



Оценка на периодичното засенчване

Вятърен парк в Румъния

ИЗГОТВЕНА ЗА
OX2

ДАТА
01-10-2025

РЕФЕРЕНЦИЯ
0798346



ДЕТАЙЛИ НА ДОКУМЕНТА

ИМЕ НА ДОКУМЕНТА	Оценка на периодичното засенчване
ПОДЗАГЛАВИЕ НА ДОКУМЕНТА	Вягърен парк в Румъния
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				ОДОБРЕНИЕ НА ERM ЗА ИЗДАВАНЕ		
ВЕРСИЯ	РЕВИЗИЯ	АВТОР	ПРОВЕРЕН ОТ	ИМЕ	ДАТА	КОМЕНТАРИ
Версия	00	Aurora Finiguerra	Simone Poli		01-10-2025	

Оценка на периодичното засенчване

Вятърен енергиен парк 48 (46) вятърни електроцентрали, трансформаторни станции, електрически присъединителни мрежи, изграждане и модернизация на комуникационни пътища и пътища за достъп“, разположен в Черкезу, окръг Констанца, бенефициер SC South Wind SRL

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ПРИЛОЖЕНИЕ А РЕЗУЛТАТ ОТ МОДЕЛА WINDPRO

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АКРОНИМИ И АБРЕВИАТУРИ

Акроним	Описание
DEM	Цифрови модели на релефа
ENS	Околна среда, здраве и безопасност
IFC	Международна финансова корпорация
MW	Мегават
WTG	Вятърна турбинна генераторна установка

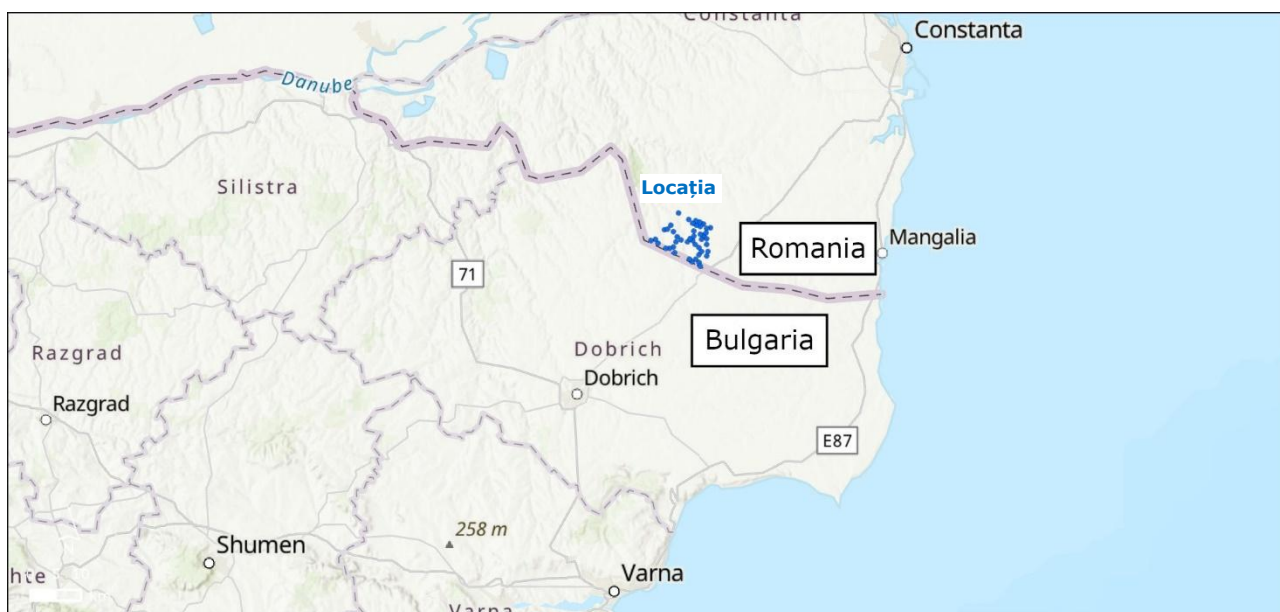
1. УВОД

На 18 септември 2025 г. Министерството на околната среда и водите на България публикува на официалния си уебсайт, в раздела „План за градско зонално развитие“, известието за приключване на процедурата по оценка на трансграничното въздействие върху околната среда за плана: „План за градско зонироване – Вятърен енергиен парк 48 (46) вятърни електроцентрали, трансформаторни станции, електрически присъединителни мрежи, изграждане и модернизация на комуникационни пътища и пътища за достъп“, разположен в Черкезу, окръг Констанца, бенефициер SC South Wind SRL

Известието включва условията, които трябва да бъдат включени в Екологичното разрешително като задължителни изисквания на регулаторния закон (както е посочено в точки 1–4 от известието):

1. „Вятърен енергиен парк 48 (46) вятърни електроцентрали, трансформаторни станции, електрически присъединителни мрежи, изграждане и модернизация на комуникационни пътища и пътища за достъп“ ще бъде изпълнен в съответствие с всички мерки, посочени в представения Екологичен доклад, целящи предотвратяване, намаляване и елиминиране на неблагоприятните въздействия върху околната среда, условията на живот и общественото здраве, произтичащи от изпълнението на проекта.
2. Предвид близостта на парка до границата с Република България, етапът на проектиране трябва да включва оценка на въздействието на физическите фактори в трансграничен контекст, по-специално на светлинните ефекти. Тази оценка трябва да бъде изпратена на Република България.
3. Боята, използвана за вятърните турбини (кула и ротор), трябва да бъде от „абсорбиращ“ тип, за да не се създават условия за отражения на падащата светлина.
4. След реализиране на инвестиционното предложение трябва да се осигури контролиран мониторинг на нивата на шум, на нейонизиращите лъчения и на светлинните ефекти на границата със засегнатите български населени места. Резултатите от мониторинга трябва да бъдат изпратени на Република България.

Фигура 1 Местоположение на обекта



Източник: ERM 2025

В отговор на тези изисквания, този документ представя оценката на периодичното засенчване, извършена за предложения Вятърен енергиен парк 48 (46) вятърни електроцентрали, трансформаторни станции, електрически присъединителни мрежи, изграждане и модернизация на комуникационни пътища и пътища за достъп“, разположен в Черкезу, окръг Констанца, бенефициер SC South Wind SRL

Периодичното засенчване се отнася до ефекта на трептене, причиняван когато въртящите се лопатки на вятърните турбини периодично хвърлят сенки през ограничени отвори, като например прозорци на близки домове. Оценката е извършена с помощта на международно признатия софтуер за моделиране WindPro, който симулира най-лошия сценарий в съответствие със стандартите на IFC и местните директиви. Това включва хипотези като непрекъснато слънчево греене, липса на бариери или облачна покривка и непрекъсната работа на турбините.

Целта на това проучване е да се оцени потенциалното въздействие на периодичното засенчване по протежение на пътя, пресичащ Румъния и България, и върху чувствителни рецептори в близост до националната граница, като се гарантира спазването както на националните, така и на трансграничните екологични разпоредби.

2. ОБЩ ПОГЛЕД ВЪРХУ ПРОЕКТА

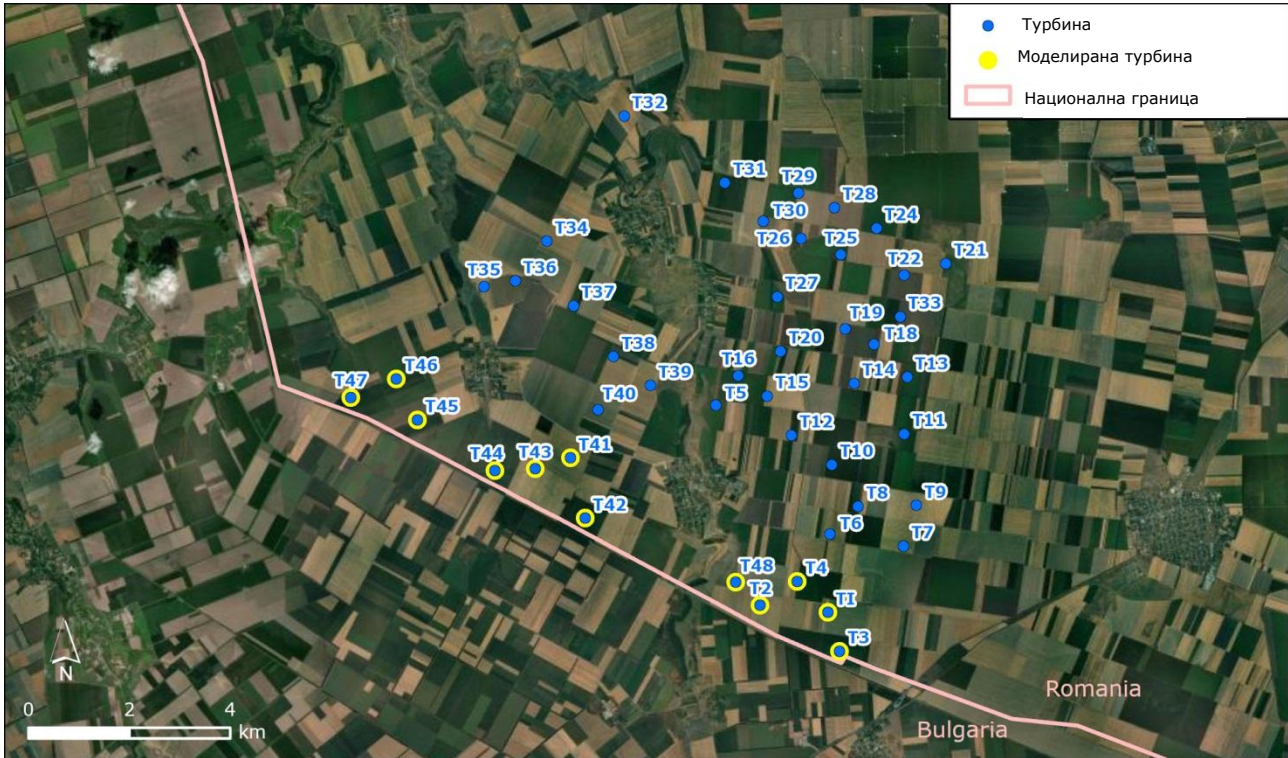
Конфигурацията включва 46 вятърни турбини, а районът на проекта се характеризира със земеделска земя.

Въпреки че окончателният дизайн на турбината все още не е потвърден, намерението е да се избере турбина Vestas с номинална мощност от 6,4 MW. Очаква се височината на платформата да бъде в диапазона от 155 до 159 метра, с дължина на лопатките приблизително 80 до 85 метра, което води до максимална височина до върха не повече от 240 метра.

За целите на моделирането на периодичното засенчване е избрана най-консервативната конфигурация на турбината — приемайки максимален диаметър на ротора от 170 метра и височина на платформата от 155 метра, което заедно води до максимална височина при върха на лопатката от 240 метра.

В съответствие с изискванията, определени от българското Министерство на околната среда и водите относно оценката на трансграничното въздействие върху околната среда, този анализ на периодичното засенчване се фокусира изключително върху подгрупата от вятърни турбини, разположени в близост до румънско-българската граница (Фигура 2). (ФИГУРА 2).

ФИГУРА 2 КОНФИГУРАЦИЯ НА МЕСТОПОЛОЖЕНИЕТО

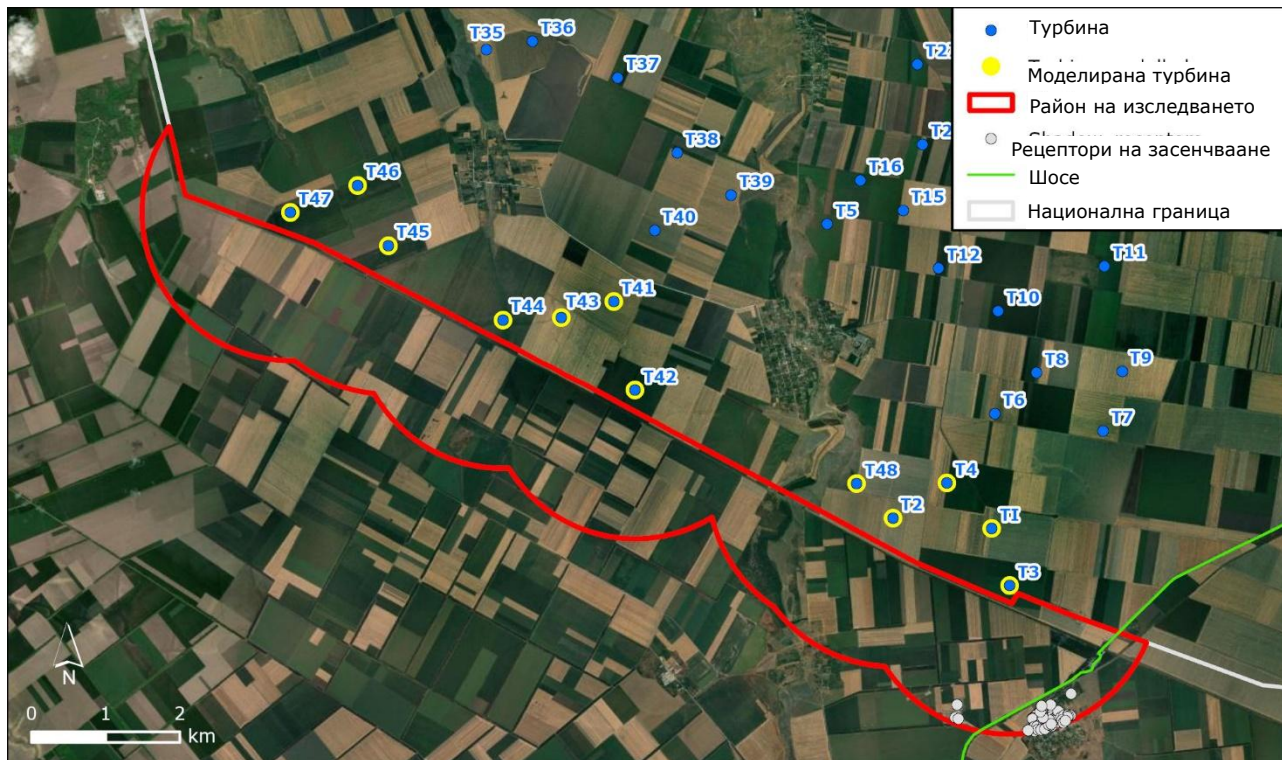


Източник: ERM 2025

Въпреки че някои международно признати стандарти, като например А.Д. Кларк (1991), предлагат да се изключи появата на периодично засенчване отвъд разстояние, равно на десет пъти диаметъра на ротора (приблизително 1700 метра в този случай), е приложен консервативен подход и е определена 2-километрова изследователска зона за картографиране на потенциални рецептори в България, за да се оценят всички възможни трансгранични въздействия.

