:27	12:23 (FO 06) 13:20 (FO 06)	06:39 18:04	16:42 (FO 07) 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50	11:57 (FO 06) 13:28 (FO 06)	07:19 17:29	12:26 (FO 06) 13:18 (FO 06)	06:37 18:05	16:45 (FO 07) 19:41	05:56 20:16	05:31 20:46
8	07:41 16:51	11:58 (FO 06) 13:29 (FO 06)	07:18 17:30	12:29 (FO 06) 13:16 (FO 06)	06:35 18:06	16:45 (FO 07) 19:42	05:55 20:17	05:30 20:46
9	07:40 16:52	11:57 (FO 06) 13:28 (FO 06)	07:16 17:31	12:33 (FO 06) 13:13 (FO 06)	06:34 18:07	16:45 (FO 07) 19:43	05:54 20:18	05:30 20:47
10	07:40 16:53	11:58 (FO 06) 13:29 (FO 06)	07:15 17:33	12:37 (FO 06) 13:08 (FO 06)	06:32 18:08	16:45 (FO 07) 19:44	05:53 20:19	05:30 20:47
11	07:40 16:54	11:59 (FO 06) 13:30 (FO 06)	07:14 17:34	12:45 (FO 06) 13:02 (FO 06)	06:30 18:10	16:45 (FO 07) 19:45	05:51 20:21	05:30 20:48
12	07:40 16:55	11:59 (FO 06) 13:29 (FO 06)	07:12 17:35	12:45 (FO 06) 13:02 (FO 06)	06:28 18:11	16:45 (FO 07) 19:46	05:50 20:22	05:30 20:48
13	07:39 16:57	12:00 (FO 06) 13:30 (FO 06)	07:11 17:37	12:45 (FO 06) 13:02 (FO 06)	06:27 18:12	16:45 (FO 07) 19:47	05:49 20:23	05:29 20:49
14	07:39 16:58	12:00 (FO 06) 13:30 (FO 06)	07:10 17:38	12:45 (FO 06) 13:02 (FO 06)	06:25 18:13	16:45 (FO 07) 19:48	05:48 20:24	05:29 20:49
15	07:38 16:59	12:01 (FO 06) 13:30 (FO 06)	07:08 17:39	12:45 (FO 06) 13:02 (FO 06)	06:23 18:15	16:45 (FO 07) 19:49	05:47 20:25	05:29 20:50
16	07:38 17:00	12:01 (FO 06) 13:30 (FO 06)	07:07 17:41	12:45 (FO 06) 13:02 (FO 06)	06:21 18:16	16:45 (FO 07) 19:50	05:46 20:26	05:29 20:50
17	07:37 17:01	12:01 (FO 06) 13:30 (FO 06)	07:05 17:42	12:45 (FO 06) 13:02 (FO 06)	06:20 18:17	16:45 (FO 07) 19:51	05:45 20:27	05:29 20:51
18	07:37 17:03	12:02 (FO 06) 13:31 (FO 06)	07:04 17:43	12:45 (FO 06) 13:02 (FO 06)	06:18 18:18	16:45 (FO 07) 19:52	05:44 20:28	05:29 20:51
19	07:36 17:04	12:03 (FO 06) 13:31 (FO 06)	07:03 17:45	12:45 (FO 06) 13:02 (FO 06)	06:16 18:19	16:45 (FO 07) 19:53	05:43 20:29	05:29 20:51
20	07:36 17:05	12:03 (FO 06) 13:30 (FO 06)	07:01 17:46	12:45 (FO 06) 13:02 (FO 06)	06:14 18:20	16:45 (FO 07) 19:54	05:42 20:30	05:30 20:52
21	07:35 17:06	12:04 (FO 06) 13:31 (FO 06)	07:00 17:47	12:45 (FO 06) 13:02 (FO 06)	06:13 18:22	16:45 (FO 07) 19:55	05:41 20:31	05:30 20:52
22	07:34 17:08	12:05 (FO 06) 13:31 (FO 06)	06:58 17:48	12:45 (FO 06) 13:02 (FO 06)	06:11 18:23	16:45 (FO 07) 19:56	05:40 20:32	05:30 20:52
23	07:34 17:09	12:05 (FO 06) 13:31 (FO 06)	06:56 17:50	12:45 (FO 06) 13:02 (FO 06)	06:09 18:24	16:45 (FO 07) 19:57	05:39 20:33	05:30 20:52
24	07:33 17:10	12:06 (FO 06) 13:30 (FO 06)	06:55 17:51	12:45 (FO 06) 13:02 (FO 06)	06:07 18:25	16:45 (FO 07) 19:58	05:39 20:34	05:30 20:52
25	07:32 17:11	12:07 (FO 06) 13:30 (FO 06)	06:53 17:52	12:45 (FO 06) 13:02 (FO 06)	06:05 18:26	16:45 (FO 07) 19:59	05:38 20:35	05:31 20:53
26	07:31 17:13	12:07 (FO 06) 13:30 (FO 06)	06:52 17:54	12:45 (FO 06) 13:02 (FO 06)	06:04 18:27	16:45 (FO 07) 20:00	05:37 20:36	05:31 20:53
27	07:30 17:14	12:09 (FO 06) 13:30 (FO 06)	06:50 17:55	12:45 (FO 06) 13:02 (FO 06)	06:02 18:29	16:45 (FO 07) 20:01	05:36 20:37	05:31 20:53
28	07:29 17:15	12:10 (FO 06) 13:30 (FO 06)	06:49 17:56	12:45 (FO 06) 13:02 (FO 06)	06:00 18:30	16:45 (FO 07) 20:02	05:36 20:38	05:32 20:53
29	07:28 17:17	12:11 (FO 06) 13:29 (FO 06)	06:48 17:57	12:45 (FO 06) 13:02 (FO 06)	06:58 19:31	16:45 (FO 07) 20:03	05:35 20:39	05:32 20:53
30	07:28 17:18	12:12 (FO 06) 13:29 (FO 06)	06:47 17:58	12:45 (FO 06) 13:02 (FO 06)	06:57 19:32	16:45 (FO 07) 20:04	05:34 20:40	05:33 20:53
31	07:27 17:19	12:13 (FO 06) 13:27 (FO 06)	06:46 17:59	12:45 (FO 06) 13:02 (FO 06)	06:55 19:33	16:45 (FO 07) 20:05	05:34 20:41	05:33 20:53
Potential sun hours	292	294	369	401	454	459		
Total, worst case	2703	851	143					

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

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

Calculation: Shadow Shadow receptor: W - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (137)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	12:06 (FO 06) 16:36 91
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 17:01	12:01 (FO 06) 16:36 91
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	12:01 (FO 06) 16:35 91
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 16:59	11:55 (FO 06) 16:35 91
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	11:54 (FO 06) 16:35 91
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	17:25 (FO 07) 17:27 (FO 07)	06:49 16:56
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	17:19 (FO 07) 17:14 (FO 07)	06:50 16:55
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	17:16 (FO 07) 17:34 (FO 07)	06:52 16:54
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	17:14 (FO 07) 17:35 (FO 07)	06:53 16:53
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	17:13 (FO 07) 17:37 (FO 07)	06:54 16:52
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	17:12 (FO 07) 17:37 (FO 07)	06:55 16:51
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	17:11 (FO 07) 17:37 (FO 07)	06:57 16:49
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	17:10 (FO 07) 17:37 (FO 07)	06:58 16:48
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	17:10 (FO 07) 17:38 (FO 07)	06:59 16:47
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	17:09 (FO 07) 17:38 (FO 07)	07:01 16:46
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	17:09 (FO 07) 17:37 (FO 07)	07:02 16:46
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	17:09 (FO 07) 17:36 (FO 07)	07:03 16:45
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	17:09 (FO 07) 17:37 (FO 07)	07:04 16:44
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:10 (FO 07) 17:36 (FO 07)	07:06 16:43
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:10 (FO 07) 17:34 (FO 07)	07:07 16:42
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:10 (FO 07) 17:33 (FO 07)	07:08 16:41
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:12 (FO 07) 17:32 (FO 07)	07:09 16:41
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	17:13 (FO 07) 17:30 (FO 07)	07:11 16:40
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	17:15 (FO 07) 17:27 (FO 07)	07:12 16:39
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	07:13 16:39	11:39 (FO 06) 16:39 104
26	05:53 20:38	06:26 19:56	07:00 19:01	07:35 17:11	07:14 16:38	11:40 (FO 06) 16:39 103
27	05:54 20:37	06:27 19:54	07:01 18:59	07:36 17:10	07:15 16:38	11:40 (FO 06) 16:40 102
28	05:55 20:36	06:28 19:53	07:02 18:58	07:38 17:08	07:16 16:37	11:40 (FO 06) 16:41 100
29	05:56 20:35	06:29 19:51	07:03 18:56	07:39 17:07	07:18 16:37	11:40 (FO 06) 16:42 100
30	05:57 20:34	06:30 19:49	07:04 18:54	07:40 17:05	07:19 16:36	11:40 (FO 06) 16:43 95
31	05:58 20:33	06:31 19:47	07:05 18:53	07:41 17:04	12:13 (FO 06) 12:34 (FO 06)	07:41 16:43 91
Potential sun hours	465	432	376	343	293	281
Total, worst case				439	2270	3020

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

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

Calculation: Shadow Shadow receptor: X - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (138)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:44	12:02 (FO 06) 13:33 (FO 06)	07:25 17:21	12:24 (FO 06) 13:34 (FO 06)	06:47 17:57	16:38 (FO 07) 19:34	06:53 20:09	05:33 20:41
2	07:41 16:45	12:03 (FO 06) 13:33 (FO 06)	07:24 17:22	12:25 (FO 06) 13:33 (FO 06)	06:45 17:59	16:38 (FO 07) 19:36	06:51 20:10	05:33 20:42
3	07:41 16:46	12:03 (FO 06) 13:33 (FO 06)	07:23 17:23	12:27 (FO 06) 13:32 (FO 06)	06:44 18:00	16:39 (FO 07) 19:37	06:50 20:12	05:32 20:43
4	07:41 16:47	12:04 (FO 06) 13:34 (FO 06)	07:22 17:25	12:29 (FO 06) 13:31 (FO 06)	06:42 18:01	16:40 (FO 07) 19:38	06:48 20:13	05:32 20:43
5	07:41 16:48	12:04 (FO 06) 13:35 (FO 06)	07:21 17:26	12:32 (FO 06) 13:30 (FO 06)	06:40 18:02	16:41 (FO 07) 19:39	06:46 20:14	05:31 20:44
6	07:41 16:49	12:05 (FO 06) 13:35 (FO 06)	07:20 17:27	12:33 (FO 06) 13:27 (FO 06)	06:39 18:04	16:43 (FO 07) 19:40	06:44 20:15	05:31 20:45
7	07:41 16:50	12:06 (FO 06) 13:36 (FO 06)	07:19 17:29	12:36 (FO 06) 13:25 (FO 06)	06:37 18:05	16:46 (FO 07) 19:41	06:43 20:16	05:31 20:46
8	07:41 16:51	12:06 (FO 06) 13:36 (FO 06)	07:18 17:30	12:40 (FO 06) 13:23 (FO 06)	06:35 18:06	16:54 (FO 07) 19:43	06:41 20:17	05:30 20:46
9	07:40 16:52	12:06 (FO 06) 13:36 (FO 06)	07:16 17:31	12:44 (FO 06) 13:20 (FO 06)	06:34 18:07	19:44	06:39 20:18	05:30 20:47
10	07:40 16:53	12:07 (FO 06) 13:37 (FO 06)	07:15 17:33	12:49 (FO 06) 13:15 (FO 06)	06:32 18:08	19:45	06:37 20:19	05:30 20:47
11	07:40 16:54	12:08 (FO 06) 13:37 (FO 06)	07:14 17:34	13:01 (FO 06) 13:04 (FO 06)	06:30 18:10	19:46	06:36 20:21	05:30 20:48
12	07:40 16:55	12:08 (FO 06) 13:37 (FO 06)	07:12 17:35	12:08 (FO 06) 18:11	06:28 18:11	19:47	06:34 20:22	05:30 20:48
13	07:39 16:57	12:09 (FO 06) 13:38 (FO 06)	07:11 17:37	12:09 (FO 06) 18:12	06:27 18:12	19:48	06:32 20:23	05:29 20:49
14	07:39 16:58	12:09 (FO 06) 13:37 (FO 06)	07:10 17:38	12:10 (FO 06) 18:13	06:25 18:13	19:50	06:31 20:24	05:29 20:49
15	07:38 16:59	12:10 (FO 06) 13:38 (FO 06)	07:08 17:39	12:10 (FO 06) 18:15	06:23 18:15	19:51	06:29 20:25	05:29 20:50
16	07:38 17:00	12:10 (FO 06) 13:38 (FO 06)	07:07 17:41	12:10 (FO 06) 18:16	06:21 18:16	19:52	06:27 20:26	05:29 20:50
17	07:37 17:01	12:10 (FO 06) 13:38 (FO 06)	07:05 17:42	16:50 (FO 07) 18:17	06:20 18:17	19:53	06:26 20:27	05:29 20:51
18	07:37 17:03	12:11 (FO 06) 13:38 (FO 06)	07:04 17:43	16:46 (FO 07) 18:18	06:18 18:18	19:54	06:24 20:28	05:29 20:51
19	07:36 17:04	12:12 (FO 06) 13:38 (FO 06)	07:03 17:45	16:43 (FO 07) 18:19	06:16 18:19	19:55	06:23 20:29	05:29 20:51
20	07:36 17:05	12:12 (FO 06) 13:38 (FO 06)	07:01 17:46	16:42 (FO 07) 18:20	06:14 18:20	19:57	06:21 20:30	05:30 20:52
21	07:35 17:06	12:13 (FO 06) 13:39 (FO 06)	07:00 17:47	16:40 (FO 07) 18:22	06:13 18:22	19:58	06:19 20:31	05:30 20:52
22	07:34 17:08	12:14 (FO 06) 13:38 (FO 06)	06:58 17:48	16:40 (FO 07) 18:23	06:11 18:23	19:59	06:18 20:32	05:30 20:52
23	07:34 17:09	12:15 (FO 06) 13:38 (FO 06)	06:56 17:50	16:39 (FO 07) 18:24	06:09 18:24	20:00	06:16 20:33	05:30 20:52
24	07:33 17:10	12:15 (FO 06) 13:38 (FO 06)	06:55 17:51	16:39 (FO 07) 18:25	06:07 18:25	20:01	06:15 20:34	05:30 20:52
25	07:32 17:11	12:16 (FO 06) 13:38 (FO 06)	06:53 17:52	16:38 (FO 07) 18:26	06:05 18:26	20:02	06:13 20:35	05:31 20:53
26	07:31 17:13	12:17 (FO 06) 13:37 (FO 06)	06:52 17:54	16:37 (FO 07) 18:27	06:04 18:27	20:03	06:12 20:36	05:31 20:53
27	07:30 17:14	12:19 (FO 06) 13:38 (FO 06)	06:50 17:55	16:38 (FO 07) 18:29	06:02 18:29	20:05	06:10 20:37	05:31 20:53
28	07:29 17:15	12:20 (FO 06) 13:37 (FO 06)	06:49 17:56	16:37 (FO 07) 18:30	06:00 18:30	20:06	06:09 20:38	05:32 20:53
29	07:28 17:17	12:21 (FO 06) 13:37 (FO 06)	06:58	17:05 (FO 07) 19:31	06:58 19:31	20:07	06:07 20:39	05:32 20:53
30	07:28 17:18	12:22 (FO 06) 13:36 (FO 06)	06:57	17:05 (FO 07) 19:32	06:57 19:32	20:08	06:06 20:39	05:33 20:53
31	07:27 17:19	12:22 (FO 06) 13:35 (FO 06)	06:55	17:06 (FO 07) 19:33	06:55 19:33	20:08	06:05 20:40	05:33 20:53
Potential sun hours	292	294	369	401	454	459		
Total, worst case	2657	803	141					

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

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

Calculation: Shadow Shadow receptor: X - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (138)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October		November		December
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52		06:43 17:03		07:20 16:36
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50		06:44 17:01	29	07:21 16:36
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49		06:45 17:00	38	07:22 16:35
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47		06:46 16:59	44	07:23 16:35
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45		06:48 16:57	50	07:24 16:35
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43		06:49 16:56	54	07:25 16:35
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	12	17:20 (FO 07) 17:32 (FO 07)	59	07:26 16:34
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	17	17:17 (FO 07) 17:34 (FO 07)	62	07:27 16:34
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	20	17:15 (FO 07) 17:35 (FO 07)	65	07:28 16:34
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	23	17:14 (FO 07) 17:37 (FO 07)	68	07:29 16:34
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	24	17:13 (FO 07) 17:37 (FO 07)	70	07:30 16:34
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	26	17:12 (FO 07) 17:38 (FO 07)	73	07:31 16:34
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	27	17:11 (FO 07) 17:38 (FO 07)	74	07:31 16:34
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	27	17:11 (FO 07) 17:38 (FO 07)	76	07:32 16:35
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	28	17:10 (FO 07) 17:38 (FO 07)	77	07:33 16:35
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	28	17:10 (FO 07) 17:38 (FO 07)	79	07:34 16:35
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	28	17:09 (FO 07) 17:37 (FO 07)	80	07:34 16:35
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	28	17:10 (FO 07) 17:37 (FO 07)	82	07:35 16:36
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	26	17:10 (FO 07) 17:36 (FO 07)	83	07:36 16:36
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	24	17:11 (FO 07) 17:35 (FO 07)	84	07:36 16:36
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	24	17:11 (FO 07) 17:33 (FO 07)	86	07:37 16:37
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	22	17:13 (FO 07) 17:33 (FO 07)	86	07:37 16:37
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	20	17:14 (FO 07) 17:31 (FO 07)	86	07:38 16:38
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	17	17:16 (FO 07) 17:28 (FO 07)	86	07:38 16:38
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	12	17:16 (FO 07) 17:13	88	07:39 16:39
26	05:53 20:38	06:26 19:56	07:00 19:01	07:35 17:11		16:39 16:38	88	07:39 16:40
27	05:54 20:37	06:27 19:54	07:01 18:59	07:36 17:10		07:15 16:38	88	07:40 16:40
28	05:55 20:36	06:28 19:53	07:02 18:58	07:38 17:08		07:16 16:37	89	07:40 16:41
29	05:56 20:35	06:29 19:51	07:03 18:56	07:39 17:07		07:18 16:37	89	07:40 16:42
30	05:57 20:34	06:30 19:49	07:04 18:54	07:40 17:05		07:19 16:36	89	07:40 16:43
31	05:58 20:33	06:31 19:47		06:41 17:04	12	12:26 (FO 06) 12:38 (FO 06)		07:41 16:43
Potential sun hours	465	432	376	343		293		281
Total, worst case				420		2207		2796

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

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

Calculation: Shadow Shadow receptor: Y - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (139)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:44	12:08 (FO 06) 13:37 (FO 06)	07:25 17:21	12:31 (FO 06) 13:38 (FO 06)	06:47 17:57	16:39 (FO 07) 19:34	06:53 20:09	05:33 20:41
2	07:41 16:45	12:09 (FO 06) 13:38 (FO 06)	07:24 17:22	12:33 (FO 06) 13:37 (FO 06)	06:45 17:59	16:39 (FO 07) 19:36	06:51 20:10	05:33 20:42
3	07:41 16:46	12:09 (FO 06) 13:38 (FO 06)	07:23 17:23	12:34 (FO 06) 13:36 (FO 06)	06:44 18:00	16:39 (FO 07) 17:03 (FO 07)	06:50 19:37	05:32 20:43
4	07:41 16:47	12:10 (FO 06) 13:39 (FO 06)	07:22 17:25	12:37 (FO 06) 13:35 (FO 06)	06:42 18:01	16:41 (FO 07) 17:02 (FO 07)	06:48 19:38	05:32 20:43
5	07:41 16:48	12:10 (FO 06) 13:39 (FO 06)	07:21 17:26	12:39 (FO 06) 13:34 (FO 06)	06:40 18:02	16:42 (FO 07) 17:00 (FO 07)	06:46 19:39	05:31 20:44
6	07:41 16:49	12:11 (FO 06) 13:40 (FO 06)	07:20 17:27	12:41 (FO 06) 13:31 (FO 06)	06:39 18:04	16:44 (FO 07) 16:57 (FO 07)	06:44 19:40	05:31 20:45
7	07:41 16:50	12:12 (FO 06) 13:41 (FO 06)	07:19 17:29	12:44 (FO 06) 13:29 (FO 06)	06:37 18:05	16:48 (FO 07) 16:52 (FO 07)	06:43 19:41	05:31 20:46
8	07:41 16:51	12:12 (FO 06) 13:41 (FO 06)	07:18 17:30	12:48 (FO 06) 13:26 (FO 06)	06:35 18:06		06:41 19:43	05:30 20:46
9	07:40 16:52	12:12 (FO 06) 13:41 (FO 06)	07:16 17:31	12:53 (FO 06) 13:22 (FO 06)	06:34 18:07		06:39 19:44	05:30 20:47
10	07:40 16:53	12:13 (FO 06) 13:41 (FO 06)	07:15 17:33	13:00 (FO 06) 13:15 (FO 06)	06:32 18:08		06:37 19:45	05:30 20:47
11	07:40 16:54	12:14 (FO 06) 13:42 (FO 06)	07:14 17:34		06:30 18:10		06:36 19:46	05:30 20:48
12	07:40 16:55	12:14 (FO 06) 13:42 (FO 06)	07:12 17:35		06:28 18:11		06:34 19:47	05:30 20:48
13	07:39 16:57	12:15 (FO 06) 13:43 (FO 06)	07:11 17:37		06:27 18:12		06:32 19:48	05:29 20:49
14	07:39 16:58	12:15 (FO 06) 13:42 (FO 06)	07:10 17:38		06:25 18:13		06:31 19:50	05:29 20:49
15	07:38 16:59	12:16 (FO 06) 13:43 (FO 06)	07:08 17:39		06:23 18:15		06:29 19:51	05:29 20:50
16	07:38 17:00	12:16 (FO 06) 13:43 (FO 06)	07:07 17:41		06:21 18:16		06:27 19:52	05:29 20:50
17	07:37 17:01	12:16 (FO 06) 13:42 (FO 06)	07:05 17:42	16:49 (FO 07) 16:55 (FO 07)	06:20 18:17		06:26 19:53	05:29 20:51
18	07:37 17:03	12:18 (FO 06) 13:43 (FO 06)	07:04 17:43	16:46 (FO 07) 16:59 (FO 07)	06:18 18:18		06:24 19:54	05:29 20:51
19	07:36 17:04	12:18 (FO 06) 13:43 (FO 06)	07:03 17:45	16:43 (FO 07) 17:01 (FO 07)	06:16 18:19		06:23 19:55	05:29 20:51
20	07:36 17:05	12:18 (FO 06) 13:43 (FO 06)	07:01 17:46	16:42 (FO 07) 17:03 (FO 07)	06:14 18:20		06:21 19:57	05:30 20:52
21	07:35 17:06	12:20 (FO 06) 13:43 (FO 06)	07:00 17:47	16:40 (FO 07) 17:04 (FO 07)	06:13 18:22		06:19 19:58	05:30 20:52
22	07:34 17:08	12:20 (FO 06) 13:43 (FO 06)	06:58 17:48	16:40 (FO 07) 17:05 (FO 07)	06:11 18:23		06:18 19:59	05:30 20:52
23	07:34 17:09	12:21 (FO 06) 13:43 (FO 06)	06:56 17:50	16:39 (FO 07) 17:05 (FO 07)	06:09 18:24		06:16 20:00	05:30 20:52
24	07:33 17:10	12:22 (FO 06) 13:42 (FO 06)	06:55 17:51	16:39 (FO 07) 17:06 (FO 07)	06:07 18:25		06:15 20:01	05:30 20:52
25	07:32 17:11	12:22 (FO 06) 13:42 (FO 06)	06:53 17:52	16:38 (FO 07) 17:06 (FO 07)	06:05 18:26		06:13 20:02	05:31 20:53
26	07:31 17:13	12:23 (FO 06) 13:42 (FO 06)	06:52 17:54	16:38 (FO 07) 17:05 (FO 07)	06:04 18:27		06:12 20:03	05:31 20:53
27	07:30 17:14	12:25 (FO 06) 13:42 (FO 06)	06:50 17:55	16:38 (FO 07) 17:06 (FO 07)	06:02 18:29		06:10 20:05	05:31 20:53
28	07:29 17:15	12:26 (FO 06) 13:42 (FO 06)	06:49 17:56	16:38 (FO 07) 17:05 (FO 07)	06:00 18:30		06:09 20:06	05:32 20:53
29	07:28 17:17	12:27 (FO 06) 13:41 (FO 06)			06:58 19:31		06:07 20:07	05:32 20:53
30	07:28 17:18	12:29 (FO 06) 13:41 (FO 06)			06:57 19:32		06:06 20:08	05:33 20:53
31	07:27 17:19	12:29 (FO 06) 13:39 (FO 06)			06:55 19:33		05:34 20:40	
Potential sun hours	292	294	369	401	454	459		
Total, worst case	2611	753	131					

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

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

Calculation: Shadow Shadow receptor: Y - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (139)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October		November		December
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52		06:43 17:03		07:20 16:36
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50		06:44 17:01	19	07:21 16:36
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49		06:45 17:00	31	07:22 16:35
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47		06:46 16:59	45	07:23 16:35
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45		06:48 16:57	51	07:24 16:35
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43		06:49 16:56	55	07:25 16:35
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	10	17:21 (FO 07) 17:31 (FO 07)	59	07:26 16:34
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	16	17:18 (FO 07) 17:34 (FO 07)	62	07:27 16:34
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	19	17:16 (FO 07) 17:35 (FO 07)	65	07:28 16:34
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	22	17:15 (FO 07) 17:37 (FO 07)	67	07:29 16:34
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	24	17:13 (FO 07) 17:37 (FO 07)	70	07:30 16:34
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	26	17:12 (FO 07) 17:38 (FO 07)	72	07:31 16:34
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	27	17:11 (FO 07) 17:38 (FO 07)	74	07:31 16:35
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	28	17:11 (FO 07) 17:39 (FO 07)	76	07:32 16:35
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	28	17:10 (FO 07) 17:38 (FO 07)	77	07:33 16:35
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	28	17:10 (FO 07) 17:38 (FO 07)	79	07:34 16:35
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	27	17:10 (FO 07) 17:37 (FO 07)	80	07:34 16:35
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	26	17:11 (FO 07) 17:37 (FO 07)	80	07:35 16:36
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	25	17:11 (FO 07) 17:36 (FO 07)	82	07:36 16:36
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	24	17:11 (FO 07) 17:35 (FO 07)	83	07:36 16:36
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	23	17:11 (FO 07) 17:34 (FO 07)	83	07:37 16:37
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	20	17:13 (FO 07) 17:33 (FO 07)	85	07:37 16:37
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	17	17:14 (FO 07) 17:31 (FO 07)	85	07:38 16:38
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	12	17:16 (FO 07) 17:28 (FO 07)	85	07:38 16:38
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	1	16:22 (FO 07) 16:23 (FO 07)	86	07:39 16:39
26	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11		07:14 16:38	87	07:39 16:40
27	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:10		07:15 16:38	87	07:40 16:40
28	05:55 20:36	06:28 19:53	07:02 18:58	06:38 17:08		07:16 16:37	87	07:40 16:41
29	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07		07:18 16:37	88	07:40 16:42
30	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05		07:19 16:36	88	07:40 16:43
31	05:58 20:33	06:31 19:47		06:41 17:04				07:41 16:43
Potential sun hours	465	432	376	343		293		281
Total, worst case				403		2127		2762

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

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

Calculation: Shadow Shadow receptor: Z - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (140)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January		February		March		April	May	June			
1	07:41	12:11 (FO 06)	07:25	12:39 (FO 06)	06:47	16:39 (FO 07)	06:53	06:04	05:33			
	16:44	86	13:37 (FO 06)	17:21	53	13:32 (FO 06)	17:57	24	17:03 (FO 07)	19:34	20:09	20:41
2	07:41	12:11 (FO 06)	07:24	12:42 (FO 06)	06:45	16:39 (FO 07)	06:51	06:03	05:33			
	16:45	86	13:37 (FO 06)	17:22	49	13:31 (FO 06)	17:59	22	17:01 (FO 07)	19:36	20:10	20:42
3	07:41	12:12 (FO 06)	07:23	12:45 (FO 06)	06:44	16:40 (FO 07)	06:50	06:02	05:32			
	16:46	86	13:38 (FO 06)	17:23	44	13:29 (FO 06)	18:00	20	17:00 (FO 07)	19:37	20:12	20:43
4	07:41	12:12 (FO 06)	07:22	12:49 (FO 06)	06:42	16:42 (FO 07)	06:48	06:00	05:32			
	16:47	86	13:38 (FO 06)	17:25	37	13:26 (FO 06)	18:01	16	16:58 (FO 07)	19:38	20:13	20:43
5	07:41	12:13 (FO 06)	07:21	12:53 (FO 06)	06:40	16:44 (FO 07)	06:46	05:59	05:31			
	16:48	86	13:39 (FO 06)	17:26	30	13:23 (FO 06)	18:02	11	16:55 (FO 07)	19:39	20:14	20:44
6	07:41	12:14 (FO 06)	07:20	12:59 (FO 06)	06:39		06:44	05:58	05:31			
	16:49	85	13:39 (FO 06)	17:27	18	13:17 (FO 06)	18:04		19:40	20:15	20:45	
7	07:41	12:14 (FO 06)	07:19		06:37		06:43	05:56	05:31			
	16:50	86	13:40 (FO 06)	17:29		18:05	19:41	20:16	20:46			
8	07:41	12:15 (FO 06)	07:18		06:35		06:41	05:55	05:30			
	16:51	85	13:40 (FO 06)	17:30		18:06	19:43	20:17	20:46			
9	07:40	12:15 (FO 06)	07:16		06:34		06:39	05:54	05:30			
	16:52	85	13:40 (FO 06)	17:31		18:07	19:44	20:18	20:47			
10	07:40	12:16 (FO 06)	07:15		06:32		06:37	05:53	05:30			
	16:53	84	13:40 (FO 06)	17:33		18:08	19:45	20:19	20:47			
11	07:40	12:17 (FO 06)	07:14		06:30		06:36	05:51	05:30			
	16:54	84	13:41 (FO 06)	17:34		18:10	19:46	20:21	20:48			
12	07:40	12:17 (FO 06)	07:12		06:28		06:34	05:50	05:30			
	16:55	84	13:41 (FO 06)	17:35		18:11	19:47	20:22	20:48			
13	07:39	12:18 (FO 06)	07:11		06:27		06:32	05:49	05:29			
	16:57	83	13:41 (FO 06)	17:37		18:12	19:48	20:23	20:49			
14	07:39	12:18 (FO 06)	07:10		06:25		06:31	05:48	05:29			
	16:58	83	13:41 (FO 06)	17:38		18:13	19:50	20:24	20:49			
15	07:38	12:19 (FO 06)	07:08		06:23		06:29	05:47	05:29			
	16:59	82	13:41 (FO 06)	17:39		18:15	19:51	20:25	20:50			
16	07:38	12:20 (FO 06)	07:07	16:46 (FO 07)	06:21		06:27	05:46	05:29			
	17:00	81	13:41 (FO 06)	17:41	11	16:57 (FO 07)	18:16	19:52	20:26	20:50		
17	07:37	12:20 (FO 06)	07:05	16:43 (FO 07)	06:20		06:26	05:45	05:29			
	17:01	81	13:41 (FO 06)	17:42	16	16:59 (FO 07)	18:17	19:53	20:27	20:51		
18	07:37	12:22 (FO 06)	07:04	16:42 (FO 07)	06:18		06:24	05:44	05:29			
	17:03	79	13:41 (FO 06)	17:43	19	17:01 (FO 07)	18:18	19:54	20:28	20:51		
19	07:36	12:22 (FO 06)	07:03	16:40 (FO 07)	06:16		06:23	05:43	05:29			
	17:04	79	13:41 (FO 06)	17:45	22	17:02 (FO 07)	18:19	19:55	20:29	20:51		
20	07:36	12:23 (FO 06)	07:01	16:39 (FO 07)	06:14		06:21	05:42	05:30			
	17:05	77	13:40 (FO 06)	17:46	24	17:03 (FO 07)	18:20	19:57	20:30	20:52		
21	07:35	12:24 (FO 06)	07:00	16:38 (FO 07)	06:13		06:19	05:41	05:30			
	17:06	77	13:41 (FO 06)	17:47	25	17:03 (FO 07)	18:22	19:58	20:31	20:52		
22	07:34	12:25 (FO 06)	06:58	16:38 (FO 07)	06:11		06:18	05:40	05:30			
	17:08	76	13:41 (FO 06)	17:48	26	17:04 (FO 07)	18:23	19:59	20:32	20:52		
23	07:34	12:26 (FO 06)	06:56	16:37 (FO 07)	06:09		06:16	05:39	05:30			
	17:09	74	13:40 (FO 06)	17:50	27	17:04 (FO 07)	18:24	20:00	20:33	20:52		
24	07:33	12:27 (FO 06)	06:55	16:37 (FO 07)	06:07		06:15	05:39	05:30			
	17:10	72	13:39 (FO 06)	17:51	28	17:05 (FO 07)	18:25	20:01	20:34	20:52		
25	07:32	12:28 (FO 06)	06:53	16:37 (FO 07)	06:05		06:13	05:38	05:31			
	17:11	71	13:39 (FO 06)	17:52	27	17:04 (FO 07)	18:26	20:02	20:35	20:53		
26	07:31	12:29 (FO 06)	06:52	16:36 (FO 07)	06:04		06:12	05:37	05:31			
	17:13	69	13:38 (FO 06)	17:54	28	17:04 (FO 07)	18:27	20:03	20:36	20:53		
27	07:30	12:31 (FO 06)	06:50	16:37 (FO 07)	06:02		06:10	05:36	05:31			
	17:14	68	13:39 (FO 06)	17:55	27	17:04 (FO 07)	18:29	20:05	20:37	20:53		
28	07:29	12:33 (FO 06)	06:49	16:37 (FO 07)	06:00		06:09	05:36	05:32			
	17:15	65	13:38 (FO 06)	17:56	26	17:03 (FO 07)	18:30	20:06	20:38	20:53		
29	07:28	12:34 (FO 06)			06:58		06:07	05:35	05:32			
	17:17	63	13:37 (FO 06)		19:31		20:07	20:39	20:53			
30	07:28	12:36 (FO 06)			06:57		06:06	05:34	05:33			
	17:18	60	13:36 (FO 06)		19:32		20:08	20:39	20:53			
31	07:27	12:37 (FO 06)			06:55			05:34				
	17:19	57	13:34 (FO 06)		19:33			20:40				
Potential sun hours	292		294		369		401	454	459			
Total, worst case	2420		537		93							

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

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

Calculation: Shadow Shadow receptor: Z - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (140)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December			
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36	11:59 (FO 06) 84 13:23 (FO 06)		
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 17:01	07:21 16:36	11:59 (FO 06) 84 13:23 (FO 06)		
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35	11:59 (FO 06) 85 13:24 (FO 06)		
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 16:59	07:23 16:35	11:59 (FO 06) 85 13:24 (FO 06)		
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	12:28 (FO 06) 20 12:48 (FO 06)	07:24 16:35	11:59 (FO 06) 86 13:25 (FO 06)	
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 16:56	12:22 (FO 06) 31 12:53 (FO 06)	07:25 16:35	12:00 (FO 06) 85 13:25 (FO 06)	
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	12:18 (FO 06) 38 12:56 (FO 06)	07:26 16:34	12:00 (FO 06) 86 13:26 (FO 06)	
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	17:22 (FO 07) 6 17:28 (FO 07)	06:52 16:54	12:16 (FO 06) 44 13:00 (FO 06)	07:27 16:34	12:00 (FO 06) 86 13:26 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	17:17 (FO 07) 14 17:31 (FO 07)	06:53 16:53	12:13 (FO 06) 49 13:02 (FO 06)	07:28 16:34	12:01 (FO 06) 86 13:27 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	17:16 (FO 07) 18 17:34 (FO 07)	06:54 16:52	12:10 (FO 06) 53 13:03 (FO 06)	07:29 16:34	12:01 (FO 06) 86 13:27 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	17:14 (FO 07) 21 17:35 (FO 07)	06:55 16:51	12:09 (FO 06) 57 13:06 (FO 06)	07:30 16:34	12:02 (FO 06) 86 13:28 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	17:12 (FO 07) 23 17:35 (FO 07)	06:57 16:49	12:07 (FO 06) 60 13:07 (FO 06)	07:31 16:34	12:01 (FO 06) 87 13:28 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	17:11 (FO 07) 24 17:35 (FO 07)	06:58 16:48	12:05 (FO 06) 63 13:08 (FO 06)	07:31 16:35	12:02 (FO 06) 86 13:28 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	17:10 (FO 07) 27 17:37 (FO 07)	06:59 16:47	12:05 (FO 06) 65 13:10 (FO 06)	07:32 16:35	12:02 (FO 06) 87 13:29 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	17:10 (FO 07) 27 17:37 (FO 07)	07:01 16:46	12:03 (FO 06) 67 13:10 (FO 06)	07:33 16:35	12:03 (FO 06) 87 13:30 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	17:09 (FO 07) 27 17:36 (FO 07)	07:02 16:46	12:03 (FO 06) 69 13:12 (FO 06)	07:34 16:35	12:03 (FO 06) 86 13:29 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	17:08 (FO 07) 28 17:36 (FO 07)	07:03 16:45	12:02 (FO 06) 71 13:13 (FO 06)	07:34 16:35	12:04 (FO 06) 86 13:30 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	17:09 (FO 07) 27 17:36 (FO 07)	07:04 16:44	12:01 (FO 06) 72 13:13 (FO 06)	07:35 16:36	12:04 (FO 06) 87 13:31 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:09 (FO 07) 27 17:36 (FO 07)	07:06 16:43	12:01 (FO 06) 74 13:15 (FO 06)	07:36 16:36	12:04 (FO 06) 87 13:31 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:09 (FO 07) 26 17:35 (FO 07)	07:07 16:42	12:00 (FO 06) 76 13:16 (FO 06)	07:36 16:36	12:05 (FO 06) 87 13:32 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:09 (FO 07) 25 17:34 (FO 07)	07:08 16:41	11:59 (FO 06) 77 13:16 (FO 06)	07:37 16:37	12:05 (FO 06) 87 13:32 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:10 (FO 07) 23 17:33 (FO 07)	07:09 16:41	12:00 (FO 06) 77 13:17 (FO 06)	07:37 16:37	12:06 (FO 06) 87 13:33 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	17:11 (FO 07) 21 17:32 (FO 07)	07:11 16:40	11:59 (FO 06) 79 13:18 (FO 06)	07:38 16:38	12:06 (FO 06) 87 13:33 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	17:12 (FO 07) 18 17:30 (FO 07)	07:12 16:39	11:59 (FO 06) 79 13:18 (FO 06)	07:38 16:38	12:07 (FO 06) 87 13:34 (FO 06)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	16:14 (FO 07) 15 16:29 (FO 07)	07:13 16:39	11:58 (FO 06) 81 13:19 (FO 06)	07:39 16:39	12:07 (FO 06) 87 13:34 (FO 06)
26	05:53 20:38	06:26 19:56	07:00 19:01	07:35 17:11	16:17 (FO 07) 8 16:25 (FO 07)	07:14 16:38	11:59 (FO 06) 81 13:20 (FO 06)	07:39 16:40	12:08 (FO 06) 86 13:34 (FO 06)
27	05:54 20:37	06:27 19:54	07:01 18:59	07:36 17:10		07:15 16:38	11:59 (FO 06) 81 13:20 (FO 06)	07:40 16:40	12:09 (FO 06) 86 13:35 (FO 06)
28	05:55 20:36	06:28 19:53	07:02 18:58	07:38 17:08		07:16 16:37	11:58 (FO 06) 83 13:21 (FO 06)	07:40 16:41	12:09 (FO 06) 87 13:36 (FO 06)
29	05:56 20:35	06:29 19:51	07:03 18:56	07:39 17:07		07:18 16:37	11:58 (FO 06) 83 13:21 (FO 06)	07:40 16:42	12:09 (FO 06) 87 13:36 (FO 06)
30	05:57 20:34	06:30 19:49	07:04 18:54	07:40 17:05		07:19 16:36	11:58 (FO 06) 84 13:22 (FO 06)	07:40 16:43	12:10 (FO 06) 86 13:36 (FO 06)
31	05:58 20:33	06:31 19:47		06:41 17:04				07:41 16:43	12:10 (FO 06) 86 13:36 (FO 06)
Potential sun hours	465	432	376	343	293	281			
Total, worst case				405	1714	2672			

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

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

Calculation: Shadow Shadow receptor: AA - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (141)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June			
1	07:41 16:44 83	12:10 (FO 06) 13:33 (FO 06)	07:25 17:21 32	12:48 (FO 06) 13:20 (FO 06)	06:47 17:57 22	16:38 (FO 07) 17:00 (FO 07)	06:53 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45 83	12:10 (FO 06) 13:33 (FO 06)	07:24 17:22 23	12:53 (FO 06) 13:16 (FO 06)	06:45 17:59 19	16:39 (FO 07) 16:58 (FO 07)	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46 82	12:11 (FO 06) 13:33 (FO 06)	07:23 17:23	06:44 18:00 14	16:41 (FO 07) 16:55 (FO 07)	06:50 19:37	06:02 20:12	05:32 20:43	
4	07:41 16:47 82	12:12 (FO 06) 13:34 (FO 06)	07:22 17:25	06:42 18:01 8	16:45 (FO 07) 16:53 (FO 07)	06:48 19:38	06:00 20:13	05:32 20:43	
5	07:41 16:48 82	12:12 (FO 06) 13:34 (FO 06)	07:21 17:26	06:40 18:02		06:46 19:39	05:59 20:14	05:31 20:44	
6	07:41 16:49 82	12:13 (FO 06) 13:35 (FO 06)	07:20 17:27	06:39 18:04		06:44 19:40	05:58 20:15	05:31 20:45	
7	07:41 16:50 81	12:14 (FO 06) 13:35 (FO 06)	07:19 17:29	06:37 18:05		06:43 19:41	05:56 20:16	05:31 20:46	
8	07:41 16:51 81	12:15 (FO 06) 13:36 (FO 06)	07:18 17:30	06:35 18:06		06:41 19:43	05:55 20:17	05:30 20:46	
9	07:40 16:52 80	12:15 (FO 06) 13:35 (FO 06)	07:16 17:31	06:34 18:07		06:39 19:44	05:54 20:18	05:30 20:47	
10	07:40 16:53 80	12:16 (FO 06) 13:36 (FO 06)	07:15 17:33	06:32 18:08		06:37 19:45	05:53 20:19	05:30 20:47	
11	07:40 16:54 79	12:17 (FO 06) 13:36 (FO 06)	07:14 17:34	06:30 18:10		06:36 19:46	05:51 20:21	05:30 20:48	
12	07:40 16:55 79	12:17 (FO 06) 13:36 (FO 06)	07:12 17:35	06:28 18:11		06:34 19:47	05:50 20:22	05:30 20:48	
13	07:39 16:57 78	12:18 (FO 06) 13:36 (FO 06)	07:11 17:37	06:27 18:12		06:32 19:48	05:49 20:23	05:29 20:49	
14	07:39 16:58 77	12:19 (FO 06) 13:36 (FO 06)	07:10 17:38	16:47 (FO 07) 16:52 (FO 07)	06:25 18:13	06:31 19:50	05:48 20:24	05:29 20:49	
15	07:38 16:59 76	12:20 (FO 06) 13:36 (FO 06)	07:08 17:39	16:43 (FO 07) 16:56 (FO 07)	06:23 18:15	06:29 19:51	05:47 20:25	05:29 20:50	
16	07:38 17:00 76	12:20 (FO 06) 13:36 (FO 06)	07:07 17:41	16:41 (FO 07) 16:58 (FO 07)	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50	
17	07:37 17:01 74	12:21 (FO 06) 13:35 (FO 06)	07:05 17:42	16:39 (FO 07) 16:59 (FO 07)	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51	
18	07:37 17:03 74	12:22 (FO 06) 13:36 (FO 06)	07:04 17:43	16:38 (FO 07) 17:01 (FO 07)	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51	
19	07:36 17:04 72	12:23 (FO 06) 13:35 (FO 06)	07:03 17:45	16:37 (FO 07) 17:01 (FO 07)	06:16 18:19	06:23 19:55	05:43 20:29	05:29 20:51	
20	07:36 17:05 70	12:24 (FO 06) 13:34 (FO 06)	07:01 17:46	16:37 (FO 07) 17:02 (FO 07)	06:14 18:20	06:21 19:57	05:42 20:30	05:30 20:52	
21	07:35 17:06 69	12:26 (FO 06) 13:35 (FO 06)	07:00 17:47	16:36 (FO 07) 17:02 (FO 07)	06:13 18:22	06:19 19:58	05:41 20:31	05:30 20:52	
22	07:34 17:08 67	12:27 (FO 06) 13:34 (FO 06)	06:58 17:48	16:36 (FO 07) 17:03 (FO 07)	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	
23	07:34 17:09 65	12:28 (FO 06) 13:33 (FO 06)	06:56 17:50	16:35 (FO 07) 17:03 (FO 07)	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	
24	07:33 17:10 63	12:29 (FO 06) 13:32 (FO 06)	06:55 17:51	16:36 (FO 07) 17:03 (FO 07)	06:07 18:25	06:15 20:01	05:39 20:34	05:30 20:52	
25	07:32 17:11 62	12:30 (FO 06) 13:32 (FO 06)	06:53 17:52	16:35 (FO 07) 17:03 (FO 07)	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:53	
26	07:31 17:13 59	12:32 (FO 06) 13:31 (FO 06)	06:52 17:54	16:35 (FO 07) 17:02 (FO 07)	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:53	
27	07:30 17:14 55	12:35 (FO 06) 13:30 (FO 06)	06:50 17:55	16:36 (FO 07) 17:02 (FO 07)	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:53	
28	07:29 17:15 52	12:37 (FO 06) 13:29 (FO 06)	06:49 17:56	16:37 (FO 07) 17:00 (FO 07)	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53	
29	07:28 17:17 49	12:39 (FO 06) 13:28 (FO 06)			06:58 19:31	06:07 20:07	05:35 20:39	05:32 20:53	
30	07:28 17:18 44	12:42 (FO 06) 13:26 (FO 06)			06:57 19:32	06:06 20:08	05:34 20:39	05:33 20:53	
31	07:27 17:19 39	12:44 (FO 06) 13:23 (FO 06)			06:55 19:33		05:34 20:40		
Potential sun hours	292	294	369	401	454	459			
Total, worst case	2195	394	63						

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

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

Calculation: Shadow Shadow receptor: AA - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (141)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December			
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36	11:59 (FO 06) 79 13:18 (FO 06)		
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 17:01	07:21 16:36	11:59 (FO 06) 80 13:19 (FO 06)		
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35	11:59 (FO 06) 80 13:19 (FO 06)		
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 16:59	07:23 16:35	11:59 (FO 06) 81 13:20 (FO 06)		
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35	11:59 (FO 06) 81 13:20 (FO 06)		
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35	11:59 (FO 06) 82 13:21 (FO 06)		
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:34	11:59 (FO 06) 82 13:21 (FO 06)		
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 16:54	12:32 (FO 06) 7 12:39 (FO 06)	07:27 16:34	12:00 (FO 06) 82 13:22 (FO 06)	
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	06:53 16:53	12:23 (FO 06) 24 12:47 (FO 06)	07:28 16:34	12:00 (FO 06) 82 13:22 (FO 06)	
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	17:17 (FO 07) 12 17:29 (FO 07)	06:54 16:52	12:18 (FO 06) 33 12:51 (FO 06)	07:29 16:34	12:00 (FO 06) 83 13:23 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	17:14 (FO 07) 17 17:31 (FO 07)	06:55 16:51	12:15 (FO 06) 40 12:55 (FO 06)	07:30 16:34	12:01 (FO 06) 83 13:24 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	17:12 (FO 07) 20 17:32 (FO 07)	06:57 16:49	12:12 (FO 06) 45 12:57 (FO 06)	07:31 16:34	12:00 (FO 06) 83 13:23 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	17:10 (FO 07) 23 17:33 (FO 07)	06:58 16:48	12:10 (FO 06) 49 12:59 (FO 06)	07:31 16:35	12:01 (FO 06) 83 13:24 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	17:10 (FO 07) 24 17:34 (FO 07)	06:59 16:47	12:09 (FO 06) 52 13:01 (FO 06)	07:32 16:35	12:01 (FO 06) 84 13:25 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	17:09 (FO 07) 25 17:34 (FO 07)	07:01 16:46	12:07 (FO 06) 55 13:02 (FO 06)	07:33 16:35	12:02 (FO 06) 84 13:26 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	17:08 (FO 07) 26 17:34 (FO 07)	07:02 16:46	12:06 (FO 06) 59 13:05 (FO 06)	07:34 16:35	12:02 (FO 06) 83 13:25 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	17:07 (FO 07) 27 17:34 (FO 07)	07:03 16:45	12:04 (FO 06) 62 13:06 (FO 06)	07:34 16:35	12:03 (FO 06) 83 13:26 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	17:07 (FO 07) 28 17:35 (FO 07)	07:04 16:44	12:03 (FO 06) 63 13:06 (FO 06)	07:35 16:36	12:03 (FO 06) 84 13:27 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:07 (FO 07) 27 17:34 (FO 07)	07:06 16:43	12:03 (FO 06) 65 13:08 (FO 06)	07:36 16:36	12:03 (FO 06) 84 13:27 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:06 (FO 07) 28 17:34 (FO 07)	07:07 16:42	12:02 (FO 06) 67 13:09 (FO 06)	07:36 16:36	12:04 (FO 06) 84 13:28 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:06 (FO 07) 27 17:33 (FO 07)	07:08 16:41	12:01 (FO 06) 69 13:10 (FO 06)	07:37 16:37	12:04 (FO 06) 84 13:28 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:07 (FO 07) 26 17:33 (FO 07)	07:09 16:41	12:01 (FO 06) 70 13:11 (FO 06)	07:37 16:37	12:05 (FO 06) 84 13:29 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	17:08 (FO 07) 24 17:32 (FO 07)	07:11 16:40	12:00 (FO 06) 72 13:12 (FO 06)	07:38 16:38	12:05 (FO 06) 84 13:29 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	17:08 (FO 07) 22 17:30 (FO 07)	07:12 16:39	11:59 (FO 06) 74 13:13 (FO 06)	07:38 16:38	12:06 (FO 06) 84 13:30 (FO 06)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	16:10 (FO 07) 20 16:30 (FO 07)	07:13 16:39	11:59 (FO 06) 74 13:13 (FO 06)	07:39 16:39	12:06 (FO 06) 84 13:30 (FO 06)
26	05:53 20:38	06:26 19:56	07:00 19:01	07:35 17:11	16:11 (FO 07) 17 16:28 (FO 07)	07:14 16:38	11:59 (FO 06) 76 13:15 (FO 06)	07:39 16:40	12:06 (FO 06) 84 13:30 (FO 06)
27	05:54 20:37	06:27 19:54	07:01 18:59	07:36 17:10	16:13 (FO 07) 12 16:25 (FO 07)	07:15 16:38	11:59 (FO 06) 76 13:15 (FO 06)	07:40 16:40	12:08 (FO 06) 83 13:31 (FO 06)
28	05:55 20:36	06:28 19:53	07:02 18:58	07:38 17:08	07:16 16:37	07:16 16:37	11:59 (FO 06) 77 13:16 (FO 06)	07:40 16:41	12:08 (FO 06) 83 13:31 (FO 06)
29	05:56 20:35	06:29 19:51	07:03 18:56	07:39 17:07	07:18 16:37	07:18 16:37	11:58 (FO 06) 78 13:16 (FO 06)	07:40 16:42	12:08 (FO 06) 84 13:32 (FO 06)
30	05:57 20:34	06:30 19:49	07:04 18:54	07:40 17:05	07:19 16:36	07:19 16:36	11:58 (FO 06) 79 13:17 (FO 06)	07:40 16:43	12:09 (FO 06) 83 13:32 (FO 06)
31	05:58 20:33	06:31 19:47	07:05 18:53	07:41 17:04	07:20 16:35	07:20 16:35	11:57 (FO 06) 80 13:17 (FO 06)	07:41 16:43	12:09 (FO 06) 83 13:32 (FO 06)
Potential sun hours	465	432	376	343	293	281			
Total, worst case				405	1366	2567			

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

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

Calculation: Shadow Shadow receptor: AB - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (142)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June			
1	07:41 16:44 84	12:18 (FO 06) 13:42 (FO 06) 44	07:25 17:21	12:51 (FO 06) 13:35 (FO 06) 23	06:47 17:57	16:39 (FO 07) 17:02 (FO 07)	06:53 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45 84	12:19 (FO 06) 13:43 (FO 06) 39	07:24 17:22	12:54 (FO 06) 13:33 (FO 06) 20	06:45 17:59	16:40 (FO 07) 17:00 (FO 07)	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46 83	12:20 (FO 06) 13:43 (FO 06) 32	07:23 17:23	12:58 (FO 06) 13:30 (FO 06) 17	06:44 18:00	16:41 (FO 07) 16:58 (FO 07)	06:50 19:37	06:02 20:12	05:32 20:43
4	07:41 16:47 84	12:20 (FO 06) 13:44 (FO 06) 23	07:22 17:25	13:03 (FO 06) 13:26 (FO 06)	06:42 18:01	16:44 (FO 07) 16:57 (FO 07)	06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48 83	12:21 (FO 06) 13:44 (FO 06) 17	07:21 17:26		06:40 18:02	16:48 (FO 07) 16:52 (FO 07)	06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49 82	12:22 (FO 06) 13:44 (FO 06) 17	07:20 17:27		06:39 18:04		06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50 83	12:22 (FO 06) 13:45 (FO 06) 17	07:19 17:29		06:37 18:05		06:43 19:41	05:56 20:16	05:31 20:46
8	07:41 16:51 82	12:23 (FO 06) 13:45 (FO 06) 17	07:18 17:30		06:35 18:06		06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52 82	12:23 (FO 06) 13:45 (FO 06) 17	07:16 17:31		06:34 18:07		06:39 19:44	05:54 20:18	05:30 20:47
10	07:40 16:53 82	12:24 (FO 06) 13:46 (FO 06) 17	07:15 17:33		06:32 18:08		06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54 81	12:25 (FO 06) 13:46 (FO 06) 17	07:14 17:34		06:30 18:10		06:36 19:46	05:51 20:21	05:30 20:48
12	07:40 16:55 81	12:25 (FO 06) 13:46 (FO 06) 17	07:12 17:35		06:28 18:11		06:34 19:47	05:50 20:22	05:30 20:48
13	07:39 16:57 80	12:26 (FO 06) 13:46 (FO 06) 17	07:11 17:37		06:27 18:12		06:32 19:48	05:49 20:23	05:29 20:49
14	07:39 16:58 79	12:27 (FO 06) 13:46 (FO 06) 17	07:10 17:38		06:25 18:13		06:31 19:50	05:48 20:24	05:29 20:49
15	07:38 16:59 78	12:28 (FO 06) 13:46 (FO 06) 17	07:08 17:39	16:48 (FO 07) 16:54 (FO 07) 6	06:23 18:15		06:29 19:51	05:47 20:25	05:29 20:50
16	07:38 17:00 78	12:28 (FO 06) 13:46 (FO 06) 13	07:07 17:41	16:45 (FO 07) 16:58 (FO 07) 13	06:21 18:16		06:27 19:52	05:46 20:26	05:29 20:50
17	07:37 17:01 77	12:29 (FO 06) 13:46 (FO 06) 17	07:05 17:42	16:42 (FO 07) 16:59 (FO 07) 17	06:20 18:17		06:26 19:53	05:45 20:27	05:29 20:51
18	07:37 17:03 76	12:30 (FO 06) 13:46 (FO 06) 20	07:04 17:43	16:41 (FO 07) 17:01 (FO 07) 20	06:18 18:18		06:24 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04 75	12:31 (FO 06) 13:46 (FO 06) 23	07:03 17:45	16:39 (FO 07) 17:02 (FO 07) 23	06:16 18:19		06:23 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05 74	12:31 (FO 06) 13:45 (FO 06) 24	07:01 17:46	16:39 (FO 07) 17:03 (FO 07) 24	06:14 18:20		06:21 19:57	05:42 20:30	05:30 20:52
21	07:35 17:06 73	12:33 (FO 06) 13:46 (FO 06) 25	07:00 17:47	16:38 (FO 07) 17:03 (FO 07) 25	06:13 18:22		06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 17:08 71	12:34 (FO 06) 13:45 (FO 06) 26	06:58 17:48	16:38 (FO 07) 17:04 (FO 07) 26	06:11 18:23		06:18 19:59	05:40 20:32	05:30 20:52
23	07:34 17:09 70	12:35 (FO 06) 13:45 (FO 06) 27	06:56 17:50	16:37 (FO 07) 17:04 (FO 07) 27	06:09 18:24		06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10 68	12:36 (FO 06) 13:44 (FO 06) 28	06:55 17:51	16:37 (FO 07) 17:05 (FO 07) 28	06:07 18:25		06:15 20:01	05:39 20:34	05:30 20:52
25	07:32 17:11 66	12:37 (FO 06) 13:43 (FO 06) 27	06:53 17:52	16:37 (FO 07) 17:04 (FO 07) 27	06:05 18:26		06:13 20:02	05:38 20:35	05:31 20:53
26	07:31 17:13 63	12:39 (FO 06) 13:42 (FO 06) 26	06:52 17:54	16:37 (FO 07) 17:03 (FO 07) 26	06:04 18:27		06:12 20:03	05:37 20:36	05:31 20:53
27	07:30 17:14 62	12:41 (FO 06) 13:43 (FO 06) 26	06:50 17:55	16:38 (FO 07) 17:04 (FO 07) 26	06:02 18:29		06:10 20:05	05:36 20:37	05:31 20:53
28	07:29 17:15 59	12:43 (FO 06) 13:42 (FO 06) 24	06:49 17:56	16:38 (FO 07) 17:02 (FO 07) 24	06:00 18:30		06:09 20:06	05:36 20:38	05:32 20:53
29	07:28 17:17 55	12:45 (FO 06) 13:40 (FO 06)			06:58 19:31		06:07 20:07	05:35 20:39	05:32 20:53
30	07:28 17:18 52	12:47 (FO 06) 13:39 (FO 06)			06:57 19:32		06:06 20:08	05:34 20:39	05:33 20:53
31	07:27 17:19 49	12:48 (FO 06) 13:37 (FO 06)			06:55 19:33			05:34 20:40	
Potential sun hours	292	294	369	401	454	459			
Total, worst case	2296	450	77						

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

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

Calculation: Shadow Shadow receptor: AB - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (142)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December		
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36	81	12:07 (FO 06) 13:28 (FO 06)
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 17:01	07:21 16:36	82	12:07 (FO 06) 13:29 (FO 06)
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35	82	12:07 (FO 06) 13:29 (FO 06)
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 16:59	07:23 16:35	83	12:07 (FO 06) 13:30 (FO 06)
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35	82	12:08 (FO 06) 13:30 (FO 06)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 16:56	12:43 (FO 06) 12:48 (FO 06)	07:25 16:35	12:08 (FO 06) 13:31 (FO 06)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	12:32 (FO 06) 12:56 (FO 06)	07:26 16:34	12:08 (FO 06) 13:31 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 16:54	12:28 (FO 06) 13:01 (FO 06)	07:27 16:34	12:08 (FO 06) 13:32 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	17:19 (FO 07) 17:29 (FO 07)	06:53 16:53	39	12:25 (FO 06) 13:04 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	17:17 (FO 07) 17:32 (FO 07)	06:54 16:52	45	12:21 (FO 06) 13:06 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	17:14 (FO 07) 17:33 (FO 07)	06:55 16:51	49	12:20 (FO 06) 13:09 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	17:13 (FO 07) 17:34 (FO 07)	06:57 16:49	52	12:18 (FO 06) 13:10 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	17:11 (FO 07) 17:35 (FO 07)	06:58 16:48	56	12:15 (FO 06) 13:11 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	17:11 (FO 07) 17:36 (FO 07)	06:59 16:47	59	12:15 (FO 06) 13:14 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	17:10 (FO 07) 17:36 (FO 07)	07:01 16:46	62	12:13 (FO 06) 13:15 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	17:09 (FO 07) 17:36 (FO 07)	07:02 16:46	63	12:13 (FO 06) 13:16 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	17:08 (FO 07) 17:36 (FO 07)	07:03 16:45	66	12:11 (FO 06) 13:17 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	17:09 (FO 07) 17:36 (FO 07)	07:04 16:44	68	12:10 (FO 06) 13:18 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:09 (FO 07) 17:36 (FO 07)	07:06 16:43	70	12:10 (FO 06) 13:20 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:08 (FO 07) 17:35 (FO 07)	07:07 16:42	71	12:09 (FO 06) 13:20 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:09 (FO 07) 17:34 (FO 07)	07:08 16:41	73	12:08 (FO 06) 13:21 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:10 (FO 07) 17:34 (FO 07)	07:09 16:41	74	12:08 (FO 06) 13:22 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	17:10 (FO 07) 17:32 (FO 07)	07:11 16:40	75	12:08 (FO 06) 13:23 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	17:11 (FO 07) 17:31 (FO 07)	07:12 16:39	76	12:07 (FO 06) 13:23 (FO 06)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	16:13 (FO 07) 16:30 (FO 07)	07:13 16:39	77	12:07 (FO 06) 13:24 (FO 06)
26	05:53 20:38	06:26 19:56	07:00 19:01	07:35 17:11	16:15 (FO 07) 16:27 (FO 07)	07:14 16:38	78	12:07 (FO 06) 13:25 (FO 06)
27	05:54 20:37	06:27 19:54	07:01 18:59	07:36 17:10	16:15 (FO 07) 16:38 (FO 07)	07:15 16:38	78	12:07 (FO 06) 13:25 (FO 06)
28	05:55 20:36	06:28 19:53	07:02 18:58	07:38 17:08	16:16 (FO 07) 16:37 (FO 07)	07:16 16:37	79	12:07 (FO 06) 13:26 (FO 06)
29	05:56 20:35	06:29 19:51	07:03 18:56	07:39 17:07	16:17 (FO 07) 16:37 (FO 07)	07:18 16:37	79	12:07 (FO 06) 13:26 (FO 06)
30	05:57 20:34	06:30 19:49	07:04 18:54	07:40 17:05	16:18 (FO 07) 16:36 (FO 07)	07:19 16:36	81	12:06 (FO 06) 13:27 (FO 06)
31	05:58 20:33	06:31 19:47	07:05 18:53	07:41 17:04	16:19 (FO 07) 16:37 (FO 07)	07:20 16:36	81	12:06 (FO 06) 13:27 (FO 06)
Potential sun hours	465	432	376	343	293	281	84	16:43 12:18 (FO 06)
Total, worst case				396	1532	2595		