В изследователската зона пътят, пресичащ Румъния и България, е идентифициран като рецептор и 64 потенциални рецептора за периодично засенчване са идентифицирани в компютърно проучване, използващо топографски карти и аероснимки (Фигура 3).

ФИГУРА 3 МЕСТОПОЛОЖЕНИЕ НА РЕЦЕПТОРА



Източник: ERM 2025

3. СТАНДАРТИ И ДИРЕКТИВИ

Правният статут на периодичното засенчване не е еднакъв в световен мащаб. В много страни периодичното засенчване не е обхванато от специфични разпоредби, но често оценката на потенциалните въздействия се определя от директиви.

През август 2015 г., Групата на Световната банка публикува Директивите за околна среда, здраве и безопасност (EHS) за вятърната енергия. Това са технически справочни документи, съдържащи примери за добри индустриални практики.

Дефиницията, приета в директивите за EHS, гласи, че периодичното засенчване се получава, когато слънцето преминава зад вятърната турбина и хвърля сянка. Докато лопатките на ротора се въртят, сенките преминават над една и съща точка, причинявайки ефект, наречен периодично засенчване. Периодичното засенчване може да се превърне в проблем, когато потенциално чувствителни рецептори (напр. жилищни имоти, работни места, учебни и/или здравни заведения) са разположени наблизо или имат специфична ориентация към съоръжението за вятърна енергия.

Ключовите точки, посочени в насоките, включват:

- Потенциални проблеми с периодичното засенчване е по-вероятно да възникнат на по-високи географски ширини, където слънцето е по-ниско в небето и следователно има по-дълги сенки, които ще разширят радиуса, върху който въздействието на периодичното засенчване ще се усети в потенциално значителна степен.
- Ако не е възможно да се разположат вятърни турбини там, където съседните рецептори не изпитват ефекти на периодично засенчване, се препоръчва очакваната продължителност на ефектите на засенчването, наблюдавани при чувствителен рецептор, да не надвишава 30 часа годишно и 30 минути на ден в най-засегнатите дни, въз основа на най-лошия възможен сценарий.

- Препоръчителните мерки за превенция и контрол за избягване на значителни въздействия от периодично засенчване включват подходящо разполагане на вятърните турбини, за да се избегне периодично засенчване или да се спазват ограниченията, поставени за продължителността на периодичното засенчване, както е посочено в горния параграф, или планиране на спирането на турбините в моменти, когато ограниченията за периодично засенчване са превишени.

4. ОЦЕНКА НА ПЕРИОДИЧНОТО ЗАСЕНЧВАНЕ

4.1 ПОТЕНЦИАЛНО ВЪЗДЕЙСТВИЕ

Връзката между периодичното засенчване от вятърни турбини и човешкото здраве е обект на дискусии. Някои проучвания (Harding et al., 2008; Smedley et al., 2010) предполагат потенциален риск от фотосенсибилизиращи припадъци. Доклад на правителството на Обединеното кралство от 2011 г., обаче, заключава, че честотата на периодичното засенчване е малко вероятно да представлява значителен риск за здравето.

Други източници (Cope et al., 2009; Minnesota Dept. of Health, 2009; NRC, 2007) отбелязват, че въпреки че рискът от епилепсия е нисък, все пак може да възникнат дискомфорт и стрес.

Във всеки случай, съществуват възможности за смекчаване на потенциалното въздействие, включително:

- Внимателно проектиране на обекта;
- Разполагане на вятърни турбини на поне 500 м от чувствителни рецептори;
- Премахване на турбини, за които е известно, че причиняват проблемно периодично засенчване през определени периоди и метеорологични условия;
- Засаждане на растителност или дървесни завеси, за да се „прекъсне“ линията на видимост към турбините, които причиняват периодично засенчване; и
- Монтиране на щори или паравани на прозорците, за да се избегне периодично засенчване вътре в сградите.

4.2 ОЦЕНКА НА ВЪЗДЕЙСТВИЕТО

Вероятността и продължителността на периодичните ефекти на засенчване зависят от редица фактори, включително:

- Посоката на имота спрямо турбината;
- Височината на турбината и диаметърът на ротора;
- Времето по време на деня и времето по време на годината;
- Разстоянието от турбината (колкото по-далеч е наблюдателят от турбината, толкова по-слабо изразен ще бъде ефектът);
- Посоката на вятъра (която влияе върху потенциалната ориентация на вятърната турбина); и
- Метеорологичните условия (наличието на облачна покривка, мъгла, влажност намаляват появата на периодично засенчване, защото видимостта на самата турбина е намалена).

Периодичното засенчване обикновено се случва при ясно небе, когато слънцето е ниско на хоризонта. Тъй като ъгълът на слънцето се променя през годината, различни рецептори могат да бъдат засегнати в различно време и дати.

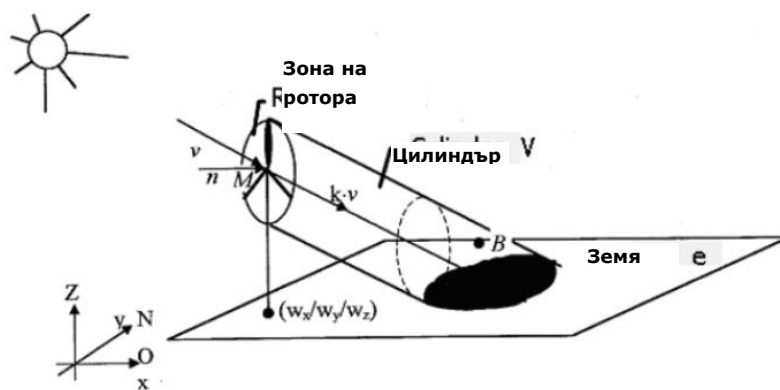
За да се оцени потенциалното въздействие, беше моделиран най-лош сценарий, приемайки, че:

- Слънцето винаги грее през светлата част на денонощието
- Турбината винаги се върти
- Равнината на ротора е винаги перпендикулярна на линията между турбината и слънцето

Този анализ е извършен с помощта на WindPro 4.00©, софтуер, широко използван във вятърната енергетика. Неговият модул за Периодично засенчване (SHADOW) изчислява колко често и кога могат да бъдат засегнати специфични рецептори. Моделът използва времева резолюция от 1 минута, което означава, че всяко периодично засенчване, предсказано за една минута, се записва като една минута периодично засенчване.

Моделът изчислява резултатите съгласно принципите, показани на следващата Фигура 4.

ФИГУРА 4 ТЕОРИЯ ЗА ПЕРИОДИЧНОТО ЗАСЕНЧВАНЕ



Всички рецептори на обекта са моделирани, като се има предвид следното:

Всички рецептори на обекта са моделирани, като се има предвид следното:

- Едноетажни сгради с периодично засенчване, изчислено на височина 1 м (прозорци на партерния етаж)
- Наклон на вятъра, зададен на 90°
- 360° видимост, представляваща консервативен сценарий, при който прозорците са обърнати във всички посоки

Изчисленията се основават на най-лошия сценарий, моделиран без параметри, характеризиращи локалните настройки и условия (напр. слънцето винаги грее през светлата част на денонощието), както и специфични за проекта характеристики.

Следните допускания бяха взети предвид при настройките за моделиране за най-лошия сценарий:

- Роторите винаги се въртят;
- Слънцето винаги грее през целия ден, от изгрев до залез слънце;
- Местната топография е получена от цифровите модели на релефа на Коперник;
- Не са взети предвид облачната покривка или други метеорологични условия, които биха могли потенциално да намалят видимостта и слънчевата светлина;
- Рецепторите са моделирани с помощта на парниковия модел;
- Не са взети предвид физически бариери.

Таблица 1 по-долу представя приетите настройки за моделиране.

ТАБЛИЦА 1 ВХОД НА МОДУЛ ЗА WINDPRO SHADOW

Входове	Най-лошият сценарий
Местоположение на вятърната турбина	Виж Фигура 2
Диаметър на ротора	170 м
Височина на хъба	155 м
Функциониране на вятърни турбини	Роторите винаги се въртят
Видимост на вятърните турбини	Ветрогенераторът ще бъде видим, ако е видим от която и да е страна на приемащия прозорец (парников режим).
Размери на етажите на прозореца	1 м височина / 1 м ширина / 1 м от партера
Облачно покритие	Не е взето под внимание
Физически бариери (напр. растителност)	Не е взето под внимание
Минималната височина на слънцето над хоризонта за влияние	3°
Стъпка на дните за изчисление	1 ден
Времева стъпка за изчисление	1 минута
Период на греене	Слънцето грее през целия ден, от изгрев до залез.
Височинен контур	Цифрови модели на релефа на Коперник
Височина на очите	1.5 м

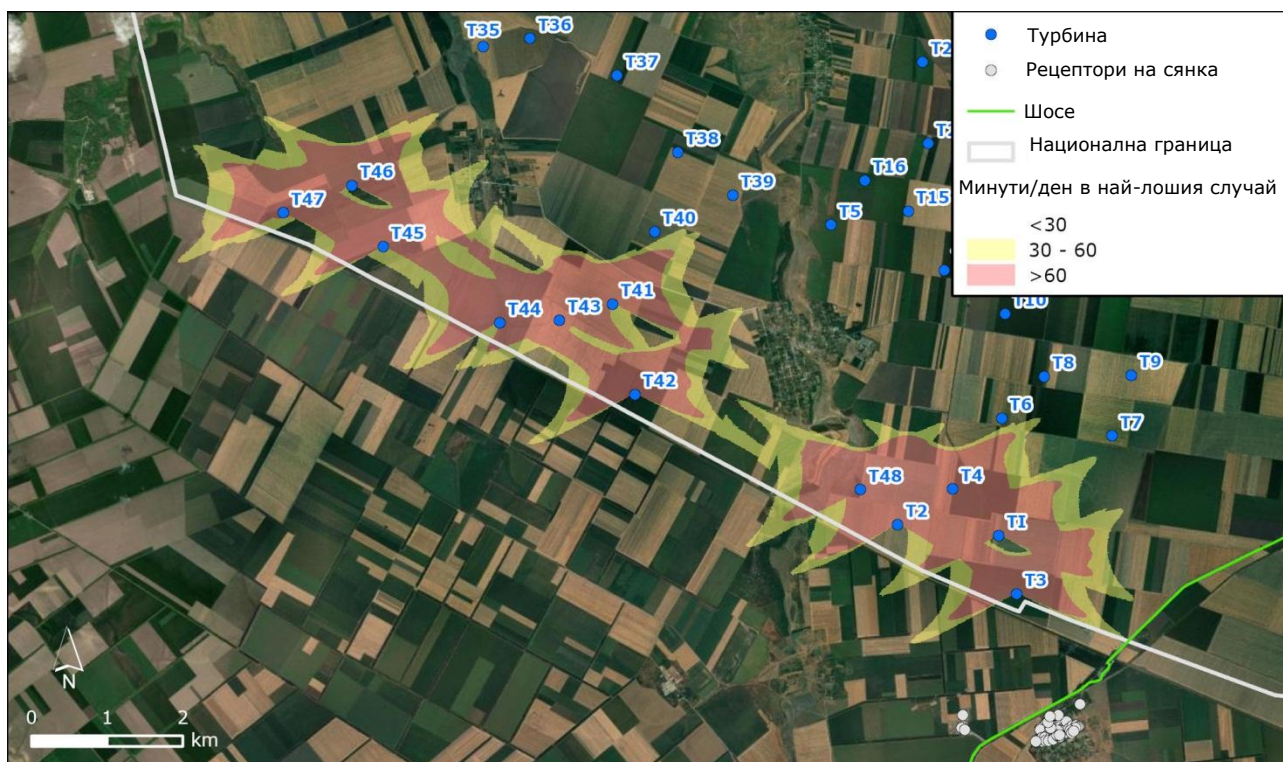
Източник: ERM 2025

4.3 РЕЗУЛТАТИ НА МОДЕЛА

Най-лошият сценарий е моделиран при много консервативни и нереалистични условия. Въпреки това, нито един от рецепторите не е надвишил праговете на IFC от 30 часа годишно и 30 минути на ден, което потвърждава съответствието с международните насоки и показва липса на въздействие поради периодично засенчване при моделираните условия (Фигура 5, Фигура 6). Освен това, оценката потвърди, че по протежение на път Е675 не се наблюдава периодично засенчване, което допълнително подкрепя незначителното въздействие на проекта върху околната инфраструктура и рецепторите.

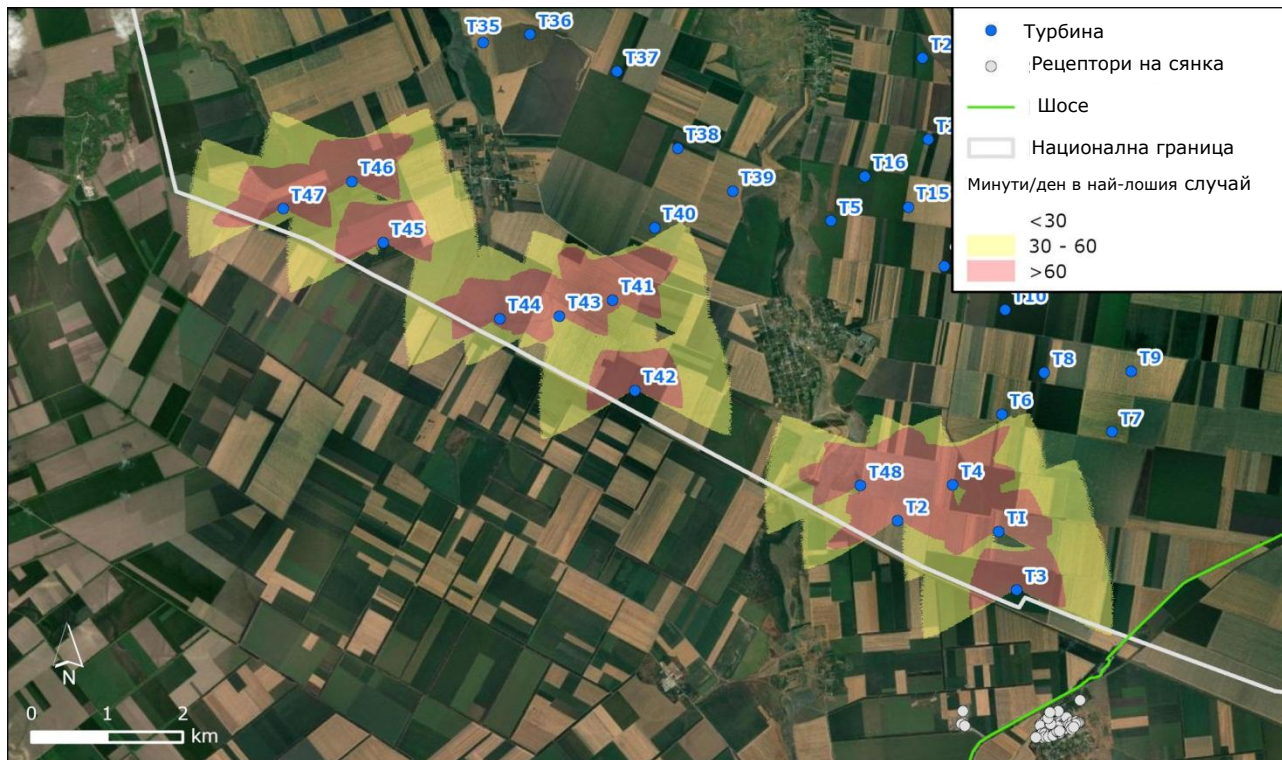
За повече подробности относно резултатите от моделирането вижте Приложение А.

ФИГУРА 5 НАЙ-ЛОШИЯТ СЛУЧАЙ, КАРТА НА ПЕРИОДИЧНОТО ЗАСЕНЧВАНЕ (ЧАСОВЕ/ГОДИНА)



Източник: ERM 2025

ФИГУРА 5 НАЙ-ЛОШИЯТ СЛУЧАЙ, КАРТА НА ПЕРИОДИЧНОТО ЗАСЕНЧВАНЕ (МИНУТИ/ДЕН)



Източник: ERM 2025

5. ЗАКЛЮЧЕНИЕ И ПРЕПОРЪКИ

Оценката на периодичното засенчване беше извършена, използвайки консервативен най-лош сценарий, приемайки се непрекъсната работа на турбината, непрекъсната слънчева светлина и пълна видимост от посоката на всички рецептори.

Въпреки нереалистичните условия, резултатите потвърждават, че нито един от моделираните рецептори – нито пътят, пресичащ Румъния и България, нито рецепторите близо до границата – не е превишил праговете на IFC от 30 часа годишно или 30 минути на ден.

Това показва пълно съответствие с международните стандарти. Незначителното въздействие, наблюдавано в изследваната зона, включително както трансграничния път, така и рецепторите, се подкрепя и от консервативния подход на моделиране, който се основаваше на най-голямата конфигурация на турбините и разширен радиус на изследване. Тези констатации потвърждават надеждността на оценката и много ниската вероятност за неблагоприятни ефекти върху околните рецептори.

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Weatheronline.com за тенденция в облачната покривка [достъпно на 02 октомври 2017 г.]



ПРИЛОЖЕНИЕ А РЕЗУЛТАТ ОТ МОДЕЛА WINDPRO



ERM ИМА НАД 160 ОФИСА В СЛЕДНИТЕ ДЪРЖАВИ И
ТЕРИТОРИИ В ЦЯЛ СВЯТ

Аржентина	Нидерландия	ERM's Италия Via San Gregorio, 38 20124 Милано Италия Т: +39 02 674401 F: +39 02 67078382 <u>www.erm.com</u>
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Белгия	Перу	
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Франция	Сенегал	
Германия	Сингапур	
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Гвиана	Южна Корея	
Хонконг	Испания	
Индия	Швейцария	
Индонезия	Тайван	
Ирландия	Танзания	
Италия	Тайланд	
Япония	ОАЕ	
Казахстан	Великобритания	
Кения	САЩ	
Малайзия	Виетнам	
Мексико		
Мозамбик		

Долуподписната, Милена Николова Предуц, оторизиран преводач за български и английски език, съгласно разрешение № 32807/2013, издадено от Министерството на Правосъдието от Румъния, удостоверявам точността на превода, извършен от Румънски език на Български език, и че представеният текст е преведен изцяло, без пропуски, и че при превода на документа не са били променени съдържанието и смисъла.

ОТОРИЗИРАН ПРЕВОДАЧ



SHADOW – Основен резултат

Изчисление: WC резултати

Предпоставки за изчисления на засенчване

Максимално разстояние за въздействие

Изчислява се само когато повече от 20% от слънцето е покрито от перката

Вижте таблицата WTG (Ветрогенератори)

Минимална височина на слънцето над хоризонта за въздействие

3 °

Стъпка в дни за изчисление

1 дни

Времева стъпка за изчисление

1 минути

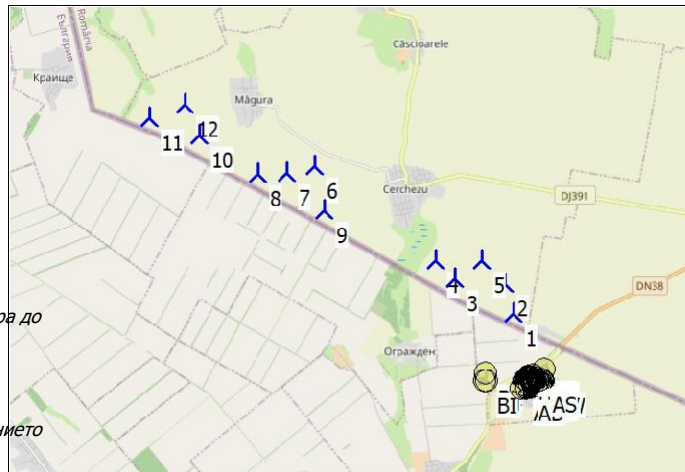
Изчислените времена са „най-лошият случай“, даден от следните предпоставки:

Слънцето грее през целия ден, от изгрев до залез

Равнината на ротора е винаги перпендикулярна на линията от ветрогенератора до слънцето

Ветрогенераторът винаги работи

Изчислението на ZVI (Зони на визуално въздействие) се извършва преди изчислението на засенчването интермитентно, така че нито един видим ветрогенератор да не допринася за изчислените стойности на засенчване.



Един WTG ще бъде видим, ако е видим от която и да е част на прозореца на приемника.

Изчислението на ZVI

се базира на следните предпоставки:

Използвани профили на котата: Обект на данни за мрежата на котата:

Gap_analysis_EMDGrid_1.wpg (3)

Разделителна способност на

мрежата на приемника: 1.0 м

(C) Сътрудници OpenStreetMap, Data OpenStreetMap и сътрудници, ODbL

Скала 1:200,000

Нов WTG Приемник на засенчване

Ветрогенератори (WTG)

Географска дължина	Географска ширина	Необработени данни / Z	Тип WTG	Вали	Произведен ден	Тип генератор	Мощност, номинална [kW]	Диаметър на ротора [m]	Височина на хъба [m]	Данни за засенчването	Изчислена дистанция [m]	RPM [RPM]				
1 28.133019° E	43.794522° N	179.0	VESTAS	V170-6.4	6400	170.0	!O!	hub: 155....	Yes	VESTAS	V170-6.4-6,4006,400	170.0	155.0	2,042	-	
2 28.130192° E	43.801473° N	173.2	VESTAS	V170-6.4	6400	170.0	!O!	hub: 155....	Yes	VESTAS	V170-6.4-6,4006,400	170.0	155.0	2,042	-	
3 28.113598° E	43.802906° N	171.0	VESTAS	V170-6.4	6400	170.0	!O!	hub: 155....	Yes	VESTAS	V170-6.4-6,4006,400	170.0	155.0	2,042	-	
4 28.107610° E	43.807142° N	154.5	VESTAS	V170-6.4	6400	170.0	!O!	hub: 155....	Yes	VESTAS	V170-6.4-6,4006,400	170.0	155.0	2,042	-	
5 28.122751° E	43.807066° N	177.6	VESTAS	V170-6.4	6400	170.0	!O!	hub: 155....	Yes	VESTAS	V170-6.4-6,4006,400	170.0	155.0	2,042	-	
6 28.067256° E	43.829594° N	186.9	VESTAS	V170-6.4	6400	170.0	!O!	hub: 155....	Yes	VESTAS	V170-6.4-6,4006,400	170.0	155.0	2,042	-	
7 28.058492° E	43.827758° N	178.0	VESTAS	V170-6.4	6400	170.0	!O!	hub: 155....	Yes	VESTAS	V170-6.4-6,4006,400	170.0	155.0	2,042	-	
8 28.048639° E	43.827569° N	159.7	VESTAS	V170-6.4	6400	170.0	!O!	hub: 155....	Yes	VESTAS	V170-6.4-6,4006,400	170.0	155.0	2,042	-	
9 28.070682° E	43.818820° N	187.4	VESTAS	V170-6.4	6400	170.0	!O!	hub: 155....	Yes	VESTAS	V170-6.4-6,4006,400	170.0	155.0	2,042	-	
10 28.029607° E	43.836746° N	186.8	VESTAS	V170-6.4	6400	170.0	!O!	hub: 155....	Yes	VESTAS	V170-6.4-6,4006,400	170.0	155.0	2,042	-	
11 28.013246° E	43.840935° N	197.4	VESTAS	V170-6.4	6400	170.0	!O!	hub: 155....	Yes	VESTAS	V170-6.4-6,4006,400	170.0	155.0	2,042	-	
12 28.024620° E	43.844093° N	188.5	VESTAS	V170-6.4	6400	170.0	!O!	hub: 155....	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-

Receptor umbră -Intrare

№ Име	Геогр.дължина	Геогр.ширина	Ширина Z	Височина a	Кота на a.g.l.	Наклон на прозореца [°]	Режим на управление	Височина на очите (ZVI) a.g.l. [m]
A Rec. 64	28.138600° E	43.778800° N	163.0	1.0	1.0	90.0	„Режим парник“	2.0
B Rec. 01	28.138671° E	43.778592° N	162.7	1.0	1.0	90.0	„Режим парник“	2.0
C Rec. 02	28.138528° E	43.778944° N	163.0	1.0	1.0	90.0	„Режим парник“	2.0
D Rec. 03	28.138421° E	43.779152° N	163.0	1.0	1.0	90.0	„Режим парник“	2.0
E Rec. 04	28.138215° E	43.779434° N	164.4	1.0	1.0	90.0	„Режим парник“	2.0
F Rec. 05	28.138002° E	43.779337° N	164.7	1.0	1.0	90.0	„Режим парник“	2.0
G Rec. 06	28.137460° E	43.778946° N	164.1	1.0	1.0	90.0	„Режим парник“	2.0
H Rec. 07	28.137132° E	43.778697° N	164.2	1.0	1.0	90.0	„Режим парник“	2.0
I Rec. 08	28.136605° E	43.778441° N	164.9	1.0	1.0	90.0	„Режим парник“	2.0
J Rec. 09	28.136516° E	43.778307° N	164.9	1.0	1.0	90.0	„Режим парник“	2.0