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

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

Calculation: Shadow Shadow receptor: AC - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (143)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June			
1	07:41	13:41 (FO 06)	07:25	06:47	06:53	06:04	05:33		
	16:44	28 14:09 (FO 06)	07:21	17:57	19:34	20:09	20:41		
2	07:41	13:43 (FO 06)	07:24	06:45	06:51	06:03	05:33		
	16:45	25 14:08 (FO 06)	17:22	17:59	19:36	20:10	20:42		
3	07:41	13:44 (FO 06)	07:23	06:44	06:50	06:02	05:32		
	16:46	24 14:08 (FO 06)	17:23	18:00	19:37	20:12	20:43		
4	07:41	13:46 (FO 06)	07:22	06:42	06:48	06:00	05:32		
	16:47	21 14:07 (FO 06)	17:25	18:01	19:38	20:13	20:43		
5	07:41	13:48 (FO 06)	07:21	06:40	06:46	18:30 (FO 08)	05:59	05:31	
	16:48	18 14:06 (FO 06)	17:26	18:02	19:39	2 18:32 (FO 08)	20:14	20:44	
6	07:41	13:51 (FO 06)	07:20	16:43 (FO 07)	06:39	06:44	18:25 (FO 08)	05:58	05:31
	16:49	14 14:05 (FO 06)	17:27	5 16:48 (FO 07)	18:04	19:40	7 18:32 (FO 08)	20:15	20:45
7	07:41	13:56 (FO 06)	07:19	16:40 (FO 07)	06:37	06:43	18:23 (FO 08)	05:56	05:31
	16:50	6 14:02 (FO 06)	17:29	12 16:52 (FO 07)	18:05	19:41	11 18:34 (FO 08)	20:16	20:45
8	07:41		07:18	16:39 (FO 07)	06:35	06:41	18:21 (FO 08)	05:55	05:30
	16:51		17:30	15 16:54 (FO 07)	18:06	19:43	13 18:34 (FO 08)	20:17	20:46
9	07:40		07:16	16:38 (FO 07)	06:34	06:39	18:19 (FO 08)	05:54	05:30
	16:52		17:31	18 16:56 (FO 07)	18:07	19:44	16 18:35 (FO 08)	20:18	20:47
10	07:40		07:15	16:36 (FO 07)	06:32	06:37	18:19 (FO 08)	05:53	05:30
	16:53		17:33	20 16:56 (FO 07)	18:08	19:45	17 18:36 (FO 08)	20:19	20:47
11	07:40		07:14	16:36 (FO 07)	06:30	06:36	18:17 (FO 08)	05:51	05:30
	16:54		17:34	22 16:58 (FO 07)	18:10	19:46	17 18:34 (FO 08)	20:21	20:48
12	07:40		07:12	16:36 (FO 07)	06:28	06:34	18:16 (FO 08)	05:50	05:30
	16:55		17:35	23 16:59 (FO 07)	18:11	19:47	15 18:31 (FO 08)	20:22	20:48
13	07:39		07:11	16:35 (FO 07)	06:27	06:32	18:16 (FO 08)	05:49	05:29
	16:57		17:37	23 16:58 (FO 07)	18:12	19:48	14 18:30 (FO 08)	20:23	20:49
14	07:39		07:10	16:35 (FO 07)	06:25	06:31	18:15 (FO 08)	05:48	05:29
	16:58		17:38	24 16:59 (FO 07)	18:13	19:50	13 18:28 (FO 08)	20:24	20:49
15	07:38		07:08	16:34 (FO 07)	06:23	06:29	18:15 (FO 08)	05:47	05:29
	16:59		17:39	24 16:58 (FO 07)	18:15	19:51	11 18:26 (FO 08)	20:25	20:50
16	07:38		07:07	16:35 (FO 07)	06:21	06:27	18:15 (FO 08)	05:46	05:29
	17:00		17:41	24 16:59 (FO 07)	18:16	19:52	9 18:24 (FO 08)	20:26	20:50
17	07:37		07:05	16:35 (FO 07)	06:20	06:26	18:15 (FO 08)	05:45	05:29
	17:01		17:42	23 16:58 (FO 07)	18:17	19:53	7 18:22 (FO 08)	20:27	20:51
18	07:37		07:04	16:36 (FO 07)	06:18	06:24	18:14 (FO 08)	05:44	05:29
	17:03		17:43	22 16:58 (FO 07)	18:18	19:54	6 18:20 (FO 08)	20:28	20:51
19	07:36		07:03	16:36 (FO 07)	06:16	06:23	18:15 (FO 08)	05:43	05:29
	17:04		17:45	21 16:57 (FO 07)	18:19	19:55	4 18:19 (FO 08)	20:29	20:51
20	07:36		07:01	16:37 (FO 07)	06:14	06:21	18:15 (FO 08)	05:42	05:30
	17:05		17:46	19 16:56 (FO 07)	18:20	19:57	2 18:17 (FO 08)	20:30	20:52
21	07:35		07:00	16:38 (FO 07)	06:13	06:19		05:41	05:30
	17:06		17:47	16 16:54 (FO 07)	18:22	19:58		20:31	20:52
22	07:34		06:58	16:41 (FO 07)	06:11	06:18		05:40	05:30
	17:07		17:48	11 16:52 (FO 07)	18:23	19:59		20:32	20:52
23	07:34		06:56	16:45 (FO 07)	06:09	06:16		05:39	05:30
	17:09		17:50	2 16:47 (FO 07)	18:24	20:00		20:33	20:52
24	07:33		06:55		06:07	06:15		05:39	05:30
	17:10		17:51		18:25	20:01		20:34	20:52
25	07:32		06:53		06:05	06:13		05:38	05:31
	17:11		17:52		18:26	20:02		20:35	20:53
26	07:31		06:52		06:04	06:12		05:37	05:31
	17:13		17:54		18:27	20:03		20:36	20:53
27	07:30		06:50		06:02	06:10		05:36	05:31
	17:14		17:55		18:29	20:05		20:37	20:53
28	07:29		06:49		06:00	06:09		05:36	05:32
	17:15		17:56		18:30	20:06		20:38	20:53
29	07:28				06:58	06:07		05:35	05:32
	17:17				19:31	20:07		20:39	20:53
30	07:28				06:57	06:06		05:34	05:33
	17:18				19:32	20:08		20:39	20:53
31	07:27				06:55			05:34	
	17:19				19:33			20:40	
Potential sun hours	292		294		369	401		454	459
Total, worst case	136		324			164			

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

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

Calculation: Shadow Shadow receptor: AC - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (143)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December	
1	05:33 20:52	05:59 20:32	06:32 19:46	18:16 (FO 08) 18:33 (FO 08)	07:05 17:03	06:43 16:06 (FO 07)	07:20 16:36
2	05:34 20:52	06:00 20:30	06:34 19:44	18:17 (FO 08) 18:34 (FO 08)	07:07 18:50	06:44 17:01	07:21 16:36
3	05:34 20:52	06:01 20:29	06:35 19:42	18:17 (FO 08) 18:33 (FO 08)	07:08 18:49	06:45 17:00	07:22 16:35
4	05:35 20:52	06:02 20:28	06:36 19:41	18:18 (FO 08) 18:31 (FO 08)	07:09 18:47	06:46 16:59	07:23 16:35
5	05:35 20:52	06:03 20:27	06:37 19:39	18:19 (FO 08) 18:30 (FO 08)	07:10 18:45	06:48 16:57	07:24 16:35
6	05:36 20:51	06:04 20:26	06:38 19:37	18:21 (FO 08) 18:28 (FO 08)	07:11 18:43	06:49 16:56	07:25 16:35
7	05:37 20:51	06:05 20:24	06:39 19:35	18:25 (FO 08) 18:27 (FO 08)	07:12 18:42	06:50 16:55	07:26 16:34
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	16:52 16:54	07:27 16:34	13:34 (FO 06) 13:55 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	06:53 16:53	07:28 16:34	13:34 (FO 06) 13:57 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	06:54 16:52	07:29 16:34	13:33 (FO 06) 13:58 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 16:50	07:30 16:34	13:33 (FO 06) 14:00 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	07:31 16:34	14:00 (FO 06) 14:00 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	06:58 16:48	07:31 16:35	14:00 (FO 06) 14:01 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	06:59 16:47	07:32 16:35	14:01 (FO 06) 14:02 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	07:01 16:46	07:33 16:35	14:02 (FO 06) 14:04 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	07:02 16:46	07:34 16:35	14:04 (FO 06) 14:04 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	07:03 16:45	07:34 16:35	14:04 (FO 06) 14:05 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	07:04 16:44	07:35 16:36	14:05 (FO 06) 14:06 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:14 (FO 07) 17:21 (FO 07)	07:06 16:43	14:06 (FO 06) 14:06 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:11 (FO 07) 17:24 (FO 07)	07:07 16:42	14:07 (FO 06) 14:07 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:08 (FO 07) 17:25 (FO 07)	07:08 16:41	14:07 (FO 06) 14:07 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:08 (FO 07) 17:27 (FO 07)	07:09 16:41	14:07 (FO 06) 14:08 (FO 06)
23	05:50 20:41	06:23 20:01	18:20 (FO 08) 18:22 (FO 08)	06:56 19:07	07:31 18:15	17:06 (FO 07) 17:27 (FO 07)	14:08 (FO 06) 14:08 (FO 06)
24	05:51 20:40	06:24 19:59	18:19 (FO 08) 18:23 (FO 08)	06:58 19:05	07:33 18:14	17:05 (FO 07) 17:28 (FO 07)	14:09 (FO 06) 14:09 (FO 06)
25	05:52 20:39	06:25 19:57	18:18 (FO 08) 18:24 (FO 08)	06:59 19:03	06:34 17:12	16:05 (FO 07) 16:29 (FO 07)	14:09 (FO 06) 14:09 (FO 06)
26	05:53 20:38	06:26 19:56	18:17 (FO 08) 18:25 (FO 08)	07:00 19:01	06:35 17:11	16:05 (FO 07) 16:28 (FO 07)	14:09 (FO 06) 14:09 (FO 06)
27	05:54 20:37	06:27 19:54	18:17 (FO 08) 18:27 (FO 08)	07:01 18:59	06:36 17:10	16:04 (FO 07) 16:28 (FO 07)	14:09 (FO 06) 14:10 (FO 06)
28	05:55 20:36	06:28 19:53	18:17 (FO 08) 18:28 (FO 08)	07:02 18:58	06:38 17:08	16:05 (FO 07) 16:29 (FO 07)	14:10 (FO 06) 14:10 (FO 06)
29	05:56 20:35	06:29 19:51	18:16 (FO 08) 18:29 (FO 08)	07:03 18:56	06:39 17:07	16:04 (FO 07) 16:28 (FO 07)	14:10 (FO 06) 14:09 (FO 06)
30	05:57 20:34	06:30 19:49	18:16 (FO 08) 18:30 (FO 08)	07:04 18:54	06:40 17:05	16:04 (FO 07) 16:27 (FO 07)	14:09 (FO 06) 14:09 (FO 06)
31	05:58 20:33	06:31 19:47	18:16 (FO 08) 18:31 (FO 08)	07:04 18:54	06:41 17:04	16:06 (FO 07) 16:27 (FO 07)	14:09 (FO 06) 14:09 (FO 06)
Potential sun hours	465	432	376	343	293	281	281
Total, worst case		83		83	263	67	786

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

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

Calculation: Shadow Shadow receptor: AD - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (144)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January		February		March	April	May	June
1	07:41	13:42 (FO 06)	07:25		06:47	06:53	06:04	05:33
	16:44	43 14:25 (FO 06)	17:21		17:57	19:34	20:09	20:41
2	07:41	13:42 (FO 06)	07:24		06:45	06:51	06:03	05:33
	16:45	43 14:25 (FO 06)	17:22		17:59	19:36	20:10	20:42
3	07:41	13:44 (FO 06)	07:23		06:44	06:50	06:02	05:32
	16:46	41 14:25 (FO 06)	17:23		18:00	19:37	20:12	20:43
4	07:41	13:45 (FO 06)	07:22		06:42	06:48	06:00	05:32
	16:47	40 14:25 (FO 06)	17:25		18:01	19:38	20:13	20:43
5	07:41	13:46 (FO 06)	07:21		06:40	06:46	05:59	05:31
	16:48	39 14:25 (FO 06)	17:26		18:02	19:39	20:14	20:44
6	07:41	13:47 (FO 06)	07:20		06:39	06:44	05:58	05:31
	16:49	38 14:25 (FO 06)	17:27		18:04	19:40	20:15	20:45
7	07:41	13:49 (FO 06)	07:19		06:37	06:43	18:33 (FO 08)	05:56
	16:50	36 14:25 (FO 06)	17:29		18:05	19:41	2 18:35 (FO 08)	05:56
8	07:41	13:50 (FO 06)	07:18		06:35	06:41	18:29 (FO 08)	05:55
	16:51	34 14:24 (FO 06)	17:30	2 16:48 (FO 07)	18:06	19:43	7 18:36 (FO 08)	05:55
9	07:40	13:51 (FO 06)	07:16		06:34	06:39	18:26 (FO 08)	05:54
	16:52	32 14:23 (FO 06)	17:31	11 16:55 (FO 07)	18:07	19:44	10 18:36 (FO 08)	05:54
10	07:40	13:53 (FO 06)	07:15		06:32	06:37	18:25 (FO 08)	05:53
	16:53	30 14:23 (FO 06)	17:33	15 16:57 (FO 07)	18:08	19:45	11 18:36 (FO 08)	05:53
11	07:40	13:55 (FO 06)	07:14		06:30	06:36	18:23 (FO 08)	05:51
	16:54	27 14:22 (FO 06)	17:34	18 16:59 (FO 07)	18:10	19:46	11 18:34 (FO 08)	05:51
12	07:40	13:57 (FO 06)	07:12		06:28	06:34	18:21 (FO 08)	05:50
	16:55	23 14:20 (FO 06)	17:35	20 17:00 (FO 07)	18:11	19:47	10 18:31 (FO 08)	05:50
13	07:39	14:00 (FO 06)	07:11		06:27	06:32	18:21 (FO 08)	05:49
	16:57	19 14:19 (FO 06)	17:37	21 17:00 (FO 07)	18:12	19:48	9 18:30 (FO 08)	05:49
14	07:39	14:03 (FO 06)	07:10		06:25	06:31	18:20 (FO 08)	05:48
	16:58	13 14:16 (FO 06)	17:38	22 17:01 (FO 07)	18:13	19:50	8 18:28 (FO 08)	05:48
15	07:38		07:08		06:23	06:29	18:19 (FO 08)	05:47
	16:59		17:39	23 17:01 (FO 07)	18:15	19:51	7 18:26 (FO 08)	05:47
16	07:38		07:07		06:21	06:27	18:19 (FO 08)	05:46
	17:00		17:41	24 17:02 (FO 07)	18:16	19:52	5 18:24 (FO 08)	05:46
17	07:37		07:05		06:20	06:26	18:18 (FO 08)	05:45
	17:01		17:42	24 17:01 (FO 07)	18:17	19:53	4 18:22 (FO 08)	05:45
18	07:37		07:04		06:18	06:24	18:17 (FO 08)	05:44
	17:03		17:43	23 17:01 (FO 07)	18:18	19:54	3 18:20 (FO 08)	05:44
19	07:36		07:03		06:16	06:23	18:18 (FO 08)	05:43
	17:04		17:45	23 17:01 (FO 07)	18:19	19:55	1 18:19 (FO 08)	05:43
20	07:36		07:01		06:14	06:21		05:42
	17:05		17:46	21 17:00 (FO 07)	18:20	19:57		20:30
21	07:35		07:00		06:13	06:19		05:41
	17:06		17:47	20 16:59 (FO 07)	18:22	19:58		20:31
22	07:34		06:58		06:11	06:18		05:40
	17:07		17:48	18 16:59 (FO 07)	18:23	19:59		20:32
23	07:34		06:56		06:09	06:16		05:39
	17:09		17:50	15 16:57 (FO 07)	18:24	20:00		20:33
24	07:33		06:55		06:07	06:15		05:39
	17:10		17:51	11 16:55 (FO 07)	18:25	20:01		20:34
25	07:32		06:53		06:05	06:13		05:38
	17:11		17:52		18:26	20:02		20:35
26	07:31		06:52		06:04	06:12		05:37
	17:13		17:54		18:27	20:03		20:36
27	07:30		06:50		06:02	06:10		05:36
	17:14		17:55		18:29	20:05		20:37
28	07:29		06:49		06:00	06:09		05:36
	17:15		17:56		18:30	20:06		20:38
29	07:28				06:58	06:07		05:35
	17:17				19:31	20:07		20:39
30	07:28				06:57	06:06		05:34
	17:18				19:32	20:08		20:39
31	07:27				06:55			05:34
	17:19				19:33			20:40
Potential sun hours	292		294		369	401	454	459
Total, worst case	458		311			88		

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

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

Calculation: Shadow Shadow receptor: AD - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (144)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	05:33 20:52	05:59 20:32	06:32 19:46	18:22 (FO 08) 18:33 (FO 08)	07:05 18:52	06:43 17:03
2	05:34 20:52	06:00 20:30	06:34 19:44	18:23 (FO 08) 18:34 (FO 08)	07:07 18:50	16:12 (FO 07) 16:26 (FO 07)
3	05:34 20:52	06:01 20:29	06:35 19:42	18:24 (FO 08) 18:34 (FO 08)	07:08 18:49	16:14 (FO 07) 16:24 (FO 07)
4	05:35 20:52	06:02 20:28	06:36 19:41	18:26 (FO 08) 18:33 (FO 08)	07:09 18:47	07:20 16:36
5	05:35 20:52	06:03 20:27	06:37 19:39	18:29 (FO 08) 18:31 (FO 08)	07:10 18:45	07:21 16:36
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	07:11 18:38	07:22 16:35
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	07:12 18:37	07:23 16:35
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	07:13 18:36	07:24 16:34
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	07:15 18:35	07:25 16:34
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	07:16 18:34	07:26 16:34
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	07:17 18:33	07:27 16:34
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	07:18 18:31	07:28 16:34
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	07:19 18:30	07:29 16:34
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	07:20 18:28	07:30 16:34
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	07:22 18:26	07:31 16:34
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	07:23 18:25	07:32 16:34
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	07:24 18:23	07:33 16:34
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	07:25 18:21	07:34 16:34
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	07:26 18:20	07:35 16:34
20	05:47 20:43	06:19 20:05	06:53 19:12	07:27 18:20	07:27 18:18	07:36 16:34
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	07:29 18:17	07:37 16:34
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	07:30 18:15	07:38 16:34
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	07:31 18:13	07:39 16:34
24	05:51 20:40	06:24 19:59	18:22 (FO 08) 06:58 19:05	07:33 18:14	07:33 18:12	07:40 16:34
25	05:52 20:39	06:25 19:57	18:21 (FO 08) 06:59 19:03	07:34 18:14	07:34 18:12	07:41 16:34
26	05:53 20:38	06:26 19:56	18:24 (FO 08) 07:00 19:01	07:35 18:14	07:35 18:12	07:42 16:34
27	05:54 20:37	06:27 19:54	18:21 (FO 08) 07:01 18:59	07:36 18:14	07:36 18:12	07:43 16:34
28	05:55 20:36	06:28 19:53	18:27 (FO 08) 07:02 18:58	07:37 18:14	07:37 18:12	07:44 16:34
29	05:56 20:35	06:29 19:51	18:28 (FO 08) 07:03 18:56	07:38 18:14	07:38 18:12	07:45 16:34
30	05:57 20:34	06:30 19:49	18:29 (FO 08) 07:04 18:54	07:39 18:14	07:39 18:12	07:46 16:34
31	05:58 20:33	06:31 19:47	18:21 (FO 08) 07:04 18:54	07:40 18:14	07:40 18:12	07:47 16:34
Potential sun hours	465	432	376	343	293	281
Total, worst case		50	41	296	78	1320

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

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

Calculation: Shadow Shadow receptor: AE - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (145)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:44 48	13:46 (FO 06) 14:34 (FO 06)	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	
2	07:41 16:45 47	13:47 (FO 06) 14:34 (FO 06)	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	
3	07:41 16:46 46	13:48 (FO 06) 14:34 (FO 06)	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:12	05:32 20:43	
4	07:41 16:47 45	13:49 (FO 06) 14:34 (FO 06)	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	
5	07:41 16:48 44	13:50 (FO 06) 14:34 (FO 06)	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44	
6	07:41 16:49 43	13:51 (FO 06) 14:34 (FO 06)	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45	
7	07:41 16:50 42	13:52 (FO 06) 14:34 (FO 06)	07:19 17:29	06:37 18:05	06:43 19:41	18:35 (FO 08) 20:16	05:31 20:45	
8	07:41 16:51 40	13:54 (FO 06) 14:34 (FO 06)	07:18 17:30	06:35 18:06	06:41 19:43	18:30 (FO 08) 20:17	05:30 20:46	
9	07:40 16:52 39	13:54 (FO 06) 14:33 (FO 06)	07:16 17:31	16:49 (FO 07) 16:53 (FO 07)	06:34 18:07	18:27 (FO 08) 18:37 (FO 08)	05:54 20:18	05:30 20:47
10	07:40 16:53 37	13:56 (FO 06) 14:33 (FO 06)	07:15 17:33	16:45 (FO 07) 16:56 (FO 07)	06:32 18:08	18:26 (FO 08) 18:36 (FO 08)	05:53 20:19	05:30 20:47
11	07:40 16:54 35	13:58 (FO 06) 14:33 (FO 06)	07:14 17:34	16:43 (FO 07) 16:59 (FO 07)	06:30 18:10	18:24 (FO 08) 18:34 (FO 08)	05:51 20:21	05:30 20:48
12	07:40 16:55 33	13:59 (FO 06) 14:32 (FO 06)	07:12 17:35	16:42 (FO 07) 17:00 (FO 07)	06:28 18:11	18:22 (FO 08) 18:31 (FO 08)	05:50 20:22	05:30 20:48
13	07:39 16:57 30	14:01 (FO 06) 14:31 (FO 06)	07:11 17:37	16:41 (FO 07) 17:01 (FO 07)	06:27 18:12	18:22 (FO 08) 18:30 (FO 08)	05:49 20:23	05:29 20:49
14	07:39 16:58 27	14:03 (FO 06) 14:30 (FO 06)	07:10 17:38	16:40 (FO 07) 17:02 (FO 07)	06:25 18:13	18:21 (FO 08) 18:28 (FO 08)	05:48 20:24	05:29 20:49
15	07:38 16:59 24	14:05 (FO 06) 14:29 (FO 06)	07:08 17:39	16:39 (FO 07) 17:02 (FO 07)	06:23 18:15	18:20 (FO 08) 18:26 (FO 08)	05:47 20:25	05:29 20:50
16	07:38 17:00 19	14:08 (FO 06) 14:27 (FO 06)	07:07 17:41	16:39 (FO 07) 17:03 (FO 07)	06:21 18:16	18:20 (FO 08) 18:24 (FO 08)	05:46 20:26	05:29 20:50
17	07:37 17:01 11	14:12 (FO 06) 14:23 (FO 06)	07:05 17:42	16:39 (FO 07) 17:02 (FO 07)	06:20 18:17	18:19 (FO 08) 18:22 (FO 08)	05:45 20:27	05:29 20:51
18	07:37 17:02	07:04 17:43	24	16:39 (FO 07) 17:03 (FO 07)	06:18 18:18	18:18 (FO 08) 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04	07:03 17:45	23	16:39 (FO 07) 17:02 (FO 07)	06:16 18:19	06:23 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05	07:01 17:46	22	16:40 (FO 07) 17:02 (FO 07)	06:14 18:20	06:21 19:57	05:42 20:30	05:30 20:52
21	07:35 17:06	07:00 17:47	21	16:40 (FO 07) 17:01 (FO 07)	06:13 18:22	06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 17:07	06:58 17:48	19	16:41 (FO 07) 17:00 (FO 07)	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52
23	07:34 17:09	06:56 17:50	17	16:42 (FO 07) 16:59 (FO 07)	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10	06:55 17:51	13	16:44 (FO 07) 16:57 (FO 07)	06:07 18:25	06:15 20:01	05:39 20:34	05:30 20:52
25	07:32 17:11	06:53 17:52	7	16:47 (FO 07) 16:54 (FO 07)	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:53
26	07:31 17:13	06:52 17:54		06:04 18:27	06:12 20:03		05:37 20:36	05:31 20:53
27	07:30 17:14	06:50 17:55		06:02 18:29	06:10 20:05		05:36 20:37	05:31 20:53
28	07:29 17:15	06:49 17:56		06:00 18:30	06:09 20:06		05:36 20:38	05:32 20:53
29	07:28 17:17			06:58 19:31	06:07 20:07		05:35 20:39	05:32 20:53
30	07:28 17:18			06:57 19:32	06:06 20:08		05:34 20:39	05:33 20:53
31	07:27 17:19			06:55 19:33			05:34 20:40	
Potential sun hours	292	294	369	401	454	459		
Total, worst case	610	307		77				

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

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

Calculation: Shadow Shadow receptor: AE - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (145)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December			
1	05:33 20:52	05:59 20:32	06:32 19:46	18:23 (FO 08) 18:33 (FO 08)	07:05 18:52	06:43 17:03	16:15 (FO 07) 16:26 (FO 07)	07:20 16:36	13:40 (FO 06) 14:15 (FO 06)
2	05:34 20:52	06:00 20:30	06:34 19:44	18:24 (FO 08) 18:34 (FO 08)	07:07 18:50	06:44 17:01	16:26 (FO 07) 16:36	07:21 16:36	13:39 (FO 06) 14:16 (FO 06)
3	05:34 20:52	06:01 20:29	06:35 19:42	18:25 (FO 08) 18:35 (FO 08)	07:08 18:49	06:45 17:00	16:35 16:35	07:22 16:35	13:39 (FO 06) 14:17 (FO 06)
4	05:35 20:52	06:02 20:28	06:36 19:41	18:27 (FO 08) 18:34 (FO 08)	07:09 18:47	06:46 16:59	16:35 16:35	07:23 16:35	13:38 (FO 06) 14:18 (FO 06)
5	05:35 20:52	06:03 20:27	06:37 19:39	18:31 (FO 08) 18:32 (FO 08)	07:10 18:45	06:48 16:57	16:35 16:35	07:24 16:35	13:38 (FO 06) 14:19 (FO 06)
6	05:36 20:51	06:04 20:26	06:38 19:37	18:33 (FO 08) 18:33 (FO 08)	07:11 18:43	06:49 16:56	16:35 16:35	07:25 16:35	13:37 (FO 06) 14:20 (FO 06)
7	05:37 20:51	06:05 20:24	06:39 19:35	18:35 (FO 08) 18:35 (FO 08)	07:12 18:42	06:50 16:55	16:35 16:35	07:26 16:34	13:37 (FO 06) 14:21 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	18:37 (FO 08) 18:40 (FO 08)	07:13 18:40	06:52 16:54	16:34 16:34	07:27 16:34	13:37 (FO 06) 14:22 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	18:38 (FO 08) 18:38 (FO 08)	07:15 18:38	06:53 16:53	16:34 16:34	07:28 16:34	13:37 (FO 06) 14:23 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	18:39 (FO 08) 18:37 (FO 08)	07:16 18:37	06:54 16:52	16:34 16:34	07:29 16:34	13:37 (FO 06) 14:24 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	18:39 (FO 08) 18:35 (FO 08)	07:17 18:35	06:55 16:50	16:34 16:34	07:30 16:34	13:37 (FO 06) 14:25 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	18:38 (FO 08) 18:33 (FO 08)	07:18 18:33	06:57 16:49	16:34 16:34	07:31 16:34	13:36 (FO 06) 14:24 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	18:37 (FO 08) 18:31 (FO 08)	07:19 18:31	06:58 16:48	16:34 16:35	07:31 16:35	13:37 (FO 06) 14:25 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	18:36 (FO 08) 18:30 (FO 08)	07:20 18:30	06:59 16:47	16:34 16:35	07:32 16:35	13:37 (FO 06) 14:26 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	18:35 (FO 08) 18:28 (FO 08)	07:22 18:28	07:01 16:46	16:34 16:35	07:33 16:35	13:38 (FO 06) 14:27 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	18:34 (FO 08) 18:27 (FO 08)	07:23 18:27	07:02 16:46	16:34 16:35	07:34 16:35	13:37 (FO 06) 14:27 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	18:33 (FO 08) 18:25 (FO 08)	07:24 18:25	07:03 16:45	16:34 16:35	07:34 16:35	13:38 (FO 06) 14:28 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	18:32 (FO 08) 18:23 (FO 08)	07:25 18:23	17:17 (FO 07) 17:15 (FO 07)	16:34 16:44	07:35 16:36	14:28 (FO 06) 14:29 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	18:22 (FO 08) 18:22 (FO 08)	07:26 18:22	17:13 (FO 07) 17:31 (FO 07)	16:44 16:43	07:36 16:36	13:38 (FO 06) 14:29 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	18:21 (FO 08) 18:20 (FO 08)	07:28 18:20	17:11 (FO 07) 17:31 (FO 07)	16:43 16:42	07:37 16:36	13:39 (FO 06) 14:30 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	18:20 (FO 08) 18:19 (FO 08)	07:29 18:19	17:10 (FO 07) 17:32 (FO 07)	16:42 16:41	07:38 16:37	13:39 (FO 06) 14:30 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	18:19 (FO 08) 18:17 (FO 08)	07:30 18:17	17:10 (FO 07) 17:33 (FO 07)	16:41 16:41	07:39 16:37	13:40 (FO 06) 14:31 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	18:18 (FO 08) 18:15 (FO 08)	07:31 18:15	17:09 (FO 07) 17:33 (FO 07)	16:41 16:40	07:38 16:38	13:40 (FO 06) 14:31 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	18:17 (FO 08) 18:14 (FO 08)	07:33 18:14	17:09 (FO 07) 17:32 (FO 07)	16:40 16:39	07:38 16:38	13:41 (FO 06) 14:32 (FO 06)
25	05:52 20:39	06:25 19:57	18:22 (FO 08) 19:03	18:22 (FO 08) 18:24 (FO 08)	06:59 19:03	07:13 16:33 (FO 07)	13:50 (FO 06) 14:01 (FO 06)	07:39 16:39	13:42 (FO 06) 14:32 (FO 06)
26	05:53 20:38	06:26 19:56	18:22 (FO 08) 19:01	18:22 (FO 08) 18:25 (FO 08)	07:00 19:01	07:14 16:09 (FO 07)	13:47 (FO 06) 14:05 (FO 06)	07:39 16:40	13:42 (FO 06) 14:32 (FO 06)
27	05:54 20:37	06:27 19:54	18:22 (FO 08) 18:59	18:22 (FO 08) 18:27 (FO 08)	07:01 18:59	07:15 16:09 (FO 07)	13:45 (FO 06) 14:08 (FO 06)	07:40 16:40	13:43 (FO 06) 14:33 (FO 06)
28	05:55 20:36	06:28 19:53	18:22 (FO 08) 18:58	18:22 (FO 08) 18:28 (FO 08)	07:02 18:58	07:16 16:10 (FO 07)	13:43 (FO 06) 14:10 (FO 06)	07:40 16:41	13:44 (FO 06) 14:33 (FO 06)
29	05:56 20:35	06:29 19:51	18:22 (FO 08) 18:56	18:22 (FO 08) 18:29 (FO 08)	07:03 18:56	07:18 16:30 (FO 07)	13:41 (FO 06) 14:11 (FO 06)	07:40 16:42	13:44 (FO 06) 14:33 (FO 06)
30	05:57 20:34	06:30 19:49	18:22 (FO 08) 18:54	18:22 (FO 08) 18:30 (FO 08)	07:04 18:54	07:19 16:11 (FO 07)	13:40 (FO 06) 14:13 (FO 06)	07:40 16:43	13:45 (FO 06) 14:33 (FO 06)
31	05:58 20:33	06:31 19:47	18:22 (FO 08) 18:31 (FO 08)	18:22 (FO 08) 18:31 (FO 08)	07:05 18:54	07:20 16:13 (FO 07)	13:40 (FO 06) 14:13 (FO 06)	07:41 16:43	13:45 (FO 06) 14:33 (FO 06)
Potential sun hours	465	432	376	343	293	281			
Total, worst case		40	38	297	153	1458			

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

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

Calculation: Shadow Shadow receptor: AF - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (146)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	
1	07:41 16:44 49	13:43 (FO 06) 14:32 (FO 06)	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45 48	13:44 (FO 06) 14:32 (FO 06)	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46 48	13:44 (FO 06) 14:32 (FO 06)	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:12	05:32 20:43
4	07:41 16:47 48	13:45 (FO 06) 14:33 (FO 06)	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48 47	13:46 (FO 06) 14:33 (FO 06)	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49 45	13:48 (FO 06) 14:33 (FO 06)	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50 44	13:49 (FO 06) 14:33 (FO 06)	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45
8	07:41 16:51 43	13:50 (FO 06) 14:33 (FO 06)	07:18 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52 41	13:51 (FO 06) 14:32 (FO 06)	07:16 17:31	06:34 18:07	06:39 19:44	18:30 (FO 08) 20:18	05:54 20:47
10	07:40 16:53 40	13:52 (FO 06) 14:32 (FO 06)	07:15 17:33	16:46 (FO 07) 18:08	06:32 19:45	18:28 (FO 08) 20:19	05:53 20:47
11	07:40 16:54 38	13:54 (FO 06) 14:32 (FO 06)	07:14 17:34	16:44 (FO 07) 18:10	06:30 19:46	18:26 (FO 08) 20:21	05:51 20:48
12	07:40 16:55 36	13:55 (FO 06) 14:31 (FO 06)	07:12 17:35	16:43 (FO 07) 18:11	06:28 19:47	18:24 (FO 08) 20:22	05:50 20:48
13	07:39 16:57 33	13:57 (FO 06) 14:30 (FO 06)	07:11 17:37	17:00 (FO 07) 18:12	06:27 19:48	18:24 (FO 08) 20:23	05:49 20:49
14	07:39 16:58 31	13:58 (FO 06) 14:29 (FO 06)	07:10 17:38	16:41 (FO 07) 18:13	06:25 19:50	18:22 (FO 08) 20:24	05:48 20:49
15	07:38 16:59 27	14:01 (FO 06) 14:28 (FO 06)	07:08 17:39	16:40 (FO 07) 18:15	06:23 19:51	18:21 (FO 08) 20:25	05:47 20:50
16	07:38 17:00 23	14:03 (FO 06) 14:26 (FO 06)	07:07 17:41	16:40 (FO 07) 18:16	06:21 19:52	18:21 (FO 08) 20:26	05:46 20:50
17	07:37 17:01 18	14:06 (FO 06) 14:24 (FO 06)	07:05 17:42	16:39 (FO 07) 18:17	06:20 19:53	18:20 (FO 08) 20:27	05:45 20:51
18	07:37 17:03 10	14:11 (FO 06) 14:21 (FO 06)	07:04 17:43	16:39 (FO 07) 18:18	06:18 19:54	18:19 (FO 08) 20:28	05:44 20:51
19	07:36 17:04	07:03 17:45	23	16:39 (FO 07) 17:02 (FO 07)	06:16 18:19	06:23 19:55	05:43 20:51
20	07:36 17:05	07:01 17:46	23	16:40 (FO 07) 17:03 (FO 07)	06:14 18:20	06:21 19:57	05:42 20:52
21	07:35 17:06	07:00 17:47	22	16:40 (FO 07) 17:02 (FO 07)	06:13 18:22	06:19 19:58	05:41 20:52
22	07:34 17:07	06:58 17:48	20	16:41 (FO 07) 17:01 (FO 07)	06:11 18:23	06:18 19:59	05:40 20:52
23	07:34 17:09	06:56 17:50	18	16:42 (FO 07) 17:00 (FO 07)	06:09 18:24	06:16 20:00	05:39 20:52
24	07:33 17:10	06:55 17:51	15	16:44 (FO 07) 16:59 (FO 07)	06:07 18:25	06:15 20:01	05:39 20:52
25	07:32 17:11	06:53 17:52	11	16:45 (FO 07) 16:56 (FO 07)	06:05 18:26	06:13 20:02	05:38 20:53
26	07:31 17:13	06:52 17:54		06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:53
27	07:30 17:14	06:50 17:55		06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:53
28	07:29 17:15	06:49 17:56		06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53
29	07:28 17:17			06:58 19:31	06:07 20:07	05:35 20:39	05:32 20:53
30	07:28 17:18			06:57 19:32	06:06 20:08	05:34 20:39	05:33 20:53
31	07:27 17:19			06:55 19:33		05:34 20:40	
Potential sun hours	292	294	369	401	454	459	
Total, worst case	669	307		53			

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

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

Calculation: Shadow Shadow receptor: AF - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (146)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December			
1	05:33 20:52	05:59 20:32	06:32 19:46	18:25 (FO 08) 18:33 (FO 08)	07:05 18:52	06:43 17:03	16:16 (FO 07) 16:25 (FO 07)	07:20 16:36	13:36 (FO 06) 14:14 (FO 06)
2	05:34 20:52	06:00 20:30	06:34 19:44	18:26 (FO 08) 18:34 (FO 08)	07:07 18:50	06:44 17:01	16:25 (FO 07) 16:36	07:21 16:36	13:35 (FO 06) 14:15 (FO 06)
3	05:34 20:52	06:01 20:29	06:35 19:42	18:28 (FO 08) 18:35 (FO 08)	07:08 18:49	06:45 17:00	16:35 16:59	07:22 16:35	13:35 (FO 06) 14:16 (FO 06)
4	05:35 20:52	06:02 20:28	06:36 19:41	18:32 (FO 08) 18:33 (FO 08)	07:09 18:47	06:46 16:59	16:35 16:59	07:23 16:35	13:34 (FO 06) 14:17 (FO 06)
5	05:35 20:52	06:03 20:27	06:37 19:39	18:33 (FO 08) 18:45	07:10 18:45	06:48 16:57	16:35 16:59	07:24 16:35	13:34 (FO 06) 14:18 (FO 06)
6	05:36 20:51	06:04 20:26	06:38 19:37	18:33 (FO 08) 18:43	07:11 18:43	06:49 16:56	16:35 16:56	07:25 16:35	13:34 (FO 06) 14:19 (FO 06)
7	05:37 20:51	06:05 20:24	06:39 19:35	18:34 (FO 08) 18:42	07:12 18:42	06:50 16:55	16:34 16:55	07:26 16:34	13:34 (FO 06) 14:20 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	18:34 (FO 08) 18:40	07:13 18:40	06:52 16:54	16:34 16:54	07:27 16:34	13:34 (FO 06) 14:21 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	18:35 (FO 08) 18:38	07:15 18:38	06:53 16:53	16:34 16:53	07:28 16:34	13:34 (FO 06) 14:21 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	18:35 (FO 08) 18:37	07:16 18:37	06:54 16:52	16:34 16:52	07:29 16:34	13:34 (FO 06) 14:22 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	18:36 (FO 08) 18:35	07:17 18:35	06:55 16:50	16:34 16:50	07:30 16:34	13:34 (FO 06) 14:23 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	18:36 (FO 08) 18:33	07:18 18:33	06:57 16:49	16:34 16:49	07:31 16:34	13:33 (FO 06) 14:23 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	18:37 (FO 08) 18:31	07:19 18:31	06:58 16:48	16:34 16:48	07:31 16:35	13:33 (FO 06) 14:24 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	18:37 (FO 08) 18:30	07:20 18:30	06:59 16:47	16:34 16:47	07:32 16:35	13:34 (FO 06) 14:25 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	18:38 (FO 08) 18:28	07:22 18:28	07:01 16:46	16:34 16:46	07:33 16:35	13:34 (FO 06) 14:26 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	18:39 (FO 08) 18:27	07:23 18:27	07:02 16:46	16:34 16:46	07:34 16:35	13:34 (FO 06) 14:26 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	18:40 (FO 08) 18:25	07:24 18:25	07:03 16:45	16:34 16:45	07:34 16:35	13:35 (FO 06) 14:26 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	18:41 (FO 08) 18:23	07:25 18:23	07:04 16:44	16:34 16:44	07:35 16:36	13:35 (FO 06) 14:27 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	18:42 (FO 08) 18:22	07:26 18:22	07:06 16:43	16:34 16:43	07:36 16:36	13:35 (FO 06) 14:27 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	18:43 (FO 08) 18:20	07:28 18:20	07:07 16:42	16:34 16:42	07:36 16:36	13:36 (FO 06) 14:28 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	18:44 (FO 08) 18:19	07:29 18:19	07:08 16:41	16:34 16:41	07:37 16:37	13:36 (FO 06) 14:28 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	18:45 (FO 08) 18:17	07:30 18:17	07:09 16:41	16:34 16:41	07:37 16:37	13:37 (FO 06) 14:29 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	18:46 (FO 08) 18:15	07:31 18:15	07:11 16:40	16:34 16:40	07:38 16:38	13:37 (FO 06) 14:29 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	18:47 (FO 08) 18:14	07:33 18:14	07:12 16:39	13:48 (FO 06) 13:58 (FO 06)	07:38 16:38	13:38 (FO 06) 14:30 (FO 06)
25	05:52 20:39	06:25 19:57	18:23 (FO 08) 18:24 (FO 08)	06:59 19:03	07:34 17:12	07:13 16:39	13:44 (FO 06) 14:02 (FO 06)	07:39 16:39	13:38 (FO 06) 14:30 (FO 06)
26	05:53 20:38	06:26 19:56	18:23 (FO 08) 18:25 (FO 08)	07:00 19:01	06:35 17:11	07:14 16:38	13:42 (FO 06) 14:05 (FO 06)	07:39 16:40	13:38 (FO 06) 14:30 (FO 06)
27	05:54 20:37	06:27 19:54	18:23 (FO 08) 18:27 (FO 08)	07:01 18:59	06:36 17:10	07:15 16:38	13:40 (FO 06) 14:07 (FO 06)	07:40 16:40	13:40 (FO 06) 14:31 (FO 06)
28	05:55 20:36	06:28 19:53	18:23 (FO 08) 18:28 (FO 08)	07:02 18:58	06:38 17:08	07:16 16:37	13:39 (FO 06) 14:09 (FO 06)	07:40 16:41	13:40 (FO 06) 14:32 (FO 06)
29	05:56 20:35	06:29 19:51	18:23 (FO 08) 18:29 (FO 08)	07:03 18:56	06:39 17:07	07:18 16:37	13:37 (FO 06) 14:10 (FO 06)	07:40 16:42	13:41 (FO 06) 14:32 (FO 06)
30	05:57 20:34	06:30 19:49	18:24 (FO 08) 18:30 (FO 08)	07:04 18:54	06:40 17:05	07:19 16:36	13:36 (FO 06) 14:12 (FO 06)	07:40 16:43	13:41 (FO 06) 14:32 (FO 06)
31	05:58 20:33	06:31 19:47	18:24 (FO 08) 18:31 (FO 08)	07:05 18:54	06:41 17:04	16:14 (FO 07) 16:28 (FO 07)	16:36 16:43	07:41 16:43	13:42 (FO 06) 14:32 (FO 06)
Potential sun hours	465	432	376	343	293	281			
Total, worst case		31	24	308	186	1518			

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

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

Calculation: Shadow Shadow receptor: AG - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (147)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June			
1	07:41 16:44	13:34 (FO 06) 14:16 (FO 06)	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41		
2	07:41 16:45	13:35 (FO 06) 14:16 (FO 06)	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42		
3	07:41 16:46	13:36 (FO 06) 14:16 (FO 06)	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:12	05:32 20:43		
4	07:41 16:47	13:37 (FO 06) 14:16 (FO 06)	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43		
5	07:41 16:48	13:39 (FO 06) 14:16 (FO 06)	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44		
6	07:41 16:49	13:40 (FO 06) 14:16 (FO 06)	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45		
7	07:41 16:50	13:42 (FO 06) 14:15 (FO 06)	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45		
8	07:41 16:51	13:44 (FO 06) 14:15 (FO 06)	07:18 17:30	16:45 (FO 07) 16:52 (FO 07)	06:35 18:06	06:41 19:43	18:33 (FO 08) 18:35 (FO 08)	05:55 20:17	05:30 20:46
9	07:40 16:52	13:45 (FO 06) 14:14 (FO 06)	07:16 17:31	16:43 (FO 07) 16:55 (FO 07)	06:34 18:07	06:39 19:44	18:28 (FO 08) 18:35 (FO 08)	05:54 20:18	05:30 20:47
10	07:40 16:53	13:47 (FO 06) 14:13 (FO 06)	07:15 17:33	16:40 (FO 07) 16:57 (FO 07)	06:32 18:08	06:37 19:45	18:26 (FO 08) 18:36 (FO 08)	05:53 20:19	05:30 20:47
11	07:40 16:54	13:50 (FO 06) 14:12 (FO 06)	07:14 17:34	16:39 (FO 07) 16:58 (FO 07)	06:30 18:10	06:36 19:46	18:24 (FO 08) 18:34 (FO 08)	05:51 20:21	05:30 20:48
12	07:40 16:55	13:52 (FO 06) 14:10 (FO 06)	07:12 17:35	16:39 (FO 07) 17:00 (FO 07)	06:28 18:11	06:34 19:47	18:22 (FO 08) 18:31 (FO 08)	05:50 20:22	05:30 20:48
13	07:39 16:57	13:56 (FO 06) 14:07 (FO 06)	07:11 17:37	16:38 (FO 07) 17:00 (FO 07)	06:27 18:12	06:32 19:48	18:22 (FO 08) 18:30 (FO 08)	05:49 20:23	05:29 20:49
14	07:39 16:58	14:07 (FO 06)	07:10 17:38	16:37 (FO 07) 17:01 (FO 07)	06:25 18:13	06:31 19:50	18:20 (FO 08) 18:28 (FO 08)	05:48 20:24	05:29 20:49
15	07:38 16:59	14:07 (FO 06)	07:08 17:39	16:37 (FO 07) 17:00 (FO 07)	06:23 18:15	06:29 19:51	18:19 (FO 08) 18:26 (FO 08)	05:47 20:25	05:29 20:50
16	07:38 17:00	14:07 (FO 06)	07:07 17:41	16:37 (FO 07) 17:01 (FO 07)	06:21 18:16	06:27 19:52	18:19 (FO 08) 18:24 (FO 08)	05:46 20:26	05:29 20:50
17	07:37 17:01	14:07 (FO 06)	07:05 17:42	16:36 (FO 07) 17:01 (FO 07)	06:20 18:17	06:26 19:53	18:18 (FO 08) 18:22 (FO 08)	05:45 20:27	05:29 20:51
18	07:37 17:03	14:07 (FO 06)	07:04 17:43	16:37 (FO 07) 17:01 (FO 07)	06:18 18:18	06:24 19:54	18:17 (FO 08) 18:20 (FO 08)	05:44 20:28	05:29 20:51
19	07:36 17:04	14:07 (FO 06)	07:03 17:45	16:37 (FO 07) 17:00 (FO 07)	06:16 18:19	06:23 19:55	18:18 (FO 08) 18:19 (FO 08)	05:43 20:29	05:29 20:51
20	07:36 17:05	14:07 (FO 06)	07:01 17:46	16:38 (FO 07) 17:00 (FO 07)	06:14 18:20	06:21 19:57	18:19 (FO 08)	05:42 20:30	05:30 20:52
21	07:35 17:06	14:07 (FO 06)	07:00 17:47	16:38 (FO 07) 16:59 (FO 07)	06:13 18:22	06:19 19:58	18:19 (FO 08)	05:41 20:31	05:30 20:52
22	07:34 17:08	14:07 (FO 06)	06:58 17:48	16:40 (FO 07) 16:58 (FO 07)	06:11 18:23	06:18 19:59	18:19 (FO 08)	05:40 20:32	05:30 20:52
23	07:34 17:09	14:07 (FO 06)	06:56 17:50	16:41 (FO 07) 16:56 (FO 07)	06:09 18:24	06:16 20:00	18:19 (FO 08)	05:39 20:33	05:30 20:52
24	07:33 17:10	14:07 (FO 06)	06:55 17:51	16:44 (FO 07) 16:54 (FO 07)	06:07 18:25	06:15 20:01	18:19 (FO 08)	05:39 20:34	05:30 20:52
25	07:32 17:11	14:07 (FO 06)	06:53 17:52	16:44 (FO 07)	06:05 18:26	06:13 20:02	18:19 (FO 08)	05:38 20:35	05:31 20:53
26	07:31 17:13	14:07 (FO 06)	06:52 17:54	16:44 (FO 07)	06:04 18:27	06:12 20:03	18:19 (FO 08)	05:37 20:36	05:31 20:53
27	07:30 17:14	14:07 (FO 06)	06:50 17:55	16:44 (FO 07)	06:02 18:29	06:10 20:05	18:19 (FO 08)	05:36 20:37	05:31 20:53
28	07:29 17:15	14:07 (FO 06)	06:49 17:56	16:44 (FO 07)	06:00 18:30	06:09 20:06	18:19 (FO 08)	05:36 20:38	05:32 20:53
29	07:28 17:17	14:07 (FO 06)	06:48 17:56	16:44 (FO 07)	06:00 18:30	06:09 20:06	18:19 (FO 08)	05:36 20:38	05:32 20:53
30	07:28 17:18	14:07 (FO 06)	06:48 17:56	16:44 (FO 07)	06:00 18:30	06:09 20:06	18:19 (FO 08)	05:36 20:38	05:32 20:53
31	07:27 17:19	14:07 (FO 06)	06:48 17:56	16:44 (FO 07)	06:00 18:30	06:09 20:06	18:19 (FO 08)	05:36 20:38	05:32 20:53
Potential sun hours	292		294	369	401	454	459		
Total, worst case	405		327		74				

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

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

Calculation: Shadow Shadow receptor: AG - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (147)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December
1	05:33 20:52	05:59 20:32	06:32 19:46	18:23 (FO 08) 18:33 (FO 08)	07:05 17:03	06:43 16:10 (FO 07)
2	05:34 20:52	06:00 20:30	06:34 19:44	18:24 (FO 08) 18:34 (FO 08)	07:07 18:50	16:26 (FO 07) 16:12 (FO 07)
3	05:34 20:52	06:01 20:29	06:35 19:42	18:26 (FO 08) 18:33 (FO 08)	07:08 18:49	16:16 (FO 07) 16:35
4	05:35 20:52	06:02 20:28	06:36 19:41	18:29 (FO 08) 18:32 (FO 08)	07:09 18:47	16:21 (FO 07) 16:35
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	16:35 13:59 (FO 06)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 16:56	16:35 14:00 (FO 06)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	16:35 14:02 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 16:54	16:34 14:03 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	06:53 16:53	16:34 14:04 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	06:54 16:52	16:34 14:05 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 16:50	16:34 14:06 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	16:34 14:07 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	06:58 16:48	16:34 14:07 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	06:59 16:47	16:34 14:08 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	07:01 16:46	16:34 14:09 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	07:02 16:46	16:34 14:10 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	17:18 (FO 07) 17:22 (FO 07)	16:34 16:45
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	17:14 (FO 07) 17:26 (FO 07)	16:34 16:44
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:12 (FO 07) 17:28 (FO 07)	16:34 16:43
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:10 (FO 07) 17:29 (FO 07)	16:34 16:42
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:08 (FO 07) 17:29 (FO 07)	16:34 16:41
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:08 (FO 07) 17:31 (FO 07)	16:34 16:41
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	17:07 (FO 07) 17:31 (FO 07)	16:34 16:40
24	05:51 20:40	06:24 19:59	18:21 (FO 08) 18:23 (FO 08)	06:58 19:05	17:06 (FO 07) 17:30 (FO 07)	16:34 16:39
25	05:52 20:39	06:25 19:57	18:21 (FO 08) 18:24 (FO 08)	06:59 19:03	16:07 (FO 07) 16:31 (FO 07)	16:34 16:39
26	05:53 20:38	06:26 19:56	18:21 (FO 08) 18:25 (FO 08)	07:00 19:01	16:07 (FO 07) 16:31 (FO 07)	16:34 16:38
27	05:54 20:37	06:27 19:54	18:21 (FO 08) 18:27 (FO 08)	07:01 18:59	16:06 (FO 07) 16:30 (FO 07)	16:34 16:38
28	05:55 20:36	06:28 19:53	18:21 (FO 08) 18:28 (FO 08)	07:02 18:58	16:07 (FO 07) 16:30 (FO 07)	16:34 16:37
29	05:56 20:35	06:29 19:51	18:21 (FO 08) 18:29 (FO 08)	07:03 18:56	16:07 (FO 07) 16:29 (FO 07)	16:34 16:37
30	05:57 20:34	06:30 19:49	18:22 (FO 08) 18:30 (FO 08)	07:04 18:54	16:08 (FO 07) 16:28 (FO 07)	13:37 (FO 06) 13:47 (FO 06)
31	05:58 20:33	06:31 19:47	18:22 (FO 08) 18:31 (FO 08)	07:05 17:04	16:09 (FO 07) 16:28 (FO 07)	16:43 16:43
Potential sun hours	465	432	376	343	293	281
Total, worst case		47	30	299	60	1276

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

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

Calculation: Shadow Shadow receptor: AH - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (148)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June			
1	07:41 16:44 46	13:36 (FO 06) 14:22 (FO 06)	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41		
2	07:41 16:45 45	13:37 (FO 06) 14:22 (FO 06)	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42		
3	07:41 16:46 45	13:37 (FO 06) 14:22 (FO 06)	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:12	05:32 20:43		
4	07:41 16:47 43	13:39 (FO 06) 14:22 (FO 06)	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43		
5	07:41 16:48 42	13:40 (FO 06) 14:22 (FO 06)	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44		
6	07:41 16:49 41	13:41 (FO 06) 14:22 (FO 06)	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45		
7	07:41 16:50 39	13:43 (FO 06) 14:22 (FO 06)	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45		
8	07:41 16:51 38	13:44 (FO 06) 14:22 (FO 06)	07:18 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46		
9	07:40 16:52 35	13:45 (FO 06) 14:20 (FO 06)	07:16 17:31	16:46 (FO 07) 16:54 (FO 07)	06:34 18:07	06:39 19:44	18:31 (FO 08) 18:36 (FO 08)	05:54 20:18	05:30 20:47
10	07:40 16:53 33	13:47 (FO 06) 14:20 (FO 06)	07:15 17:33	16:43 (FO 07) 16:56 (FO 07)	06:32 18:08	06:37 19:45	18:29 (FO 08) 18:36 (FO 08)	05:53 20:19	05:30 20:47
11	07:40 16:54 31	13:49 (FO 06) 14:20 (FO 06)	07:14 17:34	16:41 (FO 07) 16:58 (FO 07)	06:30 18:10	06:36 19:46	18:26 (FO 08) 18:34 (FO 08)	05:51 20:21	05:30 20:48
12	07:40 16:55 28	13:50 (FO 06) 14:18 (FO 06)	07:12 17:35	16:41 (FO 07) 17:00 (FO 07)	06:28 18:11	06:34 19:47	18:24 (FO 08) 18:31 (FO 08)	05:50 20:22	05:30 20:48
13	07:39 16:57 24	13:53 (FO 06) 14:17 (FO 06)	07:11 17:37	16:39 (FO 07) 17:00 (FO 07)	06:27 18:12	06:32 19:48	18:23 (FO 08) 18:30 (FO 08)	05:49 20:23	05:29 20:49
14	07:39 16:58 20	13:55 (FO 06) 14:15 (FO 06)	07:10 17:38	16:39 (FO 07) 17:01 (FO 07)	06:25 18:13	06:31 19:50	18:22 (FO 08) 18:28 (FO 08)	05:48 20:24	05:29 20:49
15	07:38 16:59 14	13:59 (FO 06) 14:13 (FO 06)	07:08 17:39	16:38 (FO 07) 17:01 (FO 07)	06:23 18:15	06:29 19:51	18:20 (FO 08) 18:26 (FO 08)	05:47 20:25	05:29 20:50
16	07:38 17:00	07:07 17:41	07:07 17:41	16:38 (FO 07) 17:02 (FO 07)	06:21 18:16	06:27 19:52	18:20 (FO 08) 18:24 (FO 08)	05:46 20:26	05:29 20:50
17	07:37 17:01	07:05 17:42	07:05 17:42	16:37 (FO 07) 17:02 (FO 07)	06:20 18:17	06:26 19:53	18:19 (FO 08) 18:22 (FO 08)	05:45 20:27	05:29 20:51
18	07:37 17:03	07:04 17:43	07:04 17:43	16:38 (FO 07) 17:02 (FO 07)	06:18 18:18	06:24 19:54	18:19 (FO 08) 18:20 (FO 08)	05:44 20:28	05:29 20:51
19	07:36 17:04	07:03 17:45	07:03 17:45	16:38 (FO 07) 17:01 (FO 07)	06:16 18:19	06:23 19:55	05:43 20:29	05:29 20:51	
20	07:36 17:05	07:01 17:46	07:01 17:46	16:39 (FO 07) 17:01 (FO 07)	06:14 18:20	06:21 19:57	05:42 20:30	05:30 20:52	
21	07:35 17:06	07:00 17:47	07:00 17:47	16:39 (FO 07) 17:00 (FO 07)	06:13 18:22	06:19 19:58	05:41 20:31	05:30 20:52	
22	07:34 17:08	06:58 17:48	06:58 17:48	16:40 (FO 07) 17:00 (FO 07)	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	
23	07:34 17:09	06:56 17:50	06:56 17:50	16:41 (FO 07) 16:58 (FO 07)	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	
24	07:33 17:10	06:55 17:51	06:55 17:51	16:43 (FO 07) 16:57 (FO 07)	06:07 18:25	06:15 20:01	05:39 20:34	05:30 20:52	
25	07:32 17:11	06:53 17:52	06:53 17:52	16:46 (FO 07) 16:53 (FO 07)	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:53	
26	07:31 17:13	06:52 17:54	06:52 17:54	06:04 18:27	06:12 20:03	06:12 20:03	05:37 20:36	05:31 20:53	
27	07:30 17:14	06:50 17:55	06:50 17:55	06:02 18:29	06:10 20:05	06:10 20:05	05:36 20:37	05:31 20:53	
28	07:29 17:15	06:49 17:56	06:49 17:56	06:00 18:30	06:09 20:06	06:09 20:06	05:36 20:38	05:32 20:53	
29	07:28 17:17			06:58 19:31	06:07 20:07	06:07 20:07	05:35 20:39	05:32 20:53	
30	07:28 17:18			06:57 19:32	06:06 20:08	06:06 20:08	05:34 20:39	05:33 20:53	
31	07:27 17:19			06:55 19:33			05:34 20:40		
Potential sun hours	292	294	369	401	454	459			
Total, worst case	524	320		54					