K Rec.	10	28.139023°	E 43.778786°	N 161.8	1.0	1.0	1.0	1.0	90.0	„Режим парник“	2.0
L Rec.	11	28.139398°	E 43.778900°	N 162.0	1.0	1.0	1.0	1.0	90.0	„Режим парник“	2.0
M Rec.	12	28.139659°	E 43.778951°	N 162.0	1.0	1.0	1.0	1.0	90.0	„Режим парник“	2.0
N Rec.	13	28.139884°	E 43.779003°	N 162.0	1.0	1.0	1.0	1.0	90.0	„Режим парник“	2.0
O Rec.	14	28.140046°	E 43.779046°	N 161.8	1.0	1.0	1.0	1.0	90.0	„Режим парник“	2.0
P Rec.	15	28.139764°	E 43.778572°	N 161.7	1.0	1.0	1.0	1.0	90.0	„Режим парник“	2.0
Q Rec.	16	28.140233°	E 43.778396°	N 161.0	1.0	1.0	1.0	1.0	90.0	„Режим парник“	2.0
R Rec.	17	28.140608°	E 43.778500°	N 161.6	1.0	1.0	1.0	1.0	90.0	„Режим парник“	2.0
S Rec.	18	28.140844°	E 43.778534°	N 162.1	1.0	1.0	1.0	1.0	90.0	„Режим парник“	2.0
T Rec.	19	28.138949°	E 43.778175°	N 162.3	1.0	1.0	1.0	1.0	90.0	„Режим парник“	2.0
U Rec.	20	28.139045°	E 43.778021°	N 162.0	1.0	1.0	1.0	1.0	90.0	„Режим парник“	2.0

Продължава на следващата страница...

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01/10/2025 15:36 / 1 windPRO



Subsemnata, **PREDUȚ Milena Nikolova**, interpret și traducător autorizat pentru limbile străine Bulgară și Engleză în temeiul autorizației nr. 32807/2013, eliberată de Ministerul Justiției din România, certific exactitatea traducerii efectuate din limba **Română** în limba **Bulgară**, că textul prezentat a fost tradus complet, fără omisiuni, și că, prin traducere, înscrisului nu i-au fost denaturate conținutul și sensul.

Долуподписната, **Милена Николова Предуц**, оторизиран преводач за български и английски език, съгласно разрешение № 32807/2013, издадено от Министерството на Правосъдието от Румъния, удостоверявам точността на превода, извършен от **Румънски език** на **Български език**, и че представеният текст е преведен изцяло, без пропуски, и че при превода на документа не са били променени съдържанието и смисъла.

ОТОРИЗИРАН ПРЕВОДАЧ



SHADOW - Main Result

Calculation: WC results

Assumptions for shadow calculations

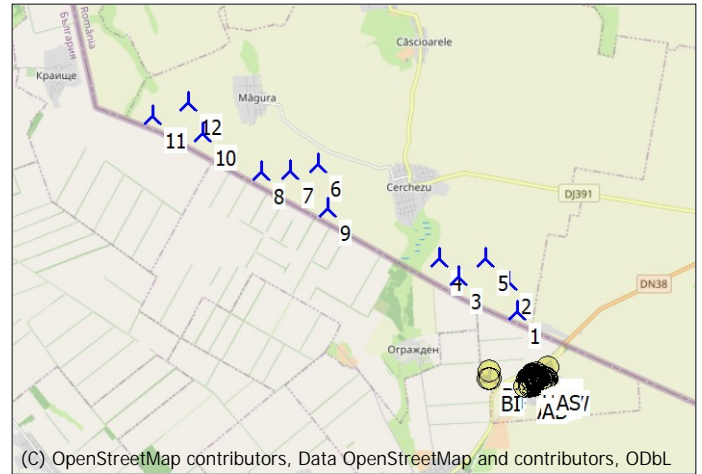
Maximum distance for influence
Calculate only when more than 20 % of sun is covered by the blade
Please look in WTG table

Minimum sun height over horizon for influence 3 °
Day step for calculation 1 days
Time step for calculation 1 minutes

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

A ZVI (Zones of Visual Influence) calculation is performed before flicker calculation so non visible WTG do not contribute to calculated flicker values. A WTG will be visible if it is visible from any part of the receiver window. The ZVI calculation is based on the following assumptions:
Height contours used: Elevation Grid Data Object: Gap_analysis_EMDGrid_1.wpg (3)
Receptor grid resolution: 1.0 m

All coordinates are in
Geo [deg]-WGS84



Scale 1:200,000
New WTG Shadow receptor

WTGs

Longitude	Latitude	Z	Row data/Description	WTG type		Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Shadow data		
				Valid	Manufact.				Type-generator	Calculation distance [m]	RPM [RPM]
1	28.133019° E	43.794522° N	179.0 VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
2	28.130192° E	43.801473° N	173.2 VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
3	28.113598° E	43.802906° N	171.0 VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
4	28.107610° E	43.807142° N	154.5 VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
5	28.122751° E	43.807066° N	177.6 VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
6	28.067256° E	43.829594° N	186.9 VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
7	28.058492° E	43.827758° N	178.0 VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
8	28.048639° E	43.827569° N	159.7 VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
9	28.070682° E	43.818820° N	187.4 VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
10	28.029607° E	43.836746° N	186.8 VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
11	28.013246° E	43.840935° N	197.4 VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-
12	28.024620° E	43.844093° N	188.5 VESTAS V170-6.4 6400 170.0 !O! hub: 155.... Yes	Yes	VESTAS	V170-6.4-6,400	6,400	170.0	155.0	2,042	-

Shadow receptor-Input

No.	Name	Longitude	Latitude	Z	Width	Height	Elevation a.g.l.	Slope of window	Direction mode	Eye height (ZVI) a.g.l.
				[m]	[m]	[m]	[m]	[°]	[m]	
A Rec.	64	28.138600° E	43.778800° N	163.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
B Rec.	01	28.138671° E	43.778592° N	162.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
C Rec.	02	28.138528° E	43.778944° N	163.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
D Rec.	03	28.138421° E	43.779152° N	163.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
E Rec.	04	28.138215° E	43.779434° N	164.4	1.0	1.0	1.0	90.0	"Green house mode"	2.0
F Rec.	05	28.138002° E	43.779337° N	164.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
G Rec.	06	28.137460° E	43.778946° N	164.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
H Rec.	07	28.137132° E	43.778697° N	164.2	1.0	1.0	1.0	90.0	"Green house mode"	2.0
I Rec.	08	28.136605° E	43.778441° N	164.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
J Rec.	09	28.136516° E	43.778307° N	164.9	1.0	1.0	1.0	90.0	"Green house mode"	2.0
K Rec.	10	28.139023° E	43.778786° N	161.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
L Rec.	11	28.139398° E	43.778900° N	162.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
M Rec.	12	28.139659° E	43.778951° N	162.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
N Rec.	13	28.139884° E	43.779003° N	162.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
O Rec.	14	28.140046° E	43.779046° N	161.8	1.0	1.0	1.0	90.0	"Green house mode"	2.0
P Rec.	15	28.139764° E	43.778572° N	161.7	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Q Rec.	16	28.140233° E	43.778396° N	161.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
R Rec.	17	28.140608° E	43.778500° N	161.6	1.0	1.0	1.0	90.0	"Green house mode"	2.0
S Rec.	18	28.140844° E	43.778534° N	162.1	1.0	1.0	1.0	90.0	"Green house mode"	2.0
T Rec.	19	28.138949° E	43.778175° N	162.3	1.0	1.0	1.0	90.0	"Green house mode"	2.0
U Rec.	20	28.139045° E	43.778021° N	162.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0

To be continued on next page...

SHADOW - Main Result

Calculation: WC results

...continued from previous page

No.	Name	Longitude	Latitude	Z	Width	Height	Elevation	Slope of	Direction mode	Eye height
				[m]	[m]	[m]	a.g.l.	window		(ZVI) a.g.l.
							[m]	[°]		[m]
V Rec. 21	28.139143° E	43.777912° N	162.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
W Rec. 22	28.139178° E	43.777821° N	162.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
X Rec. 23	28.137745° E	43.777593° N	163.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Y Rec. 24	28.137890° E	43.777402° N	162.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
Z Rec. 25	28.136607° E	43.777226° N	163.8	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AA Rec. 26	28.136802° E	43.777026° N	164.1	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AB Rec. 27	28.136899° E	43.776890° N	164.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AC Rec. 28	28.137092° E	43.777266° N	163.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AD Rec. 29	28.136921° E	43.777394° N	164.4	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AE Rec. 30	28.137331° E	43.777390° N	163.4	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AF Rec. 31	28.137398° E	43.776975° N	163.3	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AG Rec. 32	28.138352° E	43.777478° N	162.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AH Rec. 33	28.138495° E	43.777189° N	162.6	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AI Rec. 34	28.137945° E	43.776987° N	162.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AJ Rec. 35	28.138605° E	43.777098° N	162.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AK Rec. 36	28.140546° E	43.777862° N	161.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AL Rec. 37	28.140003° E	43.778092° N	161.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AM Rec. 38	28.139478° E	43.777926° N	161.5	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AN Rec. 39	28.139384° E	43.778170° N	161.7	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AO Rec. 40	28.140883° E	43.779227° N	160.8	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AP Rec. 41	28.135781° E	43.776919° N	162.7	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AQ Rec. 42	28.139580° E	43.780014° N	162.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AR Rec. 43	28.141265° E	43.778422° N	160.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AS Rec. 44	28.141804° E	43.778687° N	160.1	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AT Rec. 45	28.142452° E	43.778779° N	159.4	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AU Rec. 46	28.142872° E	43.778649° N	157.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AV Rec. 47	28.142622° E	43.778552° N	159.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AW Rec. 48	28.142359° E	43.778474° N	159.2	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AX Rec. 49	28.141521° E	43.778167° N	159.8	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AY Rec. 50	28.141751° E	43.777850° N	159.3	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
AZ Rec. 51	28.142079° E	43.778081° N	159.5	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BA Rec. 52	28.139755° E	43.777419° N	160.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BB Rec. 53	28.139422° E	43.777567° N	161.1	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BC Rec. 54	28.139262° E	43.777640° N	161.7	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BD Rec. 55	28.139660° E	43.777655° N	161.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BE Rec. 56	28.138120° E	43.778390° N	163.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BF Rec. 57	28.138234° E	43.778506° N	162.6	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BG Rec. 58	28.137862° E	43.779203° N	164.7	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BH Rec. 59	28.138148° E	43.779858° N	163.0	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BI Rec. 60	28.123574° E	43.778651° N	172.9	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BJ Rec. 61	28.124154° E	43.778429° N	173.3	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BK Rec. 62	28.123888° E	43.780161° N	172.6	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0
BL Rec. 63	28.143109° E	43.781303° N	163.1	1.0	1.0	1.0	1.0	90.0	"Green house mode"	2.0

Calculation Results

Shadow receptor

No.	Name	Shadow, worst case		
		Shadow hours per year	Shadow days per year	Max shadow hours per day
		[h/year]	[days/year]	[h/day]
A Rec. 64		0:00	0	0:00
B Rec. 01		0:00	0	0:00
C Rec. 02		0:00	0	0:00
D Rec. 03		0:00	0	0:00
E Rec. 04		0:00	0	0:00
F Rec. 05		0:00	0	0:00
G Rec. 06		0:00	0	0:00
H Rec. 07		0:00	0	0:00
I Rec. 08		0:00	0	0:00
J Rec. 09		0:00	0	0:00
K Rec. 10		0:00	0	0:00
L Rec. 11		0:00	0	0:00
M Rec. 12		0:00	0	0:00
N Rec. 13		0:00	0	0:00

To be continued on next page...

SHADOW - Main Result

Calculation: WC results

...continued from previous page

No.	Name	Shadow, worst case		
		Shadow hours per year [h/year]	Shadow days per year [days/year]	Max shadow hours per day [h/day]
O Rec.	14	0:00	0	0:00
P Rec.	15	0:00	0	0:00
Q Rec.	16	0:00	0	0:00
R Rec.	17	0:00	0	0:00
S Rec.	18	0:00	0	0:00
T Rec.	19	0:00	0	0:00
U Rec.	20	0:00	0	0:00
V Rec.	21	0:00	0	0:00
W Rec.	22	0:00	0	0:00
X Rec.	23	0:00	0	0:00
Y Rec.	24	0:00	0	0:00
Z Rec.	25	0:00	0	0:00
AA Rec.	26	0:00	0	0:00
AB Rec.	27	0:00	0	0:00
AC Rec.	28	0:00	0	0:00
AD Rec.	29	0:00	0	0:00
AE Rec.	30	0:00	0	0:00
AF Rec.	31	0:00	0	0:00
AG Rec.	32	0:00	0	0:00
AH Rec.	33	0:00	0	0:00
AI Rec.	34	0:00	0	0:00
AJ Rec.	35	0:00	0	0:00
AK Rec.	36	0:00	0	0:00
AL Rec.	37	0:00	0	0:00
AM Rec.	38	0:00	0	0:00
AN Rec.	39	0:00	0	0:00
AO Rec.	40	0:00	0	0:00
AP Rec.	41	0:00	0	0:00
AQ Rec.	42	0:00	0	0:00
AR Rec.	43	0:00	0	0:00
AS Rec.	44	0:00	0	0:00
AT Rec.	45	0:00	0	0:00
AU Rec.	46	0:00	0	0:00
AV Rec.	47	0:00	0	0:00
AW Rec.	48	0:00	0	0:00
AX Rec.	49	0:00	0	0:00
AY Rec.	50	0:00	0	0:00
AZ Rec.	51	0:00	0	0:00
BA Rec.	52	0:00	0	0:00
BB Rec.	53	0:00	0	0:00
BC Rec.	54	0:00	0	0:00
BD Rec.	55	0:00	0	0:00
BE Rec.	56	0:00	0	0:00
BF Rec.	57	0:00	0	0:00
BG Rec.	58	0:00	0	0:00
BH Rec.	59	0:00	0	0:00
BI Rec.	60	0:00	0	0:00
BJ Rec.	61	0:00	0	0:00
BK Rec.	62	0:00	0	0:00
BL Rec.	63	0:00	0	0:00

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

No.	Name	Worst case [h/year]
1	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (13)	0:00
2	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (14)	0:00
3	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (15)	0:00
4	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (16)	0:00
5	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (17)	0:00
6	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (18)	0:00
7	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (19)	0:00
8	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (20)	0:00
9	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (21)	0:00

To be continued on next page...

SHADOW - Main Result

Calculation: WC results

...continued from previous page

No.	Name	Worst case [h/year]
10	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (22)	0:00
11	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (23)	0:00
12	VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (24)	0:00

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

SHADOW - Calendar

Calculation: WC results Shadow receptor: A - Rec. 64

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:28 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
6	07:42 16:45	07:20 17:24	06:38 18:02	06:42 19:40	05:55 20:15	05:27 20:46	05:32 20:53	06:01 20:26	06:36 19:37	07:10 18:42	06:49 16:53	07:26 16:31
7	07:42 16:46	07:19 17:26	06:36 18:03	06:41 19:41	05:53 20:17	05:27 20:47	05:33 20:52	06:02 20:25	06:37 19:35	07:11 18:40	06:51 16:52	07:27 16:31
8	07:42 16:47	07:18 17:27	06:35 18:04	06:39 19:42	05:52 20:18	05:26 20:48	05:33 20:52	06:03 20:23	06:38 19:33	07:13 18:38	06:52 16:51	07:28 16:31
9	07:42 16:48	07:17 17:29	06:33 18:06	06:37 19:43	05:51 20:19	05:26 20:48	05:34 20:52	06:04 20:22	06:39 19:31	07:14 18:37	06:53 16:50	07:29 16:31
10	07:41 16:50	07:15 17:30	06:31 18:07	06:35 19:44	05:50 20:20	05:26 20:49	05:35 20:51	06:05 20:21	06:40 19:29	07:15 18:35	06:55 16:49	07:30 16:31
11	07:41 16:51	07:14 17:31	06:29 18:08	06:34 19:46	05:48 20:21	05:26 20:49	05:36 20:51	06:07 20:19	06:42 19:28	07:16 18:33	06:56 16:48	07:31 16:31
12	07:41 16:52	07:13 17:33	06:27 18:09	06:32 19:47	05:47 20:22	05:26 20:50	05:36 20:50	06:08 20:18	06:43 19:26	07:17 18:31	06:57 16:46	07:32 16:31
13	07:40 16:53	07:11 17:34	06:26 18:11	06:30 19:48	05:46 20:23	05:25 20:50	05:37 20:50	06:09 20:16	06:44 19:24	07:19 18:30	06:58 16:45	07:33 16:31
14	07:40 16:54	07:10 17:35	06:24 18:12	06:29 19:49	05:45 20:25	05:25 20:51	05:38 20:49	06:10 20:15	06:45 19:22	07:20 18:28	07:00 16:44	07:33 16:31
15	07:39 16:55	07:08 17:37	06:22 18:13	06:27 19:50	05:44 20:26	05:25 20:51	05:39 20:48	06:11 20:13	06:46 19:20	07:21 18:26	07:01 16:43	07:34 16:31
16	07:39 16:57	07:07 17:38	06:20 18:14	06:25 19:52	05:43 20:27	05:25 20:52	05:40 20:48	06:12 20:12	06:47 19:18	07:22 18:25	07:02 16:42	07:35 16:31
17	07:38 16:58	07:05 17:39	06:19 18:15	06:24 19:53	05:42 20:28	05:25 20:52	05:41 20:47	06:13 20:10	06:48 19:16	07:24 18:23	07:04 16:41	07:36 16:32
18	07:38 16:59	07:04 17:41	06:17 18:17	06:22 19:54	05:40 20:29	05:25 20:53	05:42 20:46	06:14 20:09	06:49 19:15	07:25 18:21	07:05 16:41	07:36 16:32
19	07:37 17:00	07:02 17:42	06:15 18:18	06:20 19:55	05:39 20:30	05:25 20:53	05:42 20:45	06:16 20:07	06:51 19:13	07:26 18:20	07:06 16:40	07:37 16:32
20	07:37 17:02	07:01 17:43	06:13 18:19	06:19 19:56	05:39 20:31	05:25 20:53	05:43 20:45	06:17 20:06	06:52 19:11	07:27 18:18	07:08 16:39	07:38 16:33
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: B - Rec. 01

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: C - Rec. 02

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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SHADOW - Calendar

Calculation: WC results Shadow receptor: D - Rec. 03

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
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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: WC results Shadow receptor: E - Rec. 04

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: F - Rec. 05

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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SHADOW - Calendar

Calculation: WC results Shadow receptor: G - Rec. 06

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: H - Rec. 07

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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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: WC results Shadow receptor: I - Rec. 08

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

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27	07:31 17:11	06:50 17:53	06:00 18:28	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:36 17:07	07:16 16:34	07:41 16:37
28	07:30 17:12	06:48 17:54	05:59 18:29	06:06 20:06	05:32 20:39	05:28 20:54	05:51 20:37	06:26 19:52	07:01 18:56	07:37 17:06	07:17 16:34	07:41 16:37
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31	07:27 17:16	06:50 17:51	06:00 18:27	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:36 17:07	07:16 16:34	07:41 16:37
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: J - Rec. 09

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:33 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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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: WC results Shadow receptor: K - Rec. 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	July	August	September	October	November	December
1	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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SHADOW - Calendar

Calculation: WC results Shadow receptor: L - Rec. 11

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

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16	07:39 16:57	07:07 17:38	06:20 18:14	06:25 19:52	05:43 20:27	05:25 20:52	05:40 20:48	06:12 20:12	06:47 19:18	07:22 18:25	07:02 16:42	07:35 16:31
17	07:38 16:58	07:05 17:39	06:19 18:15	06:24 19:53	05:42 20:28	05:25 20:52	05:41 20:47	06:13 20:10	06:48 19:16	07:24 18:23	07:04 16:41	07:36 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: M - Rec. 12

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: N - Rec. 13

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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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: WC results Shadow receptor: O - Rec. 14

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

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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: P - Rec. 15

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: Q - Rec. 16

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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30	07:28 17:15	06:51 17:51	06:02 18:26	06:09 20:04	05:33 20:37	05:27 20:54	05:49 20:39	06:23 19:56	06:58 19:00	07:39 17:09	07:15 16:35	07:41 16:36
31	07:27 17:16	06:50 17:52	06:00 18:27	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:40 17:07	07:16 16:34	07:41 16:36
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: R - Rec. 17

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:28 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
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Total, worst case												

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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: WC results Shadow receptor: S - Rec. 18

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

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SHADOW - Calendar

Calculation: WC results Shadow receptor: T - Rec. 19

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

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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: U - Rec. 20
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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: V - Rec. 21

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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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: WC results Shadow receptor: W - Rec. 22

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

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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: X - Rec. 23

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: Y - Rec. 24

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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SHADOW - Calendar

Calculation: WC results Shadow receptor: Z - Rec. 25

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AA - Rec. 26

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AB - Rec. 27

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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27	07:31 17:11	06:50 17:53	06:00 18:28	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	06:36 17:07	07:16 16:34	07:41 16:37
28	07:30 17:12	06:48 17:54	05:59 18:29	06:06 20:06	05:32 20:39	05:28 20:54	05:51 20:37	06:26 19:52	07:01 18:56	06:37 17:06	07:17 16:34	07:41 16:37
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31	07:27 17:16	06:50 17:52	06:00 18:27	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	06:36 17:07	07:16 16:34	07:41 16:37
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AC - Rec. 28

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:33 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:28 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
6	07:42 16:45	07:20 17:24	06:38 18:02	06:42 19:40	05:55 20:15	05:27 20:46	05:32 20:53	06:01 20:26	06:36 19:37	07:10 18:42	06:49 16:53	07:26 16:31
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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: WC results Shadow receptor: AD - Rec. 29

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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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: WC results Shadow receptor: AE - Rec. 30

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
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16	07:39 16:57	07:07 17:38	06:20 18:14	06:25 19:52	05:43 20:27	05:25 20:52	05:40 20:48	06:12 20:12	06:47 19:18	07:22 18:25	07:02 16:42	07:35 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AF - Rec. 31

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:33 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AG - Rec. 32

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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24	07:34 17:07	06:55 17:49	06:06 18:24	06:12 20:01	05:35 20:35	05:26 20:54	05:47 20:41	06:21 19:59	06:56 19:04	07:32 18:12	07:13 16:36	07:40 16:35
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Total, worst case												

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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: WC results Shadow receptor: AH - Rec. 33

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
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AI - Rec. 34

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AJ - Rec. 35

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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30	07:28 17:15	06:51 17:51	06:02 18:26	06:09 20:04	05:33 20:37	05:27 20:54	05:49 20:39	06:23 19:56	06:59 19:00	07:35 17:09	07:15 16:35	07:41 16:36
31	07:27 17:16	06:50 17:52	06:00 18:27	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	07:36 17:07	07:16 16:34	07:41 16:37
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AK - Rec. 36

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:28 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
6	07:42 16:45	07:20 17:24	06:38 18:02	06:42 19:40	05:55 20:15	05:27 20:46	05:32 20:53	06:01 20:26	06:36 19:37	07:10 18:42	06:49 16:53	07:26 16:31
7	07:42 16:46	07:19 17:26	06:36 18:03	06:41 19:41	05:53 20:17	05:27 20:47	05:33 20:52	06:02 20:25	06:37 19:35	07:11 18:40	06:51 16:52	07:27 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AL - Rec. 37

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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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: WC results Shadow receptor: AM - Rec. 38

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
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2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AN - Rec. 39

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AO - Rec. 40

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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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: WC results Shadow receptor: AP - Rec. 41
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
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AQ - Rec. 42

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AR - Rec. 43

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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SHADOW - Calendar

Calculation: WC results Shadow receptor: AS - Rec. 44

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AT - Rec. 45

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AU - Rec. 46

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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26	07:32 17:09	06:51 17:51	06:02 18:26	06:09 20:04	05:33 20:37	05:27 20:54	05:49 20:39	06:23 19:56	06:58 19:00	07:35 17:09	07:15 16:35	07:40 16:36
27	07:31 17:11	06:50 17:53	06:00 18:28	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	06:36 17:07	07:16 16:34	07:41 16:36
28	07:30 17:12	06:48 17:54	05:59 18:29	06:06 20:06	05:32 20:39	05:28 20:54	05:51 20:37	06:26 19:52	07:01 18:56	06:37 17:06	07:17 16:34	07:41 16:37
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31	07:27 17:16	06:50 17:52	06:00 18:28	06:08 20:05	05:33 20:38	05:27 20:54	05:50 20:38	06:25 19:54	07:00 18:58	06:36 17:07	07:16 16:34	07:41 16:36
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AV - Rec. 47

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AW - Rec. 48

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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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: WC results Shadow receptor: AX - Rec. 49

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
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16	07:39 16:57	07:07 17:38	06:20 18:14	06:25 19:52	05:43 20:27	05:25 20:52	05:40 20:48	06:12 20:12	06:47 19:18	07:22 18:25	07:02 16:42	07:35 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Total, worst case												

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: WC results Shadow receptor: AY - Rec. 50

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: AZ - Rec. 51
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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: BA - Rec. 52

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: BB - Rec. 53

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: BC - Rec. 54

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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30	07:28 17:15	06:51 17:51	06:02 18:26	06:09 20:04	05:33 20:37	05:27 20:54	05:49 20:39	06:23 19:56	06:59 19:00	07:35 17:09	07:15 16:35	07:41 16:36
31	07:27 17:16	06:50 17:50	06:00 18:26	06:08 20:04	05:33 20:37	05:27 20:54	05:50 20:39	06:25 19:56	07:00 19:00	07:36 17:09	07:16 16:35	07:41 16:36
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: BD - Rec. 55