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

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

Calculation: Shadow Shadow receptor: AH - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (148)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December	
1	05:33 20:52	05:59 20:32	06:32 19:46	18:25 (FO 08) 18:52	07:05 17:03	06:43 16:13 (FO 07)	07:20 13:31 (FO 06)
2	05:34 20:52	06:00 20:30	06:34 19:44	18:27 (FO 08) 18:50	07:07 18:50	06:44 17:01	13 16:26 (FO 07) 16:36 31 14:02 (FO 06)
3	05:34 20:52	06:01 20:29	06:35 19:42	18:29 (FO 08) 18:49	07:08 18:49	06:45 17:00	8 16:23 (FO 07) 16:36 33 14:03 (FO 06)
4	05:35 20:52	06:02 20:28	06:36 19:41	18:34 (FO 08) 18:47	07:09 18:47	06:46 16:59	07:22 16:35 35 14:04 (FO 06)
5	05:35 20:52	06:03 20:27	06:37 19:39	18:40 18:45	07:10 18:45	06:48 16:57	07:23 16:35 38 14:06 (FO 06)
6	05:36 20:51	06:04 20:26	06:38 19:37	18:43 18:43	07:11 18:43	06:49 16:56	07:24 16:35 39 14:07 (FO 06)
7	05:37 20:51	06:05 20:24	06:39 19:35	18:44 18:42	07:12 18:42	06:50 16:55	07:25 16:35 41 14:08 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	18:42 18:40	07:13 18:40	06:52 16:54	07:26 16:34 42 14:09 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	18:43 18:38	07:15 18:38	06:53 16:53	07:27 16:34 43 14:10 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	18:37 18:37	07:16 18:37	06:54 16:52	07:28 16:34 44 14:11 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	18:35 18:35	07:17 18:35	06:55 16:50	07:29 16:34 45 14:12 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	18:33 18:33	07:18 18:33	06:57 16:49	07:30 16:34 46 14:13 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	18:31 18:31	07:19 18:31	06:58 16:48	07:31 16:35 47 14:13 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	18:30 18:30	07:20 18:30	06:59 16:47	07:32 16:35 47 14:14 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	18:28 18:28	07:22 18:28	07:01 16:46	07:33 16:35 48 14:15 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	18:27 18:27	07:23 18:27	07:02 16:46	07:34 16:35 48 14:15 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	18:25 18:25	17:16 (FO 07) 17:26 (FO 07)	07:03 16:45	07:34 16:35 49 14:16 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	18:23 18:23	17:14 (FO 07) 17:29 (FO 07)	07:04 16:44	07:35 16:36 49 14:17 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	18:22 18:22	17:12 (FO 07) 17:30 (FO 07)	07:06 16:43	07:36 16:36 49 14:17 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	18:21 18:20	17:10 (FO 07) 17:30 (FO 07)	07:07 16:42	07:36 16:36 50 14:18 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	18:19 18:19	17:09 (FO 07) 17:31 (FO 07)	07:08 16:41	07:37 16:37 50 14:18 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	18:17 18:17	17:09 (FO 07) 17:32 (FO 07)	07:09 16:41	07:37 16:37 50 14:19 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	18:15 18:15	17:08 (FO 07) 17:32 (FO 07)	07:11 16:40	07:38 16:38 50 14:19 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	18:14 18:14	17:07 (FO 07) 17:32 (FO 07)	07:12 16:39	07:38 16:38 50 14:20 (FO 06)
25	05:52 20:39	06:25 19:57	18:22 (FO 08) 18:24 (FO 08)	06:59 19:03	06:34 17:12	07:13 16:39	07:39 16:39 49 14:20 (FO 06)
26	05:53 20:38	06:26 19:56	18:22 (FO 08) 18:25 (FO 08)	07:00 19:01	06:35 17:11	07:14 16:38	07:39 16:40 49 14:20 (FO 06)
27	05:54 20:37	06:27 19:54	18:22 (FO 08) 18:27 (FO 08)	07:01 18:59	06:36 17:10	07:15 16:38	13:39 (FO 06) 07:40 49 14:21 (FO 06)
28	05:55 20:36	06:28 19:53	18:22 (FO 08) 18:28 (FO 08)	07:02 18:58	06:38 17:08	07:16 16:37	13:35 (FO 06) 16:41 48 14:21 (FO 06)
29	05:56 20:35	06:29 19:51	18:23 (FO 08) 18:29 (FO 08)	07:03 18:56	06:39 17:07	07:18 16:37	13:33 (FO 06) 16:42 48 14:21 (FO 06)
30	05:57 20:34	06:30 19:49	18:23 (FO 08) 18:30 (FO 08)	07:04 18:54	06:40 17:05	07:19 16:36	13:31 (FO 06) 07:40 47 14:21 (FO 06)
31	05:58 20:33	06:31 19:47	18:24 (FO 08) 18:31 (FO 08)	07:05 18:54	06:41 17:04	16:11 (FO 07) 16:28 (FO 07)	07:41 16:43 47 14:22 (FO 06)
Potential sun hours	465	432	376	343	293	281	1408
Total, worst case		36	20	307	106		

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

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

Calculation: Shadow Shadow receptor: AI - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (149)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:44 55	13:37 (FO 06) 14:32 (FO 06)	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	
2	07:41 16:45 54	13:38 (FO 06) 14:32 (FO 06)	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	
3	07:41 16:46 53	13:39 (FO 06) 14:32 (FO 06)	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:12	05:32 20:43	
4	07:41 16:47 53	13:40 (FO 06) 14:33 (FO 06)	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	
5	07:41 16:48 52	13:41 (FO 06) 14:33 (FO 06)	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44	
6	07:41 16:49 51	13:42 (FO 06) 14:33 (FO 06)	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45	
7	07:41 16:50 50	13:43 (FO 06) 14:33 (FO 06)	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45	
8	07:41 16:51 50	13:44 (FO 06) 14:34 (FO 06)	07:18 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46	
9	07:40 16:52 48	13:45 (FO 06) 14:33 (FO 06)	07:16 17:31	06:34 18:07	06:39 19:44	05:54 20:18	05:30 20:47	
10	07:40 16:53 47	13:46 (FO 06) 14:33 (FO 06)	07:15 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47	
11	07:40 16:54 45	13:48 (FO 06) 14:33 (FO 06)	07:14 17:34	06:30 18:10	06:36 19:46	05:51 20:21	05:30 20:48	
12	07:40 16:55 44	13:48 (FO 06) 14:32 (FO 06)	07:12 17:35	16:46 (FO 07) 17:00 (FO 07)	06:28 18:11	18:30 (FO 08) 18:31 (FO 08)	05:50 20:22	05:30 20:48
13	07:39 16:57 42	13:50 (FO 06) 14:32 (FO 06)	07:11 17:37	16:43 (FO 07) 17:01 (FO 07)	06:27 18:12	18:29 (FO 08) 18:30 (FO 08)	05:49 20:23	05:29 20:49
14	07:39 16:58 40	13:51 (FO 06) 14:31 (FO 06)	07:10 17:38	16:43 (FO 07) 17:02 (FO 07)	06:25 18:13	18:27 (FO 08) 18:28 (FO 08)	05:48 20:24	05:29 20:49
15	07:38 16:59 38	13:53 (FO 06) 14:31 (FO 06)	07:08 17:39	16:41 (FO 07) 17:03 (FO 07)	06:23 18:15	18:25 (FO 08) 18:26 (FO 08)	05:47 20:25	05:29 20:50
16	07:38 17:00 35	13:54 (FO 06) 14:29 (FO 06)	07:07 17:41	16:41 (FO 07) 17:04 (FO 07)	06:21 18:16	05:46 20:26	05:29 20:50	
17	07:37 17:01 32	13:56 (FO 06) 14:28 (FO 06)	07:05 17:42	16:40 (FO 07) 17:04 (FO 07)	06:20 18:17	05:45 20:27	05:29 20:51	
18	07:37 17:03 28	13:59 (FO 06) 14:27 (FO 06)	07:04 17:43	16:40 (FO 07) 17:04 (FO 07)	06:18 18:18	05:44 20:28	05:29 20:51	
19	07:36 17:04 24	14:01 (FO 06) 14:25 (FO 06)	07:03 17:45	16:40 (FO 07) 17:04 (FO 07)	06:16 18:19	05:43 20:29	05:29 20:51	
20	07:36 17:05 19	14:04 (FO 06) 14:23 (FO 06)	07:01 17:46	16:40 (FO 07) 17:04 (FO 07)	06:14 18:20	05:42 20:30	05:30 20:52	
21	07:35 17:06 8	14:11 (FO 06) 14:19 (FO 06)	07:00 17:47	16:40 (FO 07) 17:03 (FO 07)	06:13 18:22	05:41 20:31	05:30 20:52	
22	07:34 17:08		06:58 17:48	16:41 (FO 07) 17:03 (FO 07)	06:11 18:23	05:40 20:32	05:30 20:52	
23	07:34 17:09		06:56 17:50	16:41 (FO 07) 17:02 (FO 07)	06:09 18:24	05:39 20:33	05:30 20:52	
24	07:33 17:10		06:55 17:51	16:43 (FO 07) 17:02 (FO 07)	06:07 18:25	05:39 20:34	05:30 20:52	
25	07:32 17:11		06:53 17:52	16:44 (FO 07) 17:00 (FO 07)	06:05 18:26	05:38 20:35	05:31 20:53	
26	07:31 17:13		06:52 17:54	16:46 (FO 07) 16:57 (FO 07)	06:04 18:27	05:37 20:36	05:31 20:53	
27	07:30 17:14		06:50 17:55		06:02 18:29	05:36 20:37	05:31 20:53	
28	07:29 17:15		06:49 17:56		06:00 18:30	05:36 20:38	05:32 20:53	
29	07:28 17:17				06:58 19:31	05:35 20:39	05:32 20:53	
30	07:28 17:18				06:57 19:32	05:34 20:39	05:33 20:53	
31	07:27 17:19				06:55 19:33	05:34 20:40		
Potential sun hours	292		294	369	401	454	459	
Total, worst case	868		313		4			

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

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

Calculation: Shadow Shadow receptor: AI - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (149)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December	
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36	13:30 (FO 06) 45 14:15 (FO 06)
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 17:01	07:21 16:36	47 14:16 (FO 06)
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35	48 14:17 (FO 06)
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 16:59	07:23 16:35	50 14:18 (FO 06)
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35	50 14:18 (FO 06)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35	51 14:19 (FO 06)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:34	52 14:20 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 16:54	07:27 16:34	53 14:21 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	06:53 16:53	07:28 16:34	54 14:22 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	06:54 16:52	07:29 16:34	54 14:22 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 16:50	07:30 16:34	55 14:23 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	07:31 16:34	55 14:23 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	06:58 16:48	07:31 16:35	56 14:24 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	06:59 16:47	07:32 16:35	56 14:25 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	07:01 17:21 (FO 07) 17:28 (FO 07)	07:33 16:35	56 14:25 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	07:02 17:17 (FO 07) 17:30 (FO 07)	07:34 16:35	56 14:25 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	07:03 17:15 (FO 07) 17:32 (FO 07)	07:34 16:35	57 14:26 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	07:04 17:14 (FO 07) 17:33 (FO 07)	07:35 16:36	57 14:27 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	07:06 17:13 (FO 07) 17:34 (FO 07)	07:36 16:36	57 14:27 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	07:07 17:11 (FO 07) 17:34 (FO 07)	07:37 16:36	57 14:28 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	07:08 17:11 (FO 07) 17:34 (FO 07)	07:37 16:37	57 14:28 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	07:09 17:11 (FO 07) 17:35 (FO 07)	07:37 16:37	57 14:29 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	07:11 17:10 (FO 07) 17:34 (FO 07)	07:38 16:38	57 14:29 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	07:12 17:10 (FO 07) 17:34 (FO 07)	07:38 16:38	57 14:30 (FO 06)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	07:13 16:11 (FO 07) 16:34 (FO 07)	07:39 16:39	57 14:30 (FO 06)
26	05:53 20:38	06:26 19:56	07:00 19:01	07:35 17:11	07:14 16:11 (FO 07) 16:33 (FO 07)	07:39 16:40	57 14:30 (FO 06)
27	05:54 20:37	06:27 19:54	18:26 (FO 08) 18:27 (FO 08)	07:01 18:59	06:36 17:10	07:40 16:40	56 14:31 (FO 06)
28	05:55 20:36	06:28 19:53	18:27 (FO 08) 18:28 (FO 08)	07:02 18:58	06:38 17:08	07:40 16:41	56 14:31 (FO 06)
29	05:56 20:35	06:29 19:51	18:28 (FO 08) 18:29 (FO 08)	07:03 18:56	06:39 17:07	07:40 16:42	57 14:32 (FO 06)
30	05:57 20:34	06:30 19:49	18:29 (FO 08) 18:30 (FO 08)	07:04 18:54	06:40 17:05	07:40 16:43	56 14:32 (FO 06)
31	05:58 20:33	06:31 19:47	18:30 (FO 08) 18:31 (FO 08)	06:41 17:04	16:18 (FO 07) 16:26 (FO 07)	07:41 16:43	56 14:32 (FO 06)
Potential sun hours	465	432	376	343	293	281	1689
Total, worst case		5		318	308		

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

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

Calculation: Shadow Shadow receptor: AJ - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (150)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:44 54	13:31 (FO 06) 14:25 (FO 06)	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	
2	07:41 16:45 53	13:32 (FO 06) 14:25 (FO 06)	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	
3	07:41 16:46 53	13:33 (FO 06) 14:26 (FO 06)	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:12	05:32 20:43	
4	07:41 16:47 52	13:34 (FO 06) 14:26 (FO 06)	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	
5	07:41 16:48 51	13:35 (FO 06) 14:26 (FO 06)	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44	
6	07:41 16:49 50	13:36 (FO 06) 14:26 (FO 06)	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45	
7	07:41 16:50 49	13:37 (FO 06) 14:26 (FO 06)	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45	
8	07:41 16:51 47	13:39 (FO 06) 14:26 (FO 06)	07:18 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46	
9	07:40 16:52 46	13:39 (FO 06) 14:25 (FO 06)	07:16 17:31	06:34 18:07	06:39 19:44	05:54 20:18	05:30 20:47	
10	07:40 16:53 45	13:41 (FO 06) 14:26 (FO 06)	07:15 17:33	16:49 (FO 07) 16:53 (FO 07)	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54 44	13:42 (FO 06) 14:26 (FO 06)	07:14 17:34	16:46 (FO 07) 16:57 (FO 07)	06:30 18:10	06:36 19:46	05:51 20:21	05:30 20:48
12	07:40 16:55 42	13:43 (FO 06) 14:25 (FO 06)	07:12 17:35	16:44 (FO 07) 17:00 (FO 07)	06:28 18:11	06:34 19:47	05:50 20:22	05:30 20:48
13	07:39 16:57 39	13:45 (FO 06) 14:24 (FO 06)	07:11 17:37	16:42 (FO 07) 17:01 (FO 07)	06:27 18:12	06:32 19:48	05:49 20:23	05:29 20:49
14	07:39 16:58 37	13:46 (FO 06) 14:23 (FO 06)	07:10 17:38	16:42 (FO 07) 17:02 (FO 07)	06:25 18:13	06:31 19:50	05:48 20:24	05:29 20:49
15	07:38 16:59 35	13:48 (FO 06) 14:23 (FO 06)	07:08 17:39	16:40 (FO 07) 17:02 (FO 07)	06:23 18:15	06:29 19:51	05:47 20:25	05:29 20:50
16	07:38 17:00 31	13:50 (FO 06) 14:21 (FO 06)	07:07 17:41	16:40 (FO 07) 17:03 (FO 07)	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50
17	07:37 17:01 28	13:52 (FO 06) 14:20 (FO 06)	07:05 17:42	16:39 (FO 07) 17:03 (FO 07)	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51
18	07:37 17:03 23	13:55 (FO 06) 14:18 (FO 06)	07:04 17:43	16:39 (FO 07) 17:04 (FO 07)	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04 16	13:59 (FO 06) 14:15 (FO 06)	07:03 17:45	16:39 (FO 07) 17:03 (FO 07)	06:16 18:19	06:23 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05 5	14:05 (FO 06) 14:10 (FO 06)	07:01 17:46	16:40 (FO 07) 17:04 (FO 07)	06:14 18:20	06:21 19:57	05:42 20:30	05:30 20:52
21	07:35 17:06	07:00 17:47	07:00 17:47	16:39 (FO 07) 17:03 (FO 07)	06:13 18:22	06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 17:08	06:58 17:48	06:58 17:48	16:40 (FO 07) 17:03 (FO 07)	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52
23	07:34 17:09	06:56 17:50	06:56 17:50	16:41 (FO 07) 17:01 (FO 07)	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10	06:55 17:51	06:55 17:51	16:42 (FO 07) 17:01 (FO 07)	06:07 18:25	06:15 20:01	05:39 20:34	05:30 20:52
25	07:32 17:11	06:53 17:52	06:53 17:52	16:43 (FO 07) 16:59 (FO 07)	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:53
26	07:31 17:13	06:52 17:54	06:52 17:54	16:45 (FO 07) 16:56 (FO 07)	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:53
27	07:30 17:14	06:50 17:55	06:50 17:55	06:02 18:29	06:10 20:05	06:10 20:37	05:36 20:37	05:31 20:53
28	07:29 17:15	06:49 17:56	06:49 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:36 20:38	05:32 20:53
29	07:28 17:17			06:58 19:31	06:07 20:07	05:35 20:39	05:35 20:39	05:32 20:53
30	07:28 17:18			06:57 19:32	06:06 20:08	05:34 20:39	05:34 20:39	05:33 20:53
31	07:27 17:19			06:55 19:33		05:34 20:40		
Potential sun hours	292	294	369	401	454	459		
Total, worst case	800	325						

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

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

Calculation: Shadow Shadow receptor: AJ - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (150)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December		
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36	44	13:24 (FO 06) 14:08 (FO 06)
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 17:01	07:21 16:36	45	13:24 (FO 06) 14:09 (FO 06)
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35	47	13:23 (FO 06) 14:10 (FO 06)
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 16:59	07:23 16:35	47	13:23 (FO 06) 14:10 (FO 06)
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35	49	13:22 (FO 06) 14:11 (FO 06)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35	50	13:22 (FO 06) 14:12 (FO 06)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:34	51	13:22 (FO 06) 14:13 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 16:54	07:27 16:34	52	13:22 (FO 06) 14:14 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	06:53 16:53	07:28 16:34	53	13:22 (FO 06) 14:15 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	06:54 16:52	07:29 16:34	53	13:22 (FO 06) 14:15 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 16:50	07:30 16:34	54	13:22 (FO 06) 14:16 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	07:31 16:34	54	13:22 (FO 06) 14:16 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	06:58 16:48	07:31 16:35	55	13:22 (FO 06) 14:17 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	06:59 16:47	07:32 16:35	56	13:22 (FO 06) 14:18 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	07:01 17:21 (FO 07) 17:26 (FO 07)	07:01 16:46		13:23 (FO 06) 14:19 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	07:02 17:17 (FO 07) 17:29 (FO 07)	07:02 16:46	12	13:23 (FO 06) 14:19 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	07:03 17:14 (FO 07) 17:31 (FO 07)	07:03 16:45	17	13:23 (FO 06) 14:20 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	07:04 17:13 (FO 07) 17:33 (FO 07)	07:04 16:44	20	13:24 (FO 06) 14:20 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	07:06 17:12 (FO 07) 17:33 (FO 07)	07:06 16:43	21	13:24 (FO 06) 14:20 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	07:07 17:11 (FO 07) 17:33 (FO 07)	07:07 16:42	22	13:25 (FO 06) 14:21 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	07:08 17:10 (FO 07) 17:33 (FO 07)	07:08 16:41	23	13:24 (FO 06) 14:21 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	07:09 17:10 (FO 07) 17:34 (FO 07)	07:09 16:41	4	13:25 (FO 06) 14:22 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	07:11 17:09 (FO 07) 17:34 (FO 07)	07:11 16:40	16	13:26 (FO 06) 14:22 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	07:12 17:09 (FO 07) 17:33 (FO 07)	07:12 16:39	23	13:27 (FO 06) 14:23 (FO 06)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	07:13 16:10 (FO 07) 16:34 (FO 07)	07:13 16:39	27	13:27 (FO 06) 14:23 (FO 06)
26	05:53 20:38	06:26 19:56	07:00 19:01	07:35 17:11	07:14 16:10 (FO 07) 16:33 (FO 07)	07:14 16:38	31	13:27 (FO 06) 14:23 (FO 06)
27	05:54 20:37	06:27 19:54	07:01 18:59	07:36 17:10	07:15 16:10 (FO 07) 16:32 (FO 07)	07:15 16:38	35	13:28 (FO 06) 14:25 (FO 06)
28	05:55 20:36	06:28 19:53	07:02 18:58	07:37 17:08	07:16 16:11 (FO 07) 16:32 (FO 07)	07:16 16:37	37	13:29 (FO 06) 14:25 (FO 06)
29	05:56 20:35	06:29 19:51	07:03 18:56	07:39 17:07	07:18 16:12 (FO 07) 16:30 (FO 07)	07:18 16:37	39	13:29 (FO 06) 14:25 (FO 06)
30	05:57 20:34	06:30 19:49	07:04 18:54	07:40 17:05	07:19 16:13 (FO 07) 16:28 (FO 07)	07:19 16:36	42	13:30 (FO 06) 14:25 (FO 06)
31	05:58 20:33	06:31 19:47	07:05 18:53	07:41 17:04	07:20 16:14 (FO 07) 16:16 (FO 07)	07:20 16:35	44	13:30 (FO 06) 14:25 (FO 06)
Potential sun hours	465	432	376	343	293	281		
Total, worst case				327	254	1664		

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

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

Calculation: Shadow Shadow receptor: AK - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (151)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	
1	07:41 16:44 58	13:32 (FO 06) 14:30 (FO 06)	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45 58	13:33 (FO 06) 14:31 (FO 06)	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46 57	13:34 (FO 06) 14:31 (FO 06)	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:12	05:32 20:43
4	07:41 16:47 56	13:35 (FO 06) 14:31 (FO 06)	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48 55	13:36 (FO 06) 14:31 (FO 06)	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49 55	13:37 (FO 06) 14:32 (FO 06)	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50 54	13:38 (FO 06) 14:32 (FO 06)	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45
8	07:41 16:51 53	13:39 (FO 06) 14:32 (FO 06)	07:18 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52 52	13:39 (FO 06) 14:31 (FO 06)	07:16 17:31	06:34 18:07	06:39 19:44	05:54 20:18	05:30 20:47
10	07:40 16:53 50	13:41 (FO 06) 14:31 (FO 06)	07:15 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54 50	13:42 (FO 06) 14:32 (FO 06)	07:14 17:34	16:51 (FO 07) 16:55 (FO 07)	06:30 18:10	06:36 19:46	05:30 20:48
12	07:40 16:55 48	13:43 (FO 06) 14:31 (FO 06)	07:12 17:35	16:47 (FO 07) 16:59 (FO 07)	06:28 18:11	06:34 19:47	05:30 20:48
13	07:39 16:57 47	13:44 (FO 06) 14:31 (FO 06)	07:11 17:37	16:45 (FO 07) 17:01 (FO 07)	06:27 18:12	06:32 19:48	05:29 20:49
14	07:39 16:58 45	13:45 (FO 06) 14:30 (FO 06)	07:10 17:38	16:44 (FO 07) 17:02 (FO 07)	06:25 18:13	06:31 19:50	05:29 20:49
15	07:38 16:59 43	13:47 (FO 06) 14:30 (FO 06)	07:08 17:39	16:42 (FO 07) 17:03 (FO 07)	06:23 18:15	06:29 19:51	05:29 20:50
16	07:38 17:00 41	13:48 (FO 06) 14:29 (FO 06)	07:07 17:41	16:42 (FO 07) 17:04 (FO 07)	06:21 18:16	06:27 19:52	05:29 20:50
17	07:37 17:01 38	13:50 (FO 06) 14:28 (FO 06)	07:05 17:42	16:41 (FO 07) 17:04 (FO 07)	06:20 18:17	06:26 19:53	05:29 20:51
18	07:37 17:03 35	13:52 (FO 06) 14:27 (FO 06)	07:04 17:43	16:41 (FO 07) 17:05 (FO 07)	06:18 18:18	06:24 19:54	05:29 20:51
19	07:36 17:04 32	13:54 (FO 06) 14:26 (FO 06)	07:03 17:45	16:40 (FO 07) 17:05 (FO 07)	06:16 18:19	06:23 19:55	05:29 20:51
20	07:36 17:05 28	13:56 (FO 06) 14:24 (FO 06)	07:01 17:46	16:41 (FO 07) 17:05 (FO 07)	06:14 18:20	06:21 19:57	05:30 20:52
21	07:35 17:06 22	14:00 (FO 06) 14:22 (FO 06)	07:00 17:47	16:40 (FO 07) 17:04 (FO 07)	06:13 18:22	06:19 19:58	05:41 20:52
22	07:34 17:08 15	14:04 (FO 06) 14:19 (FO 06)	06:58 17:48	16:41 (FO 07) 17:04 (FO 07)	06:11 18:23	06:18 19:59	05:30 20:52
23	07:34 17:09		06:56 17:50	16:41 (FO 07) 17:03 (FO 07)	06:09 18:24	06:16 20:00	05:30 20:52
24	07:33 17:10		06:55 17:51	16:43 (FO 07) 17:03 (FO 07)	06:07 18:25	06:15 20:01	05:30 20:52
25	07:32 17:11		06:53 17:52	16:43 (FO 07) 17:01 (FO 07)	06:05 18:26	06:13 20:02	05:31 20:53
26	07:31 17:13		06:52 17:54	16:44 (FO 07) 16:59 (FO 07)	06:04 18:27	06:12 20:03	05:31 20:53
27	07:30 17:14		06:50 17:55	16:47 (FO 07) 16:57 (FO 07)	06:02 18:29	06:10 20:05	05:31 20:53
28	07:29 17:15		06:49 17:56		06:00 18:30	06:09 20:06	05:32 20:53
29	07:28 17:17				06:58 19:31	06:07 20:07	05:35 20:53
30	07:28 17:18				06:57 19:32	06:06 20:08	05:34 20:53
31	07:27 17:19				06:55 19:33		05:34 20:40
Potential sun hours	292	294	369	401	454	459	
Total, worst case	992	321					

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

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

Calculation: Shadow Shadow receptor: AK - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (151)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December	
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36	13:24 (FO 06) 50 14:14 (FO 06)
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 17:01	07:21 16:36	13:24 (FO 06) 50 14:14 (FO 06)
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35	13:23 (FO 06) 52 14:15 (FO 06)
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 16:59	07:23 16:35	13:23 (FO 06) 53 14:16 (FO 06)
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35	13:23 (FO 06) 54 14:17 (FO 06)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35	13:23 (FO 06) 55 14:18 (FO 06)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:34	13:23 (FO 06) 55 14:18 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 16:54	07:27 16:34	13:23 (FO 06) 56 14:19 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	06:53 16:53	07:28 16:34	13:23 (FO 06) 57 14:20 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	06:54 16:52	07:29 16:34	13:23 (FO 06) 58 14:21 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 16:50	07:30 16:34	13:23 (FO 06) 58 14:21 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	07:31 16:34	13:23 (FO 06) 58 14:21 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	06:58 16:48	07:31 16:35	13:23 (FO 06) 59 14:22 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	17:23 (FO 07) 06:59 17:27 (FO 07) 16:47	07:32 16:35	13:24 (FO 06) 59 14:23 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	17:19 (FO 07) 07:01 17:31 (FO 07) 16:46	07:33 16:35	13:24 (FO 06) 60 14:24 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	17:16 (FO 07) 07:02 17:32 (FO 07) 16:46	07:34 16:35	13:24 (FO 06) 59 14:23 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	17:14 (FO 07) 07:03 17:33 (FO 07) 16:45	07:34 16:35	13:24 (FO 06) 60 14:24 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	17:14 (FO 07) 07:04 17:35 (FO 07) 16:44	07:35 16:36	13:25 (FO 06) 60 14:25 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:13 (FO 07) 07:06 17:35 (FO 07) 16:43	07:36 16:36	13:25 (FO 06) 60 14:25 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:12 (FO 07) 07:07 17:35 (FO 07) 16:42	13:39 (FO 06) 07:36 15 13:54 (FO 06) 16:36	13:26 (FO 06) 60 14:26 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:11 (FO 07) 07:08 17:35 (FO 07) 16:41	13:35 (FO 06) 07:37 22 13:57 (FO 06) 16:37	13:26 (FO 06) 60 14:26 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:11 (FO 07) 07:09 17:36 (FO 07) 16:41	13:33 (FO 06) 07:37 28 14:01 (FO 06) 16:37	13:27 (FO 06) 60 14:27 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	17:11 (FO 07) 07:11 17:35 (FO 07) 16:40	13:31 (FO 06) 07:38 32 14:03 (FO 06) 16:38	13:27 (FO 06) 60 14:27 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	17:11 (FO 07) 07:12 17:34 (FO 07) 16:39	13:29 (FO 06) 07:38 35 14:04 (FO 06) 16:38	13:28 (FO 06) 60 14:28 (FO 06)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	16:12 (FO 07) 07:13 16:35 (FO 07) 16:39	13:28 (FO 06) 07:39 38 14:06 (FO 06) 16:39	13:28 (FO 06) 60 14:28 (FO 06)
26	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	16:12 (FO 07) 07:14 16:34 (FO 07) 16:38	13:27 (FO 06) 07:39 41 14:08 (FO 06) 16:40	13:28 (FO 06) 60 14:28 (FO 06)
27	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:10	16:12 (FO 07) 07:15 16:32 (FO 07) 16:38	13:26 (FO 06) 07:40 43 14:09 (FO 06) 16:40	13:30 (FO 06) 59 14:29 (FO 06)
28	05:55 20:36	06:28 19:53	07:02 18:58	06:38 17:08	16:14 (FO 07) 07:16 16:32 (FO 07) 16:37	13:25 (FO 06) 07:40 45 14:10 (FO 06) 16:41	13:30 (FO 06) 60 14:30 (FO 06)
29	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	16:15 (FO 07) 07:18 16:30 (FO 07) 16:37	13:24 (FO 06) 07:40 47 14:11 (FO 06) 16:42	13:30 (FO 06) 60 14:30 (FO 06)
30	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05	16:17 (FO 07) 07:19 16:27 (FO 07) 16:36	13:24 (FO 06) 07:40 48 14:12 (FO 06) 16:43	13:31 (FO 06) 59 14:30 (FO 06)
31	05:58 20:33	06:31 19:47	07:05 18:53	06:41 17:04	07:20 17:04	07:41 16:43	13:31 (FO 06) 59 14:30 (FO 06)
Potential sun hours	465	432	376	343	293	281	1790
Total, worst case				321	394		

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

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

Calculation: Shadow Shadow receptor: AL - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (152)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	
1	07:41 16:44 59	13:13 (FO 06) 14:12 (FO 06)	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45 59	13:13 (FO 06) 14:12 (FO 06)	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46 59	13:14 (FO 06) 14:13 (FO 06)	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:12	05:32 20:43
4	07:41 16:47 58	13:15 (FO 06) 14:13 (FO 06)	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48 57	13:16 (FO 06) 14:13 (FO 06)	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49 56	13:17 (FO 06) 14:13 (FO 06)	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50 56	13:18 (FO 06) 14:14 (FO 06)	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45
8	07:41 16:51 54	13:20 (FO 06) 14:14 (FO 06)	07:18 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52 53	13:20 (FO 06) 14:13 (FO 06)	07:16 17:31	06:34 18:07	06:39 19:44	05:54 20:18	05:30 20:47
10	07:40 16:53 52	13:21 (FO 06) 14:13 (FO 06)	07:15 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54 50	13:23 (FO 06) 14:13 (FO 06)	07:14 17:34	16:47 (FO 07) 16:55 (FO 07)	06:30 18:10	06:36 19:46	05:30 20:48
12	07:40 16:55 48	13:24 (FO 06) 14:12 (FO 06)	07:12 17:35	16:44 (FO 07) 16:58 (FO 07)	06:28 18:11	06:34 19:47	05:30 20:48
13	07:39 16:57 47	13:25 (FO 06) 14:12 (FO 06)	07:11 17:37	16:42 (FO 07) 16:59 (FO 07)	06:27 18:12	06:32 19:48	05:29 20:49
14	07:39 16:58 45	13:26 (FO 06) 14:11 (FO 06)	07:10 17:38	16:41 (FO 07) 17:01 (FO 07)	06:25 18:13	06:31 19:50	05:29 20:49
15	07:38 16:59 43	13:28 (FO 06) 14:11 (FO 06)	07:08 17:39	16:40 (FO 07) 17:01 (FO 07)	06:23 18:15	06:29 19:51	05:29 20:50
16	07:38 17:00 40	13:30 (FO 06) 14:10 (FO 06)	07:07 17:41	16:39 (FO 07) 17:03 (FO 07)	06:21 18:16	06:27 19:52	05:29 20:50
17	07:37 17:01 37	13:31 (FO 06) 14:08 (FO 06)	07:05 17:42	16:38 (FO 07) 17:02 (FO 07)	06:20 18:17	06:26 19:53	05:29 20:51
18	07:37 17:03 34	13:34 (FO 06) 14:08 (FO 06)	07:04 17:43	16:38 (FO 07) 17:03 (FO 07)	06:18 18:18	06:24 19:54	05:29 20:51
19	07:36 17:04 30	13:36 (FO 06) 14:06 (FO 06)	07:03 17:45	16:38 (FO 07) 17:03 (FO 07)	06:16 18:19	06:23 19:55	05:29 20:51
20	07:36 17:05 25	13:39 (FO 06) 14:04 (FO 06)	07:01 17:46	16:38 (FO 07) 17:03 (FO 07)	06:14 18:20	06:21 19:57	05:30 20:52
21	07:35 17:06 19	13:43 (FO 06) 14:02 (FO 06)	07:00 17:47	16:38 (FO 07) 17:03 (FO 07)	06:13 18:22	06:19 19:58	05:30 20:52
22	07:34 17:08 6	13:50 (FO 06) 13:56 (FO 06)	06:58 17:48	16:39 (FO 07) 17:03 (FO 07)	06:11 18:23	06:18 19:59	05:30 20:52
23	07:34 17:09		06:56 17:50	16:39 (FO 07) 17:02 (FO 07)	06:09 18:24	06:16 20:00	05:30 20:52
24	07:33 17:10		06:55 17:51	16:40 (FO 07) 17:01 (FO 07)	06:07 18:25	06:15 20:01	05:30 20:52
25	07:32 17:11		06:53 17:52	16:41 (FO 07) 17:00 (FO 07)	06:05 18:26	06:13 20:02	05:31 20:53
26	07:31 17:13		06:52 17:54	16:42 (FO 07) 16:58 (FO 07)	06:04 18:27	06:12 20:03	05:31 20:53
27	07:30 17:14		06:50 17:55	16:45 (FO 07) 16:56 (FO 07)	06:02 18:29	06:10 20:05	05:31 20:53
28	07:29 17:15		06:49 17:56		06:00 18:30	06:09 20:06	05:32 20:53
29	07:28 17:17				06:58 19:31	06:07 20:07	05:35 20:53
30	07:28 17:18				06:57 19:32	06:06 20:08	05:34 20:53
31	07:27 17:19				06:55 19:33		05:34 20:40
Potential sun hours	292	294	369	401	454	459	
Total, worst case	987	342					

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

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

Calculation: Shadow Shadow receptor: AL - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (152)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December	
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36	13:05 (FO 06) 50 13:55 (FO 06)
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 17:01	07:21 16:36	13:04 (FO 06) 52 13:56 (FO 06)
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35	13:04 (FO 06) 53 13:57 (FO 06)
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 16:59	07:23 16:35	13:04 (FO 06) 54 13:58 (FO 06)
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35	13:03 (FO 06) 56 13:59 (FO 06)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35	13:03 (FO 06) 56 13:59 (FO 06)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:34	13:03 (FO 06) 57 14:00 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 16:54	07:27 16:34	13:03 (FO 06) 58 14:01 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	06:53 16:53	07:28 16:34	13:03 (FO 06) 59 14:02 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	06:54 16:52	07:29 16:34	13:03 (FO 06) 60 14:03 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 16:51	07:30 16:34	13:04 (FO 06) 59 14:03 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	07:31 16:34	13:03 (FO 06) 60 14:03 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	06:58 16:48	07:31 16:35	13:03 (FO 06) 61 14:04 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	17:20 (FO 07) 17:26 (FO 07)	06:59 16:47	13:04 (FO 06) 61 14:05 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	17:16 (FO 07) 17:29 (FO 07)	07:01 16:46	13:04 (FO 06) 62 14:06 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	17:14 (FO 07) 17:31 (FO 07)	07:02 16:46	13:04 (FO 06) 62 14:06 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	17:12 (FO 07) 17:32 (FO 07)	07:03 16:45	13:05 (FO 06) 61 14:06 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	17:11 (FO 07) 17:33 (FO 07)	07:04 16:44	13:05 (FO 06) 62 14:07 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:10 (FO 07) 17:33 (FO 07)	07:06 16:43	13:05 (FO 06) 62 14:07 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:09 (FO 07) 17:33 (FO 07)	07:07 16:42	13:06 (FO 06) 6 13:31 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:08 (FO 07) 17:33 (FO 07)	07:08 16:41	13:06 (FO 06) 19 13:37 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:09 (FO 07) 17:34 (FO 07)	07:09 16:41	13:07 (FO 06) 25 13:41 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	17:08 (FO 07) 17:33 (FO 07)	07:11 16:40	13:07 (FO 06) 30 13:43 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	17:08 (FO 07) 17:33 (FO 07)	07:12 16:39	13:08 (FO 06) 34 13:45 (FO 06)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	16:09 (FO 07) 16:33 (FO 07)	07:13 16:39	13:08 (FO 06) 37 13:46 (FO 06)
26	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	16:09 (FO 07) 16:32 (FO 07)	07:14 16:38	13:09 (FO 06) 40 13:49 (FO 06)
27	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:10	16:09 (FO 07) 16:31 (FO 07)	07:15 16:38	13:10 (FO 06) 43 13:50 (FO 06)
28	05:55 20:36	06:28 19:53	07:02 18:58	06:38 17:08	16:11 (FO 07) 16:30 (FO 07)	07:16 16:37	13:10 (FO 06) 45 13:51 (FO 06)
29	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	16:12 (FO 07) 16:29 (FO 07)	07:18 16:37	13:11 (FO 06) 47 13:52 (FO 06)
30	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05	16:14 (FO 07) 16:26 (FO 07)	07:19 16:36	13:11 (FO 06) 48 13:53 (FO 06)
31	05:58 20:33	06:31 19:47	07:05 18:53	06:41 17:04	16:17 (FO 07) 16:24 (FO 07)	07:20 16:35	13:12 (FO 06) 60 14:12 (FO 06)
Potential sun hours	465	432	376	343	293	281	1844
Total, worst case				349	374		

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

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

Calculation: Shadow Shadow receptor: AM - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (153)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June			
1	07:41	13:05 (FO 06)	07:25	06:47	06:53	06:04	05:33		
	16:44	14:09 (FO 06)	17:21	17:57	19:34	20:09	20:41		
2	07:41	13:06 (FO 06)	07:24	06:45	06:51	06:03	05:33		
	16:45	14:09 (FO 06)	17:22	17:59	19:36	20:10	20:42		
3	07:41	13:06 (FO 06)	07:23	06:44	06:50	06:02	05:32		
	16:46	14:10 (FO 06)	17:23	18:00	19:37	20:12	20:43		
4	07:41	13:07 (FO 06)	07:22	06:42	06:48	06:00	05:32		
	16:47	14:10 (FO 06)	17:25	18:01	19:38	20:13	20:43		
5	07:41	13:08 (FO 06)	07:21	06:40	06:46	05:59	05:31		
	16:48	14:10 (FO 06)	17:26	18:02	19:39	20:14	20:44		
6	07:41	13:09 (FO 06)	07:20	06:39	06:44	05:58	05:31		
	16:49	14:10 (FO 06)	17:27	18:04	19:40	20:15	20:45		
7	07:41	13:10 (FO 06)	07:19	06:37	06:43	05:56	05:31		
	16:50	14:11 (FO 06)	17:29	18:05	19:41	20:16	20:45		
8	07:41	13:11 (FO 06)	07:18	06:35	06:41	05:55	05:30		
	16:51	14:11 (FO 06)	17:30	18:06	19:43	20:17	20:46		
9	07:40	13:12 (FO 06)	07:16	06:34	06:39	05:54	05:30		
	16:52	14:10 (FO 06)	17:31	18:07	19:44	20:18	20:47		
10	07:40	13:13 (FO 06)	07:15	06:32	06:37	05:53	05:30		
	16:53	14:10 (FO 06)	17:33	18:08	19:45	20:19	20:47		
11	07:40	13:14 (FO 06)	07:14	06:30	06:36	05:51	05:30		
	16:54	14:11 (FO 06)	17:34	18:10	19:46	20:21	20:48		
12	07:40	13:15 (FO 06)	07:12		06:34	05:50	05:30		
	16:55	14:10 (FO 06)	17:35	10	16:46 (FO 07)	18:11	19:47	20:22	20:48
13	07:39	13:17 (FO 06)	07:11		16:43 (FO 07)	06:27	06:32	05:49	05:29
	16:57	14:10 (FO 06)	17:37	15	16:58 (FO 07)	18:12	19:48	20:23	20:49
14	07:39	13:17 (FO 06)	07:10		16:42 (FO 07)	06:25	06:31	05:48	05:29
	16:58	14:09 (FO 06)	17:38	18	17:00 (FO 07)	18:13	19:50	20:24	20:49
15	07:38	13:19 (FO 06)	07:08		16:40 (FO 07)	06:23	06:29	05:47	05:29
	16:59	14:09 (FO 06)	17:39	21	17:01 (FO 07)	18:15	19:51	20:25	20:50
16	07:38	13:20 (FO 06)	07:07		16:40 (FO 07)	06:21	06:27	05:46	05:29
	17:00	14:08 (FO 06)	17:41	22	17:02 (FO 07)	18:16	19:52	20:26	20:50
17	07:37	13:21 (FO 06)	07:05		16:39 (FO 07)	06:20	06:26	05:45	05:29
	17:01	14:07 (FO 06)	17:42	23	17:02 (FO 07)	18:17	19:53	20:27	20:51
18	07:37	13:24 (FO 06)	07:04		16:39 (FO 07)	06:18	06:24	05:44	05:29
	17:03	14:07 (FO 06)	17:43	24	17:03 (FO 07)	18:18	19:54	20:28	20:51
19	07:36	13:25 (FO 06)	07:03		16:38 (FO 07)	06:16	06:23	05:43	05:29
	17:04	14:06 (FO 06)	17:45	25	17:03 (FO 07)	18:19	19:55	20:29	20:51
20	07:36	13:27 (FO 06)	07:01		16:38 (FO 07)	06:14	06:21	05:42	05:30
	17:05	14:04 (FO 06)	17:46	26	17:04 (FO 07)	18:20	19:57	20:30	20:52
21	07:35	13:30 (FO 06)	07:00		16:38 (FO 07)	06:13	06:19	05:41	05:30
	17:06	14:03 (FO 06)	17:47	25	17:03 (FO 07)	18:22	19:58	20:31	20:52
22	07:34	13:33 (FO 06)	06:58		16:38 (FO 07)	06:11	06:18	05:40	05:30
	17:08	14:01 (FO 06)	17:48	25	17:03 (FO 07)	18:23	19:59	20:32	20:52
23	07:34	13:36 (FO 06)	06:56		16:38 (FO 07)	06:09	06:16	05:39	05:30
	17:09	13:59 (FO 06)	17:50	24	17:02 (FO 07)	18:24	20:00	20:33	20:52
24	07:33	13:41 (FO 06)	06:55		16:39 (FO 07)	06:07	06:15	05:39	05:30
	17:10	13:54 (FO 06)	17:51	23	17:02 (FO 07)	18:25	20:01	20:34	20:52
25	07:32		06:53		16:40 (FO 07)	06:05	06:13	05:38	05:31
	17:11		17:52	21	17:01 (FO 07)	18:26	20:02	20:35	20:53
26	07:31		06:52		16:40 (FO 07)	06:04	06:12	05:37	05:31
	17:13		17:54	19	16:59 (FO 07)	18:27	20:03	20:36	20:53
27	07:30		06:50		16:43 (FO 07)	06:02	06:10	05:36	05:31
	17:14		17:55	15	16:58 (FO 07)	18:29	20:05	20:37	20:53
28	07:29		06:49		16:45 (FO 07)	06:00	06:09	05:36	05:32
	17:15		17:56	10	16:55 (FO 07)	18:30	20:06	20:38	20:53
29	07:28					06:58	06:07	05:35	05:32
	17:17					19:31	20:07	20:39	20:53
30	07:28					06:57	06:06	05:34	05:33
	17:18					19:32	20:08	20:39	20:53
31	07:27					06:55		05:34	
	17:19					19:33		20:40	
Potential sun hours	292		294		369		401	454	459
Total, worst case	1192		346						

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

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

Calculation: Shadow Shadow receptor: AM - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (153)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December	
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36	12:56 (FO 06) 13:53 (FO 06)
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 17:01	07:21 16:36	12:56 (FO 06) 13:53 (FO 06)
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35	12:56 (FO 06) 13:54 (FO 06)
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 16:59	07:23 16:35	12:55 (FO 06) 13:55 (FO 06)
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35	12:55 (FO 06) 13:56 (FO 06)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35	12:55 (FO 06) 13:56 (FO 06)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:34	12:55 (FO 06) 13:57 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 16:54	07:27 16:34	12:55 (FO 06) 13:58 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	06:53 16:53	07:28 16:34	12:55 (FO 06) 13:59 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	06:54 16:52	07:29 16:34	12:56 (FO 06) 13:59 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 16:51	07:30 16:34	12:56 (FO 06) 14:00 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	07:31 16:34	12:55 (FO 06) 14:00 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	17:20 (FO 07) 17:25 (FO 07)	06:58 16:48	12:56 (FO 06) 14:01 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	17:17 (FO 07) 17:30 (FO 07)	06:59 16:47	12:56 (FO 06) 14:01 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	17:14 (FO 07) 17:31 (FO 07)	07:01 16:46	12:57 (FO 06) 14:02 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	17:12 (FO 07) 17:32 (FO 07)	07:02 16:46	12:56 (FO 06) 14:02 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	17:11 (FO 07) 17:33 (FO 07)	07:03 16:45	12:57 (FO 06) 14:03 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	17:11 (FO 07) 17:34 (FO 07)	07:04 16:44	12:58 (FO 06) 14:04 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:10 (FO 07) 17:34 (FO 07)	07:06 16:43	12:58 (FO 06) 14:04 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:09 (FO 07) 17:34 (FO 07)	07:07 16:42	12:58 (FO 06) 14:05 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:08 (FO 07) 17:34 (FO 07)	07:08 16:41	12:58 (FO 06) 14:05 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:09 (FO 07) 17:34 (FO 07)	07:09 16:41	12:59 (FO 06) 14:06 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	17:08 (FO 07) 17:34 (FO 07)	07:11 16:40	12:59 (FO 06) 14:06 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	17:08 (FO 07) 17:33 (FO 07)	07:12 16:39	13:01 (FO 06) 14:07 (FO 06)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	16:09 (FO 07) 16:33 (FO 07)	07:13 16:39	13:01 (FO 06) 14:07 (FO 06)
26	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	16:10 (FO 07) 16:32 (FO 07)	07:14 16:38	13:01 (FO 06) 14:07 (FO 06)
27	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:10	16:10 (FO 07) 16:30 (FO 07)	07:15 16:38	13:02 (FO 06) 14:08 (FO 06)
28	05:55 20:36	06:28 19:53	07:02 18:58	06:38 17:08	16:12 (FO 07) 16:30 (FO 07)	07:16 16:37	13:03 (FO 06) 14:08 (FO 06)
29	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	16:13 (FO 07) 16:27 (FO 07)	07:18 16:37	12:57 (FO 06) 14:08 (FO 06)
30	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05	16:16 (FO 07) 16:24 (FO 07)	07:19 16:36	12:56 (FO 06) 14:09 (FO 06)
31	05:58 20:33	06:31 19:47		06:41 17:04			13:04 (FO 06) 14:09 (FO 06)
Potential sun hours	465	432	376	343	293	281	
Total, worst case				357	522	1986	

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

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

Calculation: Shadow Shadow receptor: AN - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (154)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:44 69	13:10 (FO 06) 14:19 (FO 06)	07:25 17:21	06:47 17:57 11	16:47 (FO 07) 16:58 (FO 07)	06:53 20:09	06:04 20:41	05:33 20:41
2	07:41 16:45 68	13:11 (FO 06) 14:19 (FO 06)	07:24 17:22	06:45 17:59		06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46 67	13:12 (FO 06) 14:19 (FO 06)	07:23 17:23	06:44 18:00		06:50 19:37	06:02 20:12	05:32 20:43
4	07:41 16:47 67	13:12 (FO 06) 14:19 (FO 06)	07:22 17:25	06:42 18:01		06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48 67	13:13 (FO 06) 14:20 (FO 06)	07:21 17:26	06:40 18:02		06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49 66	13:14 (FO 06) 14:20 (FO 06)	07:20 17:27	06:39 18:04		06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50 65	13:15 (FO 06) 14:20 (FO 06)	07:19 17:29	06:37 18:05		06:43 19:41	05:56 20:16	05:31 20:45
8	07:41 16:51 65	13:16 (FO 06) 14:21 (FO 06)	07:18 17:30	06:35 18:06		06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52 64	13:16 (FO 06) 14:20 (FO 06)	07:16 17:31	06:34 18:07		06:39 19:44	05:54 20:18	05:30 20:47
10	07:40 16:53 64	13:17 (FO 06) 14:21 (FO 06)	07:15 17:33	06:32 18:08		06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54 62	13:19 (FO 06) 14:21 (FO 06)	07:14 17:34	06:30 18:10		06:36 19:46	05:51 20:21	05:30 20:48
12	07:40 16:55 61	13:19 (FO 06) 14:20 (FO 06)	07:12 17:35	06:28 18:11		06:34 19:47	05:50 20:22	05:30 20:48
13	07:39 16:57 60	13:21 (FO 06) 14:21 (FO 06)	07:11 17:37	16:49 (FO 07) 16:57 (FO 07)	06:27 18:12	06:32 19:48	05:49 20:23	05:29 20:49
14	07:39 16:58 59	13:21 (FO 06) 14:20 (FO 06)	07:10 17:38	16:47 (FO 07) 17:00 (FO 07)	06:25 18:13	06:31 19:50	05:48 20:24	05:29 20:49
15	07:38 16:59 57	13:23 (FO 06) 14:20 (FO 06)	07:08 17:39	16:44 (FO 07) 17:02 (FO 07)	06:23 18:15	06:29 19:51	05:47 20:25	05:29 20:50
16	07:38 17:00 55	13:24 (FO 06) 14:19 (FO 06)	07:07 17:41	16:43 (FO 07) 17:03 (FO 07)	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50
17	07:37 17:01 55	13:24 (FO 06) 14:19 (FO 06)	07:05 17:42	16:42 (FO 07) 17:04 (FO 07)	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51
18	07:37 17:03 53	13:26 (FO 06) 14:19 (FO 06)	07:04 17:43	16:42 (FO 07) 17:05 (FO 07)	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04 50	13:28 (FO 06) 14:18 (FO 06)	07:03 17:45	16:41 (FO 07) 17:05 (FO 07)	06:16 18:19	06:23 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05 48	13:29 (FO 06) 14:17 (FO 06)	07:01 17:46	16:41 (FO 07) 17:06 (FO 07)	06:14 18:20	06:21 19:57	05:42 20:30	05:30 20:52
21	07:35 17:06 46	13:31 (FO 06) 14:17 (FO 06)	07:00 17:47	16:40 (FO 07) 17:05 (FO 07)	06:13 18:22	06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 17:08 43	13:33 (FO 06) 14:16 (FO 06)	06:58 17:48	16:40 (FO 07) 17:06 (FO 07)	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52
23	07:34 17:09 39	13:35 (FO 06) 14:14 (FO 06)	06:56 17:50	16:40 (FO 07) 17:05 (FO 07)	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10 36	13:37 (FO 06) 14:13 (FO 06)	06:55 17:51	16:41 (FO 07) 17:05 (FO 07)	06:07 18:25	06:15 20:01	05:39 20:34	05:30 20:52
25	07:32 17:11 31	13:40 (FO 06) 14:11 (FO 06)	06:53 17:52	16:41 (FO 07) 17:04 (FO 07)	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:53
26	07:31 17:13 25	13:43 (FO 06) 14:08 (FO 06)	06:52 17:54	16:41 (FO 07) 17:03 (FO 07)	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:53
27	07:30 17:14 16	13:49 (FO 06) 14:05 (FO 06)	06:50 17:55	16:43 (FO 07) 17:02 (FO 07)	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:53
28	07:29 17:15		06:49 17:56	16:44 (FO 07) 17:00 (FO 07)	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53
29	07:28 17:17				06:58 19:31	06:07 20:07	05:35 20:39	05:32 20:53
30	07:28 17:18				06:57 19:32	06:06 20:08	05:34 20:39	05:33 20:53
31	07:27 17:19				06:55 19:33		05:34 20:40	
Potential sun hours	292	294	369	401	454	459		
Total, worst case	1458	333	583	666	754	765		

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

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

Calculation: Shadow Shadow receptor: AN - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (154)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October		November		December	
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52		06:43 17:03		07:20 16:36	62 13:01 (FO 06) 14:03 (FO 06)
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50		06:44 17:01		07:21 16:36	63 13:01 (FO 06) 14:04 (FO 06)
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49		06:45 17:00		07:22 16:35	64 13:00 (FO 06) 14:04 (FO 06)
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47		06:46 16:59		07:23 16:35	65 13:00 (FO 06) 14:05 (FO 06)
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45		06:48 16:57		07:24 16:35	66 13:00 (FO 06) 14:06 (FO 06)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43		06:49 16:56		07:25 16:35	66 13:00 (FO 06) 14:06 (FO 06)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42		06:50 16:55		07:26 16:34	67 13:00 (FO 06) 14:07 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40		06:52 16:54		07:27 16:34	67 13:00 (FO 06) 14:07 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38		06:53 16:53		07:28 16:34	67 13:01 (FO 06) 14:08 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37		06:54 16:52		07:29 16:34	68 13:01 (FO 06) 14:09 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35		06:55 16:51		07:30 16:34	69 13:01 (FO 06) 14:10 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	7	17:22 (FO 07) 17:29 (FO 07)		06:57 16:49	68 13:01 (FO 06) 14:09 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	14	17:18 (FO 07) 17:32 (FO 07)		06:58 16:48	69 13:01 (FO 06) 14:10 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	17	17:17 (FO 07) 17:34 (FO 07)		06:59 16:47	69 13:02 (FO 06) 14:11 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	20	17:15 (FO 07) 17:35 (FO 07)	13:21 (FO 06)	07:01 16:46	70 13:02 (FO 06) 14:12 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	22	17:14 (FO 07) 17:36 (FO 07)	13:17 (FO 06)	07:02 16:46	69 13:02 (FO 06) 14:11 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	24	17:12 (FO 07) 17:36 (FO 07)	13:14 (FO 06)	07:03 16:45	69 13:03 (FO 06) 14:12 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	25	17:12 (FO 07) 17:37 (FO 07)	13:11 (FO 06)	07:04 16:44	69 13:03 (FO 06) 14:13 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	25	17:12 (FO 07) 17:37 (FO 07)	13:10 (FO 06)	07:06 16:43	70 13:03 (FO 06) 14:13 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	25	17:11 (FO 07) 17:36 (FO 07)	13:08 (FO 06)	07:07 16:42	70 13:04 (FO 06) 14:14 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	25	17:11 (FO 07) 17:36 (FO 07)	13:06 (FO 06)	07:08 16:41	70 13:04 (FO 06) 14:14 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	25	17:11 (FO 07) 17:36 (FO 07)	13:06 (FO 06)	07:09 16:41	70 13:05 (FO 06) 14:15 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	24	17:11 (FO 07) 17:35 (FO 07)	13:05 (FO 06)	07:11 16:40	70 13:05 (FO 06) 14:15 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	23	17:11 (FO 07) 17:34 (FO 07)	13:04 (FO 06)	07:12 16:39	70 13:06 (FO 06) 14:16 (FO 06)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	21	16:13 (FO 07) 16:34 (FO 07)	13:03 (FO 06)	07:13 16:39	70 13:06 (FO 06) 14:16 (FO 06)
26	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	20	16:13 (FO 07) 16:33 (FO 07)	13:03 (FO 06)	07:14 16:38	69 13:07 (FO 06) 14:16 (FO 06)
27	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:10	17	16:14 (FO 07) 16:31 (FO 07)	13:02 (FO 06)	07:15 16:38	69 13:08 (FO 06) 14:17 (FO 06)
28	05:55 20:36	06:28 19:53	07:02 18:58	06:38 17:08	12	16:17 (FO 07) 16:29 (FO 07)	13:01 (FO 06)	07:16 16:37	70 13:08 (FO 06) 14:18 (FO 06)
29	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	5	16:20 (FO 07) 16:25 (FO 07)	13:01 (FO 06)	07:18 16:37	69 13:09 (FO 06) 14:18 (FO 06)
30	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05		07:19 16:36	13:00 (FO 06)	07:19 16:36	69 13:09 (FO 06) 14:18 (FO 06)
31	05:58 20:33	06:31 19:47		06:41 17:04			07:41 16:43	07:41 16:43	69 13:09 (FO 06) 14:18 (FO 06)
Potential sun hours	465	432	376	343		293		281	
Total, worst case				351		732		2113	

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

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

Calculation: Shadow Shadow receptor: AO - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (155)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:44	13:08 (FO 06) 14:20 (FO 06)	07:25 17:21	06:47 17:57	16:46 (FO 07) 17:02 (FO 07)	06:53 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45	13:08 (FO 06) 14:20 (FO 06)	07:24 17:22	06:45 17:59	16:48 (FO 07) 16:59 (FO 07)	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46	13:09 (FO 06) 14:20 (FO 06)	07:23 17:23	06:44 18:00	06:50 19:37	06:50 20:12	06:02 20:12	05:32 20:43
4	07:41 16:47	13:10 (FO 06) 14:21 (FO 06)	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	06:00 20:13	05:32 20:43
5	07:41 16:48	13:10 (FO 06) 14:21 (FO 06)	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:59 20:14	05:31 20:44
6	07:41 16:49	13:11 (FO 06) 14:22 (FO 06)	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:58 20:15	05:31 20:45
7	07:41 16:50	13:12 (FO 06) 14:22 (FO 06)	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:56 20:16	05:31 20:45
8	07:41 16:51	13:13 (FO 06) 14:22 (FO 06)	07:18 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:55 20:17	05:30 20:46
9	07:40 16:52	13:13 (FO 06) 14:22 (FO 06)	07:16 17:31	06:34 18:07	06:39 19:44	05:54 20:18	05:54 20:18	05:30 20:47
10	07:40 16:53	13:14 (FO 06) 14:22 (FO 06)	07:15 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:53 20:19	05:30 20:47
11	07:40 16:54	13:16 (FO 06) 14:23 (FO 06)	07:14 17:34	06:30 18:10	06:36 19:46	05:51 20:21	05:51 20:21	05:30 20:48
12	07:40 16:55	13:16 (FO 06) 14:22 (FO 06)	07:12 17:35	06:28 18:11	06:34 19:47	05:50 20:22	05:50 20:22	05:30 20:48
13	07:39 16:57	13:17 (FO 06) 14:23 (FO 06)	07:11 17:37	06:27 18:12	06:32 19:48	05:49 20:23	05:49 20:23	05:29 20:49
14	07:39 16:58	13:18 (FO 06) 14:22 (FO 06)	07:10 17:38	16:51 (FO 07) 16:58 (FO 07)	06:25 18:13	06:31 19:50	05:48 20:24	05:29 20:49
15	07:38 16:59	13:19 (FO 06) 14:22 (FO 06)	07:08 17:39	16:47 (FO 07) 17:01 (FO 07)	06:23 18:15	06:29 19:51	05:47 20:25	05:29 20:50
16	07:38 17:00	13:20 (FO 06) 14:22 (FO 06)	07:07 17:41	16:46 (FO 07) 17:03 (FO 07)	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50
17	07:37 17:01	13:20 (FO 06) 14:21 (FO 06)	07:05 17:42	16:44 (FO 07) 17:04 (FO 07)	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51
18	07:37 17:03	13:22 (FO 06) 14:22 (FO 06)	07:04 17:43	16:43 (FO 07) 17:05 (FO 07)	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04	13:23 (FO 06) 14:21 (FO 06)	07:03 17:45	16:42 (FO 07) 17:05 (FO 07)	06:16 18:19	06:23 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05	13:24 (FO 06) 14:20 (FO 06)	07:01 17:46	16:42 (FO 07) 17:06 (FO 07)	06:14 18:20	06:21 19:57	05:42 20:30	05:30 20:52
21	07:35 17:06	13:26 (FO 06) 14:20 (FO 06)	07:00 17:47	16:41 (FO 07) 17:06 (FO 07)	06:13 18:22	06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 17:08	13:28 (FO 06) 14:19 (FO 06)	06:58 17:48	16:41 (FO 07) 17:07 (FO 07)	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52
23	07:34 17:09	13:29 (FO 06) 14:18 (FO 06)	06:56 17:50	16:41 (FO 07) 17:06 (FO 07)	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10	13:31 (FO 06) 14:17 (FO 06)	06:55 17:51	16:42 (FO 07) 17:07 (FO 07)	06:07 18:25	06:15 20:01	05:39 20:34	05:30 20:52
25	07:32 17:11	13:33 (FO 06) 14:16 (FO 06)	06:53 17:52	16:42 (FO 07) 17:06 (FO 07)	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:53
26	07:31 17:13	13:35 (FO 06) 14:15 (FO 06)	06:52 17:54	16:42 (FO 07) 17:05 (FO 07)	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:53
27	07:30 17:14	13:38 (FO 06) 14:14 (FO 06)	06:50 17:55	16:43 (FO 07) 17:04 (FO 07)	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:53
28	07:29 17:15	13:41 (FO 06) 14:12 (FO 06)	06:49 17:56	16:44 (FO 07) 17:03 (FO 07)	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53
29	07:28 17:17	13:45 (FO 06) 14:09 (FO 06)			06:58 19:31	06:07 20:07	05:35 20:39	05:32 20:53
30	07:28 17:18	13:51 (FO 06) 14:04 (FO 06)			06:57 19:32	06:06 20:08	05:34 20:39	05:33 20:53
31	07:27 17:19				06:55 19:33		05:34 20:40	
Potential sun hours	292	294	369	401	454	459		
Total, worst case	1714	315	27					

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

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

Calculation: Shadow Shadow receptor: AO - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (155)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December			
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36	12:58 (FO 06) 14:05 (FO 06)		
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 17:01	07:21 16:36	67 12:57 (FO 06) 14:05 (FO 06)		
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35	68 12:57 (FO 06) 14:06 (FO 06)		
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 16:59	07:23 16:35	69 12:57 (FO 06) 14:06 (FO 06)		
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35	70 12:57 (FO 06) 14:07 (FO 06)		
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35	71 12:57 (FO 06) 14:08 (FO 06)		
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:34	70 12:58 (FO 06) 14:08 (FO 06)		
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 16:54	07:27 16:34	71 12:58 (FO 06) 14:09 (FO 06)		
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	06:53 16:53	07:28 16:34	72 12:58 (FO 06) 14:10 (FO 06)		
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	06:54 16:52	07:29 16:34	72 12:58 (FO 06) 14:10 (FO 06)		
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	17:24 (FO 07) 17:30 (FO 07)	06:55 16:51	07:30 16:34	72 12:59 (FO 06) 14:11 (FO 06)	
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	17:20 (FO 07) 17:33 (FO 07)	06:57 16:49	13:21 (FO 06) 13:36 (FO 06)	07:31 16:34	73 12:58 (FO 06) 14:11 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	17:17 (FO 07) 17:35 (FO 07)	06:58 16:48	13:16 (FO 06) 13:40 (FO 06)	07:31 16:35	72 12:59 (FO 06) 14:11 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	17:16 (FO 07) 17:37 (FO 07)	06:59 16:47	13:13 (FO 06) 13:44 (FO 06)	07:32 16:35	73 12:59 (FO 06) 14:12 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	17:15 (FO 07) 17:37 (FO 07)	07:01 16:46	13:10 (FO 06) 13:46 (FO 06)	07:33 16:35	73 13:00 (FO 06) 14:13 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	17:14 (FO 07) 17:37 (FO 07)	07:02 16:46	13:09 (FO 06) 13:49 (FO 06)	07:34 16:35	73 13:00 (FO 06) 14:13 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	17:13 (FO 07) 17:37 (FO 07)	07:03 16:45	13:07 (FO 06) 13:50 (FO 06)	07:34 16:35	73 13:00 (FO 06) 14:13 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	17:13 (FO 07) 17:38 (FO 07)	07:04 16:44	13:05 (FO 06) 13:51 (FO 06)	07:35 16:36	73 13:01 (FO 06) 14:14 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:12 (FO 07) 17:38 (FO 07)	07:06 16:43	13:04 (FO 06) 13:53 (FO 06)	07:36 16:36	73 13:01 (FO 06) 14:14 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:12 (FO 07) 17:37 (FO 07)	07:07 16:42	13:03 (FO 06) 13:54 (FO 06)	07:36 16:36	73 13:02 (FO 06) 14:15 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:12 (FO 07) 17:37 (FO 07)	07:08 16:41	13:01 (FO 06) 13:55 (FO 06)	07:37 16:37	73 13:02 (FO 06) 14:15 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:13 (FO 07) 17:37 (FO 07)	07:09 16:41	13:01 (FO 06) 13:57 (FO 06)	07:37 16:37	73 13:03 (FO 06) 14:16 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	17:13 (FO 07) 17:36 (FO 07)	07:11 16:40	13:00 (FO 06) 13:58 (FO 06)	07:38 16:38	73 13:03 (FO 06) 14:16 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	17:13 (FO 07) 17:35 (FO 07)	07:12 16:39	12:59 (FO 06) 13:59 (FO 06)	07:38 16:38	73 13:04 (FO 06) 14:17 (FO 06)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	16:15 (FO 07) 16:34 (FO 07)	07:13 16:39	12:58 (FO 06) 13:59 (FO 06)	07:39 16:39	73 13:04 (FO 06) 14:17 (FO 06)
26	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	16:16 (FO 07) 16:32 (FO 07)	07:14 16:38	12:59 (FO 06) 14:01 (FO 06)	07:39 16:40	73 13:04 (FO 06) 14:17 (FO 06)
27	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:10	16:17 (FO 07) 16:30 (FO 07)	07:15 16:38	12:58 (FO 06) 14:02 (FO 06)	07:40 16:40	74 13:05 (FO 06) 14:19 (FO 06)
28	05:55 20:36	06:28 19:53	07:02 18:58	06:38 17:08	16:22 (FO 07) 16:27 (FO 07)	07:16 16:37	12:58 (FO 06) 14:02 (FO 06)	07:40 16:41	73 13:06 (FO 06) 14:19 (FO 06)
29	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07		07:18 16:37	12:57 (FO 06) 14:03 (FO 06)	07:40 16:42	73 13:06 (FO 06) 14:19 (FO 06)
30	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05		07:19 16:36	12:57 (FO 06) 14:03 (FO 06)	07:40 16:43	72 13:07 (FO 06) 14:19 (FO 06)
31	05:58 20:33	06:31 19:47		06:41 17:04			07:41 16:43	07:41 16:43	72 13:07 (FO 06) 14:19 (FO 06)
Potential sun hours	465	432	376	343	293	281			
Total, worst case				350	946	2229			

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

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

Calculation: Shadow Shadow receptor: AP - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (156)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:44	13:11 (FO 06) 14:23 (FO 06)	07:25 17:21	06:47 17:57	16:46 (FO 07) 17:03 (FO 07)	06:53 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45	13:11 (FO 06) 14:24 (FO 06)	07:24 17:22	06:45 17:59	16:48 (FO 07) 17:00 (FO 07)	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46	13:12 (FO 06) 14:24 (FO 06)	07:23 17:23	06:44 18:00	16:51 (FO 07) 16:56 (FO 07)	06:50 19:37	06:02 20:12	05:32 20:43
4	07:41 16:47	13:13 (FO 06) 14:25 (FO 06)	07:22 17:25	06:42 18:01		06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48	13:14 (FO 06) 14:25 (FO 06)	07:21 17:26	06:40 18:02		06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49	13:14 (FO 06) 14:25 (FO 06)	07:20 17:27	06:39 18:04		06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50	13:15 (FO 06) 14:26 (FO 06)	07:19 17:29	06:37 18:05		06:43 19:41	05:56 20:16	05:31 20:45
8	07:41 16:51	13:16 (FO 06) 14:26 (FO 06)	07:18 17:30	06:35 18:06		06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52	13:16 (FO 06) 14:26 (FO 06)	07:16 17:31	06:34 18:07		06:39 19:44	05:54 20:18	05:30 20:47
10	07:40 16:53	13:17 (FO 06) 14:26 (FO 06)	07:15 17:33	06:32 18:08		06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54	13:18 (FO 06) 14:27 (FO 06)	07:14 17:34	06:30 18:10		06:36 19:46	05:51 20:21	05:30 20:48
12	07:40 16:55	13:19 (FO 06) 14:26 (FO 06)	07:12 17:35	06:28 18:11		06:34 19:47	05:50 20:22	05:30 20:48
13	07:39 16:57	13:20 (FO 06) 14:27 (FO 06)	07:11 17:37	06:27 18:12		06:32 19:48	05:49 20:23	05:29 20:49
14	07:39 16:58	13:20 (FO 06) 14:26 (FO 06)	07:10 17:38	06:25 18:13	16:55 (FO 07) 16:56 (FO 07)	06:31 19:50	05:48 20:24	05:29 20:49
15	07:38 16:59	13:22 (FO 06) 14:26 (FO 06)	07:08 17:39	06:23 18:15	16:49 (FO 07) 17:00 (FO 07)	06:29 19:51	05:47 20:25	05:29 20:50
16	07:38 17:00	13:22 (FO 06) 14:26 (FO 06)	07:07 17:41	06:21 18:16	16:47 (FO 07) 17:03 (FO 07)	06:27 19:52	05:46 20:26	05:29 20:50
17	07:37 17:01	13:23 (FO 06) 14:25 (FO 06)	07:05 17:42	06:20 18:17	16:45 (FO 07) 17:04 (FO 07)	06:26 19:53	05:45 20:27	05:29 20:51
18	07:37 17:03	13:25 (FO 06) 14:26 (FO 06)	07:04 17:43	06:18 18:18	16:44 (FO 07) 17:06 (FO 07)	06:24 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04	13:26 (FO 06) 14:25 (FO 06)	07:03 17:45	06:16 18:19	16:43 (FO 07) 17:06 (FO 07)	06:23 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05	13:27 (FO 06) 14:24 (FO 06)	07:01 17:46	06:14 18:20	16:43 (FO 07) 17:07 (FO 07)	06:21 19:57	05:42 20:30	05:30 20:52
21	07:35 17:06	13:29 (FO 06) 14:25 (FO 06)	07:00 17:47	06:13 18:22	16:42 (FO 07) 17:07 (FO 07)	06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 17:08	13:30 (FO 06) 14:24 (FO 06)	06:58 17:48	06:11 18:23	16:42 (FO 07) 17:07 (FO 07)	06:18 19:59	05:40 20:32	05:30 20:52
23	07:34 17:09	13:31 (FO 06) 14:23 (FO 06)	06:56 17:50	06:09 18:24	16:42 (FO 07) 17:07 (FO 07)	06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10	13:33 (FO 06) 14:22 (FO 06)	06:55 17:51	06:07 18:25	16:42 (FO 07) 17:07 (FO 07)	06:15 20:01	05:39 20:34	05:30 20:52
25	07:32 17:11	13:34 (FO 06) 14:21 (FO 06)	06:53 17:52	06:05 18:26	16:42 (FO 07) 17:07 (FO 07)	06:13 20:02	05:38 20:35	05:31 20:53
26	07:31 17:13	13:36 (FO 06) 14:19 (FO 06)	06:52 17:54	06:04 18:27	16:42 (FO 07) 17:06 (FO 07)	06:12 20:03	05:37 20:36	05:31 20:53
27	07:30 17:14	13:40 (FO 06) 14:19 (FO 06)	06:50 17:55	06:02 18:29	16:43 (FO 07) 17:05 (FO 07)	06:10 20:05	05:36 20:37	05:31 20:53
28	07:29 17:15	13:42 (FO 06) 14:17 (FO 06)	06:49 17:56	06:00 18:30	16:44 (FO 07) 17:04 (FO 07)	06:09 20:06	05:36 20:38	05:32 20:53
29	07:28 17:17	13:45 (FO 06) 14:15 (FO 06)		06:58 19:31		06:07 20:07	05:35 20:39	05:32 20:53
30	07:28 17:18	13:49 (FO 06) 14:12 (FO 06)		06:57 19:32		06:06 20:08	05:34 20:39	05:33 20:53
31	07:27 17:19	13:55 (FO 06) 14:06 (FO 06)		06:55 19:33			05:34 20:40	
Potential sun hours	292	294	369	401	454	459		
Total, worst case	1786	307	34					

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

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

Calculation: Shadow Shadow receptor: AP - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (156)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October		November		December
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52		06:43 17:03		07:20 16:36 68
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50		06:44 17:01		07:21 16:36 69
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49		06:45 17:00		07:22 16:35 70
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47		06:46 16:59		07:23 16:35 70
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45		06:48 16:57		07:24 16:35 71
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43		06:49 16:56		07:25 16:35 71
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42		06:50 16:55		07:26 16:34 71
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40		06:52 16:54		07:27 16:34 72
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38		06:53 16:53		07:28 16:34 72
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37		06:54 16:52		07:29 16:34 73
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	9	17:23 (FO 07) 17:32 (FO 07)	06:55 16:51	13:26 (FO 06) 13:38 (FO 06) 72
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	15	17:20 (FO 07) 17:35 (FO 07)	06:57 16:49	13:20 (FO 06) 13:43 (FO 06) 73
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	18	17:18 (FO 07) 17:36 (FO 07)	06:58 16:48	13:16 (FO 06) 13:46 (FO 06) 73
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	21	17:17 (FO 07) 17:38 (FO 07)	06:59 16:47	13:14 (FO 06) 13:49 (FO 06) 74
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	23	17:15 (FO 07) 17:38 (FO 07)	07:01 16:46	13:12 (FO 06) 13:51 (FO 06) 73
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	24	17:14 (FO 07) 17:39 (FO 07)	07:02 16:46	13:10 (FO 06) 13:53 (FO 06) 73
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	25	17:13 (FO 07) 17:38 (FO 07)	07:03 16:45	13:08 (FO 06) 13:55 (FO 06) 74
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	25	17:14 (FO 07) 17:39 (FO 07)	07:04 16:44	13:07 (FO 06) 13:56 (FO 06) 74
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	26	17:13 (FO 07) 17:39 (FO 07)	07:06 16:43	13:06 (FO 06) 13:58 (FO 06) 74
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	25	17:13 (FO 07) 17:38 (FO 07)	07:07 16:42	13:05 (FO 06) 13:59 (FO 06) 74
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	24	17:13 (FO 07) 17:37 (FO 07)	07:08 16:41	13:04 (FO 06) 14:00 (FO 06) 74
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	23	17:14 (FO 07) 17:37 (FO 07)	07:09 16:41	13:04 (FO 06) 14:01 (FO 06) 74
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	22	17:14 (FO 07) 17:36 (FO 07)	07:11 16:40	13:03 (FO 06) 14:02 (FO 06) 74
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	21	17:14 (FO 07) 17:35 (FO 07)	07:12 16:39	13:02 (FO 06) 14:03 (FO 06) 74
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	18	16:16 (FO 07) 16:34 (FO 07)	07:13 16:39	13:01 (FO 06) 14:03 (FO 06) 74
26	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	15	16:17 (FO 07) 16:32 (FO 07)	07:14 16:38	13:01 (FO 06) 14:05 (FO 06) 74
27	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:10	10	16:19 (FO 07) 16:29 (FO 07)	07:15 16:38	13:01 (FO 06) 14:05 (FO 06) 73
28	05:55 20:36	06:28 19:53	07:02 18:58	06:38 17:08			07:16 16:37	13:00 (FO 06) 14:06 (FO 06) 73
29	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07			07:18 16:37	13:00 (FO 06) 14:07 (FO 06) 74
30	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05			07:19 16:36	13:00 (FO 06) 14:07 (FO 06) 73
31	05:58 20:33	06:31 19:47		06:41 17:04				07:41 16:43 73
Potential sun hours	465	432	376	343		293		281
Total, worst case				344		1007		2251

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

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

Calculation: Shadow Shadow receptor: AQ - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (157)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June
1	07:41 16:44 76	13:13 (FO 06) 14:29 (FO 06) 17:21 35	07:25 13:47 (FO 06) 06:47	14:22 (FO 06) 17:57 20	16:46 (FO 07) 17:06 (FO 07) 06:53	06:04 20:09 20:41
2	07:41 16:45 76	13:14 (FO 06) 14:30 (FO 06) 17:22 30	07:24 13:50 (FO 06) 14:20 (FO 06) 17:59 18	06:45 06:44 17:59 18	16:47 (FO 07) 17:05 (FO 07) 06:51	06:03 20:10 20:42
3	07:41 16:46 76	13:14 (FO 06) 14:30 (FO 06) 17:23 23	07:23 13:54 (FO 06) 14:17 (FO 06) 18:00 14	06:44 18:00 14	16:48 (FO 07) 17:02 (FO 07) 06:50	06:02 20:12 20:43
4	07:41 16:47 75	13:15 (FO 06) 14:30 (FO 06) 17:25 9	07:22 14:02 (FO 06) 14:11 (FO 06) 18:01 8	06:42 18:01 8	16:51 (FO 07) 16:59 (FO 07) 06:48	06:00 20:13 20:43
5	07:41 16:48 75	13:16 (FO 06) 14:31 (FO 06) 17:26	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14 20:44
6	07:41 16:49 75	13:16 (FO 06) 14:31 (FO 06) 17:27	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15 20:45
7	07:41 16:50 75	13:17 (FO 06) 14:32 (FO 06) 17:29	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16 20:45
8	07:41 16:51 74	13:18 (FO 06) 14:32 (FO 06) 17:30	07:18 17:30	06:35 18:06	06:41 19:43	05:55 20:17 20:46
9	07:40 16:52 74	13:18 (FO 06) 14:32 (FO 06) 17:31	07:16 17:31	06:34 18:07	06:39 19:44	05:54 20:18 20:47
10	07:40 16:53 74	13:19 (FO 06) 14:33 (FO 06) 17:33	07:15 17:33	06:32 18:08	06:37 19:45	05:53 20:19 20:47
11	07:40 16:54 73	13:20 (FO 06) 14:33 (FO 06) 17:34	07:14 17:34	06:30 18:10	06:36 19:46	05:51 20:21 20:48
12	07:40 16:55 73	13:20 (FO 06) 14:33 (FO 06) 17:35	07:12 17:35	06:28 18:11	06:34 19:47	05:50 20:22 20:48
13	07:39 16:57 72	13:21 (FO 06) 14:33 (FO 06) 17:37	07:11 17:37	06:27 18:12	06:32 19:48	05:49 20:23 20:49
14	07:39 16:58 71	13:22 (FO 06) 14:33 (FO 06) 17:38	07:10 17:38	06:25 18:13	06:31 19:50	05:48 20:24 20:49
15	07:38 16:59 70	13:23 (FO 06) 14:33 (FO 06) 17:39	07:08 17:39	06:23 18:15	06:29 19:51	05:47 20:25 20:50
16	07:38 17:00 70	13:23 (FO 06) 14:33 (FO 06) 17:41 8	07:07 17:41 8	16:53 (FO 07) 17:01 (FO 07) 06:21	06:27 19:52	05:46 20:26 20:50
17	07:37 17:01 69	13:24 (FO 06) 14:33 (FO 06) 17:42 14	07:05 17:42 14	16:49 (FO 07) 17:03 (FO 07) 06:20	06:26 19:53	05:45 20:27 20:51
18	07:37 17:03 68	13:25 (FO 06) 14:33 (FO 06) 17:43 18	07:04 17:43 18	16:48 (FO 07) 17:06 (FO 07) 06:18	06:24 19:54	05:44 20:28 20:51
19	07:36 17:04 67	13:26 (FO 06) 14:33 (FO 06) 17:45 20	07:03 17:45 20	16:46 (FO 07) 17:06 (FO 07) 06:16	06:23 19:55	05:43 20:29 20:51
20	07:36 17:05 65	13:27 (FO 06) 14:32 (FO 06) 17:46 22	07:01 17:46 22	16:46 (FO 07) 17:08 (FO 07) 06:14	06:21 19:57	05:42 20:30 20:52
21	07:35 17:06 65	13:28 (FO 06) 14:33 (FO 06) 17:47 24	07:00 17:47 24	16:44 (FO 07) 17:08 (FO 07) 06:13	06:19 19:58	05:41 20:31 20:52
22	07:34 17:08 63	13:29 (FO 06) 14:32 (FO 06) 17:48 25	06:58 17:48 25	16:44 (FO 07) 17:09 (FO 07) 06:11	06:18 19:59	05:40 20:32 20:52
23	07:34 17:09 62	13:30 (FO 06) 14:32 (FO 06) 17:48 26	06:56 17:50 26	16:43 (FO 07) 17:09 (FO 07) 06:09	06:16 20:00	05:39 20:33 20:52
24	07:33 17:10 60	13:31 (FO 06) 14:31 (FO 06) 17:51 25	06:55 17:51 25	16:44 (FO 07) 17:09 (FO 07) 06:07	06:15 20:01	05:39 20:34 20:52
25	07:32 17:11 57	13:33 (FO 06) 14:30 (FO 06) 17:52 26	06:53 17:52 26	16:43 (FO 07) 17:09 (FO 07) 06:05	06:13 20:02	05:38 20:35 20:53
26	07:31 17:13 56	13:34 (FO 06) 14:30 (FO 06) 17:54 25	06:52 17:54 25	16:43 (FO 07) 17:08 (FO 07) 06:04	06:12 20:03	05:37 20:36 20:53
27	07:30 17:14 53	13:37 (FO 06) 14:30 (FO 06) 17:55 24	06:50 17:55 24	16:44 (FO 07) 17:08 (FO 07) 06:02	06:10 20:05	05:36 20:37 20:53
28	07:29 17:15 51	13:38 (FO 06) 14:29 (FO 06) 17:56 23	06:49 17:56 23	16:44 (FO 07) 17:07 (FO 07) 06:00	06:09 20:06	05:36 20:38 20:53
29	07:28 17:17 48	13:40 (FO 06) 14:28 (FO 06) 17:57 22	06:58 17:57 22	06:58 19:31	06:07 20:07	05:35 20:39 20:53
30	07:28 17:18 44	13:42 (FO 06) 14:26 (FO 06) 17:58 21	06:57 17:58 21	06:57 19:32	06:06 20:08	05:34 20:39 20:53
31	07:27 17:19 40	13:44 (FO 06) 14:24 (FO 06) 17:59 20	06:55 17:59 20	06:55 19:33	05:34 20:40	20:40
Potential sun hours	292	294	369	401	454	459
Total, worst case	2047	377	60			

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

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

Calculation: Shadow Shadow receptor: AQ - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (157)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October		November		December		
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52		06:43 17:03		07:20 16:36	73 13:02 (FO 06)	
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50		06:44 17:01		07:21 16:36	74 13:02 (FO 06)	
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49		06:45 17:00		07:22 16:35	74 13:02 (FO 06)	
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47		06:46 16:59		07:23 16:35	75 13:02 (FO 06)	
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45		06:48 16:57		07:24 16:35	75 13:02 (FO 06)	
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43		06:49 16:56		07:25 16:35	74 13:03 (FO 06)	
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42		06:50 16:55	12	13:30 (FO 06) 13:42 (FO 06)	07:26 16:34	75 13:03 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40		06:52 16:54	23	13:25 (FO 06) 13:48 (FO 06)	07:27 16:34	76 13:03 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38		06:53 16:53	31	13:20 (FO 06) 13:51 (FO 06)	07:28 16:34	76 13:03 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	12	17:24 (FO 07) 17:36 (FO 07)	36	13:17 (FO 06) 13:53 (FO 06)	07:29 16:34	76 13:04 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	16	17:21 (FO 07) 17:37 (FO 07)	41	13:15 (FO 06) 13:56 (FO 06)	07:30 16:34	76 13:04 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	19	17:19 (FO 07) 17:38 (FO 07)	44	13:13 (FO 06) 13:57 (FO 06)	07:31 16:34	76 13:04 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	21	17:18 (FO 07) 17:39 (FO 07)	48	13:11 (FO 06) 13:59 (FO 06)	07:31 16:35	77 13:04 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	23	17:17 (FO 07) 17:40 (FO 07)	51	13:10 (FO 06) 14:01 (FO 06)	07:32 16:35	76 13:05 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	25	17:16 (FO 07) 17:41 (FO 07)	54	13:08 (FO 06) 14:02 (FO 06)	07:33 16:35	76 13:06 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	25	17:15 (FO 07) 17:40 (FO 07)	56	13:08 (FO 06) 14:04 (FO 06)	07:34 16:35	77 13:05 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	25	17:15 (FO 07) 17:40 (FO 07)	57	13:07 (FO 06) 14:04 (FO 06)	07:34 16:35	77 13:06 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	26	17:15 (FO 07) 17:41 (FO 07)	60	13:05 (FO 06) 14:05 (FO 06)	07:35 16:36	76 13:07 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	25	17:15 (FO 07) 17:40 (FO 07)	62	13:05 (FO 06) 14:07 (FO 06)	07:36 16:36	76 13:07 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	24	17:15 (FO 07) 17:39 (FO 07)	63	13:04 (FO 06) 14:07 (FO 06)	07:36 16:36	76 13:08 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	23	17:15 (FO 07) 17:38 (FO 07)	65	13:03 (FO 06) 14:08 (FO 06)	07:37 16:37	76 13:08 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	22	17:16 (FO 07) 17:38 (FO 07)	65	13:04 (FO 06) 14:09 (FO 06)	07:37 16:37	76 13:09 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	20	17:17 (FO 07) 17:37 (FO 07)	67	13:03 (FO 06) 14:10 (FO 06)	07:38 16:38	76 13:09 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	17	17:18 (FO 07) 17:35 (FO 07)	68	13:02 (FO 06) 14:10 (FO 06)	07:38 16:38	76 13:10 (FO 06)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	13	16:20 (FO 07) 16:33 (FO 07)	69	13:02 (FO 06) 14:11 (FO 06)	07:39 16:39	76 13:10 (FO 06)
26	05:53 20:38	06:26 19:56	07:00 19:01	07:35 17:11	7	16:23 (FO 07) 16:30 (FO 07)	70	13:02 (FO 06) 14:12 (FO 06)	07:39 16:40	77 13:11 (FO 06)
27	05:54 20:37	06:27 19:54	07:01 18:59	07:36 17:10		07:15 16:38	70	13:02 (FO 06) 14:12 (FO 06)	07:40 16:40	77 13:11 (FO 06)
28	05:55 20:36	06:28 19:53	07:02 18:58	07:38 17:08		07:16 16:37	71	13:02 (FO 06) 14:13 (FO 06)	07:40 16:41	76 13:12 (FO 06)
29	05:56 20:35	06:29 19:51	07:03 18:56	07:39 17:07		07:18 16:37	72	13:01 (FO 06) 14:13 (FO 06)	07:40 16:42	76 13:12 (FO 06)
30	05:57 20:34	06:30 19:49	07:04 18:54	07:40 17:05		07:19 16:36	73	13:01 (FO 06) 14:14 (FO 06)	07:40 16:43	77 13:12 (FO 06)
31	05:58 20:33	06:31 19:47		07:41 17:04				07:41 16:43	76 13:13 (FO 06)	
Potential sun hours	465	432	376	343		293		281		
Total, worst case				343		1328		2350		

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

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

Calculation: Shadow Shadow receptor: AR - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (158)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June			
1	07:41 16:44 79	13:10 (FO 06) 14:29 (FO 06)	07:25 17:21 47	13:39 (FO 06) 14:26 (FO 06)	06:47 17:57 22	16:46 (FO 07) 17:08 (FO 07)	06:53 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45 78	13:11 (FO 06) 14:29 (FO 06)	07:24 17:22 42	13:42 (FO 06) 14:24 (FO 06)	06:45 17:59 20	16:46 (FO 07) 17:06 (FO 07)	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46 78	13:12 (FO 06) 14:30 (FO 06)	07:23 17:23 39	13:44 (FO 06) 14:23 (FO 06)	06:44 18:00 18	16:47 (FO 07) 17:05 (FO 07)	06:50 19:37	06:02 20:12	05:32 20:43
4	07:41 16:47 78	13:12 (FO 06) 14:30 (FO 06)	07:22 17:25 32	13:48 (FO 06) 14:20 (FO 06)	06:42 18:01 14	16:48 (FO 07) 17:02 (FO 07)	06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48 78	13:13 (FO 06) 14:31 (FO 06)	07:21 17:26 25	13:52 (FO 06) 14:17 (FO 06)	06:40 18:02 7	16:52 (FO 07) 16:59 (FO 07)	06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49 78	13:13 (FO 06) 14:31 (FO 06)	07:20 17:27 15	13:57 (FO 06) 14:12 (FO 06)	06:39 18:04		06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50 78	13:14 (FO 06) 14:32 (FO 06)	07:19 17:29		06:37 18:05		06:43 19:41	05:56 20:16	05:31 20:45
8	07:41 16:51 77	13:15 (FO 06) 14:32 (FO 06)	07:18 17:30		06:35 18:06		06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52 77	13:15 (FO 06) 14:32 (FO 06)	07:16 17:31		06:34 18:07		06:39 19:44	05:54 20:18	05:30 20:47
10	07:40 16:53 76	13:16 (FO 06) 14:32 (FO 06)	07:15 17:33		06:32 18:08		06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54 76	13:17 (FO 06) 14:33 (FO 06)	07:14 17:34		06:30 18:10		06:36 19:46	05:51 20:21	05:30 20:48
12	07:40 16:55 76	13:17 (FO 06) 14:33 (FO 06)	07:12 17:35		06:28 18:11		06:34 19:47	05:50 20:22	05:30 20:48
13	07:39 16:57 75	13:18 (FO 06) 14:33 (FO 06)	07:11 17:37		06:27 18:12		06:32 19:48	05:49 20:23	05:29 20:49
14	07:39 16:58 75	13:18 (FO 06) 14:33 (FO 06)	07:10 17:38		06:25 18:13		06:31 19:50	05:48 20:24	05:29 20:49
15	07:38 16:59 75	13:19 (FO 06) 14:34 (FO 06)	07:08 17:39		06:23 18:15		06:29 19:51	05:47 20:25	05:29 20:50
16	07:38 17:00 73	13:20 (FO 06) 14:33 (FO 06)	07:07 17:41		06:21 18:16		06:27 19:52	05:46 20:26	05:29 20:50
17	07:37 17:01 73	13:20 (FO 06) 14:33 (FO 06)	07:05 17:42 10	16:52 (FO 07) 17:02 (FO 07)	06:20 18:17		06:26 19:53	05:45 20:27	05:29 20:51
18	07:37 17:03 73	13:21 (FO 06) 14:34 (FO 06)	07:04 17:43 15	16:50 (FO 07) 17:05 (FO 07)	06:18 18:18		06:24 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04 71	13:22 (FO 06) 14:33 (FO 06)	07:03 17:45 18	16:48 (FO 07) 17:06 (FO 07)	06:16 18:19		06:23 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05 70	13:23 (FO 06) 14:33 (FO 06)	07:01 17:46 21	16:47 (FO 07) 17:08 (FO 07)	06:14 18:20		06:21 19:57	05:42 20:30	05:30 20:52
21	07:35 17:06 69	13:24 (FO 06) 14:33 (FO 06)	07:00 17:47 22	16:46 (FO 07) 17:08 (FO 07)	06:13 18:22		06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 17:08 68	13:25 (FO 06) 14:33 (FO 06)	06:58 17:48 24	16:45 (FO 07) 17:09 (FO 07)	06:11 18:23		06:18 19:59	05:40 20:32	05:30 20:52
23	07:34 17:09 67	13:26 (FO 06) 14:33 (FO 06)	06:56 17:50 25	16:44 (FO 07) 17:09 (FO 07)	06:09 18:24		06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10 65	13:27 (FO 06) 14:32 (FO 06)	06:55 17:51 25	16:45 (FO 07) 17:10 (FO 07)	06:07 18:25		06:15 20:01	05:39 20:34	05:30 20:52
25	07:32 17:11 64	13:28 (FO 06) 14:32 (FO 06)	06:53 17:52 26	16:44 (FO 07) 17:10 (FO 07)	06:05 18:26		06:13 20:02	05:38 20:35	05:31 20:53
26	07:31 17:13 62	13:29 (FO 06) 14:31 (FO 06)	06:52 17:54 25	16:44 (FO 07) 17:09 (FO 07)	06:04 18:27		06:12 20:03	05:37 20:36	05:31 20:53
27	07:30 17:14 60	13:31 (FO 06) 14:31 (FO 06)	06:50 17:55 25	16:44 (FO 07) 17:09 (FO 07)	06:02 18:29		06:10 20:05	05:36 20:37	05:31 20:53
28	07:29 17:15 58	13:33 (FO 06) 14:31 (FO 06)	06:49 17:56 24	16:44 (FO 07) 17:08 (FO 07)	06:00 18:30		06:09 20:06	05:36 20:38	05:32 20:53
29	07:28 17:17 56	13:34 (FO 06) 14:30 (FO 06)			06:58 19:31		06:07 20:07	05:35 20:39	05:32 20:53
30	07:28 17:18 53	13:36 (FO 06) 14:29 (FO 06)			06:57 19:32		06:06 20:08	05:34 20:39	05:33 20:53
31	07:27 17:19 50	13:37 (FO 06) 14:27 (FO 06)			06:55 19:33			05:34 20:40	
Potential sun hours	292		294		369		401	454	459
Total, worst case	2186		460		81				

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

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

Calculation: Shadow Shadow receptor: AR - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (158)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December		
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36	12:59 (FO 06) 14:15 (FO 06)	
2	05:34 20:52	06:00 20:30	06:34 19:44	07:07 18:50	06:44 17:01	07:21 16:36	76 12:59 (FO 06) 77 14:16 (FO 06)	
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35	77 12:59 (FO 06) 77 14:16 (FO 06)	
4	05:35 20:52	06:02 20:28	06:36 19:41	07:09 18:47	06:46 16:59	07:23 16:35	77 12:59 (FO 06) 77 14:16 (FO 06)	
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	13:27 (FO 06) 13:43 (FO 06)	07:24 16:35	78 12:59 (FO 06) 78 14:17 (FO 06)
6	05:36 20:51	06:04 20:26	06:38 19:37	07:11 18:43	06:49 16:56	13:21 (FO 06) 13:48 (FO 06)	07:25 16:35	78 13:00 (FO 06) 77 14:17 (FO 06)
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	13:17 (FO 06) 13:51 (FO 06)	07:26 16:34	78 13:00 (FO 06) 78 14:18 (FO 06)
8	05:37 20:51	06:06 20:23	06:40 19:34	07:13 18:40	06:52 16:54	13:15 (FO 06) 13:54 (FO 06)	07:27 16:34	78 13:00 (FO 06) 78 14:18 (FO 06)
9	05:38 20:50	06:07 20:22	06:41 19:32	07:15 18:38	17:25 (FO 07) 17:36 (FO 07)	06:53 16:53	07:28 13:12 (FO 06)	13:01 (FO 06) 43 13:55 (FO 06)
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	17:23 (FO 07) 17:38 (FO 07)	06:54 16:52	07:29 13:10 (FO 06)	78 13:01 (FO 06) 47 13:57 (FO 06)
11	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	17:21 (FO 07) 17:40 (FO 07)	06:55 16:51	07:30 13:09 (FO 06)	79 13:01 (FO 06) 79 14:20 (FO 06)
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	17:19 (FO 07) 17:40 (FO 07)	06:57 16:49	07:31 13:07 (FO 06)	79 13:01 (FO 06) 53 14:00 (FO 06)
13	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	17:18 (FO 07) 17:41 (FO 07)	06:58 16:48	07:31 13:05 (FO 06)	78 13:02 (FO 06) 56 14:01 (FO 06)
14	05:42 20:48	06:13 20:15	06:47 19:23	07:20 18:30	17:18 (FO 07) 17:42 (FO 07)	06:59 16:47	07:32 13:05 (FO 06)	79 13:02 (FO 06) 58 14:03 (FO 06)
15	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	17:17 (FO 07) 17:42 (FO 07)	07:01 16:46	07:33 13:03 (FO 06)	79 13:03 (FO 06) 60 14:03 (FO 06)
16	05:44 20:46	06:15 20:12	06:49 19:19	07:23 18:27	17:16 (FO 07) 17:41 (FO 07)	07:02 16:46	07:34 13:03 (FO 06)	78 13:03 (FO 06) 62 14:05 (FO 06)
17	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	17:15 (FO 07) 17:41 (FO 07)	07:03 16:45	07:34 13:02 (FO 06)	79 13:03 (FO 06) 64 14:06 (FO 06)
18	05:45 20:45	06:17 20:09	06:51 19:16	07:25 18:23	17:16 (FO 07) 17:41 (FO 07)	07:04 16:44	07:35 13:01 (FO 06)	79 13:04 (FO 06) 65 14:06 (FO 06)
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:16 (FO 07) 17:41 (FO 07)	07:06 16:43	07:36 13:01 (FO 06)	79 13:04 (FO 06) 67 14:08 (FO 06)
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:16 (FO 07) 17:40 (FO 07)	07:07 16:42	07:36 13:00 (FO 06)	79 13:05 (FO 06) 68 14:08 (FO 06)
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	17:16 (FO 07) 17:38 (FO 07)	07:08 16:41	07:37 12:59 (FO 06)	79 13:05 (FO 06) 69 14:08 (FO 06)
22	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	17:18 (FO 07) 17:38 (FO 07)	07:09 16:41	07:37 13:00 (FO 06)	79 13:06 (FO 06) 70 14:10 (FO 06)
23	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	17:19 (FO 07) 17:36 (FO 07)	07:11 16:40	07:38 12:59 (FO 06)	79 13:06 (FO 06) 71 14:10 (FO 06)
24	05:51 20:40	06:24 19:59	06:58 19:05	07:33 18:14	17:20 (FO 07) 17:34 (FO 07)	07:12 16:39	07:38 12:58 (FO 06)	79 13:07 (FO 06) 73 14:11 (FO 06)
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	16:24 (FO 07) 16:31 (FO 07)	07:13 16:39	07:39 12:58 (FO 06)	79 13:07 (FO 06) 73 14:11 (FO 06)
26	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	07:14 16:38	12:59 (FO 06) 14:12 (FO 06)	07:39 16:40	79 13:07 (FO 06) 73 14:12 (FO 06)
27	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:10	07:15 16:38	12:58 (FO 06) 14:13 (FO 06)	07:40 16:40	79 13:09 (FO 06) 75 14:13 (FO 06)
28	05:55 20:36	06:28 19:53	07:02 18:58	06:38 17:08	07:16 16:37	12:58 (FO 06) 14:13 (FO 06)	07:40 16:41	79 13:09 (FO 06) 75 14:13 (FO 06)
29	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	07:18 16:37	12:58 (FO 06) 14:13 (FO 06)	07:40 16:42	79 13:09 (FO 06) 75 14:13 (FO 06)
30	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05	07:19 16:36	12:58 (FO 06) 14:14 (FO 06)	07:40 16:43	79 13:09 (FO 06) 76 14:14 (FO 06)
31	05:58 20:33	06:31 19:47	07:05 17:04	06:41 17:04			07:41 16:43	79 13:10 (FO 06) 78 14:28 (FO 06)
Potential sun hours	465	432	376	343	293	281		
Total, worst case				343	1539	2428		

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

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

Calculation: Shadow Shadow receptor: AS - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (159)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	
1	07:41 16:44	07:25 17:21	16:07 (FO 03) 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41
2	07:41 16:45	07:24 17:22	16:06 (FO 03) 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46	07:23 17:23	16:06 (FO 03) 17:23	06:44 18:00	06:49 19:37	06:02 20:11	05:32 20:43
4	07:41 16:47	07:22 17:25	16:05 (FO 03) 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48	07:21 17:26	16:05 (FO 03) 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49	07:20 17:27	16:04 (FO 03) 17:27	06:39 18:03	06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50	07:19 17:29	16:04 (FO 03) 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45
8	07:41 16:51	07:17 17:30	16:04 (FO 03) 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52	07:16 17:31	16:05 (FO 03) 17:31	06:33 18:07	06:39 19:44	05:54 20:18	05:30 20:47
10	07:40 16:53	07:15 17:33	16:04 (FO 03) 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54	07:14 17:34	16:04 (FO 03) 17:34	06:30 18:10	06:36 19:46	05:51 20:20	05:30 20:48
12	07:39 16:55	07:12 17:35	16:05 (FO 03) 17:35	06:28 18:11	06:34 19:47	05:50 20:22	05:29 20:48
13	07:39 16:56	07:11 17:37	16:05 (FO 03) 17:37	06:27 18:12	06:32 19:48	05:49 20:23	05:29 20:49
14	07:39 16:58	07:10 17:38	16:06 (FO 03) 17:38	06:25 18:13	06:31 19:49	05:48 20:24	05:29 20:49
15	07:38 16:59	07:08 17:39	16:06 (FO 03) 17:39	06:23 18:14	06:29 19:51	05:47 20:25	05:29 20:50
16	07:38 17:00	07:07 17:41	16:07 (FO 03) 17:41	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50
17	07:37 17:01	07:05 17:42	16:08 (FO 03) 17:42	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51
18	07:37 17:02	07:04 17:43	16:09 (FO 03) 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04	07:02 17:44	16:10 (FO 03) 17:44	06:16 18:19	06:22 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05	07:01 17:46	16:13 (FO 03) 17:46	06:14 18:20	06:21 19:56	05:42 20:30	05:30 20:52
21	07:35 17:06	06:59 17:47	16:16 (FO 03) 17:47	06:12 18:22	06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 17:07	06:58 17:48	16:47 (FO 05) 17:48	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52
23	07:33 17:09	06:56 17:50	16:47 (FO 05) 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10	06:55 17:51	16:48 (FO 05) 17:51	06:07 18:25	06:15 20:01	05:38 20:34	05:30 20:52
25	07:32 17:11	06:53 17:52	16:48 (FO 05) 17:52	06:05 18:26	17:24 (FO 06) 20:02	06:13 20:35	05:31 20:52
26	07:31 17:13	06:52 17:53	16:49 (FO 05) 17:53	06:04 18:27	17:25 (FO 06) 20:03	06:12 20:36	05:31 20:53
27	07:30 17:14	06:50 17:55	16:52 (FO 05) 17:55	06:02 18:29	17:25 (FO 06) 20:05	06:10 20:37	05:31 20:53
28	07:29 17:15	16:13 (FO 03) 17:56	06:48 17:56	06:00 18:30	17:26 (FO 06) 20:06	06:09 20:38	05:32 20:53
29	07:28 17:17	16:10 (FO 03) 16:18 (FO 03)	06:48 16:18 (FO 03)	06:58 19:31	18:26 (FO 06) 20:07	06:07 20:38	05:32 20:53
30	07:27 17:18	16:09 (FO 03) 16:21 (FO 03)	06:57 16:21 (FO 03)	06:57 19:32	18:27 (FO 06) 20:08	06:06 20:39	05:33 20:52
31	07:26 17:19	16:08 (FO 03) 16:24 (FO 03)	06:55 16:24 (FO 03)	06:55 19:33	06:06 20:08	05:34 20:40	05:33 20:52
Potential sun hours	292	294	369	401	454	459	
Total, worst case	38	780	6				

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

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

Calculation: Shadow Shadow receptor: AS - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (159)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September	October	November	December	
1	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	15:34 (FO 03) 16:07 (FO 03)	07:20 16:36
2	05:34 20:52	06:00 20:30	06:33 19:44	07:06 18:50	06:44 17:01	15:33 (FO 03) 16:07 (FO 03)	07:21 16:35
3	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	15:34 (FO 03) 16:07 (FO 03)	07:22 16:35
4	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	06:46 16:59	15:34 (FO 03) 16:07 (FO 03)	07:23 16:35
5	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	15:34 (FO 03) 16:06 (FO 03)	07:24 16:35
6	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:43	06:49 16:56	15:35 (FO 03) 16:06 (FO 03)	07:25 16:35
7	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	15:35 (FO 03) 16:05 (FO 03)	07:26 16:34
8	05:37 20:51	06:06 20:23	06:40 19:33	07:13 18:40	06:51 16:54	15:37 (FO 03) 16:05 (FO 03)	07:27 16:34
9	05:38 20:50	06:07 20:22	06:41 19:32	07:14 18:38	06:53 16:53	15:37 (FO 03) 16:00 (FO 03)	07:28 16:34
10	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:36	06:54 16:52	15:38 (FO 03) 15:57 (FO 03)	07:29 16:34
11	05:39 20:49	06:09 20:19	06:43 19:28	07:17 18:35	06:55 16:50	15:40 (FO 03) 15:55 (FO 03)	07:30 16:34
12	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	15:41 (FO 03) 15:53 (FO 03)	07:31 16:34
13	05:41 20:48	06:12 20:16	06:45 19:25	18:19 (FO 06) 18:20 (FO 06)	07:19 18:31	06:58 16:48	07:31 16:34
14	05:42 20:48	06:13 20:14	06:47 19:23	18:17 (FO 06) 18:18 (FO 06)	07:20 18:30	17:26 (FO 05) 17:30 (FO 05)	06:59 16:47
15	05:43 20:47	06:14 20:13	06:48 19:21	18:15 (FO 06) 18:17 (FO 06)	07:22 18:28	17:23 (FO 05) 17:34 (FO 05)	07:00 16:46
16	05:43 20:46	06:15 20:12	06:49 19:19	18:14 (FO 06) 18:16 (FO 06)	07:23 18:26	17:21 (FO 05) 17:35 (FO 05)	07:02 16:45
17	05:44 20:46	06:16 20:10	06:50 19:17	18:13 (FO 06) 18:15 (FO 06)	07:24 18:25	17:19 (FO 05) 17:36 (FO 05)	07:03 16:45
18	05:45 20:45	06:17 20:08	06:51 19:16	07:25 18:23	17:18 (FO 05) 17:36 (FO 05)	07:04 16:44	07:35 16:36
19	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	17:18 (FO 05) 17:37 (FO 05)	07:05 16:43	07:36 16:36
20	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	17:17 (FO 05) 17:36 (FO 05)	07:07 16:42	07:36 16:36
21	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:18	16:45 (FO 03) 17:35 (FO 05)	07:08 16:41	07:37 16:37
22	05:49 20:42	06:21 20:02	06:55 19:08	07:30 18:17	16:43 (FO 03) 17:34 (FO 05)	07:09 16:41	07:37 16:37
23	05:50 20:41	06:23 20:01	06:56 19:06	07:31 18:15	16:40 (FO 03) 17:33 (FO 05)	07:10 16:40	07:38 16:38
24	05:51 20:40	06:24 19:59	06:57 19:05	07:32 18:14	16:38 (FO 03) 17:31 (FO 05)	07:12 16:39	07:38 16:38
25	05:52 20:39	06:25 19:57	06:59 19:03	07:34 17:12	15:38 (FO 03) 16:31 (FO 05)	07:13 16:39	07:39 16:39
26	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	15:36 (FO 03) 16:30 (FO 05)	07:14 16:38	07:39 16:40
27	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:09	15:35 (FO 03) 16:29 (FO 05)	07:15 16:38	07:39 16:40
28	05:55 20:36	06:28 19:52	07:02 18:58	06:37 17:08	15:35 (FO 03) 16:07 (FO 03)	07:16 16:37	07:40 16:41
29	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	15:34 (FO 03) 16:07 (FO 03)	07:18 16:37	07:40 16:42
30	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05	15:34 (FO 03) 16:07 (FO 03)	07:19 16:36	07:40 16:42
31	05:58 20:33	06:31 19:47		06:41 17:04	15:34 (FO 03) 16:08 (FO 03)		07:40 16:43
Potential sun hours	465	432	376	343	293	281	
Total, worst case			8	495	333		

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

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

Calculation: Shadow Shadow receptor: AT - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (160)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:33 19:44	07:06 18:50	06:44 17:01	07:21 16:35
3	07:41 16:46	07:23 17:23	06:44 18:00	06:49 19:37	06:02 20:11	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:03	06:44 19:40	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:34
8	07:40 16:51	07:17 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:33	07:13 18:40	06:51 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:33 18:07	06:39 19:44	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:21	06:41 19:32	07:14 18:38	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:36	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	05:51 20:20	05:30 20:48	05:39 20:49	06:09 20:19	06:43 19:28	07:17 18:35	06:55 16:50	07:30 16:34
12	07:39 16:55	07:12 17:35	06:28 18:11	06:34 19:47	05:50 20:22	05:29 20:48	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	07:31 16:34
13	07:39 16:56	07:11 17:37	06:27 18:12	06:32 19:48	05:49 20:23	05:29 20:49	05:41 20:48	06:12 20:16	06:45 19:25	07:19 18:31	06:58 16:48	07:31 16:34
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:49	05:48 20:24	05:29 20:49	05:42 20:48	06:13 20:14	06:47 19:23	07:20 18:30	06:59 16:47	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:14	06:29 19:51	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	07:00 16:46	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50	05:43 20:46	06:15 20:12	06:49 19:19	07:23 18:26	07:02 16:45	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	07:03 16:45	07:34 16:35
18	07:37 17:02	07:04 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:08	06:51 19:16	07:25 18:23	07:04 16:44	07:35 16:36
19	07:36 17:04	07:02 17:44	06:16 18:19	06:22 19:55	05:43 20:29	05:29 20:51	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	07:05 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:56	05:42 20:30	05:30 20:52	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	07:07 16:42	07:36 16:36
21	07:35 17:06	06:59 17:47	06:12 18:22	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:18	07:08 16:41	07:37 16:37
22	07:34 17:07	06:58 17:48	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:21 20:02	06:55 19:08	07:30 18:17	07:09 16:41	07:37 16:37
23	07:33 17:09	06:56 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:06	07:31 18:15	07:10 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	05:38 20:34	05:30 20:52	05:51 20:40	06:24 19:59	06:57 19:05	07:32 18:14	07:12 16:39	07:38 16:38
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	07:33 17:12	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:53	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	07:34 17:11	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:53	05:54 20:37	06:27 19:54	07:01 18:59	07:35 17:09	07:15 16:38	07:39 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53	05:55 20:36	06:28 19:52	07:02 18:58	07:36 17:08	07:16 16:37	07:40 16:41
29	07:28 17:17		06:58 19:31	06:07 20:07	05:35 20:38	05:32 20:53	05:56 20:35	06:29 19:51	07:03 18:56	07:37 17:07	07:17 16:37	07:40 16:42
30	07:27 17:18		06:57 19:32	06:06 20:08	05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	07:38 17:05	07:19 16:36	07:40 16:42
31	07:26 17:19		06:55 19:33		05:34 20:40		05:58 20:33	06:31 19:47		06:41 17:04		07:40 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	343	293	281
Total, worst case												

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

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

Calculation: Shadow Shadow receptor: AU - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (161)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:33 19:44	07:06 18:50	06:44 17:01	07:21 16:35
3	07:41 16:46	07:23 17:23	06:44 18:00	06:49 19:37	06:02 20:11	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:03	06:44 19:40	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:34
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12	07:39 16:55	07:12 17:35	06:28 18:11	06:34 19:47	05:50 20:22	05:29 20:48	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	07:31 16:34
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16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50	05:43 20:46	06:15 20:12	06:49 19:19	07:23 18:26	07:02 16:45	07:34 16:35
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18	07:37 17:02	07:04 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:08	06:51 19:16	07:25 18:23	07:04 16:44	07:35 16:36
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21	07:35 17:06	06:59 17:47	06:12 18:22	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:18	07:08 16:41	07:37 16:37
22	07:34 17:07	06:58 17:48	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:21 20:02	06:55 19:08	07:30 18:17	07:09 16:41	07:37 16:37
23	07:33 17:09	06:56 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:06	07:31 18:15	07:10 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	05:38 20:34	05:30 20:52	05:51 20:40	06:24 19:59	06:57 19:05	07:32 18:14	07:12 16:39	07:38 16:38
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	06:34 17:12	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:53	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:53	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:09	07:15 16:38	07:39 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53	05:55 20:36	06:28 19:52	07:02 18:58	06:37 17:08	07:16 16:37	07:40 16:41
29	07:28 17:17		06:58 19:31	06:07 20:07	05:35 20:38	05:32 20:53	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	07:17 16:37	07:40 16:42
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31	07:26 17:19		06:55 19:33		05:34 20:40		05:58 20:33	06:31 19:47		06:41 17:04		07:40 16:43
Potential sun hours Total, worst case	292	294	369	401	454	459	465	432	376	343	293	281

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

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

Calculation: Shadow Shadow receptor: AV - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (162)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:33 19:44	07:06 18:50	06:44 17:01	07:21 16:35
3	07:41 16:46	07:23 17:23	06:44 18:00	06:49 19:37	06:02 20:11	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	06:46 16:59	07:23 16:35
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31	07:26 17:19		06:55 19:33		05:34 20:40		05:58 20:33	06:31 19:47		06:41 17:04		07:40 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	343	293	281
Total, worst case												

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

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

Calculation: Shadow Shadow receptor: AW - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (163)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36
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31	07:26 17:19		06:55 19:33		05:34 20:40		05:58 20:33	06:31 19:47		06:41 17:04		07:40 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	343	293	281
Total, worst case												

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

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

Calculation: Shadow Shadow receptor: AX - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (164)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36
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16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50	05:43 20:46	06:15 20:12	06:49 19:19	07:23 18:26	07:02 16:45	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	07:03 16:45	07:34 16:35
18	07:37 17:02	07:04 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:08	06:51 19:16	07:25 18:23	07:04 16:44	07:35 16:36
19	07:36 17:04	07:02 17:44	06:16 18:19	06:22 19:55	05:43 20:29	05:29 20:51	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	07:05 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:56	05:42 20:30	05:30 20:52	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	07:07 16:42	07:36 16:36
21	07:35 17:06	06:59 17:47	06:12 18:22	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:18	07:08 16:41	07:37 16:37
22	07:34 17:07	06:58 17:48	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:21 20:02	06:55 19:08	07:30 18:17	07:09 16:41	07:37 16:37
23	07:33 17:09	06:56 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:06	07:31 18:15	07:10 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	05:38 20:34	05:30 20:52	05:51 20:40	06:24 19:59	06:57 19:05	07:32 18:14	07:12 16:39	07:38 16:38
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	06:34 17:12	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:53	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:53	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:09	07:15 16:38	07:39 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53	05:55 20:36	06:28 19:52	07:02 18:58	06:37 17:08	07:16 16:37	07:40 16:41
29	07:28 17:17		06:58 19:31	06:07 20:07	05:35 20:38	05:32 20:53	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	07:17 16:37	07:40 16:42
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31	07:26 17:19		06:55 19:33		05:34 20:40		05:58 20:33	06:31 19:47		06:41 17:04		07:40 16:43
Potential sun hours Total, worst case	292	294	369	401	454	459	465	432	376	343	293	281

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

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

Calculation: Shadow Shadow receptor: AY - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (165)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:33 19:44	07:06 18:50	06:44 17:01	07:21 16:35
3	07:41 16:46	07:23 17:23	06:44 18:00	06:49 19:37	06:02 20:11	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44	05:35 20:52	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:03	06:44 19:40	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:34
8	07:40 16:51	07:17 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:33	07:13 18:40	06:51 16:54	07:27 16:34
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13	07:39 16:56	07:11 17:37	06:27 18:12	06:32 19:48	05:49 20:23	05:29 20:49	05:41 20:48	06:12 20:16	06:45 19:25	07:19 18:31	06:58 16:48	07:31 16:34
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:49	05:48 20:24	05:29 20:49	05:42 20:48	06:13 20:14	06:47 19:23	07:20 18:30	06:59 16:47	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:14	06:29 19:51	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	07:00 16:46	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50	05:43 20:46	06:15 20:12	06:49 19:19	07:23 18:26	07:02 16:45	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	07:03 16:45	07:34 16:35
18	07:37 17:02	07:04 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:08	06:51 19:16	07:25 18:23	07:04 16:44	07:35 16:36
19	07:36 17:04	07:02 17:44	06:16 18:19	06:22 19:55	05:43 20:29	05:29 20:51	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	07:05 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:56	05:42 20:30	05:30 20:52	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	07:07 16:42	07:36 16:36
21	07:35 17:06	06:59 17:47	06:12 18:22	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:18	07:08 16:41	07:37 16:37
22	07:34 17:07	06:58 17:48	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:21 20:02	06:55 19:08	07:30 18:17	07:09 16:41	07:37 16:37
23	07:33 17:09	06:56 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:06	07:31 18:15	07:10 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	05:38 20:34	05:30 20:52	05:51 20:40	06:24 19:59	06:57 19:05	07:32 18:14	07:12 16:39	07:38 16:38
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	06:34 17:12	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:53	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:53	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:09	07:15 16:38	07:39 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53	05:55 20:36	06:28 19:52	07:02 18:58	06:37 17:08	07:16 16:37	07:40 16:41
29	07:28 17:17		06:58 19:31	06:07 20:07	05:35 20:38	05:32 20:53	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	07:17 16:37	07:40 16:42
30	07:27 17:18		06:57 19:32	06:06 20:08	05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05	07:19 16:36	07:40 16:42
31	07:26 17:19		06:55 19:33		05:34 20:40		05:58 20:33	06:31 19:47		06:41 17:04		07:40 16:43
Potential sun hours Total, worst case	292	294	369	401	454	459	465	432	376	343	293	281

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

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

Calculation: Shadow Shadow receptor: AZ - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (166)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December		
1	07:41 16:44 17:21	07:25 17:21 17:57	06:47 17:57	06:53 19:34 20:09	06:04 20:09 20:41	05:33 20:41 20:52	05:33 20:52 20:32	05:59 20:32 19:46	06:32 19:46	07:05 18:52 31	17:26 (FO 03) 17:57 (FO 03) 17:03	06:43 16:36 07:21		
2	07:41 16:45 17:22	07:24 17:22 17:59	06:45 17:59	06:51 19:36 20:10	06:03 20:10 20:42	05:33 20:42 20:52	05:34 20:52 20:30	06:00 20:30 19:44	06:33 19:44	07:06 18:50 30	17:26 (FO 03) 17:56 (FO 03) 17:01	06:44 16:35 07:22		
3	07:41 16:46 17:23	07:23 17:23 18:00	06:44 18:00	06:49 19:37 20:11	06:02 20:11 20:43	05:32 20:43 20:52	05:34 20:52 20:29	06:01 20:29 19:42	06:35 19:42	07:08 18:49 29	17:26 (FO 03) 17:55 (FO 03) 17:00	06:45 16:35 07:23		
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14	07:39 16:58 17:38	07:10 17:38 18:13	06:25 18:13	16:46 (FO 03) 17:18 (FO 03) 19:49	06:31 20:24 20:49	05:48 20:49 20:14	05:29 20:14 19:23	06:13 20:14 19:23	06:47 19:23	07:20 18:30	16:59 16:47	07:32 16:35		
15	07:38 16:59 17:39	07:08 17:39 18:14	06:23 18:14	16:46 (FO 03) 17:17 (FO 03) 19:51	06:29 20:25 20:50	05:47 20:50 20:43	05:29 20:43 20:13	06:14 20:13 19:21	06:48 19:21	07:22 18:28	16:46 16:35	5 15:10 (FO 02) 15:15 (FO 02)		
16	07:38 17:00 17:41	07:07 17:41 18:16	06:21 18:16	16:47 (FO 03) 17:18 (FO 03) 19:52	06:27 20:26 20:50	05:46 20:50 20:46	05:29 20:46 20:11	06:15 20:11 19:19	06:49 19:19	07:23 18:26	16:45 16:35	7 15:09 (FO 02) 15:16 (FO 02)		
17	07:37 17:01 17:42	07:05 17:42 18:17	06:20 18:17	16:46 (FO 03) 17:17 (FO 03) 19:53	06:26 20:27 20:51	05:45 20:51 20:46	05:29 20:46 20:10	06:16 20:10 19:17	06:50 19:17	07:24 18:25	16:45 16:35	8 15:17 (FO 02) 15:09 (FO 02)		
18	07:37 17:02 17:43	07:04 17:43 18:18	06:18 18:18	16:47 (FO 03) 17:16 (FO 03) 19:54	06:24 20:28 20:51	05:44 20:51 20:45	05:29 20:45 20:08	06:17 20:08 19:16	06:51 19:16	07:25 18:23	16:44 16:36	9 15:18 (FO 02) 15:09 (FO 02)		
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25	07:32 17:11 17:52	06:53 17:52 18:26	06:05 18:26	16:53 (FO 03) 20:02 20:35	06:13 20:35 20:52	05:38 20:52 20:39	05:31 20:39 19:57	06:25 19:03 19:03	06:59 19:03	27 17:29 (FO 03) 17:58 (FO 03) 17:12	16:39 16:39	9 15:21 (FO 02) 15:13 (FO 02)		
26	07:31 17:13 17:53	06:52 17:53 18:27	06:04 18:27	16:52 (FO 03) 20:03 20:36	06:12 20:36 20:52	05:37 20:52 20:38	05:31 20:38 19:56	06:26 19:01 19:01	07:00 19:01	29 17:28 (FO 03) 17:58 (FO 03) 17:11	16:39 16:38	8 15:21 (FO 02) 15:15 (FO 02)		
27	07:30 17:14 17:55	06:50 17:55 18:29	06:02 18:29	16:50 (FO 03) 20:05 20:37	06:10 20:37 20:53	05:36 20:53 20:37	05:31 20:37 19:54	06:27 19:01 18:59	07:01 18:59	30 17:28 (FO 03) 17:59 (FO 03) 17:09	16:36 16:38	8 15:22 (FO 02) 15:16 (FO 02)		
28	07:29 17:15 17:56	06:48 17:56 18:30	06:00 18:30	16:49 (FO 03) 20:06 20:38	06:09 20:38 20:53	05:36 20:53 20:36	05:32 20:36 19:52	06:28 18:58 18:58	07:02 18:58	31 17:27 (FO 03) 17:59 (FO 03) 17:08	16:37 16:41	5 15:21 (FO 02) 15:18 (FO 02)		
29	07:28 17:17 17:57	06:48 17:57 18:31	06:00 18:31	16:48 (FO 03) 20:07 20:38	06:07 20:38 20:52	05:35 20:52 20:35	05:32 20:35 19:51	06:29 18:56 18:56	07:03 18:56	32 17:27 (FO 03) 17:58 (FO 03) 17:07	16:37 16:42	1 15:19 (FO 02) 15:18 (FO 02)		
30	07:27 17:18 17:58	06:47 17:58 18:32	06:00 18:32	16:47 (FO 03) 20:08 20:39	06:06 20:39 20:52	05:34 20:52 20:34	05:31 20:34 19:49	06:29 18:54 18:54	07:04 18:54	32 17:26 (FO 03) 17:58 (FO 03) 17:05	16:36 16:42	1 15:19 (FO 02) 15:18 (FO 02)		
31	07:26 17:19 17:59	06:46 17:59 18:33	06:00 18:33	16:46 (FO 03) 20:09 20:40	06:05 20:40 20:52	05:33 20:52 20:33	05:30 20:33 19:47	06:29 18:54 18:54	07:05 18:54	376 343	17:04 16:43	07:40 16:43		
Potential sun hours	292	294	369	493	401	454	459	465	432	376	296	209		
Total, worst case												293	281	115