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:28 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
6	07:42 16:45	07:20 17:24	06:38 18:02	06:42 19:40	05:55 20:15	05:27 20:46	05:32 20:53	06:01 20:26	06:36 19:37	07:10 18:42	06:49 16:53	07:26 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: BE - Rec. 56

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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SHADOW - Calendar

Calculation: WC results Shadow receptor: BF - Rec. 57

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
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20	07:37 17:02	07:01 17:43	06:13 18:19	06:19 19:56	05:39 20:31	05:25 20:53	05:43 20:45	06:17 20:06	06:52 19:11	07:27 18:18	07:08 16:39	07:38 16:33
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: BG - Rec. 58

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: BH - Rec. 59

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
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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: WC results Shadow receptor: BI - Rec. 60
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	07:42 16:41	07:26 17:18	06:47 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: BJ - Rec. 61

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	07:42 16:41	07:26 17:18	06:47 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:06 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:33 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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: WC results Shadow receptor: BK - Rec. 62

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	07:42 16:41	07:26 17:18	06:47 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
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Total, worst case												

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SHADOW - Calendar

Calculation: WC results Shadow receptor: BL - Rec. 63

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

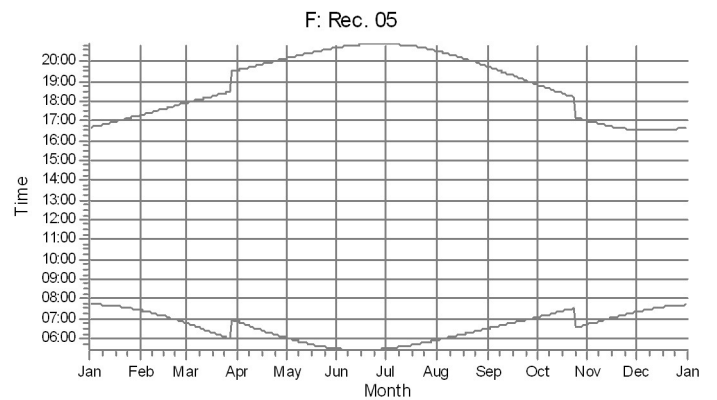
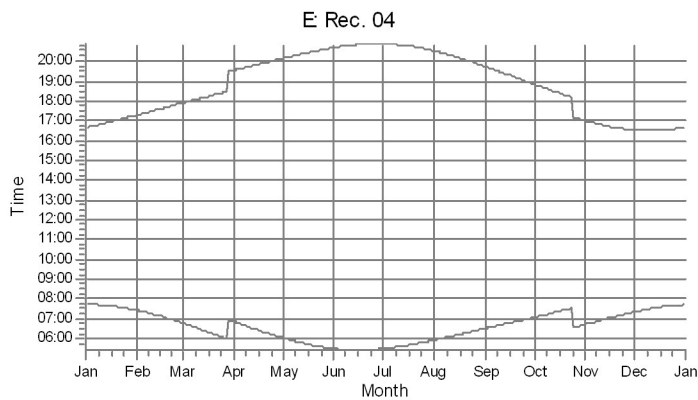
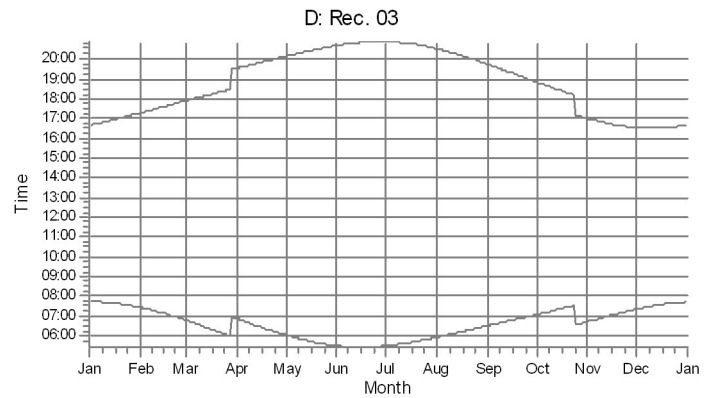
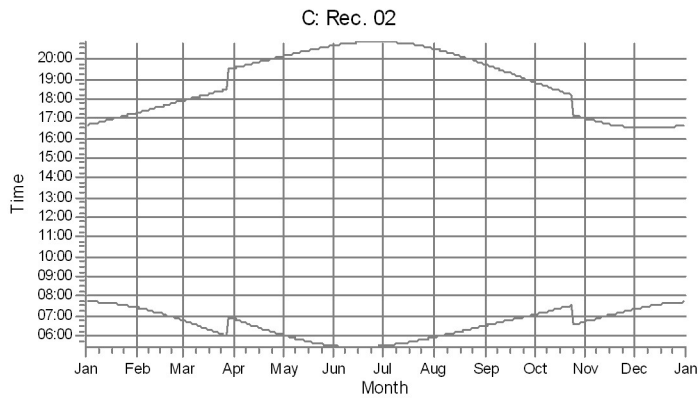
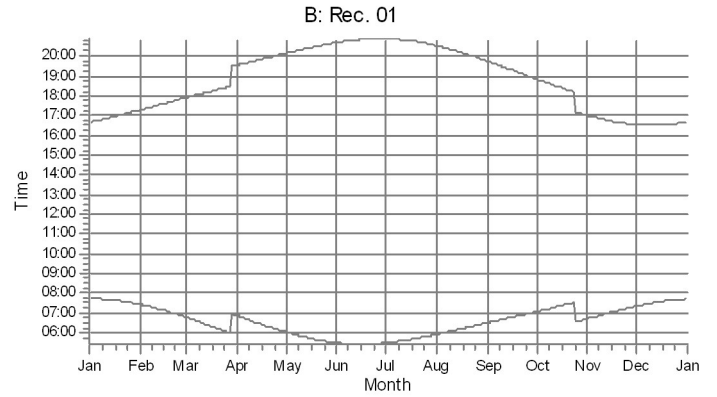
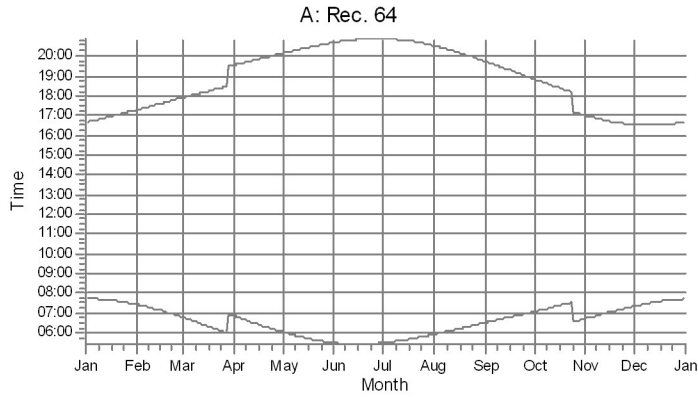
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2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:21 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:27 20:45	05:31 20:53	06:00 20:27	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
6	07:42 16:45	07:20 17:24	06:38 18:02	06:42 19:40	05:55 20:15	05:27 20:46	05:32 20:53	06:01 20:26	06:36 19:37	07:10 18:42	06:49 16:53	07:26 16:31
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Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
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, graphical

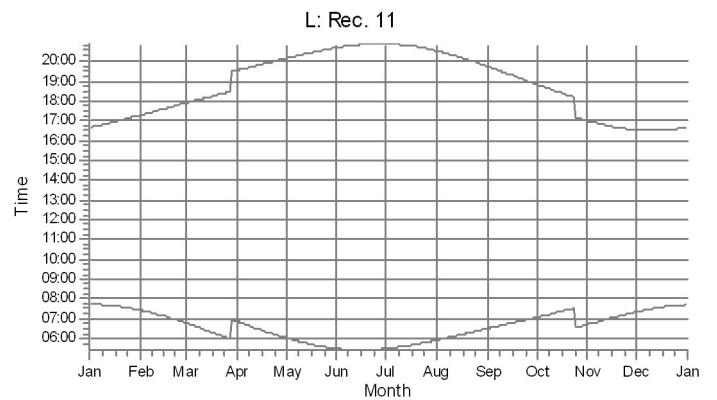
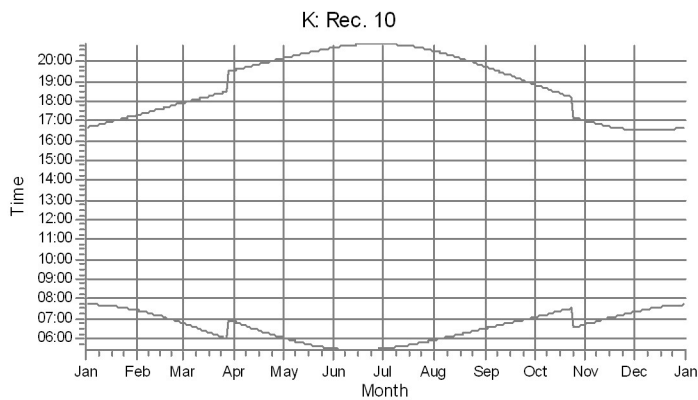
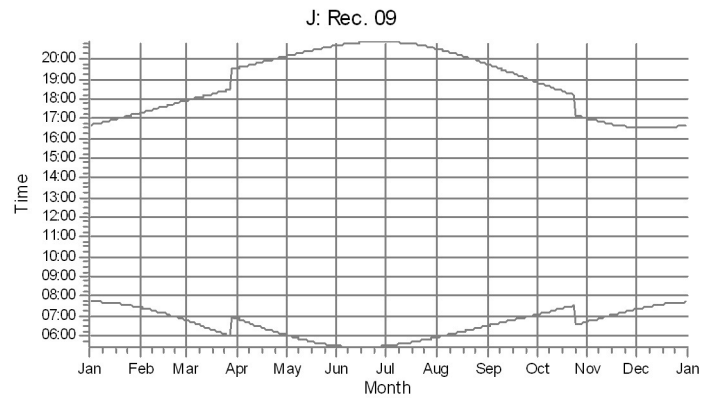
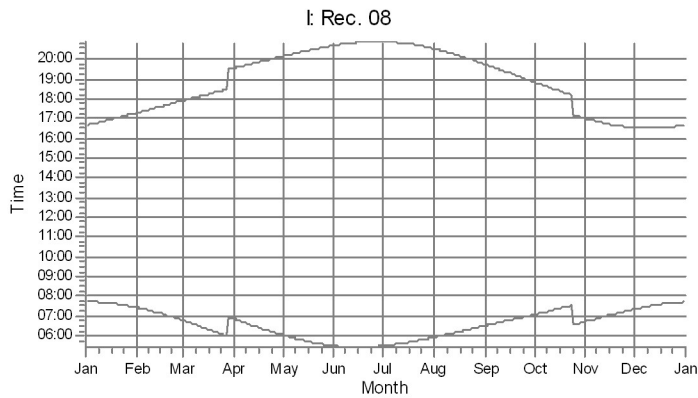
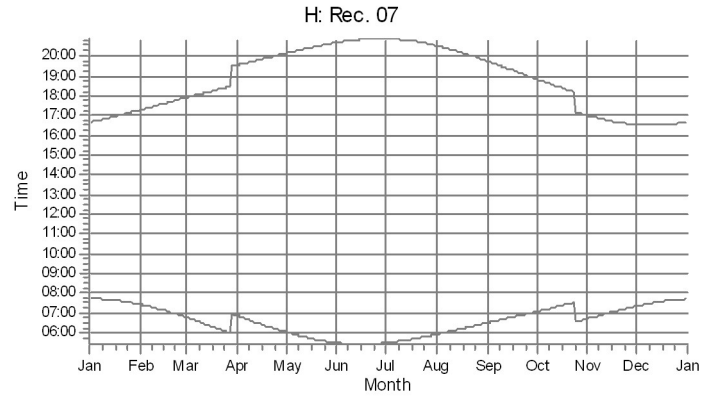
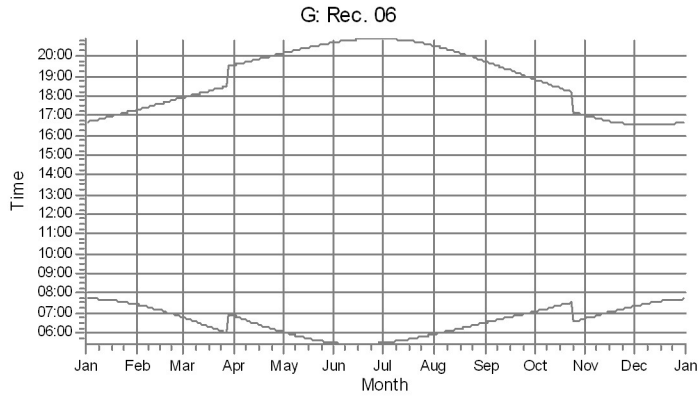
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