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

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

Calculation: Shadow Shadow receptor: BA - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (167)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June		
1	07:41 16:44	07:25 17:21	06:47 17:57	16:31 (FO 02) 17:23 (FO 02)	06:53 19:34	17:45 (FO 02) 18:52 (FO 04)	06:04 20:09	05:33 20:41
2	07:41 16:45	07:24 17:22	06:45 17:59	16:30 (FO 02) 17:25 (FO 02)	06:51 19:36	18:28 (FO 04) 18:51 (FO 04)	06:03 20:10	05:33 20:42
3	07:41 16:46	07:23 17:23	06:44 18:00	16:29 (FO 02) 17:25 (FO 02)	06:50 19:37	18:30 (FO 04) 18:50 (FO 04)	06:02 20:11	05:32 20:43
4	07:41 16:47	07:22 17:25	06:42 18:01	16:28 (FO 02) 17:25 (FO 02)	06:48 19:38	18:30 (FO 04) 18:47 (FO 04)	06:00 20:13	05:32 20:43
5	07:41 16:48	07:21 17:26	06:40 18:02	16:28 (FO 02) 17:26 (FO 02)	06:46 19:39	18:32 (FO 04) 18:45 (FO 04)	05:59 20:14	05:31 20:44
6	07:41 16:49	07:20 17:27	06:39 18:04	16:27 (FO 02) 17:26 (FO 02)	06:44 19:40	18:35 (FO 04) 18:42 (FO 04)	05:58 20:15	05:31 20:45
7	07:41 16:50	07:19 17:29	06:37 18:05	16:26 (FO 02) 17:26 (FO 02)	06:43 19:41		05:56 20:16	05:31 20:45
8	07:40 16:51	07:17 17:30	06:35 18:06	16:26 (FO 02) 17:27 (FO 02)	06:41 19:43		05:55 20:17	05:30 20:46
9	07:40 16:52	07:16 17:31	06:33 18:07	16:25 (FO 02) 17:27 (FO 02)	06:39 19:44		05:54 20:18	05:30 20:47
10	07:40 16:53	07:15 17:33	06:32 18:08	16:24 (FO 02) 17:27 (FO 02)	06:37 19:45		05:53 20:19	05:30 20:47
11	07:40 16:54	07:14 17:34	06:30 18:10	16:24 (FO 02) 17:27 (FO 02)	06:36 19:46		05:51 20:20	05:30 20:48
12	07:39 16:55	07:12 17:35	06:28 18:11	16:24 (FO 02) 17:27 (FO 02)	06:34 19:47		05:50 20:22	05:30 20:48
13	07:39 16:57	07:11 17:37	06:27 18:12	16:24 (FO 02) 17:27 (FO 02)	06:32 19:48		05:49 20:23	05:29 20:49
14	07:39 16:58	07:10 17:38	06:25 18:13	16:24 (FO 02) 17:26 (FO 02)	06:31 19:49		05:48 20:24	05:29 20:49
15	07:38 16:59	07:08 17:39	06:23 18:14	16:23 (FO 02) 17:25 (FO 02)	06:29 19:51		05:47 20:25	05:29 20:50
16	07:38 17:00	07:07 17:41	06:21 18:16	16:24 (FO 02) 17:26 (FO 02)	06:27 19:52		05:46 20:26	05:29 20:50
17	07:37 17:01	07:05 17:42	06:20 18:17	16:24 (FO 02) 17:25 (FO 02)	06:26 19:53		05:45 20:27	05:29 20:51
18	07:37 17:02	07:04 17:43	06:18 18:18	16:24 (FO 02) 17:24 (FO 02)	06:24 19:54		05:44 20:28	05:29 20:51
19	07:36 17:04	07:02 17:44	06:16 18:19	16:24 (FO 02) 17:23 (FO 02)	06:23 19:55		05:43 20:29	05:29 20:51
20	07:36 17:05	07:01 17:46	06:14 18:20	16:24 (FO 02) 17:22 (FO 02)	06:21 19:56		05:42 20:30	05:30 20:52
21	07:35 17:06	06:59 17:47	06:12 18:22	16:26 (FO 02) 17:47 (FO 04)	06:19 19:58		05:41 20:31	05:30 20:52
22	07:34 17:07	06:58 17:48	06:11 18:23	16:26 (FO 02) 17:50 (FO 04)	06:18 19:59		05:40 20:32	05:30 20:52
23	07:33 17:09	06:56 17:50	06:09 18:24	16:27 (FO 02) 17:52 (FO 04)	06:16 20:00		05:39 20:33	05:30 20:52
24	07:33 17:10	06:55 17:51	06:07 18:25	16:27 (FO 02) 17:53 (FO 04)	06:15 20:01		05:38 20:34	05:30 20:52
25	07:32 17:11	06:53 17:52	06:05 18:26	16:28 (FO 02) 17:53 (FO 04)	06:13 20:02		05:38 20:35	05:31 20:52
26	07:31 17:13	06:52 17:53	06:04 18:27	16:30 (FO 02) 17:54 (FO 04)	06:12 20:03		05:37 20:36	05:31 20:52
27	07:30 17:14	06:50 17:55	06:02 18:29	16:34 (FO 02) 17:54 (FO 04)	06:10 20:05		05:36 20:37	05:31 20:53
28	07:29 17:15	06:48 17:56	06:00 18:30	16:33 (FO 02) 17:54 (FO 04)	06:09 20:06		05:36 20:38	05:32 20:53
29	07:28 17:17		06:58 19:31	17:34 (FO 02) 18:54 (FO 04)	06:07 20:07		05:35 20:38	05:32 20:52
30	07:27 17:18		06:57 19:32	17:37 (FO 02) 18:54 (FO 04)	06:06 20:08		05:34 20:39	05:33 20:52
31	07:26 17:19		06:55 19:33	17:40 (FO 02) 18:53 (FO 04)			05:34 20:40	
Potential sun hours	292	294	369	401	454	459		
Total, worst case		309	1900	115				

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

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

Calculation: Shadow Shadow receptor: BA - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (167)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September		October		November	December	
1	05:33 20:52	05:59 20:32	06:32 19:46		07:05 18:52	63	17:03 (FO 02) 18:06 (FO 02)	06:43 17:03	07:20 16:36
2	05:34 20:52	06:00 20:30	06:34 19:44		07:06 18:50	63	17:02 (FO 02) 18:05 (FO 02)	06:44 17:01	07:21 16:36
3	05:34 20:52	06:01 20:29	06:35 19:42		07:08 18:49	63	17:02 (FO 02) 18:05 (FO 02)	06:45 17:00	07:22 16:35
4	05:35 20:52	06:02 20:28	06:36 19:40		07:09 18:47	62	17:03 (FO 02) 18:05 (FO 02)	06:46 16:59	07:23 16:35
5	05:35 20:52	06:03 20:27	06:37 19:39		07:10 18:45	62	17:02 (FO 02) 18:04 (FO 02)	06:48 16:57	07:24 16:35
6	05:36 20:51	06:04 20:25	06:38 19:37	6	18:31 (FO 04) 18:37 (FO 04)	61	17:02 (FO 02) 18:03 (FO 02)	06:49 16:56	07:25 16:35
7	05:37 20:51	06:05 20:24	06:39 19:35	13	18:27 (FO 04) 18:40 (FO 04)	60	17:02 (FO 02) 18:02 (FO 02)	06:50 16:55	07:26 16:34
8	05:37 20:51	06:06 20:23	06:40 19:33	16	18:25 (FO 04) 18:41 (FO 04)	59	17:02 (FO 02) 18:01 (FO 02)	06:51 16:54	07:27 16:34
9	05:38 20:50	06:07 20:21	06:41 19:32	20	18:23 (FO 04) 18:43 (FO 04)	58	17:02 (FO 02) 18:00 (FO 02)	06:53 16:53	07:28 16:34
10	05:39 20:50	06:08 20:20	06:42 19:30	23	18:21 (FO 04) 18:44 (FO 04)	57	17:03 (FO 02) 18:00 (FO 02)	06:54 16:52	07:29 16:34
11	05:39 20:49	06:10 20:19	06:43 19:28	33	17:38 (FO 02) 18:44 (FO 04)	55	17:04 (FO 02) 17:59 (FO 02)	06:55 16:50	07:30 16:34
12	05:40 20:49	06:11 20:17	06:44 19:26	46	17:32 (FO 02) 18:44 (FO 04)	54	17:04 (FO 02) 17:58 (FO 02)	06:57 16:49	07:31 16:34
13	05:41 20:48	06:12 20:16	06:45 19:25	54	17:29 (FO 02) 18:45 (FO 04)	51	17:05 (FO 02) 17:56 (FO 02)	06:58 16:48	07:31 16:35
14	05:42 20:48	06:13 20:14	06:47 19:23	59	17:26 (FO 02) 18:45 (FO 04)	49	17:05 (FO 02) 17:54 (FO 02)	06:59 16:47	07:32 16:35
15	05:43 20:47	06:14 20:13	06:48 19:21	63	17:23 (FO 02) 18:44 (FO 04)	47	17:07 (FO 02) 17:54 (FO 02)	07:00 16:46	07:33 16:35
16	05:43 20:46	06:15 20:12	06:49 19:19	67	17:21 (FO 02) 18:44 (FO 04)	44	17:08 (FO 02) 17:52 (FO 02)	07:02 16:46	07:34 16:35
17	05:44 20:46	06:16 20:10	06:50 19:17	69	17:19 (FO 02) 18:43 (FO 04)	40	17:10 (FO 02) 17:50 (FO 02)	07:03 16:45	07:34 16:35
18	05:45 20:45	06:17 20:08	06:51 19:16	71	17:17 (FO 02) 18:42 (FO 04)	36	17:11 (FO 02) 17:47 (FO 02)	07:04 16:44	07:35 16:36
19	05:46 20:44	06:18 20:07	06:52 19:14	70	17:15 (FO 02) 18:40 (FO 04)	31	17:14 (FO 02) 17:45 (FO 02)	07:05 16:43	07:36 16:36
20	05:47 20:43	06:19 20:05	06:53 19:12	71	17:13 (FO 02) 18:39 (FO 04)	26	17:16 (FO 02) 17:42 (FO 02)	07:07 16:42	07:36 16:36
21	05:48 20:43	06:20 20:04	06:54 19:10	68	17:12 (FO 02) 18:36 (FO 04)	17	17:20 (FO 02) 17:37 (FO 02)	07:08 16:41	07:37 16:37
22	05:49 20:42	06:21 20:02	06:55 19:08	66	17:10 (FO 02) 18:33 (FO 04)		17:09 (FO 02) 18:17	07:09 16:41	07:37 16:37
23	05:50 20:41	06:23 20:01	06:56 19:07	57	17:09 (FO 02) 18:06 (FO 02)		17:31 18:15	07:10 16:40	07:38 16:38
24	05:51 20:40	06:24 19:59	06:58 19:05	58	17:08 (FO 02) 18:06 (FO 02)		17:32 18:14	07:12 16:39	07:38 16:38
25	05:52 20:39	06:25 19:57	06:59 19:03	59	17:07 (FO 02) 18:06 (FO 02)		17:34 17:12	07:13 16:39	07:39 16:39
26	05:53 20:38	06:26 19:56	07:00 19:01	60	17:06 (FO 02) 18:06 (FO 02)		17:35 17:11	07:14 16:38	07:39 16:40
27	05:54 20:37	06:27 19:54	07:01 18:59	61	17:06 (FO 02) 18:07 (FO 02)		17:36 17:09	07:15 16:38	07:39 16:40
28	05:55 20:36	06:28 19:52	07:02 18:58	62	17:05 (FO 02) 18:07 (FO 02)		17:37 17:08	07:16 16:37	07:40 16:41
29	05:56 20:35	06:29 19:51	07:03 18:56	63	17:04 (FO 02) 18:07 (FO 02)		17:39 17:07	07:17 16:37	07:40 16:42
30	05:57 20:34	06:30 19:49	07:04 18:54	62	17:04 (FO 02) 18:06 (FO 02)		17:40 17:05	07:19 16:36	07:40 16:43
31	05:58 20:33	06:31 19:47			06:41 17:04			07:40 16:43	
Potential sun hours	465	432	376		343		293	281	
Total, worst case			1297		1058				

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

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

Calculation: Shadow Shadow receptor: BB - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (168)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:41 16:44	07:25 17:21	06:47 17:57	16:28 (FO 02) 19:34	06:53 20:09	06:04 20:41	05:33 20:52	05:33 20:32	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:54 (FO 02)	07:20 17:03
2	07:41 16:45	07:24 17:22	06:45 17:59	16:29 (FO 02) 19:36	06:51 20:10	06:03 20:42	05:33 20:52	05:34 20:30	06:00 20:30	06:34 19:44	07:06 18:50	06:44 17:54 (FO 02)	07:21 17:01
3	07:41 16:46	07:23 17:23	06:44 18:00	16:28 (FO 02) 19:37	06:50 20:11	06:02 20:43	05:32 20:52	05:34 20:29	06:01 19:42	06:35 19:42	07:08 18:49	06:45 17:06 (FO 02)	07:22 17:00
4	07:41 16:47	07:22 17:25	06:42 18:01	16:27 (FO 02) 19:38	06:48 20:13	06:00 20:43	05:32 20:52	05:35 20:28	06:02 19:40	06:36 19:40	07:09 18:47	06:46 17:06 (FO 02)	07:23 16:59
5	07:41 16:48	07:21 17:26	06:40 18:02	16:28 (FO 02) 19:39	06:46 20:14	05:59 20:44	05:31 20:52	05:35 20:27	06:03 19:39	06:37 19:39	07:10 18:45	06:48 17:05 (FO 02)	07:24 16:57
6	07:41 16:49	07:20 17:27	06:39 18:04	16:27 (FO 02) 19:40	06:44 20:15	05:58 20:45	05:31 20:51	05:36 20:25	06:04 19:37	06:38 19:37	07:11 18:43	06:49 17:04 (FO 02)	07:25 16:56
7	07:41 16:50	07:19 17:29	06:37 18:05	16:27 (FO 02) 19:41	06:43 20:16	05:56 20:45	05:31 20:51	05:37 20:24	06:05 19:35	06:39 19:35	07:12 18:42	06:50 17:03 (FO 02)	07:26 16:55
8	07:40 16:51	07:17 17:30	06:35 18:06	16:28 (FO 02) 19:43	06:41 20:17	05:55 20:46	05:30 20:51	05:37 20:23	06:06 19:33	06:40 19:33	07:13 18:40	06:51 17:03 (FO 02)	07:27 16:54
9	07:40 16:52	07:16 17:31	06:33 18:07	16:28 (FO 02) 19:44	06:39 20:18	05:54 20:47	05:30 20:50	05:38 20:21	06:07 19:32	06:41 19:32	07:14 18:38	06:53 17:04 (FO 02)	07:28 16:53
10	07:40 16:53	07:15 17:33	06:32 18:08	16:28 (FO 02) 19:45	06:37 20:19	05:53 20:47	05:30 20:50	05:39 20:20	06:08 19:30	06:42 19:30	07:16 18:36	06:54 17:05 (FO 02)	07:29 16:52
11	07:40 16:54	07:14 17:34	06:30 18:10	16:28 (FO 02) 19:46	06:36 20:20	05:51 20:48	05:30 20:49	05:39 20:19	06:09 19:28	06:43 19:28	07:17 18:35	06:55 17:04 (FO 02)	07:30 16:50
12	07:39 16:55	07:12 17:35	06:28 18:11	16:29 (FO 02) 19:47	06:34 20:21	05:50 20:48	05:30 20:49	05:40 20:17	06:11 19:26	06:44 19:26	07:18 18:30 (FO 04)	06:57 17:02 (FO 02)	07:31 16:49
13	07:39 16:57	07:11 17:37	06:27 18:12	16:30 (FO 02) 19:48	06:32 20:23	05:49 20:49	05:29 20:48	05:41 20:16	06:12 19:25	06:45 19:25	07:19 18:33 (FO 04)	06:58 17:02 (FO 02)	07:31 16:48
14	07:39 16:58	07:10 17:38	06:25 18:13	16:30 (FO 02) 19:49	06:31 20:24	05:48 20:49	05:29 20:48	05:42 20:14	06:13 19:23	06:47 19:23	07:20 18:35 (FO 04)	06:59 17:02 (FO 02)	07:32 16:47
15	07:38 16:59	07:08 17:39	06:23 18:14	16:31 (FO 02) 19:51	06:29 20:25	05:47 20:50	05:29 20:47	05:43 20:13	06:14 19:21	06:48 19:21	07:22 18:36 (FO 04)	07:00 17:03 (FO 02)	07:33 16:46
16	07:38 17:00	07:07 17:41	06:21 18:16	16:33 (FO 02) 19:52	06:27 20:26	05:46 20:50	05:29 20:46	05:43 20:11	06:15 19:19	06:49 19:19	07:23 18:36 (FO 04)	07:02 17:03 (FO 02)	07:34 16:45
17	07:37 17:01	07:05 17:42	06:20 18:17	16:34 (FO 02) 19:53	06:26 20:27	05:45 20:51	05:29 20:46	05:44 20:10	06:16 19:17	06:50 19:17	07:24 18:36 (FO 04)	07:03 17:03 (FO 02)	07:34 16:45
18	07:37 17:02	07:04 17:43	06:18 18:18	16:36 (FO 02) 19:54	06:24 20:28	05:44 20:51	05:29 20:45	05:45 20:08	06:17 19:16	06:51 19:16	07:25 18:36 (FO 04)	07:04 17:04 (FO 02)	07:35 16:44
19	07:36 17:04	07:02 17:44	06:16 18:19	16:37 (FO 02) 19:55	06:22 20:29	05:43 20:51	05:29 20:44	05:46 20:07	06:18 19:14	06:52 19:14	07:26 18:36 (FO 04)	07:05 17:04 (FO 02)	07:36 16:43
20	07:36 17:05	07:01 17:46	06:14 18:20	16:40 (FO 02) 19:56	06:21 20:30	05:42 20:52	05:30 20:43	05:47 20:05	06:19 19:12	06:53 19:12	07:28 18:35 (FO 04)	07:07 17:05 (FO 02)	07:36 16:42
21	07:35 17:06	06:59 17:47	06:12 18:22	16:46 (FO 02) 19:58	06:19 20:31	05:41 20:52	05:30 20:43	05:48 20:04	06:20 19:10	06:54 19:10	07:29 18:34 (FO 04)	07:08 17:04 (FO 02)	07:37 16:41
22	07:34 17:07	06:58 17:48	06:11 18:23	17:26 (FO 04) 19:59	06:18 20:32	05:40 20:52	05:30 20:42	05:49 20:02	06:21 19:08	06:55 19:08	07:30 18:33 (FO 04)	07:09 17:03 (FO 02)	07:37 16:41
23	07:33 17:09	06:56 17:50	06:09 18:24	17:25 (FO 04) 20:00	06:16 20:33	05:39 20:52	05:30 20:41	05:50 20:01	06:23 19:06	06:56 19:06	07:31 18:32 (FO 04)	07:10 17:03 (FO 02)	07:38 16:40
24	07:33 17:10	06:55 17:51	06:07 18:25	17:24 (FO 04) 20:01	06:15 20:34	05:38 20:52	05:30 20:40	05:51 19:59	06:24 19:05	06:58 19:05	07:32 18:31 (FO 04)	07:12 17:03 (FO 02)	07:38 16:38
25	07:32 17:11	06:53 17:52	06:05 18:26	17:24 (FO 04) 20:02	06:13 20:35	05:38 20:52	05:31 20:39	05:52 19:57	06:25 19:03	06:59 19:03	07:34 18:30 (FO 04)	07:13 17:03 (FO 02)	07:39 16:39
26	07:31 17:13	06:52 17:53	06:04 18:27	17:25 (FO 04) 20:03	06:12 20:36	05:37 20:52	05:31 20:38	05:53 19:56	06:26 19:01	07:00 19:01	07:35 18:26 (FO 04)	07:14 17:04 (FO 02)	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	17:25 (FO 04) 20:05	06:10 20:37	05:36 20:53	05:31 20:37	05:54 19:54	06:27 18:59	07:01 18:59	07:36 17:51 (FO 02)	07:15 17:03 (FO 02)	07:40 16:38
28	07:29 17:15	06:48 17:56	06:00 18:30	17:25 (FO 04) 20:06	06:09 20:38	05:36 20:53	05:32 20:36	05:55 19:52	06:28 18:58	07:02 18:58	07:37 17:52 (FO 02)	07:16 17:03 (FO 02)	07:40 16:37
29	07:28 17:17	06:47 17:57	05:58 18:31	18:26 (FO 04) 20:07	06:07 20:38	05:35 20:52	05:32 20:35	05:56 19:51	06:29 18:56	07:03 18:56	07:38 17:53 (FO 02)	07:17 17:03 (FO 02)	07:40 16:37
30	07:27 17:18	06:46 17:58	05:57 18:32	18:28 (FO 04) 20:08	06:06 20:39	05:34 20:52	05:31 20:34	05:57 19:49	06:30 18:54	07:04 18:54	07:39 17:53 (FO 02)	07:18 17:03 (FO 02)	07:40 16:36
31	07:26 17:19	06:45 17:59	05:55 18:30	18:30 (FO 04)	06:05	05:34	05:34	05:58	06:31	07:05	07:40	07:19	07:40
Potential sun hours	292	294	369	401	454	459	465	432	376	551	343	293	281
Total, worst case		470	1167								1101		

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

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

SHADOW - Calendar

Calculation: Shadow Shadow receptor: BC - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (169)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December		
1	07:41 16:44	07:25 17:21	06:47 17:57	16:32 (FO 02) 19:34	06:53 20:09	06:04 20:41	05:33 20:52	05:33 20:32	05:59 20:32	06:32 19:46	07:05 18:52	17:11 (FO 02) 17:56 (FO 02)	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	16:32 (FO 02) 19:36	06:51 20:10	06:03 20:42	05:33 20:52	05:34 20:30	06:00 19:44	06:34 19:44	07:06 18:50	17:09 (FO 02) 17:56 (FO 02)	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	16:32 (FO 02) 19:37	06:50 20:11	06:02 20:43	05:32 20:52	05:34 20:29	06:01 19:42	06:35 19:42	07:08 18:49	17:08 (FO 02) 17:56 (FO 02)	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	16:31 (FO 02) 19:38	06:48 20:13	06:00 20:43	05:32 20:52	05:35 20:28	06:02 19:40	06:36 19:40	07:09 18:47	17:08 (FO 02) 17:57 (FO 02)	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	16:31 (FO 02) 19:39	06:46 20:14	05:59 20:44	05:31 20:52	05:35 20:27	06:03 19:39	06:37 19:39	07:10 18:45	17:08 (FO 02) 17:57 (FO 02)	06:48 16:57	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	16:31 (FO 02) 19:40	06:44 20:15	05:58 20:45	05:31 20:51	05:36 20:25	06:04 19:37	06:38 19:37	07:11 18:43	17:07 (FO 02) 17:56 (FO 02)	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	16:30 (FO 02) 19:41	06:43 20:16	05:56 20:45	05:31 20:51	05:37 20:24	06:05 19:35	06:39 19:35	07:12 18:42	17:06 (FO 02) 17:56 (FO 02)	06:50 16:54	07:26 16:34
8	07:40 16:51	07:17 17:30	06:35 18:06	16:31 (FO 02) 19:43	06:41 20:17	05:55 20:46	05:30 20:51	05:37 20:23	06:06 19:33	06:40 19:33	07:13 18:40	17:06 (FO 02) 17:55 (FO 02)	06:51 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:33 18:07	16:31 (FO 02) 19:44	06:39 20:18	05:54 20:47	05:30 20:50	05:38 20:21	06:07 19:32	06:41 19:32	07:14 18:38	17:05 (FO 02) 17:56 (FO 02)	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	16:31 (FO 02) 19:45	06:37 20:19	05:53 20:47	05:30 20:50	05:39 20:20	06:08 19:30	06:42 19:30	07:16 18:36	17:06 (FO 02) 17:56 (FO 02)	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	16:31 (FO 02) 19:46	06:36 20:20	05:51 20:48	05:30 20:49	05:39 20:19	06:09 19:28	06:43 19:28	07:17 18:35	17:06 (FO 02) 17:56 (FO 02)	06:55 16:50	07:30 16:34
12	07:39 16:55	07:12 17:35	06:28 18:11	16:32 (FO 02) 19:47	06:34 20:21	05:50 20:48	05:30 20:49	05:40 20:17	06:11 19:26	06:44 19:26	07:18 18:31 (FO 04)	17:06 (FO 02) 17:56 (FO 02)	06:57 16:49	07:31 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	16:32 (FO 02) 19:48	06:32 20:23	05:49 20:49	05:29 20:48	05:41 20:16	06:12 19:25	06:45 19:25	07:19 18:34 (FO 04)	17:06 (FO 02) 17:56 (FO 02)	06:58 16:48	07:31 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	16:32 (FO 02) 19:49	06:31 20:24	05:48 20:49	05:29 20:48	05:42 20:14	06:13 19:23	06:47 19:23	07:20 18:35 (FO 04)	17:06 (FO 02) 17:56 (FO 02)	06:59 16:47	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:14	16:33 (FO 02) 19:51	06:29 20:25	05:47 20:50	05:43 20:47	06:14 20:13	06:48 19:21	06:48 19:21	07:22 18:36 (FO 04)	17:07 (FO 02) 17:56 (FO 02)	07:00 16:46	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	16:35 (FO 02) 19:52	06:27 20:26	05:46 20:50	05:43 20:46	06:15 20:11	06:49 19:20	06:49 19:20	07:23 18:34 (FO 04)	17:08 (FO 02) 17:56 (FO 02)	07:02 16:45	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	16:35 (FO 02) 19:53	06:26 20:27	05:45 20:51	05:44 20:46	06:16 20:10	06:50 19:17	06:50 19:17	07:24 18:33 (FO 04)	17:08 (FO 02) 17:56 (FO 02)	07:03 16:45	07:34 16:35
18	07:37 17:02	07:04 17:43	06:18 18:18	16:37 (FO 02) 19:54	06:24 20:28	05:44 20:51	05:45 20:45	06:17 20:08	06:51 19:16	06:51 19:16	07:25 18:30 (FO 04)	17:09 (FO 02) 17:56 (FO 02)	07:04 16:44	07:35 16:36
19	07:36 17:04	07:02 17:44	06:16 18:19	16:38 (FO 02) 19:55	06:22 20:29	05:43 20:51	05:46 20:44	06:18 20:07	06:52 19:14	06:52 19:14	07:26 18:28 (FO 04)	17:11 (FO 02) 17:56 (FO 02)	07:05 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	16:40 (FO 02) 19:56	06:21 20:30	05:42 20:52	05:47 20:43	06:19 20:05	06:53 19:12	06:53 19:12	07:28 18:26 (FO 04)	17:12 (FO 02) 17:56 (FO 02)	07:07 16:42	07:36 16:36
21	07:35 17:06	06:59 17:47	06:12 18:22	16:44 (FO 02) 19:58	06:19 20:31	05:41 20:52	05:48 20:43	06:20 20:04	06:54 19:10	06:54 19:10	07:29 18:24 (FO 04)	17:14 (FO 02) 17:56 (FO 02)	07:08 16:41	07:37 16:37
22	07:34 17:07	06:58 17:48	06:11 18:23	17:26 (FO 04) 19:59	06:18 20:32	05:40 20:52	05:49 20:42	06:21 20:02	06:55 19:08	06:55 19:08	07:30 18:22 (FO 04)	17:17 (FO 02) 17:56 (FO 02)	07:09 16:41	07:37 16:37
23	07:33 17:09	06:56 17:50	06:09 18:24	17:26 (FO 04) 20:00	06:16 20:33	05:39 20:52	05:50 20:41	06:23 20:01	06:56 19:06	06:56 19:06	07:31 18:21 (FO 04)	17:20 (FO 02) 17:56 (FO 02)	07:10 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	17:25 (FO 04) 20:01	06:15 20:34	05:38 20:52	05:30 20:40	06:24 19:59	06:57 19:05	06:57 19:05	07:32 18:20 (FO 04)	17:22 (FO 02) 17:56 (FO 02)	07:12 16:39	07:38 16:38
25	07:32 17:11	06:53 17:52	06:05 18:26	17:24 (FO 04) 20:02	06:13 20:35	05:38 20:52	05:31 20:39	06:25 19:57	06:59 19:03	06:59 19:03	07:33 18:17 (FO 04)	17:24 (FO 02) 17:56 (FO 02)	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:53	06:04 18:27	17:25 (FO 04) 20:03	06:12 20:36	05:37 20:52	05:31 20:38	06:26 19:56	07:00 19:01	07:00 19:01	07:34 18:15 (FO 04)	17:26 (FO 02) 17:56 (FO 02)	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	17:25 (FO 04) 20:05	06:10 20:37	05:36 20:53	05:31 20:37	06:27 19:54	07:01 18:59	07:01 18:59	07:35 18:12 (FO 04)	17:28 (FO 02) 17:56 (FO 02)	07:15 16:38	07:39 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	17:25 (FO 04) 20:06	06:09 20:38	05:36 20:53	05:55 20:36	06:28 19:52	07:02 18:58	07:02 18:58	07:36 18:15 (FO 04)	17:30 (FO 02) 17:56 (FO 02)	07:16 16:37	07:40 16:41
29	07:28 17:17	06:47 17:57	05:58 18:31	18:26 (FO 04) 20:07	06:07 20:38	05:35 20:52	05:56 20:35	06:29 19:51	07:03 18:56	07:03 18:56	07:37 18:17 (FO 04)	17:32 (FO 02) 17:56 (FO 02)	07:17 16:37	07:40 16:42
30	07:27 17:18	06:46 17:58	05:57 18:32	18:28 (FO 04) 20:08	06:06 20:39	05:34 20:52	05:57 20:34	06:30 19:49	07:04 18:54	07:04 18:54	07:38 18:18 (FO 04)	17:34 (FO 02) 17:56 (FO 02)	07:19 16:36	07:40 16:43
31	07:26 17:19	06:45 17:59	05:55 18:33	18:29 (FO 04) 20:09	06:05 20:40	05:34 20:53	05:58 20:33	06:31 19:47	07:05 18:55	07:05 18:55	07:39 18:19 (FO 04)	17:36 (FO 02) 17:56 (FO 02)	07:20 16:43	07:40 16:43
Potential sun hours	292	294	314	369	401	454	459	465	432	376	481	343	293	281
Total, worst case														

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

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

Calculation: Shadow Shadow receptor: BD - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (170)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	
1	07:41 16:44	07:25 17:21	06:47 17:57	16:35 (FO 02) 17:20 (FO 02)	06:53 19:34	18:31 (FO 04) 20:09	05:33 20:41
2	07:41 16:45	07:24 17:22	06:45 17:59	16:35 (FO 02) 17:21 (FO 02)	06:51 19:36	06:03 20:10	05:33 20:42
3	07:41 16:46	07:23 17:23	06:44 18:00	16:34 (FO 02) 17:21 (FO 02)	06:50 19:37	06:02 20:11	05:32 20:43
4	07:41 16:47	07:22 17:25	06:42 18:01	16:33 (FO 02) 17:21 (FO 02)	06:48 19:38	06:00 20:13	05:32 20:43
5	07:41 16:48	07:21 17:26	06:40 18:02	16:33 (FO 02) 17:22 (FO 02)	06:46 19:39	05:59 20:14	05:31 20:44
6	07:41 16:49	07:20 17:27	06:39 18:04	16:32 (FO 02) 17:22 (FO 02)	06:44 19:40	05:58 20:15	05:31 20:45
7	07:41 16:50	07:19 17:29	06:37 18:05	16:32 (FO 02) 17:21 (FO 02)	06:43 19:41	05:56 20:16	05:31 20:45
8	07:40 16:51	07:17 17:30	06:35 18:06	16:32 (FO 02) 17:22 (FO 02)	06:41 19:43	05:55 20:17	05:30 20:46
9	07:40 16:52	07:16 17:31	06:33 18:07	16:32 (FO 02) 17:21 (FO 02)	06:39 19:44	05:54 20:18	05:30 20:47
10	07:40 16:53	07:15 17:33	06:32 18:08	16:32 (FO 02) 17:21 (FO 02)	06:37 19:45	05:53 20:19	05:30 20:47
11	07:40 16:54	07:14 17:34	06:30 18:10	16:31 (FO 02) 17:20 (FO 02)	06:36 19:46	05:51 20:20	05:30 20:48
12	07:39 16:55	07:12 17:35	06:28 18:11	16:32 (FO 02) 17:20 (FO 02)	06:34 19:47	05:50 20:21	05:30 20:48
13	07:39 16:57	07:11 17:37	06:27 18:12	16:33 (FO 02) 17:19 (FO 02)	06:32 19:48	05:49 20:23	05:29 20:49
14	07:39 16:58	07:10 17:38	06:25 18:13	16:33 (FO 02) 17:18 (FO 02)	06:31 19:49	05:48 20:24	05:29 20:49
15	07:38 16:59	07:08 17:39	06:23 18:14	16:33 (FO 02) 17:17 (FO 02)	06:29 19:51	05:47 20:25	05:29 20:50
16	07:38 17:00	07:07 17:41	06:21 18:16	16:35 (FO 02) 17:16 (FO 02)	06:27 19:52	05:46 20:26	05:29 20:50
17	07:37 17:01	07:05 17:42	06:20 18:17	16:35 (FO 02) 17:15 (FO 02)	06:26 19:53	05:45 20:27	05:29 20:51
18	07:37 17:02	07:04 17:43	06:18 18:18	16:36 (FO 02) 17:39 (FO 04)	06:24 19:54	05:44 20:28	05:29 20:51
19	07:36 17:04	07:02 17:44	06:16 18:19	16:37 (FO 02) 17:39 (FO 04)	06:22 19:55	05:43 20:29	05:29 20:51
20	07:36 17:05	07:01 17:46	06:14 18:20	16:38 (FO 02) 17:40 (FO 04)	06:21 19:56	05:42 20:30	05:30 20:52
21	07:35 17:06	06:59 17:47	06:12 18:22	16:41 (FO 02) 17:42 (FO 04)	06:19 19:58	05:41 20:31	05:30 20:52
22	07:34 17:07	06:58 17:48	06:11 18:23	16:44 (FO 02) 17:42 (FO 04)	06:18 19:59	05:40 20:32	05:30 20:52
23	07:33 17:09	06:56 17:50	06:09 18:24	16:48 (FO 02) 17:43 (FO 04)	06:16 20:00	05:39 20:33	05:30 20:52
24	07:33 17:10	06:55 17:51	06:07 18:25	16:42 (FO 02) 17:44 (FO 04)	06:15 20:01	05:38 20:34	05:30 20:52
25	07:32 17:11	06:53 17:52	06:05 18:26	16:40 (FO 02) 17:44 (FO 04)	06:13 20:02	05:38 20:35	05:31 20:52
26	07:31 17:13	06:52 17:53	06:04 18:27	16:38 (FO 02) 17:46 (FO 04)	06:12 20:03	05:37 20:36	05:31 20:52
27	07:30 17:14	06:50 17:55	06:02 18:29	16:37 (FO 02) 17:47 (FO 04)	06:10 20:05	05:36 20:37	05:31 20:53
28	07:29 17:15	06:48 17:56	06:00 18:30	16:36 (FO 02) 17:47 (FO 04)	06:09 20:06	05:36 20:38	05:32 20:53
29	07:28 17:17		06:58 19:31	18:26 (FO 04) 18:46 (FO 04)	06:07 20:07	05:35 20:38	05:32 20:52
30	07:27 17:18		06:57 19:32	18:28 (FO 04) 18:45 (FO 04)	06:06 20:08	05:34 20:39	05:33 20:52
31	07:26 17:19		06:55 19:33	18:29 (FO 04) 18:43 (FO 04)		05:34 20:40	
Potential sun hours	292	294	369	401	454	459	
Total, worst case		279	1167	9			

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

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

Calculation: Shadow Shadow receptor: BD - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (170)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	July	August	September		October		November	December	
1	05:33 20:52	05:59 20:32	06:32 19:46		07:05 18:52	47	17:11 (FO 02) 17:58 (FO 02)	06:43 17:03	07:20 16:36
2	05:34 20:52	06:00 20:30	06:34 19:44		07:06 18:50	48	17:10 (FO 02) 17:58 (FO 02)	06:44 17:01	07:21 16:36
3	05:34 20:52	06:01 20:29	06:35 19:42		07:08 18:49	49	17:09 (FO 02) 17:58 (FO 02)	06:45 17:00	07:22 16:35
4	05:35 20:52	06:02 20:28	06:36 19:40		07:09 18:47	49	17:10 (FO 02) 17:59 (FO 02)	06:46 16:59	07:23 16:35
5	05:35 20:52	06:03 20:27	06:37 19:39		07:10 18:45	50	17:09 (FO 02) 17:59 (FO 02)	06:48 16:57	07:24 16:35
6	05:36 20:51	06:04 20:25	06:38 19:37		07:11 18:43	50	17:08 (FO 02) 17:58 (FO 02)	06:49 16:56	07:25 16:35
7	05:37 20:51	06:05 20:24	06:39 19:35		07:12 18:42	50	17:08 (FO 02) 17:58 (FO 02)	06:50 16:55	07:26 16:34
8	05:37 20:51	06:06 20:23	06:40 19:33		07:13 18:40	49	17:08 (FO 02) 17:57 (FO 02)	06:51 16:54	07:27 16:34
9	05:38 20:50	06:07 20:21	06:41 19:32		07:14 18:38	49	17:07 (FO 02) 17:56 (FO 02)	06:53 16:53	07:28 16:34
10	05:39 20:50	06:08 20:20	06:42 19:30		07:16 18:36	48	17:08 (FO 02) 17:56 (FO 02)	06:54 16:52	07:29 16:34
11	05:39 20:49	06:09 20:19	06:43 19:28	7	18:24 (FO 04) 18:31 (FO 04)	47	17:08 (FO 02) 17:55 (FO 02)	06:55 16:50	07:30 16:34
12	05:40 20:49	06:11 20:17	06:44 19:26	14	18:20 (FO 04) 18:34 (FO 04)	46	17:08 (FO 02) 17:54 (FO 02)	06:57 16:49	07:31 16:34
13	05:41 20:48	06:12 20:16	06:45 19:25	17	18:19 (FO 04) 18:36 (FO 04)	45	17:08 (FO 02) 17:53 (FO 02)	06:58 16:48	07:31 16:35
14	05:42 20:48	06:13 20:14	06:47 19:23	20	18:17 (FO 04) 18:37 (FO 04)	42	17:09 (FO 02) 17:51 (FO 02)	06:59 16:47	07:32 16:35
15	05:43 20:47	06:14 20:13	06:48 19:21	21	18:16 (FO 04) 18:37 (FO 04)	40	17:10 (FO 02) 17:50 (FO 02)	07:00 16:46	07:33 16:35
16	05:43 20:46	06:15 20:11	06:49 19:19	21	18:15 (FO 04) 18:36 (FO 04)	37	17:11 (FO 02) 17:48 (FO 02)	07:02 16:45	07:34 16:35
17	05:44 20:46	06:16 20:10	06:50 19:17	21	18:14 (FO 04) 18:35 (FO 04)	34	17:12 (FO 02) 17:46 (FO 02)	07:03 16:45	07:34 16:35
18	05:45 20:45	06:17 20:08	06:51 19:16	19	18:14 (FO 04) 18:33 (FO 04)	31	17:13 (FO 02) 17:44 (FO 02)	07:04 16:44	07:35 16:36
19	05:46 20:44	06:18 20:07	06:52 19:14	18	18:13 (FO 04) 18:31 (FO 04)	28	17:15 (FO 02) 17:43 (FO 02)	07:05 16:43	07:36 16:36
20	05:47 20:43	06:19 20:05	06:53 19:12	24	17:36 (FO 02) 18:30 (FO 04)	24	17:17 (FO 02) 17:41 (FO 02)	07:07 16:42	07:36 16:36
21	05:48 20:43	06:20 20:04	06:54 19:10	33	17:30 (FO 02) 18:28 (FO 04)	20	17:19 (FO 02) 17:39 (FO 02)	07:08 16:41	07:37 16:37
22	05:49 20:42	06:21 20:02	06:55 19:08	38	17:26 (FO 02) 18:26 (FO 04)	11	17:24 (FO 02) 17:35 (FO 02)	07:09 16:41	07:37 16:37
23	05:50 20:41	06:23 20:01	06:56 19:06	41	17:23 (FO 02) 18:25 (FO 04)		07:31 18:15	07:10 16:40	07:38 16:38
24	05:51 20:40	06:24 19:59	06:57 19:05	41	17:21 (FO 02) 18:23 (FO 04)		07:32 18:14	07:12 16:39	07:38 16:38
25	05:52 20:38	06:25 19:56	06:59 19:01	39	17:19 (FO 02) 17:56 (FO 02)		06:34 17:11	07:13 16:38	07:39 16:40
26	05:53 20:37	06:26 19:54	07:00 18:59	41	17:17 (FO 02) 17:57 (FO 02)		17:12 17:09	16:39 16:38	16:39 16:40
27	05:54 20:37	06:27 19:54	07:01 18:59	41	17:16 (FO 02) 17:57 (FO 02)		06:36 17:09	07:15 16:38	07:39 16:40
28	05:55 20:36	06:28 19:52	07:02 18:58	43	17:15 (FO 02) 17:58 (FO 02)		06:37 17:08	07:16 16:37	07:40 16:41
29	05:56 20:35	06:29 19:51	07:03 18:56	44	17:14 (FO 02) 17:58 (FO 02)		06:39 17:07	07:17 16:37	07:40 16:42
30	05:57 20:34	06:30 19:49	07:04 18:54	46	17:12 (FO 02) 17:58 (FO 02)		06:40 17:05	07:19 16:36	07:40 16:43
31	05:58 20:33	06:31 19:47			06:41 17:04				07:40 16:43
Potential sun hours	465	432	376		343	894	293	281	
Total, worst case			588						

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

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

Calculation: Shadow Shadow receptor: BE - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (171)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:41 16:44	15:38 (FO 01) 16:05 (FO 01)	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	15:39 (FO 01) 16:06 (FO 01)	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:34 19:44	07:06 18:50	06:44 17:01	07:21 16:36
3	07:41 16:46	15:39 (FO 01) 16:06 (FO 01)	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:11	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	15:40 (FO 01) 16:07 (FO 01)	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	15:40 (FO 01) 16:07 (FO 01)	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44	05:35 20:51	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35
6	07:41 16:49	15:41 (FO 01) 16:08 (FO 01)	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	15:41 (FO 01) 16:09 (FO 01)	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:34
8	07:40 16:51	15:41 (FO 01) 16:08 (FO 01)	07:17 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:33	07:13 18:40	06:51 16:54	07:27 16:34
9	07:40 16:52	15:41 (FO 01) 16:09 (FO 01)	07:16 17:31	06:33 18:07	06:39 19:44	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:21	06:41 19:32	07:14 18:38	06:53 16:53	07:28 16:34
10	07:40 16:53	15:42 (FO 01) 16:10 (FO 01)	07:15 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:36	06:54 16:52	07:29 16:34
11	07:40 16:54	15:42 (FO 01) 16:10 (FO 01)	07:14 17:34	06:30 18:10	06:36 19:46	05:51 20:20	05:30 20:48	05:39 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 16:50	07:30 16:34
12	07:39 16:55	15:43 (FO 01) 16:10 (FO 01)	07:12 17:35	06:28 18:11	06:34 19:47	05:50 20:21	05:30 20:48	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	07:31 16:34
13	07:39 16:57	15:44 (FO 01) 16:11 (FO 01)	07:11 17:37	06:27 18:12	06:32 19:48	05:49 20:23	05:29 20:49	05:41 20:48	06:12 20:16	06:45 19:25	07:19 18:31	06:58 16:48	07:31 16:35
14	07:39 16:58	15:44 (FO 01) 16:11 (FO 01)	07:10 17:38	06:25 18:13	06:31 19:49	05:48 20:24	05:29 20:49	05:42 20:48	06:13 20:14	06:47 19:23	07:20 18:30	06:59 16:47	07:32 16:35
15	07:38 16:59	15:45 (FO 01) 16:11 (FO 01)	07:08 17:39	06:23 18:14	06:29 19:51	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	07:00 16:46	07:33 16:35
16	07:38 17:00	15:45 (FO 01) 16:11 (FO 01)	07:07 17:41	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50	05:43 20:46	06:15 20:11	06:49 19:19	07:23 18:26	07:02 16:46	07:34 16:35
17	07:37 17:01	15:46 (FO 01) 16:10 (FO 01)	07:05 17:42	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	07:03 16:45	07:34 16:35
18	07:37 17:02	15:46 (FO 01) 16:11 (FO 01)	07:04 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:08	06:51 19:16	07:25 18:23	07:04 16:44	07:35 16:35
19	07:36 17:04	15:48 (FO 01) 16:10 (FO 01)	07:02 17:44	06:16 18:19	06:23 19:55	05:43 20:29	05:29 20:51	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	07:05 16:43	07:36 16:35
20	07:36 17:05	15:49 (FO 01) 16:10 (FO 01)	07:01 17:46	06:14 18:20	06:21 19:56	05:42 20:30	05:30 20:51	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	07:07 16:42	07:36 16:35
21	07:35 17:06	15:50 (FO 01) 16:10 (FO 01)	06:59 17:47	06:12 18:22	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	07:08 16:41	07:37 16:35
22	07:34 17:07	15:52 (FO 01) 16:09 (FO 01)	06:58 17:48	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:21 20:02	06:55 19:08	07:30 18:17	07:09 16:41	07:37 16:35
23	07:33 17:09	15:53 (FO 01) 16:08 (FO 01)	06:56 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:06	07:31 18:15	07:10 16:40	07:38 16:35
24	07:33 17:10	15:55 (FO 01) 16:06 (FO 01)	06:55 17:51	06:07 18:25	06:15 20:01	05:39 20:34	05:30 20:52	05:51 20:40	06:24 19:59	06:58 19:05	07:32 18:14	07:12 16:39	07:38 16:35
25	07:32 17:11	16:00 (FO 01) 16:01 (FO 01)	06:53 17:52	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	07:13 17:12	07:13 16:39	07:39 16:35
26	07:31 17:13	16:01 (FO 01)	06:52 17:53	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	07:14 17:11	07:14 16:38	07:39 16:35
27	07:30 17:14	06:50 17:55	06:02 18:29	06:02 19:05	06:10 20:05	05:36 20:37	05:31 20:53	05:54 20:37	06:27 19:54	07:01 18:59	07:15 17:09	07:15 16:38	07:39 16:35
28	07:29 17:15	06:48 18:30	06:00 18:30	06:00 19:06	06:09 20:06	05:36 20:38	05:32 20:53	05:55 20:36	06:28 19:52	07:02 18:58	07:16 17:08	07:16 16:37	07:40 16:35
29	07:28 17:17	06:58 19:31	06:07 20:07	06:07 20:38	06:06 20:07	05:35 20:38	05:32 20:52	05:56 20:35	06:29 19:51	07:03 18:56	07:17 17:07	07:17 16:37	07:40 16:35
30	07:27 17:18	06:57 19:32	06:06 20:08	06:06 20:39	06:06 20:08	05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	07:19 17:05	07:19 16:36	07:40 16:35
31	07:26 17:19	06:55 19:33	06:05 19:33	06:05 20:40	06:05 20:40	05:34 20:40	05:34 20:52	05:58 20:33	06:31 19:47	06:41 18:54	07:05 17:04	07:05 16:36	07:40 16:35
Potential sun hours	292												
Total, worst case	589	294	369	401	454	459	465	432	376	343	293	289	815

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

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

Calculation: Shadow Shadow receptor: BF - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (172)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:41 16:44	15:44 (FO 01) 16:07 (FO 01)	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	15:44 (FO 01) 16:08 (FO 01)	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:34 19:44	07:06 18:50	06:44 17:01	07:21 16:36
3	07:41 16:46	15:44 (FO 01) 16:09 (FO 01)	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:11	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	15:45 (FO 01) 16:09 (FO 01)	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	15:45 (FO 01) 16:10 (FO 01)	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44	05:35 20:51	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35
6	07:41 16:49	15:46 (FO 01) 16:11 (FO 01)	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	15:46 (FO 01) 16:12 (FO 01)	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:34
8	07:40 16:51	15:47 (FO 01) 16:12 (FO 01)	07:17 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:33	07:13 18:40	06:51 16:54	07:27 16:34
9	07:40 16:52	15:46 (FO 01) 16:12 (FO 01)	07:16 17:31	06:33 18:07	06:39 19:44	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:21	06:41 19:32	07:14 18:38	06:53 16:53	07:28 16:34
10	07:40 16:53	15:47 (FO 01) 16:13 (FO 01)	07:15 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:36	06:54 16:52	07:29 16:34
11	07:40 16:54	15:46 (FO 01) 16:13 (FO 01)	07:14 17:34	06:30 18:10	06:36 19:46	05:51 20:20	05:30 20:48	05:39 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 16:50	07:30 16:34
12	07:39 16:55	15:47 (FO 01) 16:14 (FO 01)	07:12 17:35	06:28 18:11	06:34 19:47	05:50 20:21	05:30 20:48	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	07:31 16:34
13	07:39 16:57	15:48 (FO 01) 16:15 (FO 01)	07:11 17:37	06:27 18:12	06:32 19:48	05:49 20:23	05:29 20:49	05:41 20:48	06:12 20:16	06:45 19:25	07:19 18:31	06:58 16:48	07:31 16:35
14	07:39 16:58	15:48 (FO 01) 16:15 (FO 01)	07:10 17:38	06:25 18:13	06:31 19:49	05:48 20:24	05:29 20:49	05:42 20:48	06:13 20:14	06:47 19:23	07:20 18:30	06:59 16:47	07:32 16:35
15	07:38 16:59	15:49 (FO 01) 16:16 (FO 01)	07:08 17:39	06:23 18:14	06:29 19:51	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	07:00 16:46	8 07:33 15:34 (FO 01) 16:35
16	07:38 17:00	15:49 (FO 01) 16:16 (FO 01)	07:07 17:41	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50	05:43 20:46	06:15 20:11	06:49 19:19	07:23 18:26	07:02 16:46	8 07:34 15:42 (FO 01) 16:35
17	07:37 17:01	15:49 (FO 01) 16:15 (FO 01)	07:05 17:42	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	07:03 16:45	13 07:34 15:44 (FO 01) 16:35
18	07:37 17:02	15:50 (FO 01) 16:16 (FO 01)	07:04 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:08	06:51 19:16	07:25 18:23	07:04 16:44	17 07:35 15:48 (FO 01) 16:36
19	07:36 17:04	15:50 (FO 01) 16:16 (FO 01)	07:02 17:44	06:16 18:19	06:23 19:55	05:43 20:29	05:29 20:51	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	07:05 16:43	19 07:36 15:49 (FO 01) 16:36
20	07:36 17:05	15:51 (FO 01) 16:15 (FO 01)	07:01 17:46	06:14 18:20	06:21 19:56	05:42 20:30	05:30 20:51	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	07:07 16:42	21 07:36 15:50 (FO 01) 16:36
21	07:35 17:06	15:52 (FO 01) 16:16 (FO 01)	06:59 17:47	06:12 18:22	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	07:08 16:41	22 07:37 15:51 (FO 01) 16:37
22	07:34 17:07	15:53 (FO 01) 16:15 (FO 01)	06:58 17:48	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:21 20:02	06:55 19:08	07:30 18:17	07:09 16:41	24 07:37 15:52 (FO 01) 16:37
23	07:33 17:09	15:54 (FO 01) 16:15 (FO 01)	06:56 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:06	07:31 18:15	07:10 16:40	24 07:38 15:53 (FO 01) 16:38
24	07:33 17:10	15:55 (FO 01) 16:14 (FO 01)	06:55 17:51	06:07 18:25	06:15 20:01	05:39 20:34	05:30 20:52	05:51 20:40	06:24 19:59	06:57 19:05	07:32 18:14	07:12 16:39	26 07:38 15:54 (FO 01) 16:38
25	07:32 17:11	15:56 (FO 01) 16:13 (FO 01)	06:53 17:52	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	07:33 17:12	07:13 16:39	26 07:39 15:55 (FO 01) 16:39
26	07:31 17:13	15:58 (FO 01) 16:11 (FO 01)	06:52 17:53	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	07:34 17:11	07:14 16:38	26 07:39 15:56 (FO 01) 16:40
27	07:30 17:14	16:01 (FO 01) 16:09 (FO 01)	06:50 17:55	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:52	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:09	07:15 16:38	26 07:39 15:57 (FO 01) 16:40
28	07:29 17:15	16:09 (FO 01) 17:56	06:48 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:53	05:55 20:36	06:28 19:52	07:02 18:58	06:37 17:08	07:16 16:37	27 07:40 15:58 (FO 01) 16:41
29	07:28 17:17	16:09 (FO 01) 19:31	06:48 20:07	06:08 18:30	06:07 20:07	05:35 20:38	05:32 20:52	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	07:17 16:37	27 07:40 15:59 (FO 01) 16:42
30	07:27 17:18	16:09 (FO 01) 19:32	06:47 20:08	06:07 18:31	06:06 20:08	05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05	07:19 16:36	27 07:40 15:59 (FO 01) 16:43
31	07:26 17:19	16:09 (FO 01) 19:33	06:46 19:33	06:06 18:32	06:05 20:09	05:34 20:40	05:34 20:52	05:58 20:33	06:31 19:47	06:41 17:04	06:41 17:04	07:20 16:43	27 07:40 15:59 (FO 01) 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	343	293	281	714
Total, worst case	638										360		

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

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

Calculation: Shadow Shadow receptor: BG - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (173)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:34 19:44	07:06 18:50	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:11	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44	05:35 20:51	06:03 20:27	06:37 19:39	07:10 18:45	06:48 16:57	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	06:50 16:55	07:26 16:35
8	07:40 16:51	07:17 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:33	07:13 18:40	06:51 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:33 18:07	06:39 19:44	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:21	06:41 19:32	07:14 18:38	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	05:51 20:20	05:30 20:48	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	06:55 16:51	07:30 16:34
12	07:39 16:55	07:12 17:35	06:28 18:11	06:34 19:47	05:50 20:21	05:30 20:48	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	06:57 16:49	07:31 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	05:49 20:23	05:29 20:49	05:41 20:48	06:12 20:16	06:46 19:25	07:19 18:31	06:58 16:48	07:31 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	05:48 20:24	05:29 20:49	05:42 20:48	06:13 20:14	06:47 19:23	07:20 18:30	06:59 16:47	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:14	06:29 19:51	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	07:00 16:46	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50	05:44 20:46	06:15 20:11	06:49 19:19	07:23 18:27	07:02 16:46	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:25	07:03 16:45	07:34 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:08	06:51 19:16	07:25 18:23	07:04 16:44	07:35 16:36
19	07:36 17:04	07:02 17:45	06:16 18:19	06:23 19:55	05:43 20:29	05:30 20:51	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:22	07:05 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:56	05:42 20:30	05:30 20:51	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:20	07:07 16:42	07:36 16:37
21	07:35 17:06	06:59 17:47	06:13 18:22	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:19	07:08 16:41	07:37 16:37
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:17	07:09 16:41	07:37 16:37
23	07:33 17:09	06:56 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:15	07:10 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	05:39 20:34	05:31 20:52	05:51 20:40	06:24 19:59	06:58 19:05	07:32 18:14	07:12 16:39	07:38 16:39
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	06:34 17:12	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:54	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	06:35 17:11	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:52	05:54 20:37	06:27 19:54	07:01 18:59	06:36 17:10	07:15 16:38	07:39 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:52	05:55 20:36	06:28 19:52	07:02 18:58	06:37 17:08	07:16 16:37	07:40 16:41
29	07:28 17:17		06:58 19:31	06:07 20:07	05:35 20:38	05:32 20:52	05:56 20:35	06:29 19:51	07:03 18:56	06:39 17:07	07:17 16:37	07:40 16:42
30	07:27 17:18		06:57 19:32	06:06 20:08	05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	06:40 17:05	07:19 16:36	07:40 16:43
31	07:26 17:19		06:55 19:33		05:34 20:40		05:58 20:33	06:31 19:47		06:41 17:04		07:40 16:43
Potential sun hours Total, worst case	292	294	369	401	454	459	465	432	376	343	293	281

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

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

Calculation: Shadow Shadow receptor: BH - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (174)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December				
1	07:41	07:25	06:47	06:53	18:27 (FO 01)	06:04	05:33	05:33	05:59	06:32	18:11 (FO 01)	07:05	06:43	07:20		
	16:44	17:21	17:57	19:34	26	18:53 (FO 01)	20:09	20:41	20:52	20:32	19:46	22	18:33 (FO 01)	18:52	17:03	16:36
2	07:41	07:24	06:45	06:51	18:24 (FO 01)	06:03	05:33	05:34	06:00	06:34	18:11 (FO 01)	07:06	06:44	07:21		
	16:45	17:22	17:59	19:36	27	18:51 (FO 01)	20:10	20:42	20:52	20:30	19:44	23	18:34 (FO 01)	18:50	17:01	16:36
3	07:41	07:23	06:44	06:50	18:23 (FO 01)	06:02	05:32	05:34	06:01	06:35	18:11 (FO 01)	07:08	06:45	07:22		
	16:46	17:23	18:00	19:37	27	18:50 (FO 01)	20:11	20:43	20:52	20:29	19:42	24	18:35 (FO 01)	18:49	17:00	16:35
4	07:41	07:22	06:42	06:48	18:21 (FO 01)	06:00	05:32	05:35	06:02	06:36	18:12 (FO 01)	07:09	06:46	07:23		
	16:47	17:25	18:01	19:38	26	18:47 (FO 01)	20:13	20:43	20:52	20:28	19:40	24	18:36 (FO 01)	18:47	16:59	16:35
5	07:41	07:21	06:40	06:46	18:19 (FO 01)	05:59	05:31	05:35	06:03	06:37	18:12 (FO 01)	07:10	06:48	07:24		
	16:48	17:26	18:02	19:39	26	18:45 (FO 01)	20:14	20:44	20:51	20:27	19:39	26	18:38 (FO 01)	18:45	16:57	16:35
6	07:41	07:20	06:39	06:44	18:17 (FO 01)	05:58	05:31	05:36	06:04	06:38	18:13 (FO 01)	07:11	06:49	07:25		
	16:49	17:27	18:04	19:40	26	18:43 (FO 01)	20:15	20:45	20:51	20:25	19:37	26	18:39 (FO 01)	18:43	16:56	16:35
7	07:41	07:19	06:37	06:43	18:16 (FO 01)	05:56	05:31	05:37	06:05	06:39	18:14 (FO 01)	07:12	06:50	07:26		
	16:50	17:29	18:05	19:41	26	18:42 (FO 01)	20:16	20:45	20:51	20:24	19:35	26	18:40 (FO 01)	18:42	16:55	16:35
8	07:40	07:17	06:35	06:41	18:15 (FO 01)	05:55	05:30	05:37	06:06	06:40	18:15 (FO 01)	07:13	06:51	07:27		
	16:51	17:30	18:06	19:43	24	18:39 (FO 01)	20:17	20:46	20:51	20:23	19:33	26	18:41 (FO 01)	18:40	16:54	16:34
9	07:40	07:16	06:33	06:39	18:13 (FO 01)	05:54	05:30	05:38	06:07	06:41	18:16 (FO 01)	07:14	06:53	07:28		
	16:52	17:31	18:07	19:44	24	18:37 (FO 01)	20:18	20:47	20:50	20:21	19:32	27	18:43 (FO 01)	18:38	16:53	16:34
10	07:40	07:15	06:32	06:37	18:13 (FO 01)	05:53	05:30	05:39	06:08	06:42	18:17 (FO 01)	07:16	06:54	07:29		
	16:53	17:33	18:08	19:45	23	18:36 (FO 01)	20:19	20:47	20:50	20:20	19:30	27	18:44 (FO 01)	18:37	16:52	16:34
11	07:40	07:14	06:30	06:36	18:12 (FO 01)	05:51	05:30	05:40	06:10	06:43	18:19 (FO 01)	07:17	06:55	07:30		
	16:54	17:34	18:10	19:46	22	18:34 (FO 01)	20:20	20:48	20:49	20:19	19:28	26	18:45 (FO 01)	18:35	16:51	16:34
12	07:39	07:12	06:28	06:34	18:11 (FO 01)	05:50	05:30	05:40	06:11	06:44	18:21 (FO 01)	07:18	06:57	07:31		
	16:55	17:35	18:11	19:47	20	18:31 (FO 01)	20:21	20:48	20:49	20:17	19:26	25	18:46 (FO 01)	18:33	16:49	16:34
13	07:39	07:11	06:27	06:32	18:11 (FO 01)	05:49	05:29	05:41	06:12	06:46	18:25 (FO 01)	07:19	06:58	07:31		
	16:57	17:37	18:12	19:48	19	18:30 (FO 01)	20:23	20:49	20:48	20:16	19:25	23	18:48 (FO 01)	18:31	16:48	16:35
14	07:39	07:10	06:25	06:31	18:10 (FO 01)	05:48	05:29	05:42	06:13	06:47	18:29 (FO 01)	07:20	06:59	07:32		
	16:58	17:38	18:13	19:49	18	18:28 (FO 01)	20:24	20:49	20:48	20:14	19:23	14	18:43 (FO 01)	18:30	16:47	16:35
15	07:38	07:08	06:23	06:29	18:09 (FO 01)	05:47	05:29	05:43	06:14	06:48	18:22	07:22	07:00	07:33		
	16:59	17:39	18:14	19:51	17	18:26 (FO 01)	20:25	20:50	20:47	20:13	19:21	18	18:28	16:46	16:35	
16	07:38	07:07	06:21	06:27	18:09 (FO 01)	05:46	05:29	05:44	06:15	06:49	18:23	07:23	07:02	07:34		
	17:00	17:41	18:16	19:52	15	18:24 (FO 01)	20:26	20:50	20:46	20:11	19:19	19	18:27	16:46	16:35	
17	07:37	07:05	06:20	06:26	18:08 (FO 01)	05:45	05:29	05:44	06:16	06:50	18:24	07:24	07:03	07:34		
	17:01	17:42	18:17	19:53	14	18:22 (FO 01)	20:27	20:51	20:46	20:10	19:17	18	18:25	16:45	16:35	
18	07:37	07:04	06:18	06:24	18:08 (FO 01)	05:44	05:29	05:45	06:17	06:51	18:25	07:25	07:04	07:35		
	17:03	17:43	18:18	19:54	12	18:20 (FO 01)	20:28	20:51	20:45	20:08	19:16	18	18:23	16:44	16:36	
19	07:36	07:02	06:16	06:23	18:08 (FO 01)	05:43	05:30	05:46	06:18	06:52	18:26	07:26	07:05	07:36		
	17:04	17:45	18:19	19:55	11	18:19 (FO 01)	20:29	20:51	20:44	20:07	1	18:15 (FO 01)	19:14	18:22	16:43	16:36
20	07:36	07:01	06:14	06:21	18:08 (FO 01)	05:42	05:30	05:47	06:19	06:53	18:27	07:28	07:07	07:36		
	17:05	17:46	18:20	19:56	8	18:16 (FO 01)	20:30	20:51	20:43	20:05	4	18:17 (FO 01)	19:12	18:20	16:42	16:37
21	07:35	06:59	06:13	06:19	18:08 (FO 01)	05:41	05:30	05:48	06:20	06:54	18:13 (FO 01)	06:54	07:29	07:08	07:37	
	17:06	17:47	18:22	19:58	7	18:15 (FO 01)	20:31	20:52	20:43	20:04	6	18:19 (FO 01)	19:10	18:19	16:41	16:37
22	07:34	06:58	06:11	06:18	18:08 (FO 01)	05:40	05:30	05:49	06:22	06:56	18:13 (FO 01)	06:55	07:30	07:09	07:37	
	17:08	17:48	18:23	19:59	5	18:13 (FO 01)	20:32	20:52	20:42	20:02	7	18:20 (FO 01)	19:08	18:17	16:41	16:37
23	07:33	06:56	06:09	06:16	18:08 (FO 01)	05:39	05:30	05:50	06:23	06:57	18:12 (FO 01)	06:56	07:31	07:10	07:38	
	17:09	17:50	18:24	20:00	4	18:12 (FO 01)	20:33	20:52	20:41	20:01	9	18:21 (FO 01)	19:07	18:15	16:40	16:38
24	07:33	06:55	06:07	06:15	18:08 (FO 01)	05:39	05:30	05:51	06:24	06:58	18:12 (FO 01)	06:58	07:32	07:12	07:38	
	17:10	17:51	18:25	20:01	1	18:09 (FO 01)	20:34	20:52	20:40	20:09	11	18:23 (FO 01)	19:05	18:14	16:39	16:39
25	07:32	06:53	06:05	06:13	18:07 (FO 01)	05:38	05:31	05:52	06:25	06:59	18:12 (FO 01)	06:59	07:33	07:13	07:39	
	17:11	17:52	18:26	20:02		20:35	20:52	20:39	19:57	12	18:24 (FO 01)	19:03	17:12	16:39	16:39	
26	07:31	06:52	06:04	06:12	18:06 (FO 01)	05:37	05:31	05:53	06:26	06:53	18:11 (FO 01)	07:00	06:35	07:14	07:39	
	17:13	17:54	18:27	20:03		20:36	20:52	20:38	19:56	14	18:25 (FO 01)	19:01	17:11	16:38	16:40	
27	07:30	06:50	06:02	06:10	18:05 (FO 01)	05:36	05:31	05:54	06:27	06:54	18:11 (FO 01)	07:01	06:36	07:15	07:39	
	17:14	17:55	18:29	20:05		20:37	20:52	20:37	19:54	15	18:26 (FO 01)	18:59	17:10	16:38	16:40	
28	07:29	06:48	06:00	06:09	18:04 (FO 01)	05:35	05:32	05:55	06:28	06:51	18:11 (FO 01)	07:02	06:37	07:16	07:40	
	17:15	17:56	18:30	20:06		20:38	20:52	20:36	19:52	17	18:28 (FO 01)	18:58	17:08	16:37	16:41	
29	07:28		06:58		18:39 (FO 01)	06:07	05:35	05:32	05:56	06:29	18:11 (FO 01)	07:03	06:39	07:17	07:40	
	17:17		19:31	12	18:51 (FO 01)	20:07	20:38	20:52	20:35	19:51	18	18:29 (FO 01)	18:56	17:07	16:37	16:42
30	07:27		06:57		18:34 (FO 01)	06:06	05:34	05:33	05:57	06:30	18:11 (FO 01)	07:04	06:40	07:19	07:40	
	17:18		19:32	23	18:57 (FO 01)	20:08	20:39	20:52	20:34	19:49	19	18:30 (FO 01)	18:54	17:05	16:36	16:43
31	07:26		06:55		18:30 (FO 01)	06:01	05:34	05:33	05:58	06:31	18:11 (FO 01)	07:01	06:41	07:18	07:40	
	17:19		19:33	25	18:55 (FO 01)	20:01	20:40	20:33	19:47	20	18:31 (FO 01)	18:51	17:04	16:36	16:43	
Potential sun hours	292	294	369	401	428	454	459	465	432	376	339	343	293	281		
Total, worst case			60						153							

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

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

Calculation: Shadow Shadow receptor: BI - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (175)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December			
1	07:41 16:44 17:21	07:25 17:21 17:57	06:47 17:57	06:53 19:34	18:15 (FO 01) 20:09	06:04 20:41	05:33 20:52	05:33 20:32	05:59 20:32	06:32 19:46	18:17 (FO 01) 18:33 (FO 01)	07:05 17:03	06:43 16:36		
2	07:41 16:45 17:22	07:24 17:22 17:59	06:45 17:59	06:51 19:36	18:15 (FO 01) 20:10	06:03 20:42	05:33 20:52	05:34 20:30	06:00 20:30	06:34 19:44	18:16 (FO 01) 18:34 (FO 01)	07:06 17:01	06:44 16:36		
3	07:41 16:46 17:23	07:23 17:23 18:00	06:44 18:00	06:50 19:37	18:16 (FO 01) 20:11	06:02 20:42	05:32 20:52	05:34 20:29	06:01 20:29	06:35 19:42	18:14 (FO 01) 18:35 (FO 01)	07:08 18:49	06:45 17:00		
4	07:41 16:47 17:25	07:22 17:25 18:01	06:42 18:01	06:48 19:38	18:15 (FO 01) 20:13	06:00 20:43	05:32 20:52	05:35 20:28	06:02 20:28	06:36 19:40	18:13 (FO 01) 18:36 (FO 01)	07:09 18:47	06:46 16:59		
5	07:41 16:48 17:26	07:21 17:26 18:02	06:40 18:02	06:46 19:39	18:15 (FO 01) 20:14	05:59 20:44	05:31 20:51	05:35 20:27	06:03 20:27	06:37 19:39	18:12 (FO 01) 18:38 (FO 01)	07:10 18:45	06:48 16:57		
6	07:41 16:49 17:27	07:20 17:27 18:04	06:39 18:04	06:44 19:40	18:15 (FO 01) 20:15	05:58 20:45	05:31 20:51	05:36 20:25	06:04 20:25	06:38 19:37	18:11 (FO 01) 18:39 (FO 01)	07:11 18:43	06:49 16:56		
7	07:41 16:50 17:29	07:19 17:29 18:05	06:37 18:05	06:43 19:41	18:16 (FO 01) 20:16	05:56 20:45	05:31 20:51	05:37 20:24	06:05 20:24	06:39 19:35	18:10 (FO 01) 18:40 (FO 01)	07:12 18:42	06:50 16:55		
8	07:40 16:51 17:30	07:17 17:30 18:06	06:36 18:06	06:41 19:43	18:16 (FO 01) 20:17	05:55 20:46	05:30 20:50	05:37 20:23	06:06 20:23	06:40 19:33	18:09 (FO 01) 18:41 (FO 01)	07:13 18:40	06:51 16:54		
9	07:40 16:52 17:31	07:16 17:31 18:07	06:33 18:07	06:39 19:44	18:16 (FO 01) 20:18	05:54 20:47	05:30 20:50	05:38 20:21	06:07 20:21	06:41 19:32	18:09 (FO 01) 18:43 (FO 01)	07:14 18:38	06:53 16:53		
10	07:40 16:53 17:33	07:15 17:33 18:08	06:32 18:08	06:37 19:45	18:18 (FO 01) 20:19	05:53 20:47	05:30 20:50	05:39 20:20	06:08 20:20	06:42 19:30	18:08 (FO 01) 18:44 (FO 01)	07:16 18:37	06:54 16:52		
11	07:40 16:54 17:34	07:14 17:34 18:10	06:30 18:10	06:36 19:46	18:18 (FO 01) 20:20	05:51 20:48	05:30 20:49	05:40 20:19	06:10 20:19	06:43 19:28	18:08 (FO 01) 18:45 (FO 01)	07:17 18:35	06:55 16:51		
12	07:39 16:55 17:35	07:12 17:35 18:11	06:28 18:11	06:34 19:47	18:19 (FO 01) 20:21	05:50 20:48	05:30 20:49	05:40 20:17	06:11 20:17	06:44 19:26	18:07 (FO 01) 18:46 (FO 01)	07:18 18:33	06:57 16:49		
13	07:39 16:57 17:37	07:11 17:37 18:12	06:27 18:12	06:32 19:48	18:21 (FO 01) 20:22	05:49 20:49	05:29 20:48	05:41 20:16	06:12 20:16	06:45 19:25	18:08 (FO 01) 18:48 (FO 01)	07:19 18:31	06:58 16:48		
14	07:39 16:58 17:38	07:10 17:38 18:13	06:25 18:13	06:31 19:49	18:23 (FO 01) 20:24	05:48 20:49	05:29 20:48	05:42 20:14	06:13 20:14	06:47 19:23	18:08 (FO 01) 18:50 (FO 01)	07:20 18:30	06:59 16:47		
15	07:38 16:59 17:39	07:08 17:39 18:14	06:23 18:14	06:29 19:51	18:25 (FO 01) 20:25	05:47 20:50	05:29 20:47	05:43 20:13	06:14 20:13	06:48 19:21	18:08 (FO 01) 18:51 (FO 01)	07:22 18:28	07:00 16:46		
16	07:38 17:00 17:41	07:07 17:41 18:16	06:21 18:16	06:27 19:52	18:26 (FO 01) 20:26	05:46 20:50	05:29 20:46	05:44 20:11	06:15 20:11	06:49 19:19	18:08 (FO 01) 18:50 (FO 01)	07:23 18:27	07:02 16:46		
17	07:37 17:01 17:42	07:05 17:42 18:17	06:20 18:17	06:26 19:53	18:27 (FO 01) 20:27	05:45 20:51	05:29 20:46	05:44 20:10	06:16 20:10	06:50 19:17	18:08 (FO 01) 18:49 (FO 01)	07:24 18:25	07:03 16:45		
18	07:37 17:03 17:43	07:04 17:43 18:18	06:18 18:18	06:24 19:54	18:28 (FO 01) 20:28	05:44 20:51	05:29 20:45	05:45 20:08	06:17 20:08	06:51 19:16	18:08 (FO 01) 18:48 (FO 01)	07:25 18:23	07:04 16:44		
19	07:36 17:04 17:45	07:02 17:45 18:19	06:16 18:19	06:23 19:55	17:34 (FO 01) 20:29	05:43 20:51	05:29 20:44	05:46 20:07	06:18 20:07	06:52 19:14	18:09 (FO 01) 18:46 (FO 01)	07:26 18:22	07:05 16:43		
20	07:36 17:05 17:46	07:01 17:46 18:20	06:14 18:20	06:21 19:56	17:30 (FO 01) 20:30	05:42 20:51	05:30 20:43	05:47 20:05	06:19 20:05	06:53 19:12	18:10 (FO 01) 18:45 (FO 01)	07:28 18:20	07:07 16:42		
21	07:35 17:06 17:47	06:59 17:47 18:22	06:12 18:22	06:19 19:58	17:28 (FO 01) 20:31	05:41 20:52	05:30 20:43	05:48 20:04	06:20 20:04	06:54 19:10	18:11 (FO 01) 18:43 (FO 01)	07:29 18:19	07:08 16:41		
22	07:34 17:08 17:48	06:58 17:48 18:23	06:11 18:23	06:18 19:59	17:26 (FO 01) 20:32	05:40 20:52	05:30 20:42	05:49 20:02	06:22 20:02	06:55 19:08	18:12 (FO 01) 18:41 (FO 01)	07:30 18:17	07:09 16:41		
23	07:33 17:09 17:50	06:56 17:50 18:24	06:09 18:24	06:16 20:00	17:24 (FO 01) 20:33	05:39 20:52	05:30 20:41	05:50 20:01	06:23 20:01	06:56 19:07	18:14 (FO 01) 18:38 (FO 01)	07:31 18:15	07:10 16:40		
24	07:33 17:10 17:51	06:55 17:51 18:25	06:07 18:25	06:15 20:01	17:22 (FO 01) 20:34	05:39 20:52	05:30 20:40	05:51 19:59	06:24 19:59	06:58 19:05	18:16 (FO 01) 18:35 (FO 01)	07:32 18:14	07:12 16:39		
25	07:32 17:11 17:52	06:53 17:52 18:26	06:05 18:26	06:13 20:02	17:20 (FO 01) 20:35	05:38 20:52	05:31 20:40	05:52 19:57	06:25 19:57	06:59 19:03	18:21 (FO 01) 18:29 (FO 01)	07:34 17:12	07:13 16:39		
26	07:31 17:13 17:54	06:52 17:54 18:27	06:04 18:27	06:12 20:03	17:20 (FO 01) 20:36	05:37 20:52	05:31 20:38	05:53 19:56	06:26 19:56	07:00 19:01	18:29 (FO 01) 17:11	07:35 17:11	07:14 16:38		
27	07:30 17:14 17:55	06:50 17:55 18:29	06:02 18:29	06:10 20:05	17:19 (FO 01) 20:37	05:36 20:52	05:31 20:37	05:54 19:54	06:27 19:54	07:01 18:59	18:21 (FO 01) 17:10	07:36 17:10	07:15 16:38		
28	07:29 17:15 17:56	06:48 17:56 18:30	06:00 18:30	06:09 20:06	17:18 (FO 01) 20:38	05:36 20:52	05:35 20:36	05:55 19:52	06:28 19:52	07:02 18:58	18:26 (FO 01) 18:28 (FO 01)	07:37 17:08	07:16 16:37		
29	07:28 17:17 17:57	06:58 17:57 18:31	06:08 18:31	06:07 20:07	18:01 (FO 01) 20:39	05:35 20:52	05:32 20:35	05:56 19:51	06:29 19:51	07:03 18:56	18:23 (FO 01) 18:29 (FO 01)	07:38 17:07	07:17 16:37		
30	07:27 17:18 17:58	06:57 17:58 18:32	06:06 18:32	06:06 20:08	18:17 (FO 01) 20:40	05:34 20:52	05:33 20:34	05:57 19:49	06:30 19:49	07:04 18:54	18:21 (FO 01) 18:30 (FO 01)	07:39 17:05	07:19 16:36		
31	07:26 17:19 17:59	06:55 17:59 18:33	06:05 18:33	06:05 20:09	18:16 (FO 01) 20:41	05:34 20:52	05:33 20:34	05:58 19:47	06:31 19:47	07:05 18:54	18:19 (FO 01) 18:31 (FO 01)	07:40 17:04	07:20 16:43		
Potential sun hours	292	294	369	454	401	454	459	465	432	29	376	772	343		
Total, worst case				454	329					29		772	343	293	281

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

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

Calculation: Shadow Shadow receptor: BJ - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (176)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44 17:21	07:25 17:21 17:57	06:47 17:57	06:53 19:34	18:18 (FO 01) 18:53 (FO 01) 20:09	06:04 20:41	05:33 20:52 20:32	05:59 20:32	06:32 19:46	18:18 (FO 01) 18:33 (FO 01) 18:52	07:05 17:03	06:43 16:36
2	07:41 16:45 17:22	07:24 17:22 17:59	06:45 17:59	06:51 19:36	18:17 (FO 01) 18:51 (FO 01) 20:10	06:03 20:42	05:33 20:52 20:30	06:00 20:30	06:34 19:44	18:17 (FO 01) 18:34 (FO 01) 18:50	07:06 17:01	06:44 16:36
3	07:41 16:46 17:23	07:23 17:23 18:00	06:44 18:00	06:50 19:37	18:17 (FO 01) 18:50 (FO 01) 20:11	06:02 20:42	05:32 20:52 20:29	06:01 20:29	06:35 19:42	18:16 (FO 01) 18:35 (FO 01) 18:49	07:08 17:00	06:45 16:35
4	07:41 16:47 17:25	07:22 17:25 18:01	06:42 18:01	06:48 19:38	18:17 (FO 01) 18:47 (FO 01) 20:13	06:00 20:43	05:32 20:52 20:28	06:02 20:28	06:36 19:40	18:15 (FO 01) 18:36 (FO 01) 18:47	07:09 17:00	06:46 16:35
5	07:41 16:48 17:26	07:21 17:26 18:02	06:40 18:02	06:46 19:39	18:17 (FO 01) 18:45 (FO 01) 20:14	05:59 20:44	05:31 20:51 20:27	06:03 20:27	06:37 19:39	18:14 (FO 01) 18:38 (FO 01) 18:45	07:10 17:00	06:48 16:35
6	07:41 16:49 17:27	07:20 17:27 18:04	06:39 18:04	06:44 19:40	18:17 (FO 01) 18:43 (FO 01) 20:15	05:58 20:45	05:31 20:51 20:25	06:04 20:25	06:38 19:37	18:13 (FO 01) 18:39 (FO 01) 18:43	07:11 17:00	06:49 16:35
7	07:41 16:50 17:29	07:19 17:29 18:05	06:37 18:05	06:43 19:41	18:17 (FO 01) 18:42 (FO 01) 20:16	05:56 20:45	05:31 20:51 20:24	06:05 20:24	06:39 19:35	18:12 (FO 01) 18:40 (FO 01) 18:42	07:12 17:00	06:50 16:34
8	07:40 16:51 17:30	07:17 17:30 18:06	06:35 18:06	06:41 19:43	18:18 (FO 01) 18:39 (FO 01) 20:17	05:55 20:46	05:30 20:50 20:23	06:06 20:23	06:40 19:33	18:11 (FO 01) 18:41 (FO 01) 18:40	07:13 17:00	06:51 16:34
9	07:40 16:52 17:31	07:16 17:31 18:07	06:33 18:07	06:39 19:44	18:18 (FO 01) 18:37 (FO 01) 20:18	05:54 20:47	05:30 20:50 20:21	06:07 20:21	06:41 19:32	18:11 (FO 01) 18:43 (FO 01) 18:38	07:14 17:00	06:53 16:34
10	07:40 16:53 17:33	07:15 17:33 18:08	06:32 18:08	06:37 19:45	18:19 (FO 01) 18:36 (FO 01) 20:19	05:53 20:47	05:30 20:50 20:20	06:08 20:20	06:42 19:30	18:10 (FO 01) 18:44 (FO 01) 18:37	07:16 17:00	06:54 16:34
11	07:40 16:54 17:34	07:14 17:34 18:10	06:30 18:10	06:36 19:46	18:19 (FO 01) 18:34 (FO 01) 20:20	05:51 20:48	05:30 20:49 20:19	06:10 20:19	06:43 19:28	18:10 (FO 01) 18:45 (FO 01) 18:35	07:17 17:00	06:55 16:34
12	07:39 16:55 17:35	07:12 17:35 18:11	06:28 18:11	06:34 19:47	18:20 (FO 01) 18:31 (FO 01) 20:21	05:50 20:48	05:30 20:49 20:17	06:11 20:17	06:44 19:26	18:09 (FO 01) 18:46 (FO 01) 18:33	07:18 17:00	06:57 16:34
13	07:39 16:57 17:37	07:11 17:37 18:12	06:27 18:12	06:32 19:48	18:22 (FO 01) 18:30 (FO 01) 20:23	05:49 20:49	05:29 20:48	06:12 20:16	06:45 19:25	18:10 (FO 01) 18:48 (FO 01) 18:31	07:19 17:00	06:58 16:35
14	07:39 16:58 17:38	07:10 17:38 18:13	06:25 18:13	06:31 19:49	18:23 (FO 01) 18:28 (FO 01) 20:24	05:48 20:49	05:29 20:48	06:13 20:14	06:47 19:23	18:10 (FO 01) 18:50 (FO 01) 18:30	07:20 17:00	06:59 16:35
15	07:38 16:59 17:39	07:08 17:39 18:14	06:23 18:14	06:29 19:51	18:24 (FO 01) 18:26 (FO 01) 20:25	05:47 20:25	05:29 20:50 20:47	06:14 20:13	06:48 19:21	18:10 (FO 01) 18:51 (FO 01) 18:28	07:22 17:00	07:00 16:35
16	07:38 17:00 17:41	07:07 17:41 18:16	06:21 18:16	06:27 19:52	18:25 (FO 01) 18:26 (FO 01) 20:26	05:46 20:26	05:29 20:50 20:46	06:15 20:11	06:49 19:19	18:10 (FO 01) 18:51 (FO 01) 18:27	07:23 17:00	07:02 16:35
17	07:37 17:01 17:42	07:05 17:42 18:17	06:20 18:17	06:26 19:53	18:26 (FO 01) 18:27 (FO 01) 20:27	05:45 20:27	05:29 20:51 20:46	06:16 20:10	06:50 19:17	18:11 (FO 01) 18:50 (FO 01) 18:25	07:24 17:00	07:03 16:35
18	07:37 17:03 17:43	07:04 17:43 18:18	06:18 18:18	06:24 19:54	18:27 (FO 01) 18:28 (FO 01) 20:28	05:44 20:28	05:29 20:51 20:45	06:17 20:08	06:51 19:16	18:11 (FO 01) 18:48 (FO 01) 18:23	07:25 17:00	07:04 16:36
19	07:36 17:04 17:45	07:02 17:45 18:19	06:16 18:19	06:23 19:55	18:28 (FO 01) 18:29 (FO 01) 20:29	05:43 20:29	05:29 20:51 20:44	06:18 20:07	06:52 19:14	18:12 (FO 01) 18:47 (FO 01) 18:22	07:26 17:00	07:05 16:36
20	07:36 17:05 17:46	07:01 17:46 18:20	06:14 18:20	06:21 19:56	17:35 (FO 01) 17:51 (FO 01) 19:56	06:21 20:30	05:42 20:51 20:43	06:19 20:05	06:53 19:12	18:13 (FO 01) 18:45 (FO 01) 18:20	07:28 17:00	07:07 16:37
21	07:35 17:06 17:47	06:59 17:47 18:22	06:12 18:22	06:19 19:58	17:32 (FO 01) 17:55 (FO 01) 19:58	06:19 20:31	05:41 20:52 20:43	06:20 20:04	06:54 19:10	18:14 (FO 01) 18:43 (FO 01) 18:19	07:29 17:00	07:08 16:37
22	07:34 17:08 17:48	06:58 17:48 18:23	06:11 18:23	06:18 19:59	17:29 (FO 01) 17:57 (FO 01) 19:59	06:18 20:32	05:40 20:52 20:42	06:22 20:02	06:55 19:08	18:16 (FO 01) 18:40 (FO 01) 18:17	07:30 17:00	07:09 16:37
23	07:33 17:09 17:50	06:56 17:50 18:24	06:09 18:24	06:16 20:00	17:27 (FO 01) 17:58 (FO 01) 20:00	06:16 20:33	05:39 20:52 20:41	06:23 20:01	06:56 19:07	18:18 (FO 01) 18:37 (FO 01) 18:15	07:31 17:00	07:10 16:38
24	07:33 17:10 17:51	06:55 17:51 18:25	06:07 18:25	06:15 20:01	17:25 (FO 01) 17:59 (FO 01) 20:01	06:15 20:34	05:39 20:52 20:40	06:24 19:59	06:58 19:05	18:23 (FO 01) 18:32 (FO 01) 18:14	07:32 17:00	07:12 16:39
25	07:32 17:11 17:52	06:53 17:52 18:26	06:05 18:26	06:13 20:02	17:23 (FO 01) 18:00 (FO 01) 20:02	06:13 20:35	05:38 20:52 20:39	06:25 19:57	06:59 19:03	18:32 (FO 01) 18:41 (FO 01) 18:12	07:33 17:00	07:13 16:39
26	07:31 17:13 17:54	06:52 17:54 18:27	06:04 18:27	06:12 20:03	17:23 (FO 01) 18:01 (FO 01) 20:03	06:12 20:36	05:37 20:52 20:38	06:26 19:56	07:00 19:01	18:19 (FO 01) 18:48 (FO 01) 18:13	07:34 17:00	07:14 16:40
27	07:30 17:14 17:55	06:50 17:55 18:29	06:02 18:29	06:10 20:05	17:21 (FO 01) 18:02 (FO 01) 20:05	06:10 20:37	05:36 20:52 20:37	06:27 19:54	07:01 18:59	18:22 (FO 01) 18:51 (FO 01) 18:16	07:35 17:00	07:15 16:40
28	07:29 17:15 17:56	06:48 17:56 18:30	06:00 18:30	06:09 20:06	17:20 (FO 01) 18:01 (FO 01) 20:06	06:09 20:38	05:35 20:52 20:36	06:28 19:52	07:02 18:58	18:26 (FO 01) 18:28 (FO 01) 18:58	07:36 17:00	07:16 16:41
29	07:28 17:17 17:57	06:47 17:57 18:31	05:59 18:31	06:07 20:07	18:19 (FO 01) 18:59 (FO 01) 20:07	06:07 20:38	05:32 20:52 20:35	06:29 19:51	07:03 18:56	18:24 (FO 01) 18:29 (FO 01) 18:56	07:37 17:00	07:17 16:42
30	07:27 17:18 17:58	06:46 17:58 18:32	06:00 18:32	06:06 20:08	18:19 (FO 01) 18:57 (FO 01) 20:08	06:06 20:39	05:33 20:52 20:34	06:30 19:49	07:04 18:54	18:22 (FO 01) 18:30 (FO 01) 18:54	07:38 17:00	07:19 16:43
31	07:26 17:19 17:59	06:45 17:59 18:33	05:59 18:33	06:05 20:09	18:18 (FO 01) 18:55 (FO 01) 20:09	06:05 20:40	05:32 20:53 20:33	06:31 19:47	07:05 11	18:20 (FO 01) 18:31 (FO 01) 18:54	07:39 17:00	07:20 16:43
Potential sun hours	292	294	369	404	401	454	459	465	432	376	343	293
Total, worst case				404	309				26	702		281

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

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

Calculation: Shadow Shadow receptor: BK - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (177)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:41 16:44 17:21	07:25 17:21 17:57	06:47 17:57	06:53 19:34	18:19 (FO 01) 20:09	06:04 20:41	05:33 20:52	05:33 20:32	05:59 20:32	06:32 19:46	18:19 (FO 01) 18:33 (FO 01)	07:05 17:03	06:43 16:36
2	07:41 16:45 17:22	07:24 17:22 17:59	06:45 17:59	06:51 19:36	18:18 (FO 01) 20:10	06:03 20:42	05:33 20:52	05:34 20:30	06:00 20:30	06:34 19:44	18:18 (FO 01) 18:34 (FO 01)	07:06 17:01	06:44 16:36
3	07:41 16:46 17:23	07:23 17:23 18:00	06:44 18:00	06:50 19:37	18:19 (FO 01) 20:11	06:02 20:42	05:32 20:52	05:34 20:29	06:01 20:29	06:35 19:42	18:17 (FO 01) 18:35 (FO 01)	07:08 17:00	06:45 16:35
4	07:41 16:47 17:25	07:22 17:25 18:01	06:42 18:01	06:48 19:38	18:18 (FO 01) 20:13	06:00 20:43	05:32 20:52	05:35 20:28	06:02 20:28	06:36 19:40	18:16 (FO 01) 18:36 (FO 01)	07:09 17:00	06:46 16:35
5	07:41 16:48 17:26	07:21 17:26 18:02	06:40 18:02	06:46 19:39	18:18 (FO 01) 20:14	05:59 20:44	05:31 20:51	05:35 20:27	06:03 20:27	06:37 19:39	18:15 (FO 01) 18:38 (FO 01)	07:10 17:00	06:48 16:35
6	07:41 16:49 17:27	07:20 17:27 18:04	06:39 18:04	06:44 19:40	18:18 (FO 01) 20:15	05:58 20:45	05:31 20:51	05:36 20:25	06:04 20:25	06:38 19:37	18:14 (FO 01) 18:39 (FO 01)	07:11 17:00	06:49 16:35
7	07:41 16:50 17:29	07:19 17:29 18:05	06:37 18:05	06:43 19:41	18:19 (FO 01) 20:16	05:56 20:45	05:31 20:51	05:37 20:24	06:05 20:24	06:39 19:35	18:13 (FO 01) 18:40 (FO 01)	07:12 17:00	06:50 16:34
8	07:40 16:51 17:30	07:17 17:30 18:06	06:35 18:06	06:41 19:43	18:19 (FO 01) 20:17	05:55 20:46	05:30 20:50	05:37 20:23	06:06 20:23	06:40 19:33	18:12 (FO 01) 18:41 (FO 01)	07:13 17:00	06:51 16:34
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11	07:40 16:54 17:34	07:14 17:34 18:10	06:30 18:10	06:36 19:46	18:20 (FO 01) 20:20	05:51 20:48	05:30 20:49	05:40 20:19	06:10 20:19	06:43 19:28	18:11 (FO 01) 18:45 (FO 01)	07:17 17:00	06:55 16:34
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15	07:38 16:59 17:39	07:08 17:39 18:14	06:23 18:14	06:29 19:51	18:25 (FO 01) 20:25	05:47 20:50	05:29 20:47	05:43 20:13	06:14 20:13	06:48 19:21	18:12 (FO 01) 18:51 (FO 01)	07:22 17:00	07:00 16:35
16	07:38 17:00 17:41	07:07 17:41 18:16	06:21 18:16	06:27 19:52	18:26 (FO 01) 20:26	05:46 20:50	05:29 20:46	05:44 20:11	06:15 20:11	06:49 19:19	18:12 (FO 01) 18:52 (FO 01)	07:23 17:00	07:02 16:35
17	07:37 17:01 17:42	07:05 17:42 18:17	06:20 18:17	06:26 19:53	18:27 (FO 01) 20:27	05:45 20:51	05:29 20:46	05:44 20:10	06:16 20:10	06:50 19:17	18:12 (FO 01) 18:50 (FO 01)	07:24 17:00	07:03 16:35
18	07:37 17:03 17:43	07:04 17:43 18:18	06:18 18:18	06:24 19:54	18:28 (FO 01) 20:28	05:44 20:51	05:29 20:45	05:45 20:08	06:17 20:08	06:51 19:16	18:13 (FO 01) 18:49 (FO 01)	07:25 17:00	07:04 16:36
19	07:36 17:04 17:45	07:02 17:45 18:19	06:16 18:19	06:23 19:55	18:29 (FO 01) 20:29	05:43 20:51	05:29 20:44	05:46 20:07	06:18 20:07	06:52 19:14	18:14 (FO 01) 18:47 (FO 01)	07:26 17:00	07:05 16:36
20	07:36 17:05 17:46	07:01 17:46 18:20	06:14 18:20	06:21 19:56	17:38 (FO 01) 19:56	05:42 20:30	05:30 20:51	05:47 20:05	06:19 20:05	06:53 19:12	18:15 (FO 01) 18:45 (FO 01)	07:28 17:00	07:07 16:37
21	07:35 17:06 17:47	06:59 17:47 18:22	06:12 18:22	06:19 19:58	17:35 (FO 01) 19:58	05:41 20:31	05:30 20:52	05:48 20:04	06:20 20:04	06:54 19:10	18:16 (FO 01) 18:43 (FO 01)	07:29 17:00	07:08 16:37
22	07:34 17:08 17:48	06:58 17:48 18:23	06:11 18:23	06:18 19:59	17:31 (FO 01) 19:59	05:40 20:32	05:30 20:52	05:49 20:02	06:22 20:02	06:55 19:08	18:18 (FO 01) 18:40 (FO 01)	07:30 17:00	07:09 16:37
23	07:33 17:09 17:50	06:56 17:50 18:24	06:09 18:24	06:16 20:00	17:29 (FO 01) 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:41	06:56 19:07	18:21 (FO 01) 18:36 (FO 01)	07:31 17:00	07:10 16:38
24	07:33 17:10 17:51	06:55 17:51 18:25	06:07 18:25	06:15 20:01	17:27 (FO 01) 20:01	05:39 20:34	05:30 20:52	05:51 20:40	06:24 19:59	06:58 19:05	18:22 (FO 01) 18:37 (FO 01)	07:32 17:00	07:12 16:39
25	07:32 17:11 17:52	06:53 17:52 18:26	06:05 18:26	06:13 20:02	17:25 (FO 01) 20:02	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	18:24 (FO 01) 18:39 (FO 01)	07:33 17:00	07:13 16:39
26	07:31 17:13 17:54	06:52 17:54 18:27	06:04 18:27	06:12 20:03	17:24 (FO 01) 20:03	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	18:25 (FO 01) 18:40 (FO 01)	07:34 17:00	07:14 16:40
27	07:30 17:14 17:55	06:50 17:55 18:29	06:02 18:29	06:10 20:05	17:23 (FO 01) 20:05	05:36 20:37	05:31 20:52	05:54 20:37	06:27 19:54	07:01 18:59	18:26 (FO 01) 18:41 (FO 01)	07:35 17:00	07:15 16:40
28	07:29 17:15 17:56	06:48 17:56 18:30	06:00 18:30	06:09 20:06	18:02 (FO 01) 20:06	05:36 20:38	05:32 20:52	05:55 20:36	06:28 19:52	07:02 18:58	18:27 (FO 01) 18:28 (FO 01)	07:36 17:00	07:16 16:41
29	07:28 17:17 17:57	06:58 17:57 18:31	06:08 18:31	06:07 20:07	18:20 (FO 01) 20:07	05:35 20:38	05:32 20:52	05:56 20:35	06:29 19:51	07:03 18:56	18:24 (FO 01) 18:29 (FO 01)	07:37 17:00	07:17 16:42
30	07:27 17:18 17:58	06:57 17:58 18:32	06:06 18:32	06:06 20:08	18:20 (FO 01) 20:08	05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	18:22 (FO 01) 18:30 (FO 01)	07:38 17:00	07:19 16:43
31	07:26 17:19 17:59	06:55 17:59 18:33	06:05 18:33	06:05 20:09	18:20 (FO 01) 20:09	05:34 20:40	05:33 20:53	05:58 20:33	06:31 19:47	07:05 18:31 (FO 01)	18:21 (FO 01) 18:31 (FO 01)	07:39 17:00	07:20 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	343	293	281	
Total, worst case			381	292					24	659			

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

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

Calculation: Shadow Shadow receptor: BL - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (178)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:41 16:44 17:21	07:25 17:21 17:57	06:47 17:57	06:53 19:34	18:21 (FO 01) 20:09	06:04 20:41	05:33 20:52	05:33 20:32	05:59 20:32	06:32 19:46	18:20 (FO 01) 18:33 (FO 01)	07:05 17:03	06:43 16:36
2	07:41 16:45 17:22	07:24 17:22 17:59	06:45 17:59	06:51 19:36	18:20 (FO 01) 20:10	06:03 20:42	05:33 20:52	05:34 20:30	06:00 20:30	06:34 19:44	18:19 (FO 01) 18:34 (FO 01)	07:06 17:01	06:44 16:36
3	07:41 16:46 17:23	07:23 17:23 18:00	06:44 18:00	06:50 19:37	18:21 (FO 01) 20:11	06:02 20:42	05:32 20:52	05:34 20:29	06:01 20:29	06:35 19:42	18:18 (FO 01) 18:35 (FO 01)	07:08 17:00	06:45 16:35
4	07:41 16:47 17:25	07:22 17:25 18:01	06:42 18:01	06:48 19:38	18:20 (FO 01) 20:13	06:00 20:43	05:32 20:52	05:35 20:28	06:02 20:28	06:36 19:40	18:17 (FO 01) 18:36 (FO 01)	07:09 17:00	06:46 16:35
5	07:41 16:48 17:26	07:21 17:26 18:02	06:40 18:02	06:46 19:39	18:20 (FO 01) 20:14	05:59 20:44	05:31 20:51	05:35 20:27	06:03 20:27	06:37 19:39	18:16 (FO 01) 18:38 (FO 01)	07:10 17:00	06:48 16:35
6	07:41 16:49 17:27	07:20 17:27 18:04	06:39 18:04	06:44 19:40	18:19 (FO 01) 20:15	05:58 20:45	05:31 20:51	05:36 20:25	06:04 20:25	06:38 19:37	18:15 (FO 01) 18:39 (FO 01)	07:11 17:00	06:49 16:35
7	07:41 16:50 17:29	07:19 17:29 18:05	06:37 18:05	06:43 19:41	18:20 (FO 01) 20:16	05:56 20:45	05:31 20:51	05:37 20:24	06:05 20:24	06:39 19:35	18:15 (FO 01) 18:40 (FO 01)	07:12 17:00	06:50 16:34
8	07:40 16:51 17:30	07:17 17:30 18:06	06:35 18:06	06:41 19:43	18:20 (FO 01) 20:17	05:55 20:46	05:30 20:50	05:37 20:23	06:06 20:23	06:40 19:33	18:14 (FO 01) 18:41 (FO 01)	07:13 17:00	06:51 16:34
9	07:40 16:52 17:31	07:16 17:31 18:07	06:33 18:07	06:39 19:44	18:20 (FO 01) 20:18	05:54 20:47	05:30 20:50	05:38 20:21	06:07 20:21	06:41 19:32	18:14 (FO 01) 18:43 (FO 01)	07:14 17:00	06:53 16:34
10	07:40 16:53 17:33	07:15 17:33 18:08	06:32 18:08	06:37 19:45	18:21 (FO 01) 20:19	05:53 20:47	05:30 20:50	05:39 20:20	06:08 20:20	06:42 19:30	18:13 (FO 01) 18:44 (FO 01)	07:16 17:00	06:54 16:34
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13	07:39 16:57 17:37	07:11 17:37 18:12	06:27 18:12	06:32 19:48	18:23 (FO 01) 20:22	05:49 20:49	05:29 20:48	05:41 20:16	06:12 20:16	06:45 19:25	18:14 (FO 01) 18:48 (FO 01)	07:19 17:00	06:58 16:35
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15	07:38 16:59 17:39	07:08 17:39 18:14	06:23 18:14	06:29 19:51	18:25 (FO 01) 20:25	05:47 20:50	05:29 20:47	05:43 20:13	06:14 20:13	06:48 19:21	18:14 (FO 01) 18:51 (FO 01)	07:22 17:00	07:00 16:35
16	07:38 17:00 17:41	07:07 17:41 18:16	06:21 18:16	06:27 19:52	18:26 (FO 01) 20:26	05:46 20:50	05:29 20:46	05:44 20:11	06:15 20:11	06:49 19:19	18:15 (FO 01) 18:52 (FO 01)	07:23 17:00	07:02 16:35
17	07:37 17:01 17:42	07:05 17:42 18:17	06:20 18:17	06:26 19:53	18:27 (FO 01) 20:27	05:45 20:51	05:29 20:46	05:44 20:10	06:16 20:10	06:50 19:17	18:15 (FO 01) 18:51 (FO 01)	07:24 17:00	07:03 16:35
18	07:37 17:03 17:43	07:04 17:43 18:18	06:18 18:18	06:24 19:54	18:28 (FO 01) 20:28	05:44 20:51	05:29 20:45	05:45 20:08	06:17 20:08	06:51 19:16	18:16 (FO 01) 18:49 (FO 01)	07:25 17:00	07:04 16:36
19	07:36 17:04 17:45	07:02 17:45 18:19	06:16 18:19	06:23 19:55	18:29 (FO 01) 20:29	05:43 20:51	05:29 20:44	05:46 20:07	06:18 20:07	06:52 19:14	18:17 (FO 01) 18:47 (FO 01)	07:26 17:00	07:05 16:36
20	07:36 17:05 17:46	07:01 17:46 18:20	06:14 18:20	06:21 19:56	18:30 (FO 01) 20:30	05:42 20:51	05:30 20:43	05:47 20:05	06:19 20:05	06:53 19:12	18:19 (FO 01) 18:45 (FO 01)	07:28 17:00	07:07 16:37
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23	07:33 17:09 17:50	06:56 17:50 18:24	06:09 18:24	06:16 20:00	17:33 (FO 01) 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:41	06:56 19:07	18:38 (FO 01) 18:15 (FO 01)	07:31 17:00	07:10 16:38
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26	07:31 17:13 17:54	06:52 17:54 18:27	06:04 18:27	06:12 20:03	17:27 (FO 01) 20:03	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	18:18 (FO 01) 18:11 (FO 01)	07:34 17:00	07:14 16:40
27	07:30 17:14 17:55	06:50 17:55 18:29	06:02 18:29	06:10 20:05	17:26 (FO 01) 20:05	05:36 20:37	05:31 20:52	05:54 20:37	06:27 19:54	07:01 18:59	18:22 (FO 01) 18:10 (FO 01)	07:35 17:00	07:15 16:40
28	07:29 17:15 17:56	06:48 17:56 18:30	06:00 18:30	06:09 20:06	17:24 (FO 01) 20:06	05:36 20:38	05:32 20:52	05:55 20:36	06:28 19:52	07:02 18:58	18:27 (FO 01) 18:28 (FO 01)	07:36 17:00	07:16 16:41
29	07:28 17:17 17:57	06:58 17:57 18:31	06:08 18:31	06:07 20:07	18:01 (FO 01) 20:07	05:35 20:38	05:32 20:52	05:56 20:35	06:29 19:51	07:03 18:56	18:25 (FO 01) 18:29 (FO 01)	07:37 17:00	07:17 16:42
30	07:27 17:18 17:58	06:57 17:58 18:32	06:06 18:32	06:06 20:08	18:23 (FO 01) 20:08	05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	18:23 (FO 01) 18:30 (FO 01)	07:38 17:00	07:19 16:43
31	07:26 17:19 17:59	06:55 17:59 18:33	06:05 18:33	06:05 20:09	18:22 (FO 01) 20:09	05:34 20:40	05:33 20:53	05:58 20:33	06:31 19:47	07:05 19:47	18:22 (FO 01) 18:31 (FO 01)	07:39 17:00	07:20 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	343	293	281	
Total, worst case			330	275					21	591			

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

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

Calculation: Shadow Shadow receptor: BM - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (179)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:41 16:44 17:21	07:25 17:21 17:57	06:47 17:57	06:53 19:34	18:19 (FO 01) 20:09	06:04 20:41	05:33 20:52	05:33 20:32	05:59 20:32	06:32 19:46	18:20 (FO 01) 18:33 (FO 01)	07:05 17:03	06:43 16:36
2	07:41 16:45 17:22	07:24 17:22 17:59	06:45 17:59	06:51 19:36	18:19 (FO 01) 20:10	06:03 20:42	05:33 20:52	05:34 20:30	06:00 20:30	06:34 19:44	18:19 (FO 01) 18:34 (FO 01)	07:06 17:01	06:44 16:36
3	07:41 16:46 17:23	07:23 17:23 18:00	06:44 18:00	06:50 19:37	18:19 (FO 01) 20:11	06:02 20:42	05:32 20:52	05:34 20:29	06:01 20:29	06:35 19:42	18:18 (FO 01) 18:35 (FO 01)	07:08 18:49	06:45 17:00
4	07:41 16:47 17:25	07:22 17:25 18:01	06:42 18:01	06:48 19:38	18:19 (FO 01) 20:13	06:00 20:43	05:32 20:52	05:35 20:28	06:02 20:28	06:36 19:40	18:17 (FO 01) 18:36 (FO 01)	07:09 18:47	06:46 16:59
5	07:41 16:48 17:26	07:21 17:26 18:02	06:40 18:02	06:46 19:39	18:19 (FO 01) 20:14	05:59 20:44	05:31 20:51	05:35 20:27	06:03 20:27	06:37 19:39	18:16 (FO 01) 18:38 (FO 01)	07:10 18:45	06:48 16:57
6	07:41 16:49 17:27	07:20 17:27 18:04	06:39 18:04	06:44 19:40	18:18 (FO 01) 20:15	05:58 20:45	05:31 20:51	05:36 20:25	06:04 20:25	06:38 19:37	18:15 (FO 01) 18:39 (FO 01)	07:11 18:43	06:49 16:56
7	07:41 16:50 17:29	07:19 17:29 18:05	06:37 18:05	06:43 19:41	18:19 (FO 01) 20:16	05:56 20:45	05:31 20:51	05:37 20:24	06:05 20:24	06:39 19:35	18:14 (FO 01) 18:40 (FO 01)	07:12 18:42	06:50 16:55
8	07:40 16:51 17:30	07:17 17:30 18:06	06:35 18:06	06:41 19:43	18:20 (FO 01) 20:17	05:55 20:46	05:30 20:50	05:37 20:23	06:06 20:23	06:40 19:33	18:13 (FO 01) 18:41 (FO 01)	07:13 18:40	06:51 16:54
9	07:40 16:52 17:31	07:16 17:31 18:07	06:33 18:07	06:39 19:44	18:20 (FO 01) 20:18	05:54 20:47	05:30 20:50	05:38 20:21	06:07 20:21	06:41 19:32	18:12 (FO 01) 18:43 (FO 01)	07:14 18:38	06:53 16:53
10	07:40 16:53 17:33	07:15 17:33 18:08	06:32 18:08	06:37 19:45	18:21 (FO 01) 20:19	05:53 20:47	05:30 20:50	05:39 20:20	06:08 20:20	06:42 19:30	18:12 (FO 01) 18:44 (FO 01)	07:16 18:37	06:54 16:52
11	07:40 16:54 17:34	07:14 17:34 18:10	06:30 18:10	06:36 19:46	18:22 (FO 01) 20:20	05:51 20:48	05:30 20:49	05:40 20:19	06:10 20:19	06:43 19:28	18:12 (FO 01) 18:45 (FO 01)	07:17 18:35	06:55 16:51
12	07:39 16:55 17:35	07:12 17:35 18:11	06:28 18:11	06:34 19:47	18:22 (FO 01) 20:21	05:50 20:48	05:30 20:49	05:40 20:17	06:11 20:17	06:44 19:26	18:11 (FO 01) 18:46 (FO 01)	07:18 18:33	06:57 16:49
13	07:39 16:57 17:37	07:11 17:37 18:12	06:27 18:12	06:32 19:48	18:24 (FO 01) 20:22	05:49 20:49	05:29 20:48	05:41 20:16	06:12 20:16	06:45 19:25	18:12 (FO 01) 18:48 (FO 01)	07:19 18:31	06:58 16:48
14	07:39 16:58 17:38	07:10 17:38 18:13	06:25 18:13	06:31 19:49	18:25 (FO 01) 20:24	05:48 20:49	05:29 20:48	05:42 20:14	06:13 20:14	06:47 19:23	18:12 (FO 01) 18:50 (FO 01)	07:20 18:30	06:59 16:47
15	07:38 16:59 17:39	07:08 17:39 18:14	06:23 18:14	06:29 19:51	18:28 (FO 01) 20:25	05:47 20:50	05:29 20:47	05:43 20:13	06:14 20:13	06:48 19:21	18:12 (FO 01) 18:51 (FO 01)	07:22 18:28	07:00 16:46
16	07:38 17:00 17:41	07:07 17:41 18:16	06:21 18:16	06:27 19:52	18:29 (FO 01) 20:26	05:46 20:50	05:29 20:46	05:44 20:11	06:15 20:11	06:49 19:19	18:12 (FO 01) 18:52 (FO 01)	07:23 18:26	07:02 16:46
17	07:37 17:01 17:42	07:05 17:42 18:17	06:20 18:17	06:26 19:53	18:30 (FO 01) 20:27	05:45 20:51	05:29 20:46	05:44 20:10	06:16 20:10	06:50 19:17	18:13 (FO 01) 18:50 (FO 01)	07:24 18:25	07:03 16:45
18	07:37 17:03 17:43	07:04 17:43 18:18	06:18 18:18	06:24 19:54	18:31 (FO 01) 20:28	05:44 20:51	05:29 20:45	05:45 20:08	06:17 20:08	06:51 19:16	18:13 (FO 01) 18:49 (FO 01)	07:25 18:23	07:04 16:44
19	07:36 17:04 17:45	07:02 17:45 18:19	06:16 18:19	06:23 19:55	18:32 (FO 01) 20:29	05:43 20:51	05:29 20:44	05:46 20:07	06:18 20:07	06:52 19:14	18:14 (FO 01) 18:47 (FO 01)	07:26 18:22	07:05 16:43
20	07:36 17:05 17:46	07:01 17:46 18:20	06:14 18:20	06:21 19:56	18:33 (FO 01) 20:30	05:42 20:51	05:30 20:43	05:47 20:05	06:19 20:05	06:53 19:12	18:15 (FO 01) 18:46 (FO 01)	07:28 18:20	07:07 16:42
21	07:35 17:06 17:47	06:59 17:47 18:22	06:12 18:22	06:19 19:58	18:34 (FO 01) 20:31	05:41 20:52	05:30 20:43	05:48 20:04	06:20 20:04	06:54 19:10	18:16 (FO 01) 18:43 (FO 01)	07:29 18:19	07:08 16:41
22	07:34 17:08 17:48	06:58 17:48 18:23	06:11 18:23	06:18 19:59	18:35 (FO 01) 20:32	05:40 20:52	05:30 20:42	05:49 20:02	06:22 20:02	06:55 19:08	18:18 (FO 01) 18:41 (FO 01)	07:30 18:17	07:09 16:41
23	07:33 17:09 17:50	06:56 17:50 18:24	06:09 18:24	06:16 20:00	18:36 (FO 01) 20:33	05:39 20:52	05:30 20:41	05:50 20:01	06:23 20:01	06:56 19:07	18:21 (FO 01) 18:37 (FO 01)	07:31 18:15	07:10 16:40
24	07:33 17:10 17:51	06:55 17:51 18:25	06:07 18:25	06:15 20:01	18:37 (FO 01) 20:34	05:39 20:52	05:30 20:40	05:51 19:59	06:24 19:59	06:58 19:05	18:22 (FO 01) 18:34 (FO 01)	07:32 18:14	07:12 16:39
25	07:32 17:11 17:52	06:53 17:52 18:26	06:05 18:26	06:13 20:02	18:38 (FO 01) 20:35	05:38 20:52	05:31 20:39	05:52 19:57	06:25 19:57	06:59 19:03	18:23 (FO 01) 18:35 (FO 01)	07:33 17:12	07:13 16:39
26	07:31 17:13 17:54	06:52 17:54 18:27	06:04 18:27	06:12 20:03	18:39 (FO 01) 20:36	05:37 20:52	05:31 20:38	05:53 19:56	06:26 19:56	07:00 19:01	18:24 (FO 01) 18:38 (FO 01)	07:34 17:11	07:14 16:38
27	07:30 17:14 17:55	06:50 17:55 18:29	06:02 18:29	06:10 20:05	18:40 (FO 01) 20:37	05:36 20:52	05:31 20:37	05:54 19:54	06:27 19:54	07:01 18:59	18:25 (FO 01) 18:41 (FO 01)	07:35 17:10	07:15 16:38
28	07:29 17:15 17:56	06:48 17:56 18:30	06:00 18:30	06:09 20:06	18:41 (FO 01) 20:38	05:36 20:52	05:32 20:36	05:55 19:52	06:28 19:52	07:02 18:58	18:26 (FO 01) 18:42 (FO 01)	07:36 17:08	07:16 16:41
29	07:28 17:17 17:57	06:58 17:57 18:31	06:08 18:31	06:07 20:07	18:42 (FO 01) 20:39	05:35 20:52	05:32 20:35	05:56 19:51	06:29 19:51	07:03 18:56	18:27 (FO 01) 18:43 (FO 01)	07:37 17:07	07:17 16:42
30	07:27 17:18 17:58	06:57 17:58 18:32	06:06 18:32	06:06 20:08	18:43 (FO 01) 20:40	05:34 20:52	05:33 20:34	05:57 19:49	06:30 19:49	07:04 18:54	18:28 (FO 01) 18:44 (FO 01)	07:38 17:05	07:19 16:36
31	07:26 17:19 17:59	06:55 17:59 18:33	06:05 18:33	06:05 20:09	18:44 (FO 01) 20:41	05:34 20:52	05:33 20:34	05:58 19:47	06:31 19:47	07:05 18:55	18:29 (FO 01) 18:45 (FO 01)	07:39 17:04	07:20 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	343	293	281	
Total, worst case			381	280				18	651				

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

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

Calculation: Shadow Shadow receptor: BN - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (180)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	18:18 (FO 01) 20:09	06:04 20:41	05:33 20:52	05:33 20:32	05:59 19:46	18:20 (FO 01) 18:33 (FO 01)	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	18:18 (FO 01) 20:10	06:03 20:42	05:33 20:52	06:00 20:30	06:34 19:44	18:18 (FO 01) 18:34 (FO 01)	07:06 18:50	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	18:18 (FO 01) 20:11	06:02 20:42	05:34 20:52	06:01 20:29	06:35 19:42	18:17 (FO 01) 18:35 (FO 01)	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	18:18 (FO 01) 20:13	06:00 20:43	05:35 20:52	06:02 20:28	06:36 19:40	18:16 (FO 01) 18:36 (FO 01)	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	18:18 (FO 01) 20:14	05:59 20:44	05:35 20:51	06:03 20:27	06:37 19:39	18:15 (FO 01) 18:38 (FO 01)	07:10 18:45	06:48 16:57	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	18:18 (FO 01) 20:15	05:58 20:45	05:36 20:51	06:04 20:25	06:38 19:37	18:14 (FO 01) 18:39 (FO 01)	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	18:19 (FO 01) 20:16	05:56 20:45	05:31 20:51	06:05 20:24	06:39 19:35	18:13 (FO 01) 18:40 (FO 01)	07:12 18:42	06:50 16:55	07:26 16:34
8	07:40 16:51	07:17 17:30	06:35 18:06	06:41 19:43	18:19 (FO 01) 20:17	05:55 20:46	05:30 20:50	06:06 20:23	06:40 19:33	18:12 (FO 01) 18:41 (FO 01)	07:13 18:40	06:51 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:33 18:07	06:39 19:44	18:19 (FO 01) 20:18	05:54 20:47	05:30 20:50	06:07 20:21	06:41 19:32	18:11 (FO 01) 18:43 (FO 01)	07:14 18:38	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	06:37 19:45	18:20 (FO 01) 20:19	05:53 20:47	05:30 20:50	06:08 20:20	06:42 19:30	18:11 (FO 01) 18:44 (FO 01)	07:16 18:37	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	18:21 (FO 01) 20:20	05:51 20:48	05:30 20:49	06:10 20:19	06:43 19:28	18:10 (FO 01) 18:45 (FO 01)	07:17 18:35	06:55 16:51	07:30 16:34
12	07:39 16:55	07:12 17:35	06:28 18:11	06:34 19:47	18:22 (FO 01) 20:21	05:50 20:48	05:30 20:49	06:11 20:17	06:44 19:26	18:10 (FO 01) 18:46 (FO 01)	07:18 18:33	06:57 16:49	07:30 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	18:24 (FO 01) 20:23	05:49 20:49	05:29 20:48	06:12 20:16	06:45 19:25	18:11 (FO 01) 18:48 (FO 01)	07:19 18:31	06:58 16:48	07:31 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:49	18:25 (FO 01) 20:24	05:48 20:49	05:29 20:48	06:13 20:14	06:47 19:23	18:11 (FO 01) 18:50 (FO 01)	07:20 18:30	06:59 16:47	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:14	06:29 19:51	18:28 (FO 01) 20:25	05:47 20:50	05:29 20:47	06:14 20:13	06:48 19:21	18:11 (FO 01) 18:51 (FO 01)	07:22 18:28	07:00 16:46	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	18:30 (FO 01) 20:26	05:46 20:50	05:29 20:46	06:15 20:11	06:49 19:19	18:11 (FO 01) 18:51 (FO 01)	07:23 18:26	07:02 16:46	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	18:31 (FO 01) 20:27	05:45 20:51	05:29 20:46	06:16 20:10	06:50 19:17	18:11 (FO 01) 18:50 (FO 01)	07:24 18:25	07:03 16:45	07:34 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	18:32 (FO 01) 20:28	05:44 20:51	05:29 20:45	06:17 20:08	06:51 19:16	18:11 (FO 01) 18:49 (FO 01)	07:25 18:23	07:04 16:44	07:35 16:36
19	07:36 17:04	07:02 17:45	06:16 18:19	06:23 19:55	18:33 (FO 01) 20:29	05:43 20:51	05:29 20:44	06:18 20:07	06:52 19:14	18:12 (FO 01) 18:47 (FO 01)	07:26 18:22	07:05 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:56	18:34 (FO 01) 20:30	05:42 20:51	05:29 20:43	06:19 20:05	06:53 19:12	18:13 (FO 01) 18:46 (FO 01)	07:28 18:20	07:07 16:42	07:36 16:37
21	07:35 17:06	06:59 17:47	06:12 18:22	06:19 19:58	18:35 (FO 01) 20:31	05:41 20:52	05:29 20:43	06:20 20:04	06:54 19:10	18:14 (FO 01) 18:44 (FO 01)	07:29 18:19	07:08 16:41	07:37 16:37
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	18:36 (FO 01) 20:32	05:40 20:52	05:29 20:42	06:22 20:02	06:55 19:08	18:15 (FO 01) 18:41 (FO 01)	07:30 18:17	07:09 16:41	07:37 16:37
23	07:33 17:09	06:56 17:50	06:09 18:24	06:16 20:00	18:37 (FO 01) 20:33	05:39 20:52	05:30 20:41	06:23 20:01	06:56 19:07	18:17 (FO 01) 18:38 (FO 01)	07:31 18:15	07:10 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	18:38 (FO 01) 20:34	05:39 20:52	05:30 20:40	06:24 19:59	06:58 19:05	18:20 (FO 01) 18:34 (FO 01)	07:32 18:14	07:12 16:39	07:38 16:39
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	18:39 (FO 01) 20:35	05:38 20:52	05:31 20:39	06:25 19:57	06:59 19:03	18:34 (FO 01) 18:41 (FO 01)	07:34 17:12	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:54	06:04 18:27	06:12 20:03	18:40 (FO 01) 20:36	05:37 20:52	05:31 20:38	06:26 19:56	07:00 19:01	18:42 (FO 01) 18:48 (FO 01)	07:35 17:11	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	18:41 (FO 01) 20:37	05:36 20:52	05:31 20:37	06:27 19:54	07:01 18:59	18:43 (FO 01) 18:54 (FO 01)	07:36 17:10	07:15 16:38	07:39 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	06:09 20:06	18:42 (FO 01) 20:38	05:35 20:52	05:31 20:36	06:28 19:52	07:02 18:58	18:44 (FO 01) 18:59 (FO 01)	07:37 17:08	07:16 16:37	07:40 16:41
29	07:28 17:17	06:47 19:31	06:58 18:19	06:07 20:07	18:43 (FO 01) 20:39	05:34 20:52	05:31 20:35	06:29 19:51	07:03 18:56	18:26 (FO 01) 18:29 (FO 01)	07:38 17:07	07:17 16:37	07:40 16:42
30	07:27 17:18	06:57 19:32	06:57 18:19	06:06 20:08	18:44 (FO 01) 20:40	05:33 20:52	05:31 20:34	06:30 19:49	07:04 18:54	18:24 (FO 01) 18:30 (FO 01)	07:39 17:05	07:19 16:36	07:40 16:43
31	07:26 17:19	06:55 19:33	06:55 18:19	06:05 20:09	18:45 (FO 01) 20:41	05:32 20:53	05:31 20:33	06:31 19:47	07:05 19:01	18:22 (FO 01) 18:31 (FO 01)	07:40 17:04	07:20 16:35	07:40 16:43
Potential sun hours	292	294	369	421	401	454	459	465	432	376	343	293	281
Total, worst case				421	289				18	699			