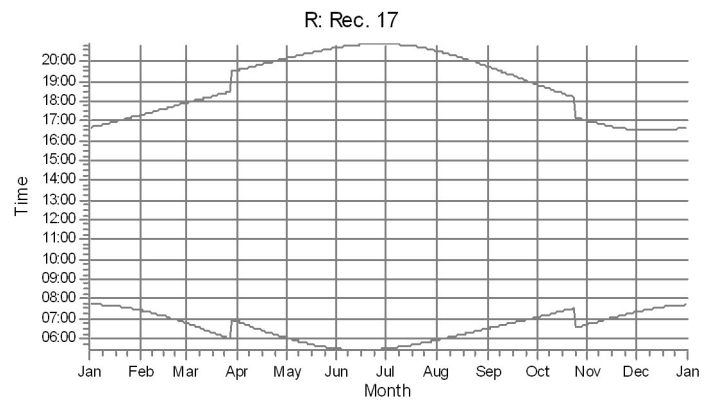
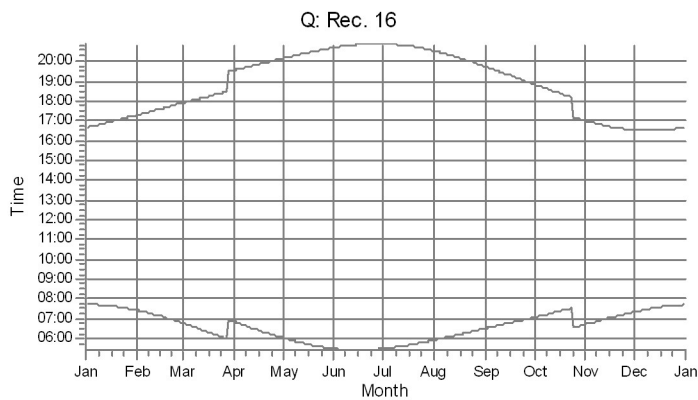
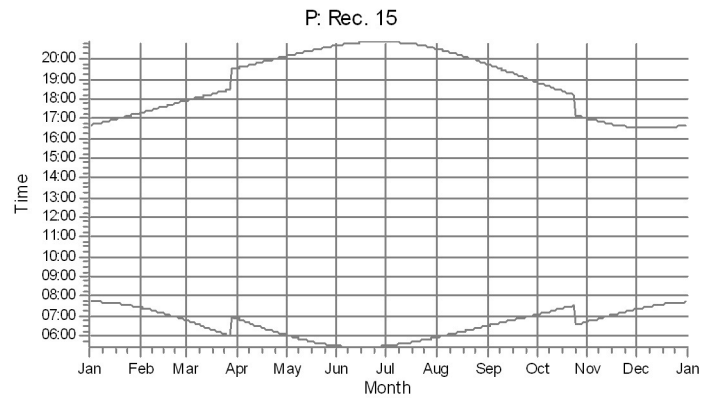
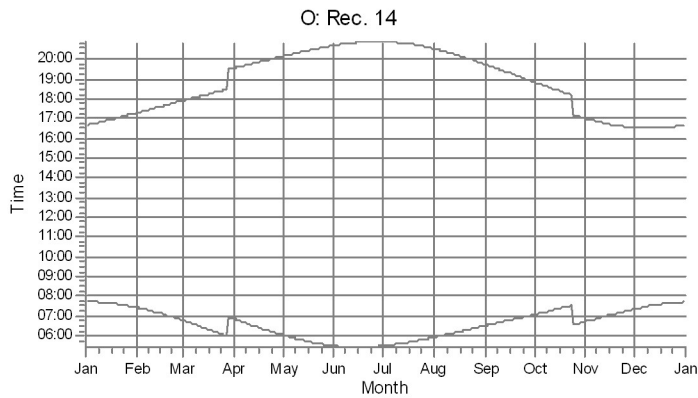
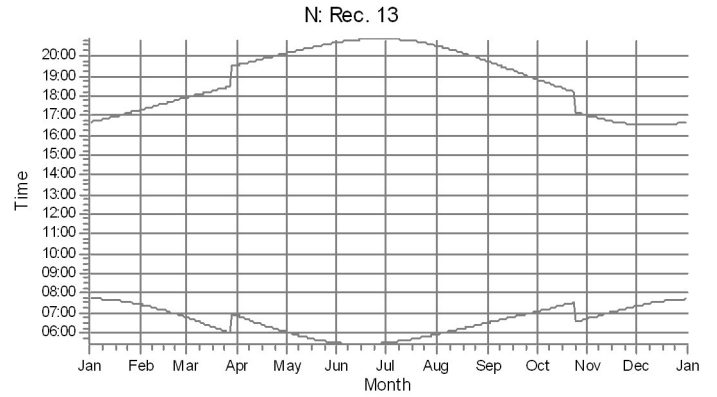
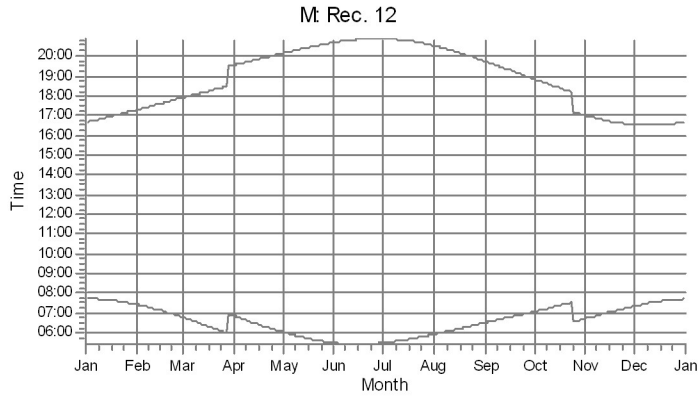
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

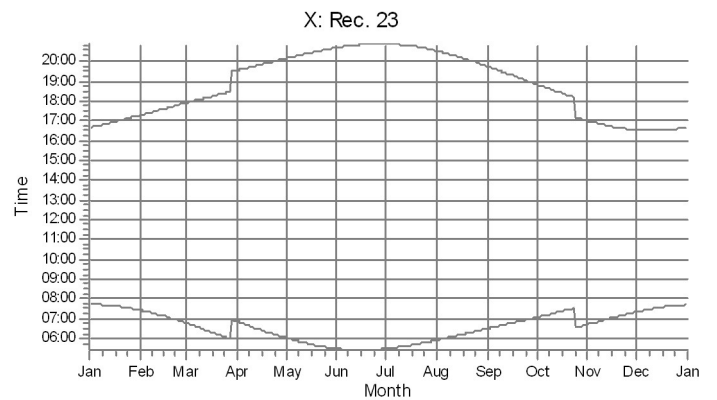
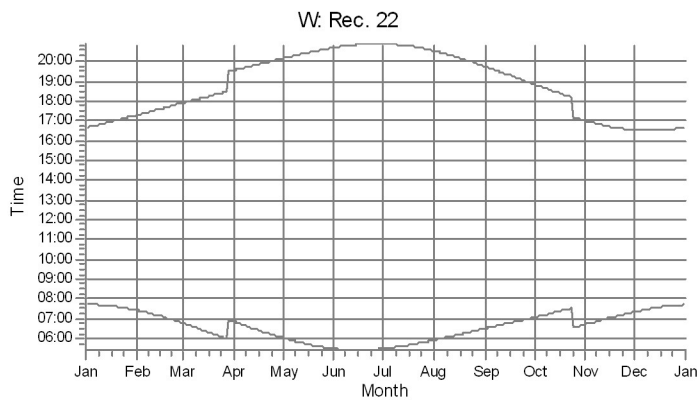
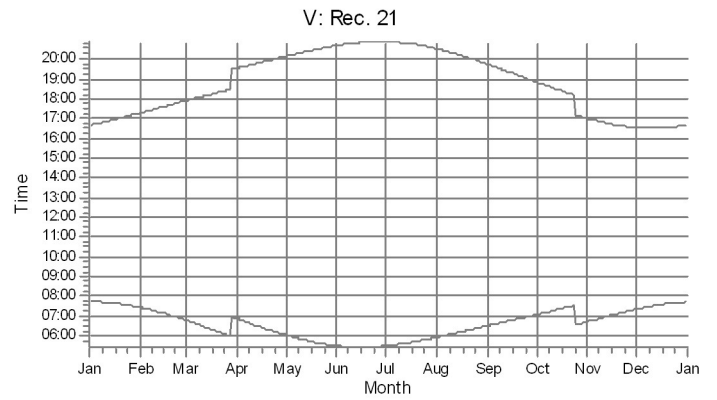
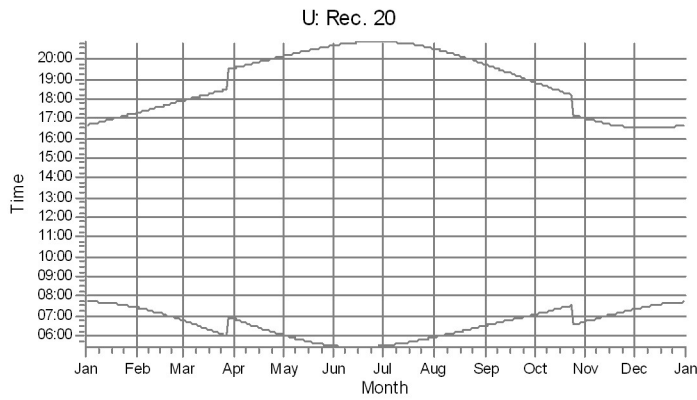
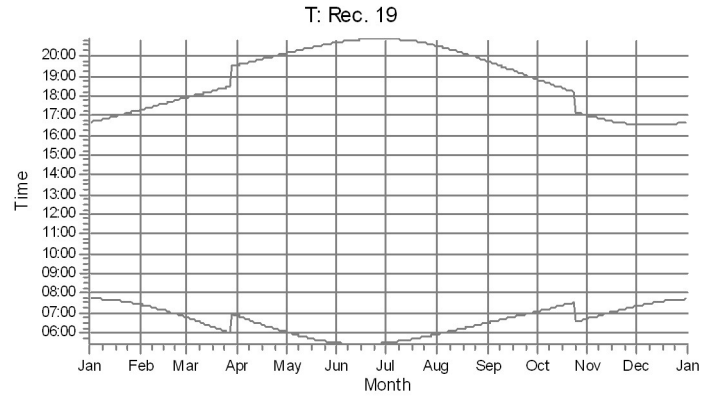
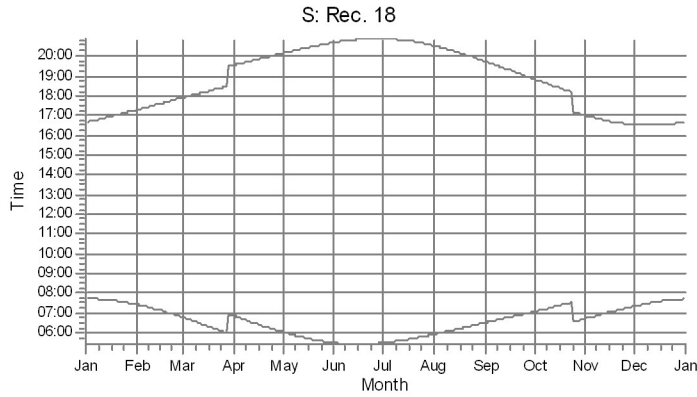
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