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

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

Calculation: Shadow Shadow receptor: BO - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (181)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	18:16 (FO 01) 20:09	06:04 20:41	05:33 20:52	05:59 20:32	06:32 19:46	18:19 (FO 01) 18:33 (FO 01)	07:05 17:03	06:43 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	18:16 (FO 01) 20:10	06:03 20:42	05:33 20:52	06:00 20:30	06:34 19:44	18:18 (FO 01) 18:34 (FO 01)	07:06 18:50	06:44 17:01
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	18:17 (FO 01) 20:11	06:02 20:42	05:34 20:52	06:01 20:29	06:35 19:42	18:16 (FO 01) 18:35 (FO 01)	07:08 18:49	06:45 17:00
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	18:16 (FO 01) 20:13	06:00 20:43	05:35 20:52	06:02 20:28	06:36 19:40	18:15 (FO 01) 18:36 (FO 01)	07:09 18:47	06:46 16:59
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	18:16 (FO 01) 20:14	05:59 20:44	05:35 20:51	06:03 20:27	06:37 19:39	18:13 (FO 01) 18:38 (FO 01)	07:10 18:45	06:48 16:57
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	18:16 (FO 01) 20:15	05:58 20:45	05:36 20:51	06:04 20:25	06:38 19:37	18:12 (FO 01) 18:39 (FO 01)	07:11 18:43	06:49 16:56
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	18:17 (FO 01) 20:16	05:56 20:45	05:37 20:51	06:05 20:24	06:39 19:35	18:11 (FO 01) 18:40 (FO 01)	07:12 18:42	06:50 16:55
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9	07:40 16:52	07:16 17:31	06:33 18:07	06:39 19:44	18:18 (FO 01) 20:18	05:54 20:47	05:38 20:50	06:07 20:21	06:41 19:32	18:10 (FO 01) 18:43 (FO 01)	07:14 18:38	06:53 16:53
10	07:40 16:53	07:15 17:33	06:32 18:08	06:37 19:45	18:20 (FO 01) 20:19	05:53 20:47	05:39 20:50	06:08 20:20	06:42 19:30	18:09 (FO 01) 18:44 (FO 01)	07:16 18:37	06:54 16:52
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	18:20 (FO 01) 20:20	05:51 20:48	05:40 20:49	06:10 20:19	06:43 19:28	18:09 (FO 01) 18:45 (FO 01)	07:17 18:35	06:55 16:51
12	07:39 16:55	07:12 17:35	06:28 18:11	06:34 19:47	18:21 (FO 01) 20:21	05:50 20:48	05:40 20:49	06:11 20:17	06:44 19:26	18:08 (FO 01) 18:46 (FO 01)	07:18 18:33	06:57 16:49
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	18:24 (FO 01) 20:23	05:49 20:49	05:41 20:48	06:12 20:16	06:45 19:25	18:09 (FO 01) 18:48 (FO 01)	07:19 18:31	06:58 16:48
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:49	18:26 (FO 01) 20:24	05:48 20:49	05:42 20:48	06:13 20:14	06:47 19:23	18:09 (FO 01) 18:50 (FO 01)	07:20 18:30	06:59 16:47
15	07:38 16:59	07:08 17:39	06:23 18:14	06:29 19:51	18:28 (FO 01) 20:25	05:47 20:50	05:43 20:47	06:14 20:13	06:48 19:21	18:08 (FO 01) 18:51 (FO 01)	07:22 18:28	07:00 16:46
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	18:30 (FO 01) 20:26	05:46 20:50	05:44 20:46	06:15 20:11	06:49 19:19	18:08 (FO 01) 18:50 (FO 01)	07:23 18:27	07:02 16:46
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	18:34 (FO 01) 20:27	05:45 20:51	05:44 20:46	06:16 20:10	06:50 19:17	18:09 (FO 01) 18:49 (FO 01)	07:24 18:25	07:03 16:45
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	18:34 (FO 01) 20:28	05:44 20:51	05:45 20:45	06:17 20:08	06:51 19:16	18:09 (FO 01) 18:48 (FO 01)	07:25 18:23	07:04 16:44
19	07:36 17:04	07:02 17:45	06:16 18:19	06:23 19:55	18:33 (FO 01) 20:29	05:43 20:51	05:46 20:44	06:18 20:07	06:52 19:14	18:09 (FO 01) 18:47 (FO 01)	07:26 18:22	07:05 16:43
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:56	18:30 (FO 01) 20:30	05:42 20:51	05:47 20:43	06:19 20:05	06:53 19:12	18:10 (FO 01) 18:45 (FO 01)	07:28 18:20	07:07 16:42
21	07:35 17:06	06:59 17:47	06:12 18:22	06:19 19:58	18:28 (FO 01) 20:31	05:41 20:52	05:48 20:43	06:20 20:04	06:54 19:10	18:11 (FO 01) 18:43 (FO 01)	07:29 18:19	07:08 16:41
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	18:26 (FO 01) 20:32	05:40 20:52	05:49 20:42	06:22 20:02	06:55 19:08	18:12 (FO 01) 18:41 (FO 01)	07:30 18:17	07:09 16:41
23	07:33 17:09	06:56 17:50	06:09 18:24	06:16 20:00	18:24 (FO 01) 20:33	05:39 20:52	05:50 20:41	06:23 20:01	06:56 19:07	18:13 (FO 01) 18:39 (FO 01)	07:31 18:15	07:10 16:40
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	18:22 (FO 01) 20:34	05:39 20:52	05:51 20:40	06:24 19:59	06:58 19:05	18:16 (FO 01) 18:19 (FO 01)	07:32 18:14	07:12 16:39
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	18:21 (FO 01) 20:35	05:38 20:52	05:52 20:39	06:25 19:57	06:59 19:03	18:19 (FO 01) 18:32 (FO 01)	07:34 17:12	07:13 16:39
26	07:31 17:13	06:52 17:54	06:04 18:27	06:12 20:03	18:20 (FO 01) 20:36	05:37 20:52	05:53 20:38	06:26 19:56	07:00 19:01	18:17 (FO 01) 17:11	07:35 16:38	07:14 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	18:19 (FO 01) 20:37	05:36 20:52	05:54 20:37	06:27 19:54	07:01 18:59	18:18 (FO 01) 17:10	07:36 16:38	07:15 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	06:09 20:06	18:18 (FO 01) 20:38	05:35 20:52	05:55 20:36	06:28 19:52	07:02 18:58	18:19 (FO 01) 17:08	07:37 16:37	07:16 16:41
29	07:28 17:17	06:58 19:31	06:08 18:31	06:07 20:07	18:17 (FO 01) 20:39	05:34 20:52	05:56 20:35	06:29 19:51	07:03 18:56	18:27 (FO 01) 18:29 (FO 01)	07:38 17:07	07:17 16:42
30	07:27 17:18	06:57 19:32	06:06 18:32	06:06 20:08	18:16 (FO 01) 20:40	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	18:24 (FO 01) 18:30 (FO 01)	07:39 17:05	07:19 16:36
31	07:26 17:19	06:55 19:33	06:05 18:33	06:05 20:09	18:15 (FO 01) 20:41	05:32 20:53	05:58 20:33	06:31 19:47	07:05 18:54	18:21 (FO 01) 18:31 (FO 01)	07:40 17:04	07:20 16:43
Potential sun hours	292	294	369	469	401	305	454	459	465	432	376	760
Total, worst case									18			281

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

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

Calculation: Shadow Shadow receptor: BP - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (182)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December				
1	07:41	07:25	06:47	06:53	18:04 (FO 01)	06:04	05:33	05:33	05:59	06:32	07:05	17:50 (FO 01)	06:43	07:20		
	16:44	17:21	17:57	19:34	35	18:39 (FO 01)	20:09	20:41	20:52	20:32	19:46	18:52	33	18:23 (FO 01)	17:03	16:36
2	07:41	07:24	06:45	06:51	18:05 (FO 01)	06:03	05:33	05:34	06:00	06:34	07:06	17:51 (FO 01)	06:44	07:21		
	16:45	17:22	17:59	19:36	32	18:37 (FO 01)	20:10	20:42	20:52	20:30	19:44	18:50	30	18:21 (FO 01)	17:01	16:36
3	07:41	07:23	06:44	06:50	18:08 (FO 01)	06:02	05:32	05:34	06:01	06:35	07:08	17:52 (FO 01)	06:45	07:22		
	16:46	17:23	18:00	19:37	27	18:35 (FO 01)	20:11	20:42	20:52	20:29	19:42	18:49	27	18:19 (FO 01)	17:00	16:35
4	07:41	07:22	06:42	06:48	18:09 (FO 01)	06:00	05:32	05:35	06:02	06:36	07:09	17:55 (FO 01)	06:46	07:23		
	16:47	17:25	18:01	19:38	24	18:33 (FO 01)	20:13	20:43	20:52	20:28	19:40	18:47	21	18:16 (FO 01)	16:59	16:35
5	07:41	07:21	06:40	06:46	18:12 (FO 01)	05:59	05:31	05:35	06:03	06:37	07:10	17:59 (FO 01)	06:48	07:24		
	16:48	17:26	18:02	19:39	17	18:29 (FO 01)	20:14	20:44	20:51	20:27	19:39	18:45	13	18:12 (FO 01)	16:57	16:35
6	07:41	07:20	06:39	06:44	18:16 (FO 01)	05:58	05:31	05:36	06:04	06:38	07:11	17:55 (FO 01)	06:49	07:25		
	16:49	17:27	18:04	19:40	8	18:24 (FO 01)	20:15	20:45	20:51	20:25	19:37	18:19 (FO 01)	18:43	16:56	16:35	
7	07:41	07:19	06:37	06:43	18:20 (FO 01)	05:56	05:31	05:37	06:05	06:39	07:12	17:54 (FO 01)	07:19	16:50	16:35	
	16:50	17:29	18:05	19:41	20:16	20:45	20:51	20:24	19:35	17	18:24 (FO 01)	18:42	16:50	16:34	16:34	
8	07:40	07:17	06:35	17:25 (FO 01)	06:41	05:55	05:30	05:37	06:06	06:40	07:13	18:04 (FO 01)	07:13	16:51	16:34	
	16:51	17:30	18:06	7	17:32 (FO 01)	19:43	20:17	20:46	20:51	20:23	19:33	23	18:27 (FO 01)	18:40	16:54	16:34
9	07:40	07:16	06:33	17:19 (FO 01)	06:39	05:54	05:30	05:38	06:07	06:41	07:14	18:01 (FO 01)	07:14	16:54	16:34	
	16:52	17:31	18:07	18	17:37 (FO 01)	19:44	20:18	20:47	20:50	20:21	19:32	27	18:28 (FO 01)	18:38	16:53	16:34
10	07:40	07:15	06:32	17:16 (FO 01)	06:37	05:53	05:30	05:39	06:08	06:42	07:15	17:59 (FO 01)	07:16	16:54	16:34	
	16:53	17:33	18:08	24	17:40 (FO 01)	19:45	20:19	20:47	20:50	20:20	19:30	31	18:30 (FO 01)	18:37	16:52	16:34
11	07:40	07:14	06:30	17:13 (FO 01)	06:36	05:51	05:30	05:40	06:10	06:43	07:17	17:57 (FO 01)	07:17	16:52	16:34	
	16:54	17:34	18:10	29	17:42 (FO 01)	19:46	20:20	20:48	20:49	20:19	19:28	34	18:31 (FO 01)	18:35	16:51	16:34
12	07:39	07:12	06:28	17:12 (FO 01)	06:34	05:50	05:30	05:40	06:11	06:44	07:18	17:55 (FO 01)	07:18	16:51	16:34	
	16:55	17:35	18:11	32	17:44 (FO 01)	19:47	20:21	20:48	20:49	20:17	19:26	37	18:32 (FO 01)	18:33	16:49	16:34
13	07:39	07:11	06:27	17:10 (FO 01)	06:32	05:49	05:29	05:41	06:12	06:45	07:19	17:54 (FO 01)	07:19	16:58	16:34	
	16:57	17:37	18:12	35	17:45 (FO 01)	19:48	20:23	20:49	20:48	20:16	19:25	39	18:33 (FO 01)	18:31	16:48	16:35
14	07:39	07:10	06:25	17:08 (FO 01)	06:31	05:48	05:29	05:42	06:13	06:47	07:20	17:53 (FO 01)	07:20	16:59	16:35	
	16:58	17:38	18:13	38	17:46 (FO 01)	19:49	20:24	20:49	20:48	20:14	19:23	41	18:34 (FO 01)	18:30	16:47	16:35
15	07:38	07:08	06:23	17:06 (FO 01)	06:29	05:47	05:29	05:43	06:14	06:48	07:22	17:52 (FO 01)	07:22	16:50	16:35	
	16:59	17:39	18:14	40	17:46 (FO 01)	19:51	20:25	20:50	20:47	20:13	19:21	42	18:34 (FO 01)	18:28	16:46	16:35
16	07:38	07:07	06:21	17:06 (FO 01)	06:27	05:46	05:29	05:44	06:15	06:49	07:23	17:51 (FO 01)	07:23	16:50	16:35	
	17:00	17:41	18:16	41	17:47 (FO 01)	19:52	20:26	20:50	20:46	20:11	19:19	43	18:34 (FO 01)	18:27	16:46	16:35
17	07:37	07:05	06:20	17:05 (FO 01)	06:26	05:45	05:29	05:44	06:16	06:50	07:24	17:50 (FO 01)	07:24	16:50	16:35	
	17:01	17:42	18:17	43	17:48 (FO 01)	19:53	20:27	20:51	20:46	20:10	19:17	44	18:34 (FO 01)	18:25	16:45	16:35
18	07:37	07:04	06:18	17:04 (FO 01)	06:24	05:44	05:29	05:45	06:17	06:51	07:25	17:49 (FO 01)	07:25	16:49	16:35	
	17:03	17:43	18:18	44	17:48 (FO 01)	19:54	20:28	20:51	20:45	20:08	19:16	45	18:34 (FO 01)	18:23	16:44	16:36
19	07:36	07:02	06:16	17:03 (FO 01)	06:23	05:43	05:29	05:46	06:18	06:52	07:26	17:48 (FO 01)	07:26	16:50	16:36	
	17:04	17:45	18:19	45	17:48 (FO 01)	19:55	20:29	20:51	20:44	20:07	19:14	46	18:34 (FO 01)	18:22	16:43	16:36
20	07:36	07:01	06:14	17:02 (FO 01)	06:21	05:42	05:30	05:47	06:19	06:53	07:28	17:48 (FO 01)	07:28	16:50	16:36	
	17:05	17:46	18:20	45	17:47 (FO 01)	19:56	20:30	20:51	20:43	20:05	19:12	45	18:33 (FO 01)	18:20	16:42	16:37
21	07:35	06:59	06:13	17:02 (FO 01)	06:19	05:41	05:30	05:48	06:20	06:54	07:29	17:47 (FO 01)	07:29	16:50	16:37	
	17:06	17:47	18:22	46	17:48 (FO 01)	19:58	20:31	20:52	20:43	20:04	19:10	46	18:33 (FO 01)	18:19	16:41	16:37
22	07:34	06:58	06:11	17:02 (FO 01)	06:18	05:40	05:30	05:49	06:22	06:55	07:30	17:47 (FO 01)	07:30	16:50	16:37	
	17:08	17:48	18:23	46	17:48 (FO 01)	19:59	20:32	20:52	20:42	20:02	19:08	45	18:32 (FO 01)	18:17	16:41	16:37
23	07:33	06:56	06:09	17:01 (FO 01)	06:16	05:39	05:30	05:50	06:23	06:56	07:31	17:46 (FO 01)	07:31	16:50	16:37	
	17:09	17:50	18:24	46	17:47 (FO 01)	20:00	20:33	20:52	20:41	20:01	19:07	46	18:32 (FO 01)	18:15	16:40	16:38
24	07:33	06:55	06:07	17:01 (FO 01)	06:15	05:39	05:30	05:51	06:24	06:58	07:32	17:46 (FO 01)	07:32	16:50	16:38	
	17:10	17:51	18:25	45	17:46 (FO 01)	20:01	20:34	20:52	20:40	19:59	19:05	45	18:31 (FO 01)	18:14	16:39	16:39
25	07:32	06:53	06:05	17:01 (FO 01)	06:13	05:38	05:31	05:52	06:25	06:59	07:34	17:46 (FO 01)	07:34	16:50	16:39	
	17:11	17:52	18:26	45	17:46 (FO 01)	20:02	20:35	20:52	20:39	19:57	19:03	44	18:30 (FO 01)	17:12	16:39	16:39
26	07:31	06:52	06:04	17:01 (FO 01)	06:12	05:37	05:31	05:53	06:26	07:00	07:35	17:47 (FO 01)	07:35	16:50	16:39	
	17:13	17:54	18:27	45	17:46 (FO 01)	20:03	20:36	20:52	20:38	19:56	19:01	43	18:30 (FO 01)	17:11	16:38	16:40
27	07:30	06:50	06:02	17:01 (FO 01)	06:10	05:36	05:31	05:54	06:27	07:01	07:36	17:47 (FO 01)	07:36	16:50	16:39	
	17:14	17:55	18:29	44	17:45 (FO 01)	20:05	20:37	20:52	20:37	19:54	18:59	42	18:29 (FO 01)	17:10	16:38	16:40
28	07:29	06:48	06:00	17:02 (FO 01)	06:09	05:36	05:32	05:55	06:28	07:02	07:37	17:47 (FO 01)	07:37	16:50	16:40	
	17:15	17:56	18:30	42	17:44 (FO 01)	20:06	20:38	20:52	20:36	19:52	18:58	41	18:28 (FO 01)	17:08	16:37	16:41
29	07:28		06:58	18:02 (FO 01)	06:07	05:35	05:32	05:56	06:29	07:03	07:38	17:48 (FO 01)	07:39	16:50	16:40	
	17:17		19:31	40	18:42 (FO 01)	20:07	20:38	20:52	20:35	19:51	18:56	39	18:27 (FO 01)	17:07	16:37	16:42
30	07:27		06:57	18:03 (FO 01)	06:06	05:34	05:33	05:57	06:30	07:04	07:39	17:49 (FO 01)	07:40	16:50	16:40	
	17:18		19:32	39	18:42 (FO 01)	20:08	20:39	20:52	20:34	19:49	18:54	36	18:25 (FO 01)	17:05	16:36	16:43
31	07:26		06:55	18:04 (FO 01)		05:34		05:58	06:31		07:40	17:49 (FO 01)	07:40	16:50	16:43	
	17:19		19:33	37	18:41 (FO 01)		20:40	20:53	20:33	19:47		17:04		16:43	16:43	
Potential sun hours	292	294	369	401	454	459	465	432	376	947	343	293	281			
Total, worst case			916	143							124					

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

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

Calculation: Shadow Shadow receptor: BQ - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (183)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December		
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	18:04 (FO 01) 18:40 (FO 01)	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	17:50 (FO 01) 18:23 (FO 01)	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	18:05 (FO 01) 18:38 (FO 01)	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:34 19:44	07:06 18:50	17:51 (FO 01) 18:21 (FO 01)	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	18:07 (FO 01) 18:37 (FO 01)	06:02 20:11	05:32 20:42	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	17:53 (FO 01) 18:18 (FO 01)	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	18:08 (FO 01) 18:34 (FO 01)	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	17:57 (FO 01) 18:16 (FO 01)	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	18:10 (FO 01) 18:31 (FO 01)	05:59 20:14	05:31 20:44	05:35 20:51	06:03 20:27	06:37 19:39	07:10 18:45	18:01 (FO 01) 18:11 (FO 01)	06:48 16:57	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	18:13 (FO 01) 18:27 (FO 01)	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:23 (FO 01)	18:10 (FO 01) 18:23 (FO 01)	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	18:27 (FO 01) 17:45 (FO 01)	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:26 (FO 01)	18:06 (FO 01) 18:26 (FO 01)	06:50 16:55	07:26 16:34
8	07:40 16:51	07:17 17:30	06:35 18:06	06:41 19:43	17:45 (FO 01) 17:12 (FO 01)	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:33	07:13 18:28 (FO 01)	18:03 (FO 01) 18:28 (FO 01)	06:51 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:33 18:07	06:39 19:44	17:21 (FO 01) 17:36 (FO 01)	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:21	06:41 19:32	07:14 18:30 (FO 01)	18:00 (FO 01) 18:30 (FO 01)	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	06:37 19:45	17:17 (FO 01) 17:39 (FO 01)	05:53 20:19	05:30 20:47	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:31 (FO 01)	17:58 (FO 01) 18:31 (FO 01)	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	17:14 (FO 01) 17:41 (FO 01)	05:51 20:20	05:30 20:48	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:32 (FO 01)	17:56 (FO 01) 18:32 (FO 01)	06:55 16:51	07:30 16:34
12	07:39 16:55	07:12 17:35	06:28 18:11	06:34 19:47	17:12 (FO 01) 17:44 (FO 01)	05:50 20:21	05:30 20:48	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:32 (FO 01)	17:55 (FO 01) 18:32 (FO 01)	06:57 16:49	07:31 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	17:10 (FO 01) 17:45 (FO 01)	05:49 20:23	05:29 20:49	05:41 20:48	06:12 20:16	06:45 19:25	07:19 18:34 (FO 01)	17:54 (FO 01) 18:34 (FO 01)	06:58 16:48	07:31 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:49	17:08 (FO 01) 17:45 (FO 01)	05:48 20:24	05:29 20:49	05:42 20:48	06:13 20:14	06:47 19:23	07:20 18:34 (FO 01)	17:53 (FO 01) 18:34 (FO 01)	06:59 16:47	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:14	06:29 19:51	17:07 (FO 01) 17:46 (FO 01)	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:34 (FO 01)	17:52 (FO 01) 18:34 (FO 01)	07:00 16:46	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	17:06 (FO 01) 17:47 (FO 01)	05:46 20:26	05:29 20:50	05:44 20:46	06:15 20:11	06:49 19:19	07:23 18:35 (FO 01)	17:51 (FO 01) 18:35 (FO 01)	07:02 16:46	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	17:05 (FO 01) 17:48 (FO 01)	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	07:24 18:35 (FO 01)	17:50 (FO 01) 18:35 (FO 01)	07:03 16:45	07:34 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	17:04 (FO 01) 17:48 (FO 01)	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:08	06:51 19:16	07:25 18:34 (FO 01)	17:49 (FO 01) 18:34 (FO 01)	07:04 16:44	07:35 16:36
19	07:36 17:04	07:02 17:45	06:16 18:19	06:23 19:55	17:03 (FO 01) 17:48 (FO 01)	05:43 20:29	05:29 20:51	05:46 20:44	06:18 20:07	06:52 19:14	07:26 18:34 (FO 01)	17:48 (FO 01) 18:34 (FO 01)	07:05 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:56	17:02 (FO 01) 17:48 (FO 01)	05:42 20:30	05:30 20:51	05:47 20:43	06:19 20:05	06:53 19:12	07:28 18:34 (FO 01)	17:48 (FO 01) 18:34 (FO 01)	07:07 16:42	07:36 16:37
21	07:35 17:06	06:59 17:47	06:13 18:22	06:19 19:58	17:02 (FO 01) 17:48 (FO 01)	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	07:29 18:33 (FO 01)	17:47 (FO 01) 18:33 (FO 01)	07:08 16:41	07:37 16:37
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	17:02 (FO 01) 17:48 (FO 01)	05:40 20:32	05:30 20:52	05:49 20:42	06:22 20:02	06:55 19:08	07:30 18:33 (FO 01)	17:47 (FO 01) 18:33 (FO 01)	07:09 16:41	07:37 16:38
23	07:33 17:09	06:56 17:50	06:09 18:24	06:16 20:00	17:01 (FO 01) 17:47 (FO 01)	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:07	07:31 18:32 (FO 01)	17:47 (FO 01) 18:32 (FO 01)	07:10 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	17:01 (FO 01) 17:47 (FO 01)	05:39 20:34	05:30 20:52	05:51 20:40	06:24 19:59	06:58 19:05	07:32 18:31 (FO 01)	17:46 (FO 01) 18:31 (FO 01)	07:12 16:39	07:38 16:39
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	17:01 (FO 01) 17:46 (FO 01)	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	07:33 18:30 (FO 01)	17:46 (FO 01) 18:30 (FO 01)	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:54	06:04 18:27	06:12 20:03	17:01 (FO 01) 17:46 (FO 01)	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	07:34 18:30 (FO 01)	17:47 (FO 01) 18:30 (FO 01)	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	17:01 (FO 01) 17:45 (FO 01)	05:36 20:37	05:31 20:52	05:54 20:37	06:27 19:54	07:01 18:59	07:35 18:29 (FO 01)	17:48 (FO 01) 18:29 (FO 01)	07:15 16:38	07:39 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	06:09 20:06	17:01 (FO 01) 17:44 (FO 01)	05:36 20:38	05:32 20:52	05:55 20:36	06:28 19:52	07:02 18:58	07:36 18:28 (FO 01)	17:48 (FO 01) 18:28 (FO 01)	07:16 16:37	07:40 16:41
29	07:28 17:17	06:58 19:31	06:08 18:31	06:07 20:07	18:02 (FO 01) 18:43 (FO 01)	05:35 20:38	05:32 20:52	05:56 20:35	06:29 19:51	07:03 18:56	07:37 18:26 (FO 01)	17:48 (FO 01) 18:26 (FO 01)	07:17 16:42	07:40 16:42
30	07:27 17:18	06:57 19:32	06:06 18:33	06:06 20:08	18:03 (FO 01) 18:43 (FO 01)	05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	07:38 18:25 (FO 01)	17:49 (FO 01) 18:25 (FO 01)	07:19 16:36	07:40 16:43
31	07:26 17:19	06:55 19:33	06:05 18:41	06:01 20:08	18:03 (FO 01) 18:41 (FO 01)	05:34 20:40	05:33 20:52	05:58 20:33	06:31 19:47	07:04 18:54	07:39 18:25 (FO 01)	17:49 (FO 01) 18:25 (FO 01)	07:20 16:43	07:40 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	967	343	293	281	
Total, worst case			906	160						117				

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

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

Calculation: Shadow Shadow receptor: BR - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (184)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December		
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	18:06 (FO 01) 18:44 (FO 01)	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	17:56 (FO 01) 18:23 (FO 01)	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	18:06 (FO 01) 18:42 (FO 01)	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:34 19:44	07:06 18:50	17:58 (FO 01) 18:20 (FO 01)	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	18:08 (FO 01) 18:41 (FO 01)	06:02 20:11	05:32 20:42	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	18:01 (FO 01) 18:16 (FO 01)	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	18:09 (FO 01) 18:39 (FO 01)	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	18:01 (FO 01) 18:16 (FO 01)	06:46 17:00	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	18:11 (FO 01) 18:37 (FO 01)	05:59 20:14	05:31 20:44	05:35 20:51	06:03 20:27	06:37 19:39	07:10 18:27 (FO 01)	18:13 (FO 01) 18:27 (FO 01)	06:47 17:01	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	18:13 (FO 01) 18:34 (FO 01)	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:30 (FO 01)	18:09 (FO 01) 18:30 (FO 01)	06:49 17:01	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	18:16 (FO 01) 18:31 (FO 01)	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	18:06 (FO 01) 18:32 (FO 01)	06:50 16:55	07:26 16:34
8	07:40 16:51	07:17 17:30	06:35 18:06	06:41 19:43	18:17 (FO 01) 18:31 (FO 01)	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:33	07:13 18:40	18:04 (FO 01) 18:33 (FO 01)	06:51 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:33 18:07	06:39 19:44	18:18 (FO 01) 18:31 (FO 01)	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:21	06:41 19:32	07:14 18:33 (FO 01)	18:03 (FO 01) 18:34 (FO 01)	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	06:37 19:45	17:26 (FO 01) 17:36 (FO 01)	06:37 19:45	05:53 20:19	05:39 20:47	06:08 20:20	06:42 19:30	07:16 18:35 (FO 01)	18:00 (FO 01) 18:37 (FO 01)	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	17:21 (FO 01) 17:40 (FO 01)	06:36 19:46	05:51 20:20	05:30 20:48	06:10 20:19	06:43 19:28	07:17 18:36 (FO 01)	17:58 (FO 01) 18:36 (FO 01)	06:55 16:51	07:30 16:34
12	07:39 16:55	07:12 17:35	06:28 18:11	06:34 19:47	17:19 (FO 01) 17:43 (FO 01)	06:34 19:47	05:50 20:21	05:30 20:48	06:11 20:17	06:44 19:26	07:18 18:36 (FO 01)	17:57 (FO 01) 18:36 (FO 01)	06:57 16:49	07:30 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	17:16 (FO 01) 17:45 (FO 01)	06:32 19:48	05:49 20:23	05:29 20:49	05:41 20:16	06:12 19:25	07:19 18:38 (FO 01)	17:57 (FO 01) 18:38 (FO 01)	06:58 16:48	07:31 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:49	17:14 (FO 01) 17:46 (FO 01)	06:31 19:49	05:48 20:24	05:29 20:49	05:42 20:14	06:13 19:23	07:19 18:38 (FO 01)	17:55 (FO 01) 18:38 (FO 01)	06:59 16:47	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:14	06:29 19:51	17:12 (FO 01) 17:47 (FO 01)	06:29 19:51	05:47 20:25	05:29 20:50	05:43 20:13	06:14 19:21	07:22 18:38 (FO 01)	17:54 (FO 01) 18:38 (FO 01)	07:00 16:46	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	17:11 (FO 01) 17:49 (FO 01)	06:27 19:52	05:46 20:26	05:29 20:50	05:44 20:11	06:15 19:19	07:23 18:38 (FO 01)	17:54 (FO 01) 18:38 (FO 01)	07:02 16:46	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	17:10 (FO 01) 17:49 (FO 01)	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:10	06:16 19:17	07:24 18:38 (FO 01)	17:53 (FO 01) 18:38 (FO 01)	07:03 16:45	07:34 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	17:08 (FO 01) 17:50 (FO 01)	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:08	06:17 19:16	07:25 18:37 (FO 01)	17:52 (FO 01) 18:37 (FO 01)	07:04 16:44	07:35 16:36
19	07:36 17:04	07:02 17:45	06:16 18:19	06:23 19:55	17:07 (FO 01) 17:50 (FO 01)	06:23 19:55	05:43 20:29	05:29 20:51	05:46 20:07	06:18 19:14	07:26 18:37 (FO 01)	17:52 (FO 01) 18:37 (FO 01)	07:05 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:56	17:06 (FO 01) 17:50 (FO 01)	06:21 19:56	05:42 20:30	05:30 20:51	05:47 20:05	06:19 19:12	07:28 18:36 (FO 01)	17:51 (FO 01) 18:36 (FO 01)	07:07 16:42	07:36 16:37
21	07:35 17:06	06:59 17:47	06:13 18:22	06:19 19:58	17:06 (FO 01) 17:51 (FO 01)	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:04	06:20 19:10	07:29 18:36 (FO 01)	17:51 (FO 01) 18:36 (FO 01)	07:08 16:41	07:37 16:37
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	17:05 (FO 01) 17:50 (FO 01)	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:02	06:22 19:08	07:30 18:35 (FO 01)	17:50 (FO 01) 18:37 (FO 01)	07:09 16:41	07:37 16:37
23	07:33 17:09	06:56 17:50	06:09 18:24	06:16 20:00	17:05 (FO 01) 17:50 (FO 01)	06:16 20:00	05:39 20:33	05:30 20:52	06:23 20:01	06:56 19:07	07:31 18:34 (FO 01)	17:50 (FO 01) 18:35 (FO 01)	07:10 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	17:04 (FO 01) 17:50 (FO 01)	06:15 20:01	05:39 20:34	05:30 20:52	06:24 19:59	06:58 19:05	07:32 18:33 (FO 01)	17:50 (FO 01) 18:34 (FO 01)	07:12 16:39	07:38 16:39
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	17:04 (FO 01) 17:49 (FO 01)	06:13 20:02	05:38 20:35	05:31 20:52	06:25 19:57	06:59 19:03	07:33 18:32 (FO 01)	17:51 (FO 01) 18:32 (FO 01)	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:54	06:04 18:27	06:12 20:03	17:04 (FO 01) 17:49 (FO 01)	06:12 20:03	05:37 20:36	05:31 20:52	06:26 19:56	07:00 19:01	07:34 18:32 (FO 01)	17:52 (FO 01) 18:32 (FO 01)	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	17:04 (FO 01) 17:49 (FO 01)	06:10 20:05	05:36 20:37	05:31 20:52	06:27 19:54	07:01 18:59	07:35 18:31 (FO 01)	17:52 (FO 01) 18:31 (FO 01)	07:15 16:38	07:39 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	06:09 20:06	17:04 (FO 01) 17:48 (FO 01)	06:09 20:06	05:36 20:38	05:32 20:52	06:28 19:52	07:02 18:58	07:36 18:29 (FO 01)	17:53 (FO 01) 18:31 (FO 01)	07:16 16:37	07:40 16:41
29	07:28 17:17	06:47 17:57	06:00 18:31	06:08 20:07	17:04 (FO 01) 18:04 (FO 01)	06:08 20:07	05:35 20:38	05:32 20:52	06:29 19:51	07:03 18:56	07:37 18:27 (FO 01)	17:54 (FO 01) 18:32 (FO 01)	07:17 16:42	07:40 16:42
30	07:27 17:18	06:46 17:58	06:00 18:32	06:06 20:08	18:05 (FO 01) 18:46 (FO 01)	06:06 20:08	05:34 20:39	05:33 20:52	06:30 19:49	07:04 18:54	07:38 18:25 (FO 01)	17:55 (FO 01) 18:33 (FO 01)	07:19 16:36	07:40 16:43
31	07:26 17:19	06:45 17:59	06:00 18:33	06:05 20:09	18:05 (FO 01) 18:45 (FO 01)	06:05 20:09	05:34 20:40	05:33 20:53	06:31 19:47	07:05 18:55	07:39 18:26 (FO 01)	17:56 (FO 01) 18:34 (FO 01)	07:20 16:37	07:41 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	292	243	293	281	281
Total, worst case			839	199						982	64			

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

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

Calculation: Shadow Shadow receptor: BS - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (185)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December		
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	18:07 (FO 01) 20:09	06:04 20:41	05:33 20:52	05:33 20:32	05:59 19:46	06:32 19:46	07:05 18:52	18:02 (FO 01) 17:03	06:43 16:36	
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	18:08 (FO 01) 20:10	06:03 20:42	05:33 20:52	05:34 20:30	06:00 19:44	06:34 19:44	07:06 18:50	18:06 (FO 01) 18:17 (FO 01)	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	18:09 (FO 01) 20:11	06:02 20:42	05:32 20:52	05:34 20:29	06:01 19:42	06:35 19:42	07:08 18:49		06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	18:10 (FO 01) 20:13	06:00 20:43	05:32 20:52	05:35 20:28	06:02 19:40	06:36 19:40	15 18:15 (FO 01) 18:30 (FO 01)	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	18:11 (FO 01) 20:14	05:59 20:44	05:31 20:51	05:35 20:27	06:03 19:39	06:37 19:39	22 18:11 (FO 01) 18:33 (FO 01)	07:10 18:45	06:48 16:57	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	18:12 (FO 01) 20:15	05:58 20:45	05:31 20:51	05:36 20:25	06:04 19:37	06:38 19:37	27 18:08 (FO 01) 18:35 (FO 01)	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	18:15 (FO 01) 20:16	05:56 20:45	05:31 20:51	05:37 20:24	06:05 19:35	06:39 19:35	30 18:06 (FO 01) 18:36 (FO 01)	07:12 18:42	06:50 16:55	07:26 16:34
8	07:40 16:51	07:17 17:30	06:35 18:06	06:41 19:43	18:18 (FO 01) 20:17	05:55 20:46	05:30 20:51	05:37 20:23	06:06 19:33	06:40 19:33	33 18:04 (FO 01) 18:37 (FO 01)	07:13 18:40	06:51 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:36 18:07	06:39 19:44	18:33 (FO 01) 20:18	05:54 20:47	05:30 20:50	05:38 20:21	06:07 19:32	06:41 19:32	36 18:02 (FO 01) 18:38 (FO 01)	07:14 18:38	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	06:37 19:45	18:48 (FO 01) 20:19	05:53 20:47	05:30 20:50	05:39 20:20	06:08 19:30	06:42 19:30	37 18:01 (FO 01) 18:38 (FO 01)	07:16 18:37	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	17:31 (FO 01) 17:35 (FO 01)	05:51 19:46	05:30 20:48	05:40 20:49	06:10 19:28	06:43 19:28	39 18:00 (FO 01) 18:39 (FO 01)	07:17 18:35	06:55 16:51	07:30 16:34
12	07:39 16:55	07:12 17:35	06:28 18:11	06:34 19:47	17:25 (FO 01) 17:42 (FO 01)	05:50 19:47	05:30 20:48	05:40 20:49	06:11 19:26	06:44 19:26	41 17:58 (FO 01) 18:39 (FO 01)	07:18 18:33	06:57 16:49	07:30 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	17:21 (FO 01) 17:45 (FO 01)	05:49 19:48	05:29 20:49	05:41 20:48	06:12 19:25	06:45 19:25	42 17:58 (FO 01) 18:40 (FO 01)	07:19 18:31	06:58 16:48	07:31 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:49	17:18 (FO 01) 17:46 (FO 01)	05:48 19:49	05:29 20:49	05:42 20:48	06:13 19:23	06:47 19:23	44 17:57 (FO 01) 18:41 (FO 01)	07:20 18:30	06:59 16:47	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:14	06:29 19:51	17:16 (FO 01) 17:48 (FO 01)	05:49 19:51	05:29 20:50	05:43 20:47	06:14 19:21	06:48 19:21	44 17:56 (FO 01) 18:40 (FO 01)	07:22 18:28	07:00 16:46	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	17:15 (FO 01) 17:50 (FO 01)	05:46 19:52	05:29 20:50	05:44 20:46	06:15 20:11	06:49 19:19	44 17:56 (FO 01) 18:40 (FO 01)	07:23 18:27	07:02 16:46	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	17:13 (FO 01) 17:50 (FO 01)	05:45 19:53	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	45 17:55 (FO 01) 18:40 (FO 01)	07:24 18:25	07:03 16:45	07:34 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	17:12 (FO 01) 17:51 (FO 01)	05:44 19:54	05:29 20:51	05:45 20:45	06:17 20:08	06:51 19:16	46 17:54 (FO 01) 18:40 (FO 01)	07:25 18:23	07:04 16:44	07:35 16:36
19	07:36 17:04	07:02 17:45	06:16 18:19	06:23 19:55	17:10 (FO 01) 17:51 (FO 01)	05:43 19:55	05:29 20:51	05:46 20:44	06:18 20:07	06:52 19:14	46 17:54 (FO 01) 18:40 (FO 01)	07:26 18:22	07:05 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:56	17:09 (FO 01) 17:51 (FO 01)	05:42 19:56	05:30 20:51	05:47 20:43	06:19 20:05	06:53 19:12	44 17:54 (FO 01) 18:38 (FO 01)	07:28 18:20	07:07 16:42	07:36 16:37
21	07:35 17:06	06:59 17:47	06:13 18:22	06:19 19:58	17:09 (FO 01) 17:52 (FO 01)	05:41 19:58	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	45 17:53 (FO 01) 18:38 (FO 01)	07:29 18:19	07:08 16:41	07:37 16:37
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	17:08 (FO 01) 17:52 (FO 01)	05:40 19:59	05:30 20:52	05:49 20:42	06:22 20:02	06:55 19:08	45 17:53 (FO 01) 18:37 (FO 01)	07:30 18:17	07:09 16:41	07:37 16:37
23	07:33 17:09	06:56 17:50	06:09 18:24	06:16 20:00	17:07 (FO 01) 17:52 (FO 01)	05:39 19:59	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:07	44 17:53 (FO 01) 18:36 (FO 01)	07:31 18:15	07:10 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	17:07 (FO 01) 17:52 (FO 01)	05:39 19:59	05:30 20:52	05:51 20:40	06:24 19:59	06:58 19:05	43 17:54 (FO 01) 18:35 (FO 01)	07:32 18:14	07:12 16:39	07:38 16:39
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	17:06 (FO 01) 17:51 (FO 01)	05:38 19:59	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	41 17:54 (FO 01) 18:34 (FO 01)	07:33 17:12	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:54	06:04 18:27	06:12 20:03	17:07 (FO 01) 17:52 (FO 01)	05:37 19:59	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	40 17:55 (FO 01) 18:33 (FO 01)	07:35 17:11	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	17:06 (FO 01) 17:51 (FO 01)	05:36 19:59	05:31 20:52	05:54 20:37	06:27 19:54	07:01 18:59	38 17:56 (FO 01) 18:32 (FO 01)	07:36 17:10	07:15 16:38	07:39 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	06:09 20:06	17:06 (FO 01) 17:50 (FO 01)	05:36 19:59	05:32 20:52	05:55 20:36	06:28 19:52	07:02 18:58	33 17:57 (FO 01) 18:30 (FO 01)	07:37 17:08	07:16 16:37	07:40 16:41
29	07:28 17:17		06:58 18:31	06:07 20:07	18:06 (FO 01) 18:49 (FO 01)	05:35 19:59	05:32 20:52	05:56 20:35	06:29 19:51	07:03 18:56	30 17:58 (FO 01) 18:28 (FO 01)	07:39 17:07	07:17 16:42	07:40 16:42
30	07:27 17:18		06:57 18:32	06:06 20:08	18:07 (FO 01) 18:49 (FO 01)	05:34 19:59	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	25 18:00 (FO 01) 18:25 (FO 01)	07:40 17:05	07:19 16:36	07:40 16:43
31	07:26 17:19		06:55 19:33	06:05 20:09	18:07 (FO 01) 18:48 (FO 01)	05:34 19:59	05:34 20:52	05:58 20:33	06:31 19:47		06:41 17:04		07:40 16:43	
Potential sun hours	292	294	369	401	454	459	465	432	376	1009	343	293	281	
Total, worst case			781	240							31			

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

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

Calculation: Shadow Shadow receptor: BT - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (186)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December				
1	07:41	07:25	06:47	06:53	18:07 (FO 01)	06:04	05:33	05:33	05:59	06:32	07:05	17:48 (FO 01)	06:43	07:20		
	16:44	17:21	17:57	19:34	28	18:35 (FO 01)	20:09	20:41	20:52	20:32	19:46	18:52	36	18:24 (FO 01)	17:03	16:36
2	07:41	07:24	06:45	06:51	18:09 (FO 01)	06:03	05:33	05:34	06:00	06:34	07:06	17:49 (FO 01)	06:44	07:21		
	16:45	17:22	17:59	19:36	23	18:32 (FO 01)	20:10	20:42	20:52	20:30	19:44	18:50	33	18:22 (FO 01)	17:01	16:36
3	07:41	07:23	06:44	06:50	18:13 (FO 01)	06:02	05:32	05:34	06:01	06:35	07:08	17:50 (FO 01)	06:45	07:22		
	16:46	17:23	18:00	19:37	17	18:30 (FO 01)	20:11	20:42	20:52	20:29	19:42	18:49	30	18:20 (FO 01)	17:00	16:35
4	07:41	07:22	06:42	06:48	18:17 (FO 01)	06:00	05:32	05:35	06:02	06:36	07:09	17:52 (FO 01)	06:46	07:23		
	16:47	17:25	18:01	19:38	7	18:24 (FO 01)	20:13	20:43	20:52	20:28	19:40	18:47	27	18:19 (FO 01)	16:59	16:35
5	07:41	07:21	06:40	06:46	05:59	05:31	05:35	06:03	06:37	07:10	17:54 (FO 01)	06:48	07:24			
	16:48	17:26	18:02	19:39	20:14	20:44	20:51	20:27	19:39	18:45	22	18:16 (FO 01)	16:57	16:35		
6	07:41	07:20	06:39	06:44	05:58	05:31	05:36	06:04	06:38	07:11	17:57 (FO 01)	06:49	07:25			
	16:49	17:27	18:04	19:40	20:15	20:45	20:51	20:25	19:37	18:43	15	18:12 (FO 01)	16:56	16:35		
7	07:41	07:19	06:37	06:43	05:56	05:31	05:37	06:05	06:39	07:12	18:42	16:50	07:26			
	16:50	17:29	18:05	19:41	20:16	20:45	20:51	20:24	19:35	18:42	5	18:17 (FO 01)	16:55	16:34		
8	07:40	07:17	06:35	06:41	05:55	05:30	05:37	06:06	06:40	18:12 (FO 01)	07:13	16:54	07:27			
	16:51	17:30	18:06	19:43	20:17	20:46	20:51	20:23	19:33	18:40	16:54	16:34				
9	07:40	07:16	06:33	06:39	05:54	05:30	05:38	06:07	06:41	18:06 (FO 01)	07:14	16:53	07:28			
	16:52	17:31	18:07	19:44	20:18	20:47	20:50	20:21	19:32	18:22 (FO 01)	18:38	16:53	16:34			
10	07:40	07:15	06:32	06:37	05:53	05:30	05:39	06:08	06:42	18:03 (FO 01)	07:16	16:54	07:29			
	16:53	17:33	18:08	19:45	20:19	20:47	20:50	20:20	19:30	22	18:25 (FO 01)	18:37	16:52	16:34		
11	07:40	07:14	06:30	06:36	05:51	05:30	05:40	06:10	06:43	18:00 (FO 01)	07:17	16:55	07:30			
	16:54	17:34	18:10	19:46	20:20	20:48	20:49	20:19	19:28	27	18:27 (FO 01)	18:35	16:51	16:34		
12	07:39	07:12	06:28	06:34	05:50	05:30	05:40	06:11	06:44	17:58 (FO 01)	07:18	16:57	07:30			
	16:55	17:35	18:11	19:47	20:21	20:48	20:49	20:17	19:26	30	18:28 (FO 01)	18:33	16:49	16:34		
13	07:39	07:11	06:27	06:32	05:49	05:29	05:41	06:12	06:45	17:57 (FO 01)	07:19	16:58	07:31			
	16:57	17:37	18:12	19:48	20:23	20:49	20:48	20:16	19:25	33	18:30 (FO 01)	18:31	16:48	16:35		
14	07:39	07:10	06:25	06:31	05:48	05:29	05:42	06:13	06:47	17:55 (FO 01)	07:20	16:59	07:32			
	16:58	17:38	18:13	19:49	20:24	20:49	20:48	20:14	19:23	36	18:31 (FO 01)	18:30	16:47	16:35		
15	07:38	07:08	06:23	06:29	05:47	05:29	05:43	06:14	06:48	17:53 (FO 01)	07:22	16:50	07:33			
	16:59	17:39	18:14	19:51	20:25	20:50	20:47	20:13	19:21	38	18:31 (FO 01)	18:28	16:46	16:35		
16	07:38	07:07	06:21	06:27	05:46	05:29	05:44	06:15	06:49	17:52 (FO 01)	07:23	16:51	07:34			
	17:00	17:41	18:16	19:52	20:26	20:50	20:46	20:11	19:19	40	18:32 (FO 01)	18:27	16:46	16:35		
17	07:37	07:05	06:20	06:26	05:45	05:29	05:44	06:16	06:50	17:51 (FO 01)	07:24	16:52	07:34			
	17:01	17:42	18:17	19:53	20:27	20:51	20:46	20:10	19:17	41	18:32 (FO 01)	18:25	16:45	16:35		
18	07:37	07:04	06:18	06:24	05:44	05:29	05:45	06:17	06:51	17:50 (FO 01)	07:25	16:54	07:35			
	17:03	17:43	18:18	19:54	20:28	20:51	20:45	20:08	19:16	42	18:32 (FO 01)	18:23	16:44	16:36		
19	07:36	07:02	06:16	06:23	05:43	05:29	05:46	06:18	06:52	17:49 (FO 01)	07:26	16:55	07:36			
	17:04	17:45	18:19	19:55	20:29	20:51	20:44	20:07	19:14	43	18:32 (FO 01)	18:22	16:43	16:36		
20	07:36	07:01	06:14	06:21	05:42	05:30	05:47	06:19	06:53	17:48 (FO 01)	07:28	16:56	07:36			
	17:05	17:46	18:20	19:56	20:30	20:51	20:43	20:05	19:12	44	18:32 (FO 01)	18:20	16:42	16:37		
21	07:35	06:59	06:12	06:19	05:41	05:30	05:48	06:20	06:54	17:47 (FO 01)	07:29	16:57	07:37			
	17:06	17:47	18:22	19:58	20:31	20:52	20:43	20:04	19:10	45	18:32 (FO 01)	18:19	16:41	16:37		
22	07:34	06:58	06:11	06:18	05:40	05:30	05:49	06:22	06:55	17:47 (FO 01)	07:30	16:58	07:37			
	17:08	17:48	18:23	19:59	20:32	20:52	20:42	20:02	19:08	44	18:31 (FO 01)	18:17	16:41	16:37		
23	07:33	06:56	06:09	06:16	05:39	05:30	05:50	06:23	06:56	17:46 (FO 01)	07:31	16:59	07:38			
	17:09	17:50	18:24	20:00	20:33	20:52	20:41	20:01	19:07	45	18:31 (FO 01)	18:15	16:40	16:38		
24	07:33	06:55	06:07	06:15	05:39	05:30	05:51	06:24	06:58	17:46 (FO 01)	07:32	16:50	07:38			
	17:10	17:51	18:25	20:01	20:34	20:52	20:40	19:59	19:05	44	18:30 (FO 01)	18:14	16:39	16:39		
25	07:32	06:53	06:05	06:13	05:38	05:31	05:52	06:25	06:59	17:46 (FO 01)	07:33	16:51	07:39			
	17:11	17:52	18:26	20:02	20:35	20:52	20:39	19:57	19:03	44	18:30 (FO 01)	18:12	16:39	16:39		
26	07:31	06:52	06:04	06:12	05:37	05:31	05:53	06:26	07:00	17:47 (FO 01)	07:34	16:52	07:39			
	17:13	17:54	18:27	20:03	20:36	20:52	20:38	19:56	19:01	43	18:30 (FO 01)	17:11	16:38	16:40		
27	07:30	06:50	06:02	06:10	05:36	05:31	05:54	06:27	07:01	17:46 (FO 01)	07:35	16:53	07:39			
	17:14	17:55	18:29	20:05	20:37	20:52	20:37	19:54	18:59	43	18:29 (FO 01)	17:10	16:38	16:40		
28	07:29	06:48	06:00	06:09	05:36	05:32	05:55	06:28	07:02	17:47 (FO 01)	07:36	16:54	07:40			
	17:15	17:56	18:30	20:06	20:38	20:52	20:36	19:52	18:58	41	18:28 (FO 01)	17:08	16:37	16:41		
29	07:28		06:58	06:07	05:35	05:32	05:56	06:29	07:03	17:47 (FO 01)	07:39	16:55	07:40			
	17:17		19:31	20:07	20:38	20:52	20:35	19:51	18:56	40	18:27 (FO 01)	17:07	16:37	16:42		
30	07:27		06:57	06:06	05:34	05:33	05:57	06:30	07:04	17:47 (FO 01)	07:40	16:56	07:40			
	17:18		19:32	20:08	20:39	20:52	20:34	19:49	18:54	38	18:25 (FO 01)	17:05	16:36	16:43		
31	07:26		06:55	06:05	05:34		05:58	06:31			06:41		16:40	07:40		
	17:19		19:33	20:09	20:40		20:33	19:47			17:04		16:43	07:40		
Potential sun hours	292	294	369	401	454	459	465	432	376	844	343	293	281			
Total, worst case			925	75						163						

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

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

SHADOW - Calendar

Calculation: Shadow Shadow receptor: BU - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (187)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December					
1	07:41	07:25	06:47	06:53	18:09 (FO 01)	06:04	05:33	05:33	05:59	06:32	07:05	17:47 (FO 01)	06:43	07:20			
	16:44	17:21	17:57	19:34	23	18:32 (FO 01)	20:09	20:41	20:52	20:32	19:46	18:52	37	18:24 (FO 01)	17:03	16:36	
2	07:41	07:24	06:45	06:51	18:12 (FO 01)	06:03	05:33	05:34	06:00	06:34	07:06	17:48 (FO 01)	06:44	07:21			
	16:45	17:22	17:59	19:36	17	18:29 (FO 01)	20:10	20:42	20:52	20:30	19:44	18:50	35	18:23 (FO 01)	17:01	16:36	
3	07:41	07:23	06:44	06:50	18:17 (FO 01)	06:02	05:32	05:34	06:01	06:35	07:08	17:49 (FO 01)	06:45	07:22			
	16:46	17:23	18:00	19:37	7	18:24 (FO 01)	20:11	20:42	20:52	20:29	19:42	18:49	32	18:21 (FO 01)	17:00	16:35	
4	07:41	07:22	06:42	06:48		06:00	05:32	05:35	06:02	06:36	07:09	17:51 (FO 01)	06:46	07:23			
	16:47	17:25	18:01	19:38		20:13	20:43	20:52	20:28	19:40	18:47	29	18:20 (FO 01)	16:59	16:35		
5	07:41	07:21	06:40	06:46		05:59	05:31	05:35	06:03	06:37	07:10	17:52 (FO 01)	06:48	07:24			
	16:48	17:26	18:02	19:39		20:14	20:44	20:51	20:27	19:39	18:45	25	18:17 (FO 01)	16:57	16:35		
6	07:41	07:20	06:39	06:44		05:58	05:31	05:36	06:04	06:38	07:11	17:54 (FO 01)	06:49	07:25			
	16:49	17:27	18:04	19:40		20:15	20:45	20:51	20:25	19:37	18:43	20	18:14 (FO 01)	16:56	16:35		
7	07:41	07:19	06:37	06:43		05:56	05:31	05:37	06:05	06:39	07:12	17:58 (FO 01)	06:50	07:26			
	16:50	17:29	18:05	17:36 (FO 01)	17	17:46 (FO 01)	19:41	20:16	20:45	20:51	20:24	19:35	18:42	11	18:09 (FO 01)	16:55	16:34
8	07:40	07:17	06:35	06:41		05:55	05:30	05:37	06:06	06:40	07:13	18:09 (FO 01)	06:51	07:27			
	16:51	17:30	18:06	17:39 (FO 01)	22	17:43 (FO 01)	19:43	20:17	20:46	20:51	20:23	19:33	18:40		16:54	16:34	
9	07:40	07:16	06:33	06:39		05:54	05:30	05:38	06:07	06:41	07:14	18:11 (FO 01)	06:53	07:28			
	16:52	17:31	18:07	17:41 (FO 01)	27	17:41 (FO 01)	19:44	20:18	20:47	20:50	20:21	19:32	6	18:17 (FO 01)	16:53	16:34	
10	07:40	07:15	06:32	06:37		05:53	05:30	05:39	06:08	06:42	07:16	18:05 (FO 01)	06:54	07:29			
	16:53	17:33	18:08	17:42 (FO 01)	30	17:42 (FO 01)	19:45	20:19	20:47	20:50	20:20	19:30	17	18:22 (FO 01)	16:52	16:34	
11	07:40	07:14	06:30	06:36		05:51	05:30	05:40	06:10	06:43	07:17	18:02 (FO 01)	06:55	07:30			
	16:54	17:34	18:10	17:43 (FO 01)	33	17:43 (FO 01)	19:46	20:20	20:48	20:49	20:19	19:28	22	18:24 (FO 01)	16:51	16:34	
12	07:39	07:12	06:28	06:34		05:50	05:30	05:40	06:11	06:44	07:18	18:24 (FO 01)	06:57	07:30			
	16:55	17:35	18:11	17:45 (FO 01)	36	17:45 (FO 01)	19:47	20:21	20:48	20:49	20:17	19:26	27	18:26 (FO 01)	16:49	16:34	
13	07:39	07:11	06:27	06:32		05:49	05:29	05:41	06:12	06:45	07:19	17:58 (FO 01)	06:58	07:31			
	16:57	17:37	18:12	17:46 (FO 01)	39	17:46 (FO 01)	19:48	20:22	20:49	20:48	20:16	19:25	30	18:28 (FO 01)	16:48	16:35	
14	07:39	07:10	06:25	06:31		05:48	05:29	05:42	06:13	06:47	07:20	17:56 (FO 01)	06:59	07:32			
	16:58	17:38	18:13	17:46 (FO 01)	40	17:46 (FO 01)	19:49	20:24	20:49	20:48	20:14	19:23	33	18:29 (FO 01)	16:47	16:35	
15	07:38	07:08	06:23	06:29		05:47	05:29	05:43	06:14	06:48	07:22	17:54 (FO 01)	07:00	07:33			
	16:59	17:39	18:14	17:46 (FO 01)	41	17:46 (FO 01)	19:51	20:25	20:50	20:47	20:13	19:21	36	18:30 (FO 01)	16:46	16:35	
16	07:38	07:07	06:21	06:27		05:46	05:29	05:44	06:15	06:49	07:23	17:53 (FO 01)	07:02	07:34			
	17:00	17:41	18:16	17:47 (FO 01)	42	17:47 (FO 01)	19:52	20:26	20:50	20:46	20:11	19:19	38	18:31 (FO 01)	16:46	16:35	
17	07:37	07:05	06:20	06:26		05:45	05:29	05:44	06:16	06:50	07:24	17:52 (FO 01)	07:03	07:34			
	17:01	17:42	18:17	17:47 (FO 01)	43	17:47 (FO 01)	19:53	20:27	20:51	20:46	20:10	19:17	39	18:31 (FO 01)	16:45	16:35	
18	07:37	07:04	06:18	06:24		05:44	05:29	05:45	06:17	06:51	07:25	17:50 (FO 01)	07:04	07:35			
	17:03	17:43	18:18	17:47 (FO 01)	44	17:47 (FO 01)	19:54	20:28	20:51	20:45	20:08	19:16	41	18:31 (FO 01)	16:44	16:36	
19	07:36	07:02	06:16	06:23		05:43	05:29	05:46	06:18	06:52	07:26	17:49 (FO 01)	07:05	07:36			
	17:04	17:45	18:19	17:46 (FO 01)	44	17:46 (FO 01)	19:55	20:29	20:51	20:44	20:07	19:14	42	18:31 (FO 01)	16:43	16:36	
20	07:36	07:01	06:14	06:21		05:42	05:30	05:47	06:19	06:53	07:28	17:48 (FO 01)	07:07	07:36			
	17:05	17:46	18:20	17:46 (FO 01)	44	17:46 (FO 01)	19:56	20:30	20:51	20:43	20:05	19:12	43	18:31 (FO 01)	16:42	16:37	
21	07:35	06:59	06:12	06:19		05:41	05:30	05:48	06:20	06:54	07:29	17:48 (FO 01)	07:08	07:37			
	17:06	17:47	18:22	17:46 (FO 01)	44	17:46 (FO 01)	19:58	20:31	20:52	20:43	20:04	19:10	43	18:31 (FO 01)	16:41	16:37	
22	07:34	06:58	06:11	06:18		05:40	05:30	05:49	06:22	06:55	07:30	17:47 (FO 01)	07:09	07:37			
	17:08	17:48	18:23	17:46 (FO 01)	44	17:46 (FO 01)	19:59	20:32	20:52	20:42	20:02	19:08	44	18:31 (FO 01)	16:41	16:37	
23	07:33	06:56	06:09	06:16		05:39	05:30	05:50	06:23	06:56	07:31	17:46 (FO 01)	07:10	07:38			
	17:09	17:50	18:24	17:45 (FO 01)	43	17:45 (FO 01)	20:00	20:33	20:52	20:41	20:01	19:07	44	18:30 (FO 01)	16:40	16:38	
24	07:33	06:55	06:07	06:15		05:39	05:30	05:51	06:24	06:58	07:32	17:46 (FO 01)	07:12	07:38			
	17:10	17:51	18:25	17:44 (FO 01)	42	17:44 (FO 01)	20:01	20:34	20:52	20:40	20:00	19:05	44	18:30 (FO 01)	16:39	16:38	
25	07:32	06:53	06:05	06:13		05:38	05:31	05:52	06:25	06:59	07:34	17:45 (FO 01)	07:13	07:39			
	17:11	17:52	18:26	17:43 (FO 01)	41	17:43 (FO 01)	20:02	20:35	20:52	20:39	20:03	19:03	44	18:29 (FO 01)	16:39	16:39	
26	07:31	06:52	06:04	06:12		05:37	05:31	05:53	06:26	07:00	07:36	17:46 (FO 01)	07:14	07:39			
	17:13	17:54	18:27	17:43 (FO 01)	40	17:43 (FO 01)	20:03	20:36	20:52	20:38	20:01	19:01	44	18:30 (FO 01)	16:38	16:40	
27	07:30	06:50	06:02	06:10		05:36	05:31	05:54	06:27	07:01	07:37	17:46 (FO 01)	07:15	07:39			
	17:14	17:55	18:29	17:41 (FO 01)	38	17:41 (FO 01)	20:05	20:37	20:52	20:37	19:54	18:59	43	18:29 (FO 01)	16:38	16:40	
28	07:29	06:48	06:00	06:09		05:36	05:32	05:55	06:28	07:02	07:38	17:46 (FO 01)	07:16	07:40			
	17:15	17:56	18:30	17:40 (FO 01)	36	17:40 (FO 01)	20:06	20:38	20:52	20:36	19:52	18:58	42	18:28 (FO 01)	16:37	16:41	
29	07:28		06:58	06:07		05:35	05:32	05:56	06:29	07:03	07:39	17:46 (FO 01)	07:17	07:40			
	17:17		19:31	18:38 (FO 01)	33	18:38 (FO 01)	20:07	20:38	20:52	20:35	19:51	18:56	41	18:27 (FO 01)	16:37	16:42	
30	07:27		06:57	06:06		05:34	05:33	05:57	06:30	07:04	07:40	17:47 (FO 01)	07:19	07:40			
	17:18		19:32	18:37 (FO 01)	31	18:37 (FO 01)	20:08	20:39	20:52	20:34	19:49	18:54	38	18:25 (FO 01)	16:36	16:43	
31	07:26		06:55	06:05		05:34		05:58	06:31			06:41		07:40			
	17:19		19:33	18:35 (FO 01)	27	18:35 (FO 01)		20:40	20:33	19:47		17:04		16:43			
Potential sun hours	292	294	369	401	47	454	459	465	432	376	801	343	189	293	281		
Total, worst case			921														

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

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

Calculation: Shadow Shadow receptor: BV - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (188)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	18:09 (FO 01) 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	17:43 (FO 01) 18:23 (FO 01)	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	18:13 (FO 01) 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:34 19:44	07:06 18:50	17:43 (FO 01) 18:21 (FO 01)	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:11	05:32 20:42	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	17:44 (FO 01) 18:20 (FO 01)	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	17:46 (FO 01) 18:19 (FO 01)	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44	05:35 20:51	06:03 20:27	06:37 19:39	07:10 18:45	17:47 (FO 01) 18:17 (FO 01)	06:48 16:57	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:43	17:48 (FO 01) 18:15 (FO 01)	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	17:50 (FO 01) 18:12 (FO 01)	06:50 16:55	07:26 16:34
8	07:40 16:51	07:17 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:33	07:13 18:40	17:53 (FO 01) 18:08 (FO 01)	06:51 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:33 18:07	06:39 19:44	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:21	06:41 19:32	07:14 18:38	18:07 (FO 01)	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:15 (FO 01)	18:01 (FO 01)	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	05:51 20:20	05:30 20:48	05:40 20:49	06:10 20:19	06:43 19:28	8 18:15 (FO 01)	18:01 (FO 01)	06:55 16:51	07:30 16:34
12	07:39 16:55	07:12 17:35	06:28 18:11	06:34 19:47	05:50 20:21	05:30 20:48	05:40 20:49	06:11 20:17	06:44 19:26	18 18:19 (FO 01)	17:58 (FO 01)	06:57 16:49	07:31 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	05:49 20:22	05:29 20:49	05:41 20:48	06:12 20:16	06:45 19:25	24 18:22 (FO 01)	17:56 (FO 01)	06:58 16:48	07:31 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:49	05:48 20:23	05:29 20:49	05:42 20:48	06:13 20:14	06:47 19:23	28 18:24 (FO 01)	17:54 (FO 01)	06:59 16:47	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:14	06:29 19:51	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	31 18:25 (FO 01)	17:52 (FO 01)	07:00 16:46	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50	05:44 20:46	06:15 20:11	06:49 19:19	34 18:26 (FO 01)	17:51 (FO 01)	07:02 16:46	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	36 18:27 (FO 01)	17:49 (FO 01)	07:03 16:45	07:34 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:08	06:51 19:16	39 18:28 (FO 01)	17:48 (FO 01)	07:04 16:44	07:35 16:36
19	07:36 17:04	07:02 17:45	06:16 18:19	06:23 19:55	05:43 20:29	05:29 20:51	05:46 20:44	06:18 20:07	06:52 19:14	40 18:28 (FO 01)	17:47 (FO 01)	07:05 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:56	05:42 20:30	05:30 20:51	05:47 20:43	06:19 20:05	06:53 19:12	41 18:28 (FO 01)	17:46 (FO 01)	07:07 16:42	07:36 16:37
21	07:35 17:06	06:59 17:47	06:13 18:22	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	42 18:28 (FO 01)	17:45 (FO 01)	07:08 16:41	07:37 16:37
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:22 20:02	06:55 19:08	43 18:28 (FO 01)	17:44 (FO 01)	07:09 16:41	07:37 16:37
23	07:33 17:09	06:56 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:07	44 18:28 (FO 01)	17:43 (FO 01)	07:10 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	05:39 20:34	05:30 20:52	05:51 20:40	06:24 19:59	06:58 19:05	45 18:28 (FO 01)	17:43 (FO 01)	07:12 16:39	07:38 16:39
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	45 18:27 (FO 01)	17:42 (FO 01)	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:54	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	44 18:27 (FO 01)	17:43 (FO 01)	07:14 16:38	07:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:52	05:54 20:37	06:27 19:54	07:01 18:59	44 18:27 (FO 01)	17:43 (FO 01)	07:15 16:38	07:39 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:52	05:55 20:36	06:28 19:52	07:02 18:58	44 18:26 (FO 01)	17:42 (FO 01)	07:16 16:37	07:40 16:41
29	07:28 17:17	06:48 18:31	06:00 18:35	06:07 20:07	05:35 20:38	05:32 20:52	05:56 20:35	06:29 19:51	07:03 18:56	43 18:25 (FO 01)	17:42 (FO 01)	07:17 16:37	07:40 16:42
30	07:27 17:18	06:47 18:32	06:00 18:40	06:06 20:08	05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	42 18:24 (FO 01)	17:42 (FO 01)	07:19 16:36	07:40 16:43
31	07:26 17:19	06:46 19:33	06:00 18:31	06:06 20:09	05:34 20:40	05:33 20:52	05:58 20:33	06:31 19:47	07:05 18:54	42 18:24 (FO 01)	17:42 (FO 01)	07:20 16:43	07:40 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	241	293	281	
Total, worst case			985	28					780				

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

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

Calculation: Shadow Shadow receptor: BW - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (189)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:41 16:44	07:25 17:21	06:47 17:57	06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	17:41 (FO 01) 18:22 (FO 01)	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:34 19:44	07:06 18:50	41 18:21 (FO 01)	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	06:02 20:11	05:32 20:42	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	40 18:21 (FO 01)	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	39 18:20 (FO 01)	06:46 17:00	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	05:59 20:14	05:31 20:44	05:35 20:51	06:03 20:27	06:37 19:39	07:10 18:45	36 18:19 (FO 01)	06:48 17:00	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:43	34 18:18 (FO 01)	06:49 17:00	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	32 18:16 (FO 01)	06:50 17:00	07:26 16:34
8	07:40 16:51	07:17 17:30	06:35 18:06	06:41 19:43	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:33	07:13 18:40	28 18:14 (FO 01)	06:51 17:00	07:27 16:34
9	07:40 16:52	07:16 17:31	06:33 18:07	06:39 19:44	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:21	06:41 19:32	07:14 18:38	24 18:11 (FO 01)	06:52 17:00	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	06:37 19:45	05:53 20:19	05:30 20:47	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	19 18:08 (FO 01)	06:54 17:00	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	05:51 20:20	05:30 20:48	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	10 18:04 (FO 01)	06:55 17:00	07:30 16:34
12	07:39 16:55	07:12 17:35	06:28 18:11	06:34 19:47	05:50 20:21	05:30 20:48	05:40 20:49	06:19 20:17	06:44 19:26	07:18 18:33		06:57 17:00	07:30 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	05:49 20:23	05:29 20:49	05:41 20:48	06:12 20:16	06:45 19:25	07:19 18:17 (FO 01)		06:58 17:00	07:31 16:34
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:49	05:48 20:24	05:29 20:49	05:42 20:48	06:13 20:14	06:47 19:23	15 18:17 (FO 01)		06:59 17:00	07:32 16:34
15	07:38 16:59	07:08 17:39	06:23 18:14	06:29 19:51	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	22 18:20 (FO 01)		07:00 17:00	07:33 16:34
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	05:46 20:26	05:29 20:50	05:44 20:46	06:15 20:11	06:49 19:19	26 18:21 (FO 01)		07:02 17:00	07:34 16:34
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	30 18:24 (FO 01)		07:03 17:00	07:34 16:34
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:08	06:51 19:16	33 18:24 (FO 01)		07:05 17:00	07:35 16:34
19	07:36 17:04	07:02 17:45	06:16 18:19	06:23 19:55	05:43 20:29	05:29 20:51	05:46 20:44	06:18 20:07	06:52 19:14	35 18:24 (FO 01)		07:06 17:00	07:36 16:34
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:56	05:42 20:30	05:30 20:51	05:47 20:43	06:19 20:05	06:53 19:12	37 18:25 (FO 01)		07:07 17:00	07:36 16:34
21	07:35 17:06	06:59 17:47	06:12 18:22	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	39 18:25 (FO 01)		07:08 17:00	07:37 16:34
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:22 20:02	06:55 19:08	41 18:26 (FO 01)		07:09 17:00	07:37 16:34
23	07:33 17:09	06:56 17:50	06:09 18:24	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:07	42 18:26 (FO 01)		07:10 17:00	07:38 16:34
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01	05:39 20:34	05:30 20:52	05:51 20:40	06:24 19:59	06:58 19:05	43 18:26 (FO 01)		07:12 17:00	07:38 16:34
25	07:32 17:11	06:53 17:52	06:05 18:26	06:13 20:02	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	44 18:26 (FO 01)		07:13 17:00	07:39 16:34
26	07:31 17:13	06:52 17:53	06:04 18:27	06:12 20:03	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	43 18:25 (FO 01)		07:14 17:00	07:39 16:34
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05	05:36 20:37	05:31 20:52	05:54 20:37	06:27 19:54	07:01 18:59	44 18:25 (FO 01)		07:15 17:00	07:39 16:34
28	07:29 17:15	06:48 17:56	06:00 18:30	06:09 20:06	05:36 20:38	05:32 20:52	05:55 20:36	06:28 19:52	07:02 18:58	44 18:25 (FO 01)		07:16 17:00	07:40 16:34
29	07:28 17:17	06:58 19:31	06:08 18:31	06:07 20:07	05:35 20:38	05:32 20:52	05:56 20:35	06:29 19:51	07:03 18:56	43 18:24 (FO 01)		07:17 17:00	07:40 16:34
30	07:27 17:18	06:57 19:32	06:07 18:32	06:06 20:08	05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	42 18:23 (FO 01)		07:19 17:00	07:40 16:34
31	07:26 17:19	06:55 19:33	06:05 18:33	06:05 20:09	05:34 20:40	05:34 20:52	05:58 20:33	06:31 19:47	06:41 17:04			06:41 17:04	07:40 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	303	293	281	
Total, worst case			945						666				

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

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

Calculation: Shadow Shadow receptor: BX - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (190)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44	07:25 17:21	06:47 17:57		06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46		07:20 17:03
2	07:41 16:45	07:24 17:22	06:45 17:59	7	17:18 (FO 01) 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:34 19:44	43	17:03 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	7	17:25 (FO 01) 19:36	06:02 20:11	05:32 20:42	05:34 20:52	06:01 20:29	06:35 19:42	42	17:01 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	18	17:30 (FO 01) 19:37	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	41	17:00 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	24	17:33 (FO 01) 19:38	05:59 20:14	05:31 20:44	05:35 20:51	06:03 20:27	06:37 19:39	40	16:59 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	28	17:35 (FO 01) 19:39	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:25	06:38 19:37	37	16:57 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	32	17:37 (FO 01) 19:40	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	36	16:56 16:34
8	07:40 16:51	07:17 17:30	06:35 18:06	35	17:38 (FO 01) 19:41	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:33	33	16:55 16:34
9	07:40 16:52	07:16 17:31	06:33 18:07	37	17:39 (FO 01) 19:43	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:21	06:41 19:32	30	16:54 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	39	17:40 (FO 01) 19:44	05:53 20:19	05:30 20:47	05:39 20:50	06:08 20:20	06:42 19:30	26	16:53 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	40	17:40 (FO 01) 19:45	05:51 20:20	05:30 20:48	05:40 20:49	06:10 20:19	06:43 19:28	21	16:52 16:34
12	07:39 16:55	07:12 17:35	06:28 18:11	42	17:40 (FO 01) 19:46	05:50 20:21	05:30 20:48	05:40 20:49	06:11 20:17	06:44 19:26	14	16:51 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	43	17:41 (FO 01) 19:47	05:49 20:22	05:29 20:49	05:41 20:48	06:12 20:16	18:02 (FO 01) 19:25	8	16:49 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	44	17:41 (FO 01) 19:48	05:48 20:23	05:29 20:49	05:42 20:48	06:13 20:14	18:10 (FO 01) 19:23	8	16:48 16:35
15	07:38 16:59	07:08 17:39	06:23 18:14	44	17:41 (FO 01) 19:49	05:47 20:24	05:29 20:49	05:43 20:48	06:14 20:13	18:15 (FO 01) 19:21	18	16:47 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	45	17:41 (FO 01) 19:51	05:46 20:25	05:29 20:50	05:44 20:47	06:15 20:13	17:51 (FO 01) 19:21	23	16:46 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	45	17:41 (FO 01) 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	17:54 (FO 01) 19:17	28	16:46 16:35
18	07:37 17:03	07:04 17:43	06:18 18:18	45	17:41 (FO 01) 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:08	17:47 (FO 01) 19:16	31	16:45 16:35
19	07:36 17:04	07:02 17:45	06:16 18:19	44	17:40 (FO 01) 19:54	05:43 20:29	05:29 20:51	05:46 20:44	06:18 20:07	18:21 (FO 01) 19:14	34	16:44 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	43	17:39 (FO 01) 19:55	05:42 20:30	05:30 20:51	05:47 20:43	06:19 20:05	17:44 (FO 01) 19:12	36	16:43 16:36
21	07:35 17:06	06:59 17:47	06:13 18:22	43	17:38 (FO 01) 19:56	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	18:22 (FO 01) 19:10	38	16:42 16:37
22	07:34 17:07	06:58 17:48	06:11 18:23	42	16:57 (FO 01) 19:58	05:40 20:32	05:30 20:52	05:49 20:42	06:22 20:02	17:42 (FO 01) 19:08	40	16:41 16:37
23	07:33 17:09	06:56 17:50	06:09 18:24	40	16:57 (FO 01) 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	18:23 (FO 01) 19:07	42	16:41 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	39	16:57 (FO 01) 20:01	05:39 20:34	05:30 20:52	05:51 20:40	06:24 19:59	17:39 (FO 01) 19:05	43	16:40 16:38
25	07:32 17:11	06:53 17:52	06:05 18:26	37	16:58 (FO 01) 20:02	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	18:23 (FO 01) 19:03	44	16:39 16:39
26	07:31 17:13	06:52 17:54	06:04 18:27	35	17:33 (FO 01) 20:02	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	17:38 (FO 01) 19:01	44	16:39 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	32	17:01 (FO 01) 20:03	05:36 20:37	05:31 20:52	05:54 20:37	06:27 19:54	17:38 (FO 01) 18:59	44	16:38 16:40
28	07:29 17:15	06:48 17:56	06:00 18:30	29	17:30 (FO 01) 20:05	05:36 20:38	05:32 20:52	05:55 20:36	06:28 19:52	18:23 (FO 01) 18:58	45	16:38 16:41
29	07:28 17:17	06:58 19:31	06:08 18:31	24	17:27 (FO 01) 20:06	05:35 20:39	05:32 20:52	05:56 20:35	06:29 19:51	17:37 (FO 01) 18:56	44	16:37 16:42
30	07:27 17:18	06:57 19:32	06:07 18:32	19	18:05 (FO 01) 20:07	05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	18:22 (FO 01) 18:54	45	16:37 16:43
31	07:26 17:19	06:55 19:33	06:05 18:33	10	18:20 (FO 01) 20:08	05:34 20:40	05:33 20:52	05:58 20:33	06:31 19:47	17:37 (FO 01) 18:54	44	16:36 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	343	293	281
Total, worst case			1005						651	363		

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

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

Calculation: Shadow Shadow receptor: BY - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (191)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December	
1	07:41 16:44	07:25 17:21	06:47 17:57	17:19 (FO 01) 19:34	06:53 20:09	06:04 20:41	05:33 20:52	05:33 20:32	05:59 20:32	06:32 19:46	07:05 18:52	17:36 (FO 01) 17:03	06:43 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	17:13 (FO 01) 19:36	06:51 20:10	06:03 20:42	05:33 20:52	05:34 20:30	06:00 20:30	06:34 19:44	07:06 18:50	17:36 (FO 01) 17:01	06:44 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	17:09 (FO 01) 19:37	06:50 20:11	06:02 20:42	05:32 20:52	05:34 20:29	06:01 20:29	06:35 19:42	07:08 18:49	17:36 (FO 01) 17:00	06:45 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	17:06 (FO 01) 19:38	06:48 20:13	06:00 20:43	05:32 20:52	05:35 20:28	06:02 20:28	06:36 19:40	07:09 18:47	17:37 (FO 01) 16:59	06:46 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	17:05 (FO 01) 19:39	06:46 20:14	05:59 20:44	05:31 20:51	05:35 20:27	06:03 20:27	06:37 19:39	07:10 18:45	17:37 (FO 01) 16:57	06:48 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	17:03 (FO 01) 19:40	06:44 20:15	05:58 20:45	05:31 20:51	05:36 20:25	06:04 20:25	06:38 19:37	07:11 18:43	17:38 (FO 01) 16:56	06:49 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	17:01 (FO 01) 19:41	06:43 20:16	05:56 20:45	05:31 20:51	05:37 20:24	06:05 20:24	06:39 19:35	07:12 18:42	17:39 (FO 01) 16:55	06:50 16:34
8	07:40 16:51	07:17 17:30	06:35 18:06	17:01 (FO 01) 19:43	06:41 20:17	05:55 20:46	05:30 20:51	05:37 20:23	06:06 20:23	06:40 19:33	07:13 18:40	17:39 (FO 01) 16:54	06:51 16:34
9	07:40 16:52	07:16 17:31	06:33 18:07	17:00 (FO 01) 19:44	06:39 20:18	05:54 20:47	05:30 20:50	05:38 20:21	06:07 20:21	06:41 19:32	07:14 18:38	17:40 (FO 01) 16:53	06:53 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	16:58 (FO 01) 19:45	06:37 20:19	05:53 20:47	05:30 20:50	05:39 20:20	06:08 20:20	06:42 19:30	07:16 18:37	18:10 (FO 01) 16:52	06:54 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	16:57 (FO 01) 19:46	06:36 20:20	05:51 20:48	05:30 20:49	05:40 20:19	06:10 19:28	06:43 19:28	07:17 18:35	18:08 (FO 01) 16:51	06:55 16:34
12	07:39 16:55	07:12 17:35	06:28 18:11	16:58 (FO 01) 19:47	06:34 20:21	05:50 20:48	05:30 20:49	05:40 20:17	06:11 19:26	06:44 19:26	07:18 18:33	17:48 (FO 01) 16:49	06:57 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	16:57 (FO 01) 19:48	06:32 20:23	05:49 20:49	05:29 20:48	05:41 20:16	06:12 19:25	06:45 19:25	07:19 18:31	18:01 (FO 01) 16:48	06:58 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	16:56 (FO 01) 19:49	06:31 20:24	05:48 20:49	05:29 20:48	05:42 20:14	06:13 19:23	06:47 19:23	07:20 18:30	17:45 (FO 01) 16:47	06:59 16:35
15	07:38 16:59	07:08 17:39	06:23 18:14	16:56 (FO 01) 19:51	06:29 20:25	05:47 20:50	05:29 20:47	05:43 20:13	06:14 20:13	06:48 19:21	07:22 18:12 (FO 01)	17:57 (FO 01) 18:28	07:00 16:46
16	07:38 17:00	07:07 17:41	06:21 18:16	16:56 (FO 01) 19:52	06:27 20:26	05:46 20:50	05:29 20:46	05:44 20:11	06:15 20:11	06:49 19:19	07:23 18:15 (FO 01)	17:53 (FO 01) 18:26	07:02 16:46
17	07:37 17:01	07:05 17:42	06:20 18:17	16:56 (FO 01) 19:53	06:26 20:27	05:45 20:51	05:29 20:46	05:44 20:10	06:16 20:10	06:50 19:17	07:24 18:17 (FO 01)	17:50 (FO 01) 18:25	07:03 16:45
18	07:37 17:03	07:04 17:43	06:18 18:18	16:56 (FO 01) 19:54	06:24 20:28	05:44 20:51	05:29 20:45	05:45 20:08	06:17 20:08	06:51 19:16	07:25 18:18 (FO 01)	17:48 (FO 01) 18:23	07:04 16:44
19	07:36 17:04	07:02 17:45	06:16 18:19	16:56 (FO 01) 19:55	06:23 20:29	05:43 20:51	05:29 20:44	05:46 20:07	06:18 20:07	06:52 19:14	07:26 18:19 (FO 01)	17:46 (FO 01) 18:22	07:05 16:43
20	07:36 17:05	07:01 17:46	06:14 18:20	16:56 (FO 01) 19:56	06:21 20:30	05:42 20:51	05:30 20:43	05:47 20:05	06:19 20:05	06:53 19:12	07:28 18:20 (FO 01)	17:44 (FO 01) 18:20	07:07 16:42
21	07:35 17:06	06:59 17:47	06:12 18:22	16:57 (FO 01) 19:58	06:19 20:31	05:41 20:52	05:30 20:43	05:48 20:04	06:20 20:04	06:54 19:10	07:29 18:20 (FO 01)	17:43 (FO 01) 18:19	07:08 16:41
22	07:34 17:08	06:58 17:48	06:11 18:23	16:57 (FO 01) 19:59	06:18 20:32	05:40 20:52	05:30 20:42	05:49 20:02	06:22 20:02	06:55 19:08	07:30 18:21 (FO 01)	17:41 (FO 01) 18:17	07:09 16:41
23	07:33 17:09	06:56 17:50	06:09 18:24	16:58 (FO 01) 20:00	06:16 20:33	05:39 20:52	05:30 20:41	05:39 20:01	06:23 20:01	06:56 19:07	07:31 18:21 (FO 01)	17:40 (FO 01) 18:15	07:10 16:40
24	07:33 17:10	06:55 17:51	06:07 18:25	16:58 (FO 01) 20:01	06:15 20:34	05:39 20:52	05:30 20:40	05:51 19:59	06:24 19:05	06:58 19:05	07:32 18:21 (FO 01)	17:39 (FO 01) 18:14	07:12 16:39
25	07:32 17:11	06:53 17:52	06:05 18:26	16:59 (FO 01) 20:02	06:13 20:35	05:38 20:52	05:31 20:39	05:52 19:57	06:25 19:57	06:59 19:03	07:33 18:21 (FO 01)	17:38 (FO 01) 17:12	07:13 16:39
26	07:31 17:13	06:52 17:54	06:04 18:27	17:02 (FO 01) 20:03	06:12 20:36	05:37 20:52	05:31 20:38	05:53 19:56	06:26 19:56	07:00 19:01	07:34 18:22 (FO 01)	17:38 (FO 01) 17:11	07:14 16:38
27	07:30 17:14	06:50 17:55	06:02 18:29	17:03 (FO 01) 20:05	06:10 20:37	05:36 20:52	05:31 20:37	05:54 19:54	06:27 19:54	07:01 18:59	07:35 18:22 (FO 01)	17:38 (FO 01) 17:10	07:15 16:38
28	07:29 17:15	06:48 17:56	06:00 18:30	17:06 (FO 01) 20:06	06:09 20:38	05:36 20:52	05:32 20:36	05:55 19:52	06:28 18:58	07:02 18:58	07:37 (FO 01) 17:37 (FO 01)	17:37 (FO 01) 17:08	07:16 16:37
29	07:28 17:17	06:58 19:31	06:08 18:31	18:11 (FO 01) 20:07	06:07 20:38	05:35 20:52	05:32 20:35	05:56 19:51	06:29 18:56	07:03 18:56	07:38 (FO 01) 18:21 (FO 01)	17:37 (FO 01) 17:07	07:17 16:37
30	07:27 17:18	06:57 19:32	06:07 18:32	18:16 (FO 01) 20:07	06:06 20:38	05:34 20:52	05:33 20:34	05:57 19:49	06:30 18:54	07:04 18:54	07:39 (FO 01) 18:20 (FO 01)	17:36 (FO 01) 17:05	07:19 16:36
31	07:26 17:19	06:55 19:33	06:05 18:33	20:08	05:34 20:40	05:34 20:52	05:58 20:33	06:31 19:47	06:31 19:47	06:41 19:47	07:04 17:04	18:20 (FO 01) 17:04	07:20 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	586	401	293	281
Total, worst case				975									

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

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

Calculation: Shadow Shadow receptor: BZ - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (192)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44	07:25 17:21	06:47 17:57	17:10 (FO 01) 17:28 (FO 01)	06:53 19:34	06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:32 19:46	07:05 18:52	17:34 (FO 01) 17:03 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	17:07 (FO 01) 17:31 (FO 01)	06:51 19:36	06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:34 19:44	07:06 18:47	17:34 (FO 01) 17:01 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	17:05 (FO 01) 17:33 (FO 01)	06:50 19:37	06:02 20:11	05:32 20:42	05:34 20:52	06:01 20:29	06:35 19:42	07:08 18:49	17:33 (FO 01) 17:00 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	17:03 (FO 01) 17:34 (FO 01)	06:48 19:38	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:40	07:09 18:47	17:34 (FO 01) 16:59 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	17:02 (FO 01) 17:36 (FO 01)	06:46 19:39	05:59 20:14	05:31 20:44	05:35 20:51	06:03 20:27	06:37 19:39	07:10 18:45	17:34 (FO 01) 16:57 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	17:00 (FO 01) 17:36 (FO 01)	06:44 19:40	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:25	06:38 19:37	07:11 18:43	17:35 (FO 01) 16:49 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	16:58 (FO 01) 17:37 (FO 01)	06:43 19:41	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	07:12 18:42	17:35 (FO 01) 16:55 16:34
8	07:40 16:51	07:17 17:30	06:35 18:06	16:58 (FO 01) 17:38 (FO 01)	06:41 19:43	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:33	07:13 18:40	17:36 (FO 01) 16:54 16:34
9	07:40 16:52	07:16 17:31	06:33 18:07	16:57 (FO 01) 17:38 (FO 01)	06:39 19:44	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:21	06:41 19:32	07:14 18:38	17:42 (FO 01) 16:53 16:34
10	07:40 16:53	07:15 17:33	06:32 18:08	16:56 (FO 01) 17:38 (FO 01)	06:37 19:45	05:53 20:19	05:30 20:47	05:39 20:50	06:08 20:20	06:42 19:30	07:16 18:37	17:39 (FO 01) 16:52 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	16:55 (FO 01) 17:38 (FO 01)	06:36 19:46	05:51 20:20	05:30 20:48	05:40 20:49	06:10 20:19	06:43 19:28	07:17 18:35	17:40 (FO 01) 16:55 16:34
12	07:39 16:55	07:12 17:35	06:28 18:11	16:55 (FO 01) 17:39 (FO 01)	06:34 19:47	05:50 20:21	05:30 20:48	05:40 20:49	06:11 20:17	06:44 19:26	07:18 18:33	17:42 (FO 01) 16:49 16:34
13	07:39 16:57	07:11 17:37	06:27 18:12	16:55 (FO 01) 17:39 (FO 01)	06:32 19:48	05:49 20:23	05:29 20:49	05:41 20:48	06:12 20:16	06:45 19:25	07:19 18:31	17:45 (FO 01) 16:48 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	16:54 (FO 01) 17:38 (FO 01)	06:31 19:49	05:48 20:24	05:29 20:49	05:42 20:48	06:13 20:14	06:47 19:23	07:20 18:30	17:59 (FO 01) 16:59 16:35
15	07:38 16:59	07:08 17:39	06:23 18:14	16:54 (FO 01) 17:38 (FO 01)	06:29 19:51	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21	07:22 18:28	17:40 (FO 01) 16:46 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	16:54 (FO 01) 17:38 (FO 01)	06:27 19:52	05:46 20:26	05:29 20:50	05:44 20:46	06:15 20:11	06:49 19:19	17:55 (FO 01) 18:10 (FO 01)	07:23 18:26
17	07:37 17:01	07:05 17:42	06:20 18:17	16:54 (FO 01) 17:37 (FO 01)	06:26 19:53	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17	17:51 (FO 01) 18:12 (FO 01)	07:24 18:25
18	07:37 17:03	07:04 17:43	06:18 18:18	16:54 (FO 01) 17:36 (FO 01)	06:24 19:54	05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:08	06:51 19:16	17:48 (FO 01) 18:14 (FO 01)	07:25 18:23
19	07:36 17:04	07:02 17:45	06:16 18:19	16:54 (FO 01) 17:35 (FO 01)	06:23 19:55	05:43 20:29	05:29 20:51	05:46 20:44	06:18 20:07	06:52 19:14	17:46 (FO 01) 18:16 (FO 01)	07:26 18:22
20	07:36 17:05	07:01 17:46	06:14 18:20	16:54 (FO 01) 17:34 (FO 01)	06:21 19:56	05:42 20:30	05:30 20:51	05:47 20:43	06:19 20:05	06:53 19:12	17:44 (FO 01) 18:17 (FO 01)	07:28 18:20
21	07:35 17:06	06:59 17:47	06:12 18:22	16:56 (FO 01) 17:34 (FO 01)	06:19 19:58	05:41 20:31	05:30 20:52	05:48 20:43	06:20 20:04	06:54 19:10	17:42 (FO 01) 18:19 (FO 01)	07:29 18:19
22	07:34 17:08	06:58 17:48	06:11 18:23	16:56 (FO 01) 17:32 (FO 01)	06:18 19:59	05:40 20:32	05:30 20:52	05:49 20:42	06:22 20:02	06:55 19:08	17:40 (FO 01) 18:18 (FO 01)	07:30 18:17
23	07:33 17:09	06:56 17:50	06:09 18:24	16:57 (FO 01) 17:31 (FO 01)	06:16 20:00	05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:56 19:07	17:39 (FO 01) 18:18 (FO 01)	07:31 18:15
24	07:33 17:10	06:55 17:51	06:07 18:25	16:58 (FO 01) 17:29 (FO 01)	06:15 20:01	05:39 20:34	05:30 20:52	05:51 20:40	06:24 19:59	06:58 19:05	17:38 (FO 01) 18:19 (FO 01)	07:32 18:14
25	07:32 17:11	06:53 17:52	06:05 18:26	16:59 (FO 01) 17:26 (FO 01)	06:13 20:02	05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03	17:37 (FO 01) 18:19 (FO 01)	07:34 17:12
26	07:31 17:13	06:52 17:54	06:04 18:27	17:02 (FO 01) 17:25 (FO 01)	06:12 20:03	05:37 20:36	05:31 20:52	05:53 20:38	06:26 19:56	07:00 19:01	17:37 (FO 01) 18:20 (FO 01)	07:35 17:11
27	07:30 17:14	06:50 17:55	06:02 18:29	17:05 (FO 01) 17:21 (FO 01)	06:10 20:05	05:36 20:37	05:31 20:52	05:54 20:37	06:27 19:54	07:01 18:59	17:36 (FO 01) 18:20 (FO 01)	07:36 17:10
28	07:29 17:15	06:48 17:56	06:00 18:30	17:16 (FO 01) 17:23 (FO 01)	06:09 20:06	05:36 20:38	05:32 20:52	05:55 20:36	06:28 19:52	07:02 18:58	17:35 (FO 01) 18:19 (FO 01)	07:37 17:08
29	07:28 17:17	06:47 17:55	05:58 18:31	17:15 (FO 01) 17:22 (FO 01)	06:08 20:07	05:35 20:38	05:33 20:52	05:56 20:35	06:29 19:51	07:03 18:56	17:34 (FO 01) 18:19 (FO 01)	07:38 17:07
30	07:27 17:18	06:46 17:54	05:57 18:32	17:14 (FO 01) 17:21 (FO 01)	06:07 20:08	05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	17:34 (FO 01) 18:18 (FO 01)	07:39 17:05
31	07:26 17:19	06:45 17:53	05:56 18:33	17:13 (FO 01) 17:20 (FO 01)	06:06 20:09	05:34 20:40	05:33 20:53	05:57 20:33	06:30 19:47	07:04 18:54	17:34 (FO 01) 18:18 (FO 01)	07:40 17:04
Potential sun hours	292	294	369	401	454	459	465	432	376	539	343	293
Total, worst case		7	972							447		281

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

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

Calculation: Shadow Shadow receptor: CA - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (193)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December
1	07:41 16:44 17:21	07:25 17:21	06:47 17:57 17:28 (FO 01)	17:11 (FO 01) 06:53 19:34	06:04 05:33 20:09	05:33 20:41 20:52	05:33 20:32 19:46	05:59 20:32 19:46	06:32 20:30 19:44	07:05 18:52 17:35 (FO 01)	06:43 17:03 16:36	07:20 16:36
2	07:41 16:45 17:22	07:24 17:22	06:45 17:59 17:29 (FO 01)	06:51 19:36 20:10	06:03 20:10 20:42	05:33 20:52 20:30	05:34 20:30 19:44	06:00 20:30 19:44	06:34 19:44	07:06 18:50 17:35 (FO 01)	06:44 17:01 16:36	07:21 16:36
3	07:41 16:46 17:23	07:23 17:23	06:44 18:00 17:33 (FO 01)	06:50 19:37 20:11	06:02 20:11 20:42	05:32 20:52 20:34	05:34 20:29 19:42	06:01 20:29 19:42	06:35 19:42	07:08 18:49 17:35 (FO 01)	06:45 17:00 16:35	07:22 16:35
4	07:41 16:47 17:25	07:22 17:25	06:42 18:01 17:34 (FO 01)	06:48 19:38 20:13	06:00 20:13 20:43	05:32 20:52 20:35	05:35 20:28 19:40	06:02 20:28 19:40	06:36 19:40	07:09 18:47 17:35 (FO 01)	06:46 16:59 16:35	07:23 16:35
5	07:41 16:48 17:26	07:21 17:26	06:40 18:02 17:36 (FO 01)	06:46 19:39 20:14	05:59 20:14 20:44	05:31 20:51 20:35	05:35 20:27 19:39	06:03 20:27 19:39	06:37 19:39	07:10 18:45 17:36 (FO 01)	06:48 16:57 16:35	07:24 16:35
6	07:41 16:49 17:27	07:20 17:27	06:39 18:04 17:37 (FO 01)	06:44 19:40 20:15	05:58 20:15 20:45	05:31 20:51 20:36	05:36 20:25 19:37	06:04 20:25 19:37	06:38 19:37	07:11 18:43 17:36 (FO 01)	06:49 16:56 16:35	07:25 16:35
7	07:41 16:50 17:29	07:19 17:29	06:37 18:05 17:37 (FO 01)	06:43 19:41 20:16	05:56 20:16 20:45	05:31 20:51 20:37	05:37 20:24 19:35	06:05 20:24 19:35	06:39 19:35	07:12 18:42 17:36 (FO 01)	06:50 16:55 16:34	07:26 16:34
8	07:40 16:51 17:30	07:17 17:30	06:35 18:06 17:39 (FO 01)	06:41 19:43 20:17	05:55 20:17 20:46	05:30 20:51 20:38	05:37 20:23 19:33	06:06 20:23 19:33	06:40 19:33	07:13 18:40 17:37 (FO 01)	06:51 16:54 16:34	07:27 16:34
9	07:40 16:52 17:31	07:16 17:31	06:33 18:07 17:39 (FO 01)	06:39 19:44 20:18	05:54 20:18 20:47	05:30 20:50 20:39	05:38 20:21 19:32	06:07 20:21 19:32	06:41 19:32	07:14 18:38 17:40 (FO 01)	06:53 16:53 16:34	07:28 16:34
10	07:40 16:53 17:33	07:15 17:33	06:32 18:08 17:39 (FO 01)	06:37 19:45 20:19	05:53 20:19 20:47	05:30 20:50 20:40	05:39 20:20 19:30	06:08 20:20 19:30	06:42 19:30	07:16 18:37 17:41 (FO 01)	06:54 16:52 16:34	07:29 16:34
11	07:40 16:54 17:34	07:14 17:34	06:30 18:10 17:39 (FO 01)	06:36 19:46 20:20	05:51 20:20 20:48	05:30 20:50 20:49	05:40 20:19 19:28	06:10 20:19 19:28	06:43 19:28	07:17 18:35 17:43 (FO 01)	06:55 16:50 16:34	07:30 16:34
12	07:39 16:55 17:35	07:12 17:35	06:28 18:11 17:40 (FO 01)	06:34 19:47 20:21	05:50 20:21 20:48	05:30 20:49 20:17	05:40 20:49 20:17	06:11 20:17 19:26	06:44 19:26	07:18 18:33 17:44 (FO 01)	06:57 16:49 16:34	07:31 16:34
13	07:39 16:57 17:37	07:11 17:37	06:27 18:12 17:39 (FO 01)	06:32 19:48 20:23	05:49 20:23 20:49	05:29 20:49 20:16	05:41 20:48 20:16	06:12 20:16 19:25	06:45 19:25	07:19 18:31 17:59 (FO 01)	06:58 16:48 16:35	07:31 16:35
14	07:39 16:58 17:38	07:10 17:38	06:25 18:13 17:39 (FO 01)	06:31 19:49 20:24	05:48 20:24 20:49	05:29 20:49 20:14	05:42 20:48 20:14	06:13 20:14 19:23	06:47 19:23	07:20 18:30 17:44 (FO 01)	06:59 16:47 16:35	07:32 16:35
15	07:38 16:59 17:39	07:08 17:39	06:23 18:14 17:38 (FO 01)	06:29 19:51 20:25	05:47 20:25 20:50	05:29 20:47 20:13	05:43 20:13 19:21	06:14 19:21 19:21	06:48 19:21	07:22 18:28 17:57 (FO 01)	07:00 16:46 16:35	07:33 16:35
16	07:38 17:00 17:41	07:07 17:41	06:21 18:16 17:39 (FO 01)	06:27 19:52 20:26	05:46 20:26 20:50	05:29 20:50 20:11	05:44 20:46 20:11	06:15 20:11 19:19	06:49 19:19	07:23 18:09 (FO 01) 17:53 (FO 01)	07:02 16:46 16:35	07:34 16:35
17	07:37 17:01 17:42	07:05 17:42	06:20 18:17 17:38 (FO 01)	06:26 19:53 20:27	05:45 20:27 20:51	05:29 20:46 20:10	05:44 20:10 19:17	06:16 20:10 19:17	06:50 19:17	07:24 18:12 (FO 01) 17:52 (FO 01)	07:03 16:45 16:35	07:34 16:35
18	07:37 17:03 17:43	07:04 17:43	06:18 18:18 17:37 (FO 01)	06:24 19:54 20:28	05:44 20:28 20:51	05:29 20:45 20:10	05:45 20:08 19:16	06:17 20:08 19:16	06:51 19:16	07:25 18:14 (FO 01) 17:50 (FO 01)	07:04 16:44 16:36	07:35 16:36
19	07:36 17:04 17:45	07:02 17:45	06:16 18:19 17:36 (FO 01)	06:23 19:55 20:29	05:43 20:29 20:51	05:29 20:44 20:07	05:46 20:07 19:14	06:18 20:07 19:14	06:52 19:14	07:26 18:16 (FO 01) 17:51 (FO 01)	07:05 16:43 16:36	07:36 16:36
20	07:36 17:05 17:46	07:01 17:46	06:14 18:20 17:35 (FO 01)	06:21 19:56 20:30	05:42 20:30 20:51	05:30 20:43 20:05	05:47 20:05 19:12	06:19 20:05 19:12	06:53 19:12	07:28 18:17 (FO 01) 17:54 (FO 01)	07:07 16:42 16:37	07:36 16:37
21	07:35 17:06 17:47	06:59 17:47	06:12 18:22 17:34 (FO 01)	06:19 19:58 20:31	05:41 20:31 20:52	05:30 20:43 20:04	05:48 20:04 19:10	06:20 20:04 19:10	06:54 19:10	07:29 18:18 (FO 01) 17:55 (FO 01)	07:08 16:41 16:37	07:37 16:37
22	07:34 17:07 17:48	06:58 17:48	06:11 18:23 17:33 (FO 01)	06:18 19:59 20:32	05:40 20:32 20:52	05:30 20:42 20:02	05:49 20:02 19:08	06:22 20:02 19:08	06:55 19:08	07:30 18:18 (FO 01) 17:56 (FO 01)	07:09 16:41 16:37	07:37 16:37
23	07:33 17:09 17:50	06:56 17:50	06:09 18:24 17:31 (FO 01)	06:16 20:00 20:33	05:39 20:33 20:52	05:30 20:51 20:41	05:50 20:01 20:01	06:23 20:01 19:07	06:56 19:07	07:31 18:19 (FO 01) 17:57 (FO 01)	07:10 16:40 16:38	07:38 16:38
24	07:33 17:10 17:51	06:55 17:51	06:07 18:25 17:29 (FO 01)	06:15 20:01 20:34	05:39 20:34 20:52	05:30 20:52 20:40	05:51 20:40 19:59	06:24 19:59 19:05	06:58 19:05	07:32 18:19 (FO 01) 17:58 (FO 01)	07:12 16:39 16:38	07:38 16:38
25	07:32 17:11 17:52	06:53 17:52	06:05 18:26 17:27 (FO 01)	06:13 20:02 20:35	05:38 20:35 20:52	05:31 20:52 20:39	05:52 19:57 19:03	06:25 19:03 19:03	06:59 19:03	07:33 18:19 (FO 01) 17:59 (FO 01)	07:13 16:39 16:39	07:39 16:39
26	07:31 17:13 17:54	06:52 17:54	06:04 18:27 17:25 (FO 01)	06:12 20:03 20:36	05:37 20:36 20:52	05:31 20:52 20:38	05:53 20:38 19:56	06:26 19:01 19:01	07:00 19:01	07:34 18:20 (FO 01) 17:11	07:14 16:38 16:40	07:39 16:40
27	07:30 17:14 17:55	06:50 17:55	06:02 18:29 17:21 (FO 01)	06:10 20:05 20:37	05:36 20:37 20:52	05:31 20:52 20:37	05:54 20:37 19:54	06:27 19:54 18:59	07:01 19:54	07:35 18:20 (FO 01) 17:10	07:15 16:38 16:40	07:39 16:40
28	07:29 17:15 17:56	06:48 17:56	17:18 (FO 01) 17:22 (FO 01)	06:00 20:06 20:38	05:36 20:38 20:52	05:32 20:36 19:52	05:55 20:36 19:52	06:28 19:52 18:58	07:02 18:58	07:36 18:20 (FO 01) 17:08	07:16 16:37 16:41	07:40 16:41
29	07:28 17:17 17:57			06:58 20:07 20:38	05:35 20:38 20:52	05:32 20:38 20:35	05:56 20:35 19:51	06:29 19:51 18:56	07:03 18:56	07:37 18:19 (FO 01) 17:07	07:17 16:37 16:42	07:40 16:42
30	07:27 17:18 17:58			06:57 20:08 20:39	05:34 20:39 20:52	05:33 20:39 20:34	05:57 20:34 19:49	06:30 19:49 18:54	07:04 18:54	07:38 18:19 (FO 01) 17:05	07:19 16:36 16:43	07:40 16:43
31	07:26 17:19 17:59			06:55 20:40 20:33	05:34 20:40 20:33	05:32 20:33 20:33	05:58 20:33 19:47	06:31 19:47 18:54	07:05 19:47	07:39 17:04 16:43	07:20 16:43 16:35	07:40 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	523	343	293
Total, worst case		4	946							442		281

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

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

Calculation: Shadow Shadow receptor: CB - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (194)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December		
1	07:41	07:25	06:47	17:06 (FO 01)	06:53	06:04	05:33	05:33	05:59	06:32	07:05	17:36 (FO 01)	06:43	07:20
	16:44	17:21	17:57	17:31 (FO 01)	19:34	20:09	20:41	20:52	20:32	19:46	18:52	18:16 (FO 01)	17:03	16:36
2	07:41	07:24	06:45	17:05 (FO 01)	06:51	06:03	05:33	05:34	06:00	06:34	07:06	17:35 (FO 01)	06:44	07:21
	16:45	17:22	17:59	17:34 (FO 01)	19:36	20:10	20:42	20:52	20:30	19:44	18:50	18:16 (FO 01)	17:01	16:36
3	07:41	07:23	06:44	17:03 (FO 01)	06:50	06:02	05:32	05:34	06:01	06:35	07:08	17:34 (FO 01)	06:45	07:22
	16:46	17:23	18:00	17:35 (FO 01)	19:37	20:11	20:42	20:52	20:29	19:42	18:49	18:15 (FO 01)	17:00	16:35
4	07:41	07:22	06:42	17:01 (FO 01)	06:48	06:00	05:32	05:35	06:02	06:36	07:09	17:35 (FO 01)	06:46	07:23
	16:47	17:25	18:01	17:35 (FO 01)	19:38	20:13	20:43	20:52	20:28	19:40	18:47	18:16 (FO 01)	16:59	16:35
5	07:41	07:21	06:40	17:01 (FO 01)	06:46	05:59	05:31	05:35	06:03	06:37	07:10	17:35 (FO 01)	06:48	07:24
	16:48	17:26	18:02	17:37 (FO 01)	19:39	20:14	20:44	20:51	20:27	19:39	18:45	18:15 (FO 01)	16:57	16:35
6	07:41	07:20	06:39	16:59 (FO 01)	06:44	05:58	05:31	05:36	06:04	06:38	07:11	17:35 (FO 01)	06:49	07:25
	16:49	17:27	18:04	17:37 (FO 01)	19:40	20:15	20:45	20:51	20:25	19:37	18:43	18:14 (FO 01)	16:56	16:35
7	07:41	07:19	06:37	16:58 (FO 01)	06:43	05:56	05:31	05:37	06:05	06:39	07:12	17:35 (FO 01)	06:50	07:26
	16:50	17:29	18:05	17:37 (FO 01)	19:41	20:16	20:45	20:51	20:24	19:35	18:42	18:13 (FO 01)	16:55	16:34
8	07:40	07:17	06:35	16:58 (FO 01)	06:41	05:55	05:30	05:37	06:06	06:40	07:13	17:35 (FO 01)	06:51	07:27
	16:51	17:30	18:06	17:38 (FO 01)	19:43	20:17	20:46	20:51	20:23	19:33	18:40	18:12 (FO 01)	16:54	16:34
9	07:40	07:16	06:33	16:58 (FO 01)	06:39	05:54	05:30	05:38	06:07	06:41	07:14	17:35 (FO 01)	06:53	07:28
	16:52	17:31	18:07	17:38 (FO 01)	19:44	20:18	20:47	20:50	20:21	19:32	18:38	18:10 (FO 01)	16:53	16:34
10	07:40	07:15	06:32	16:57 (FO 01)	06:37	05:53	05:30	05:39	06:08	06:42	07:16	17:37 (FO 01)	06:54	07:29
	16:53	17:33	18:08	17:37 (FO 01)	19:45	20:19	20:47	20:50	20:20	19:30	18:37	18:10 (FO 01)	16:52	16:34
11	07:40	07:14	06:30	16:56 (FO 01)	06:36	05:51	05:30	05:40	06:10	06:43	07:17	17:38 (FO 01)	06:55	07:30
	16:54	17:34	18:10	17:37 (FO 01)	19:46	20:20	20:48	20:49	20:19	19:28	18:35	18:08 (FO 01)	16:50	16:34
12	07:39	07:12	06:28	16:57 (FO 01)	06:34	05:50	05:30	05:40	06:11	06:44	07:18	17:39 (FO 01)	06:57	07:30
	16:55	17:35	18:11	17:38 (FO 01)	19:47	20:21	20:48	20:49	20:17	19:26	18:33	18:06 (FO 01)	16:49	16:34
13	07:39	07:11	06:27	16:57 (FO 01)	06:32	05:49	05:29	05:41	06:12	06:45	07:19	17:40 (FO 01)	06:58	07:31
	16:57	17:37	18:12	17:37 (FO 01)	19:48	20:23	20:49	20:48	20:16	19:25	18:31	18:04 (FO 01)	16:48	16:35
14	07:39	07:10	06:25	16:56 (FO 01)	06:31	05:48	05:29	05:42	06:13	06:47	07:20	17:42 (FO 01)	06:59	07:32
	16:58	17:38	18:13	17:36 (FO 01)	19:49	20:24	20:49	20:48	20:14	19:23	18:30	18:01 (FO 01)	16:47	16:35
15	07:38	07:08	06:23	16:56 (FO 01)	06:29	05:47	05:29	05:43	06:14	06:48	07:22	17:46 (FO 01)	07:00	07:33
	16:59	17:39	18:14	17:35 (FO 01)	19:51	20:25	20:50	20:47	20:13	19:21	18:28	17:58 (FO 01)	16:46	16:35
16	07:38	07:07	06:21	16:57 (FO 01)	06:27	05:46	05:29	05:44	06:15	06:49	07:23		07:02	07:34
	17:00	17:41	18:16	17:35 (FO 01)	19:52	20:26	20:50	20:46	20:11	19:19	18:26		16:46	16:35
17	07:37	07:05	06:20	16:58 (FO 01)	06:26	05:45	05:29	05:44	06:16	06:50	07:24		07:03	07:34
	17:01	17:42	18:17	17:34 (FO 01)	19:53	20:27	20:51	20:46	20:10	19:17	18:25		16:45	16:35
18	07:37	07:04	06:18	16:58 (FO 01)	06:24	05:44	05:29	05:45	06:17	06:51	07:25		07:04	07:35
	17:03	17:43	18:18	17:32 (FO 01)	19:54	20:28	20:51	20:45	20:08	19:16	18:23		16:44	16:36
19	07:36	07:02	06:16	16:59 (FO 01)	06:23	05:43	05:29	05:46	06:18	06:52	07:26		07:05	07:36
	17:04	17:45	18:19	17:31 (FO 01)	19:55	20:29	20:51	20:44	20:07	19:14	18:22		16:43	16:36
20	07:36	07:01	06:14	16:59 (FO 01)	06:21	05:42	05:30	05:47	06:19	06:53	07:28	17:53 (FO 01)	07:07	07:36
	17:05	17:46	18:20	17:29 (FO 01)	19:56	20:30	20:51	20:43	20:05	19:12	18:20	18:08 (FO 01)	16:42	16:37
21	07:35	06:59	06:12	17:02 (FO 01)	06:19	05:41	05:30	05:48	06:20	06:54	07:29	17:49 (FO 01)	07:08	07:37
	17:06	17:47	18:22	17:28 (FO 01)	19:58	20:31	20:52	20:43	20:04	19:10	18:19	18:10 (FO 01)	16:41	16:37
22	07:34	06:58	06:11	17:03 (FO 01)	06:18	05:40	05:30	05:49	06:22	06:55	07:30	17:47 (FO 01)	07:09	07:37
	17:08	17:48	18:23	17:25 (FO 01)	19:59	20:32	20:52	20:42	20:02	19:08	18:17	18:12 (FO 01)	16:41	16:37
23	07:33	06:56	06:09	17:06 (FO 01)	06:16	05:39	05:30	05:50	06:23	06:56	07:31	17:44 (FO 01)	07:10	07:38
	17:09	17:50	18:24	17:22 (FO 01)	20:00	20:33	20:52	20:41	20:01	19:07	18:15	18:13 (FO 01)	16:40	16:38
24	07:33	06:55	06:07	17:10 (FO 01)	06:15	05:39	05:30	05:51	06:24	06:58	07:32	17:42 (FO 01)	07:12	07:38
	17:10	17:51	18:25	17:16 (FO 01)	20:01	20:34	20:52	20:40	20:00	19:05	18:14	18:14 (FO 01)	16:39	16:38
25	07:32	06:53	06:05		06:13	05:38	05:31	05:52	06:25	06:59	07:33	17:41 (FO 01)	07:13	07:39
	17:11	17:52	18:26		20:02	20:35	20:52	20:39	19:57	19:03	18:15	18:15 (FO 01)	16:39	16:39
26	07:31	06:52	06:04		06:12	05:37	05:31	05:53	06:26	07:00	07:34	17:39 (FO 01)	07:14	07:39
	17:13	17:54	18:27		20:03	20:36	20:52	20:38	19:56	19:01	18:15	18:15 (FO 01)	16:38	16:40
27	07:30	06:50	06:02		06:10	05:36	05:31	05:54	06:27	07:01	07:35	17:39 (FO 01)	07:15	07:39
	17:14	17:55	18:29	17:27 (FO 01)	20:05	20:37	20:52	20:37	19:54	18:59	18:16 (FO 01)	17:10	16:38	16:40
28	07:29	06:48	06:00	17:09 (FO 01)	06:00	05:09	05:36	05:32	05:55	06:28	07:02	17:38 (FO 01)	07:16	07:40
	17:15	17:56	18:30	17:30 (FO 01)	20:06	20:38	20:52	20:36	19:52	18:58	18:17 (FO 01)	17:08	16:37	16:41
29	07:28		06:58		06:07	05:35	05:32	05:56	06:29	07:03	07:37	17:37 (FO 01)	07:17	07:40
	17:17		19:31		20:07	20:38	20:52	20:35	19:51	18:56	18:16 (FO 01)	17:07	16:37	16:42
30	07:27		06:57		06:06	05:34	05:33	05:57	06:30	07:04	07:38	17:36 (FO 01)	07:19	07:40
	17:18		19:32		20:08	20:39	20:52	20:34	19:49	18:54	18:16 (FO 01)	17:05	16:36	16:43
31	07:26		06:55			05:34		05:58	06:31		06:41		07:40	
	17:19		19:33			20:40		20:33	19:47		17:04		16:43	
Potential sun hours	292	294	369	401	454	459	465	432	376	347	343	293	281	
Total, worst case		36	794								497			

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

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

Calculation: Shadow Shadow receptor: CC - Shadow Receptor: 1.0 × 1.0 Azimuth: 0.0° Slope: 0.0° (228)
Assumptions for shadow calculations

The calculated times are "worst case" given by the following assumptions:

- The sun is shining all the day, from sunrise to sunset
- The rotor plane is always perpendicular to the line from the WTG to the sun
- The WTG is always operating

	January	February	March	April	May	June	July	August	September	October	November	December		
1	07:41 16:45	07:25 17:21	06:47 17:57	06:53 19:35		06:04 20:09	05:33 20:41	05:33 20:52	05:59 20:32	06:33 19:46	08:34 (FO 01) 09:03 (FO 01)	07:05 18:52	06:43 17:03	07:20 16:36
2	07:41 16:45	07:24 17:22	06:45 17:59	06:51 19:36		06:03 20:10	05:33 20:42	05:34 20:52	06:00 20:30	06:34 19:44	08:33 (FO 01) 09:04 (FO 01)	07:07 18:51	06:44 17:01	07:21 16:36
3	07:41 16:46	07:23 17:23	06:44 18:00	06:50 19:37	09:07 (FO 01) 09:09 (FO 01)	06:02 20:12	05:32 20:43	05:34 20:52	06:01 20:29	06:35 19:42	08:41 (FO 01) 09:04 (FO 01)	07:08 18:49	06:45 17:00	07:22 16:35
4	07:41 16:47	07:22 17:25	06:42 18:01	06:48 19:38	09:02 (FO 01) 09:09 (FO 01)	06:00 20:13	05:32 20:43	05:35 20:52	06:02 20:28	06:36 19:41	08:41 (FO 01) 09:04 (FO 01)	07:09 18:47	06:46 16:59	07:23 16:35
5	07:41 16:48	07:21 17:26	06:40 18:02	06:46 19:39	08:57 (FO 01) 09:08 (FO 01)	05:59 20:14	05:31 20:44	05:36 20:52	06:03 20:27	06:37 19:39	08:45 (FO 01) 09:04 (FO 01)	07:10 18:45	06:48 16:58	07:24 16:35
6	07:41 16:49	07:20 17:27	06:39 18:04	06:44 19:40	08:52 (FO 01) 09:08 (FO 01)	05:58 20:15	05:31 20:45	05:36 20:51	06:04 20:26	06:38 19:37	08:48 (FO 01) 09:04 (FO 01)	07:11 18:43	06:49 16:56	07:25 16:35
7	07:41 16:50	07:19 17:29	06:37 18:05	06:43 19:41	08:49 (FO 01) 09:08 (FO 01)	05:56 20:16	05:31 20:45	05:37 20:51	06:05 20:24	06:39 19:35	08:52 (FO 01) 09:03 (FO 01)	07:12 18:42	06:50 16:55	07:26 16:35
8	07:41 16:51	07:17 17:30	06:35 18:06	06:41 19:43	08:44 (FO 01) 09:07 (FO 01)	05:55 20:17	05:30 20:46	05:37 20:51	06:06 20:23	06:40 19:34	08:56 (FO 01) 09:03 (FO 01)	07:13 18:40	06:52 16:54	07:27 16:34
9	07:40 16:52	07:16 17:31	06:34 18:07	06:39 19:44	08:35 (FO 01) 09:06 (FO 01)	05:54 20:18	05:30 20:47	05:38 20:50	06:07 20:22	06:41 19:32	09:00 (FO 01) 09:02 (FO 01)	07:15 18:38	06:53 16:53	07:28 16:34
10	07:40 16:53	07:15 17:33	06:32 18:09	06:38 19:45	08:35 (FO 01) 09:06 (FO 01)	05:53 20:19	05:30 20:47	05:39 20:50	06:09 20:20	06:42 19:30		07:16 18:37	06:54 16:52	07:29 16:34
11	07:40 16:54	07:14 17:34	06:30 18:10	06:36 19:46	08:35 (FO 01) 09:04 (FO 01)	05:52 20:20	05:30 20:48	05:40 20:49	06:10 20:19	06:43 19:28		07:17 18:35	06:55 16:51	07:30 16:34
12	07:40 16:56	07:12 17:35	06:28 18:11	06:34 19:47	08:35 (FO 01) 09:03 (FO 01)	05:50 20:22	05:30 20:48	05:40 20:49	06:11 20:17	06:44 19:26		07:18 18:33	06:57 16:50	07:31 16:35
13	07:39 16:57	07:11 17:37	06:27 18:12	06:32 19:48	08:37 (FO 01) 09:02 (FO 01)	05:49 20:23	05:30 20:49	05:41 20:48	06:12 20:16	06:46 19:25		07:19 18:32	06:58 16:49	07:31 16:35
14	07:39 16:58	07:10 17:38	06:25 18:13	06:31 19:50	08:37 (FO 01) 09:00 (FO 01)	05:48 20:24	05:29 20:49	05:42 20:48	06:13 20:15	06:47 19:23		07:20 18:30	06:59 16:48	07:32 16:35
15	07:38 16:59	07:08 17:39	06:23 18:15	06:29 19:51	08:38 (FO 01) 08:57 (FO 01)	05:47 20:25	05:29 20:50	05:43 20:47	06:14 20:13	06:48 19:21		07:22 18:28	07:01 16:47	07:33 16:35
16	07:38 17:00	07:07 17:41	06:21 18:16	06:27 19:52	08:40 (FO 01) 08:55 (FO 01)	05:46 20:26	05:29 20:50	05:44 20:46	06:15 20:12	06:49 19:19		07:23 18:27	07:02 16:46	07:34 16:35
17	07:37 17:01	07:05 17:42	06:20 18:17	06:26 19:53	08:43 (FO 01) 08:51 (FO 01)	05:45 20:27	05:29 20:51	05:44 20:46	06:16 20:10	06:50 19:17		07:24 18:25	07:03 16:45	07:34 16:36
18	07:37 17:03	07:04 17:43	06:18 18:18	06:24 19:54		05:44 20:28	05:29 20:51	05:45 20:45	06:17 20:09	06:51 19:16		07:25 18:23	07:04 16:44	07:35 16:36
19	07:36 17:04	07:03 17:45	06:16 18:19	06:23 19:55		05:43 20:29	05:30 20:51	05:46 20:44	06:18 20:07	06:52 19:14		07:26 18:22	07:06 16:43	07:36 16:36
20	07:36 17:05	07:01 17:46	06:14 18:20	06:21 19:57		05:42 20:30	05:30 20:52	05:47 20:43	06:19 20:05	06:53 19:12		07:28 18:20	07:07 16:42	07:36 16:37
21	07:35 17:06	07:00 17:47	06:13 18:22	06:19 19:58		05:41 20:31	05:30 20:52	05:48 20:43	06:21 20:04	06:54 19:10		07:29 18:19	07:08 16:41	07:37 16:37
22	07:34 17:08	06:58 17:48	06:11 18:23	06:18 19:59		05:40 20:32	05:30 20:52	05:49 20:42	06:22 20:02	06:55 19:08		07:30 18:17	07:09 16:41	07:37 16:38
23	07:34 17:09	06:56 17:50	06:09 18:24	06:16 20:00		05:39 20:33	05:30 20:52	05:50 20:41	06:23 20:01	06:57 19:07		07:31 18:16	07:10 16:40	07:38 16:38
24	07:33 17:10	06:55 17:51	06:07 18:25	06:15 20:01		05:39 20:34	05:31 20:52	05:51 20:40	06:24 19:59	06:58 19:05		07:33 18:14	07:12 16:39	07:38 16:39
25	07:32 17:11	06:53 17:52	06:06 18:26	06:13 20:02		05:38 20:35	05:31 20:52	05:52 20:39	06:25 19:57	06:59 19:03		06:59 17:13	07:13 16:39	07:39 16:39
26	07:31 17:13	06:52 17:54	06:04 18:28	06:12 20:03		05:37 20:36	05:31 20:53	05:53 20:38	06:26 19:56	07:00 19:01	08:46 (FO 01) 08:54 (FO 01)	07:00 17:11	06:35 16:38	07:14 16:40
27	07:30 17:14	06:50 17:55	06:02 18:29	06:10 20:05		05:36 20:37	05:32 20:53	05:54 20:37	06:27 19:54	07:01 18:59	08:42 (FO 01) 08:58 (FO 01)	07:01 17:10	06:36 16:38	07:15 16:40
28	07:29 17:15	06:49 17:56	06:00 18:30	06:09 20:06		05:36 20:38	05:32 20:53	05:55 20:36	06:28 19:53	07:02 18:58	08:40 (FO 01) 08:59 (FO 01)	07:02 17:08	06:38 16:37	07:16 16:41
29	07:28 17:17		06:58 19:31	06:07 20:07		05:35 20:39	05:32 20:53	05:56 20:35	06:29 19:51	07:03 18:56	08:38 (FO 01) 09:01 (FO 01)	07:03 17:07	06:39 16:40	07:18 16:42
30	07:27 17:18		06:57 19:32	06:06 20:08		05:34 20:39	05:33 20:52	05:57 20:34	06:30 19:49	07:04 18:54	08:37 (FO 01) 09:02 (FO 01)	07:04 17:05	06:40 16:36	07:19 16:43
31	07:26 17:19		06:55 19:33			05:34 20:40		05:58 20:33	06:31 19:47	07:04 18:54	08:35 (FO 01) 09:03 (FO 01)	07:04 17:04	06:41 16:34	07:21 16:43
Potential sun hours	292	294	369	401	454	459	465	432	376	376	293	281		
Total, worst case				287				119		169				

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

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