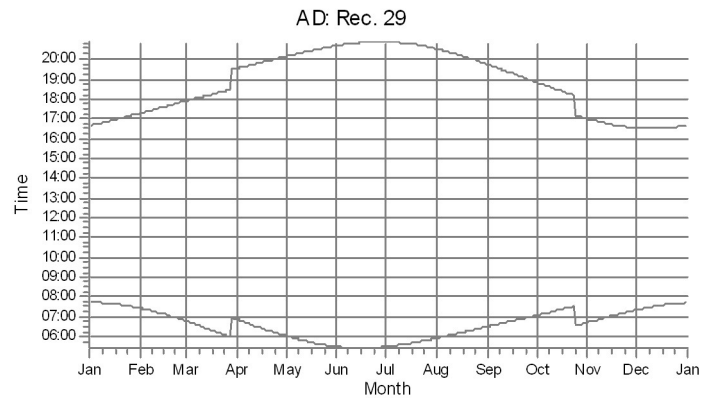
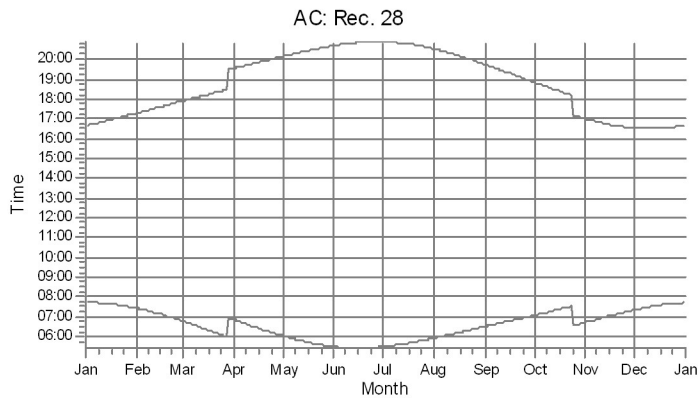
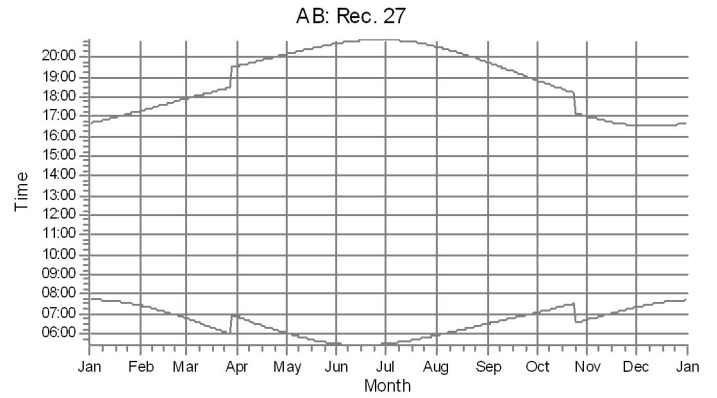
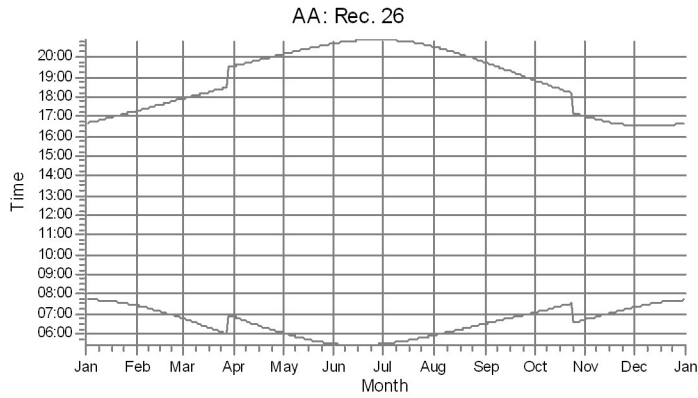
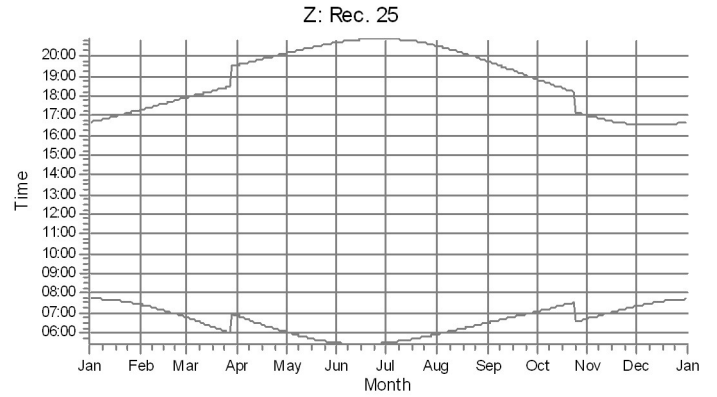
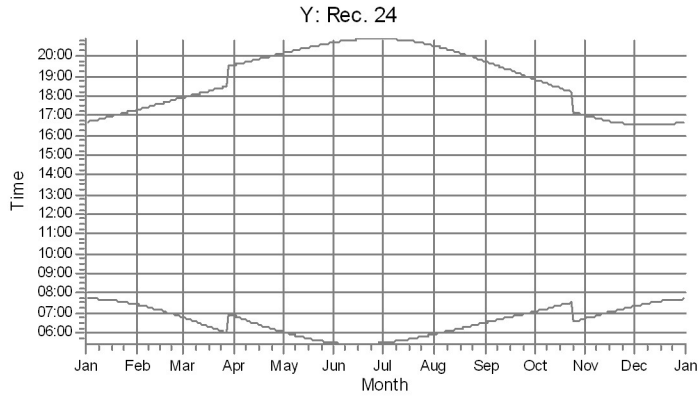
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

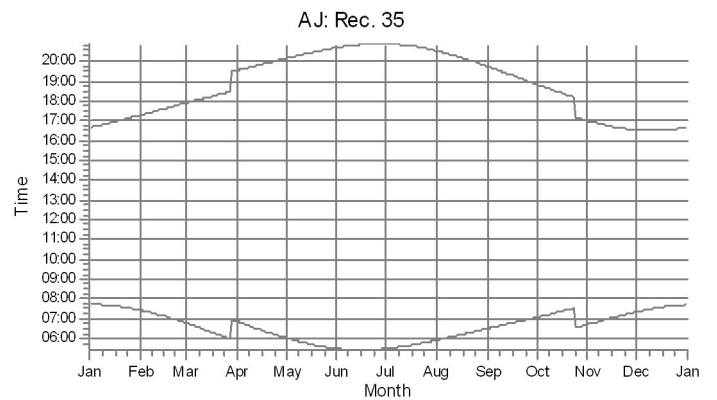
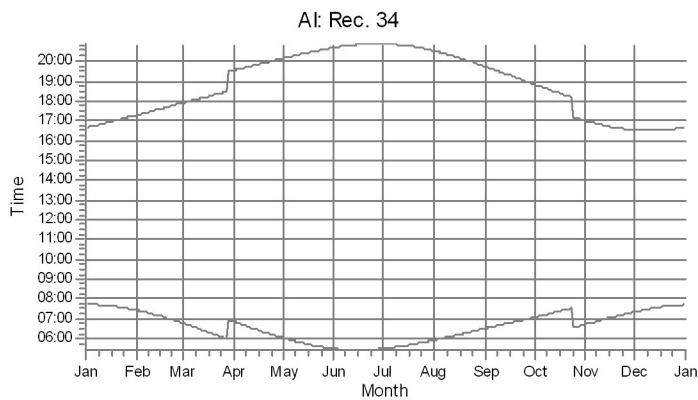
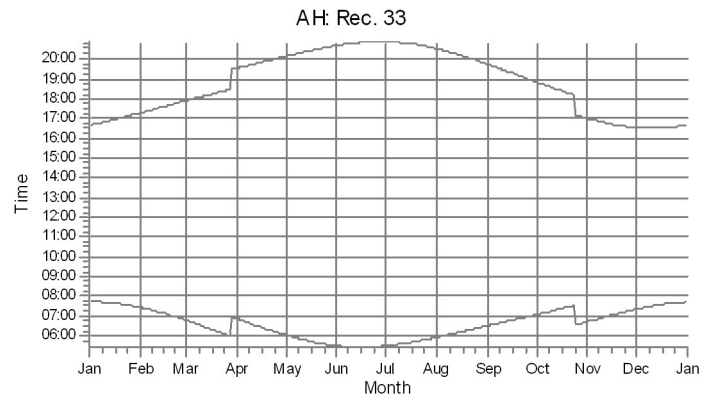
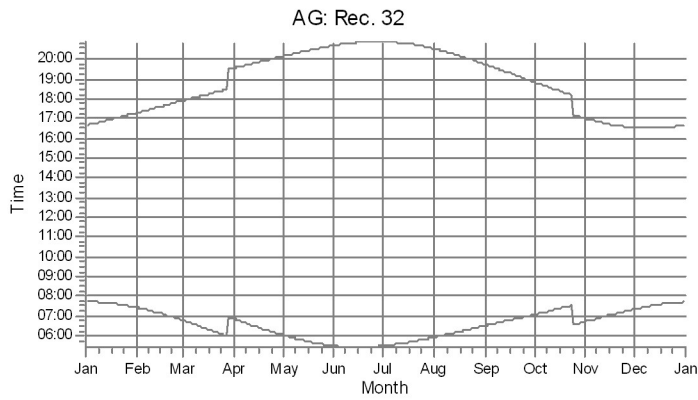
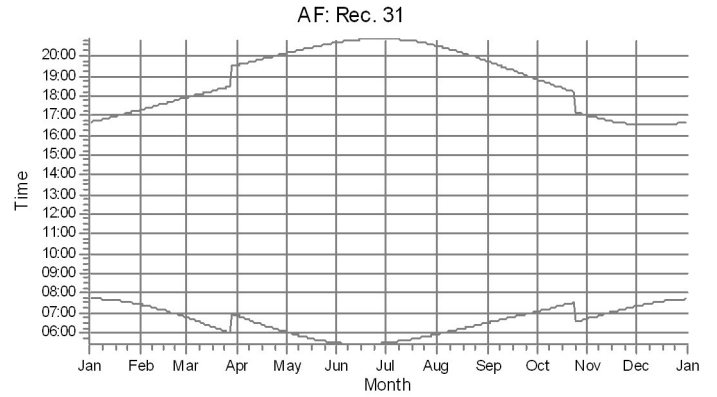
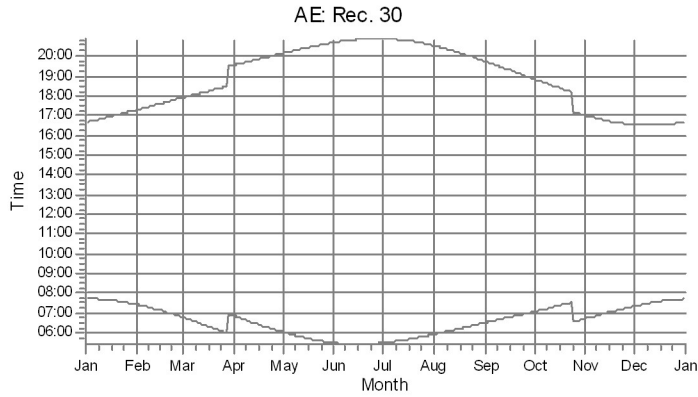
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

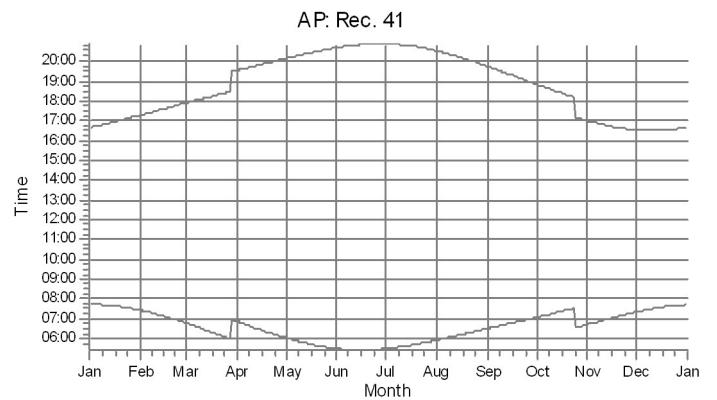
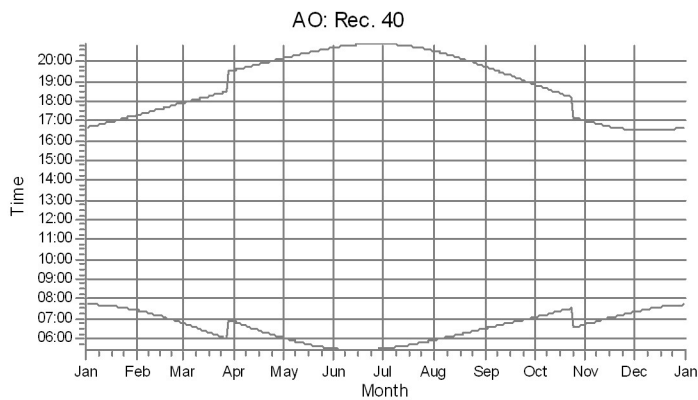
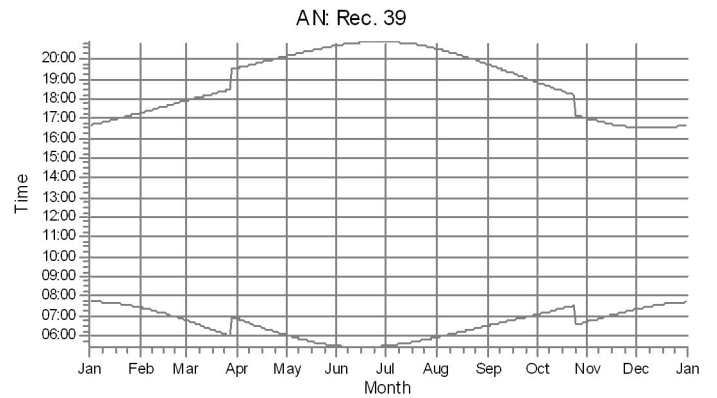
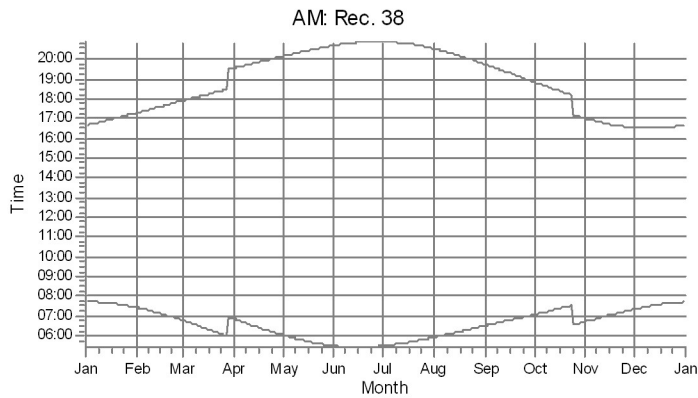
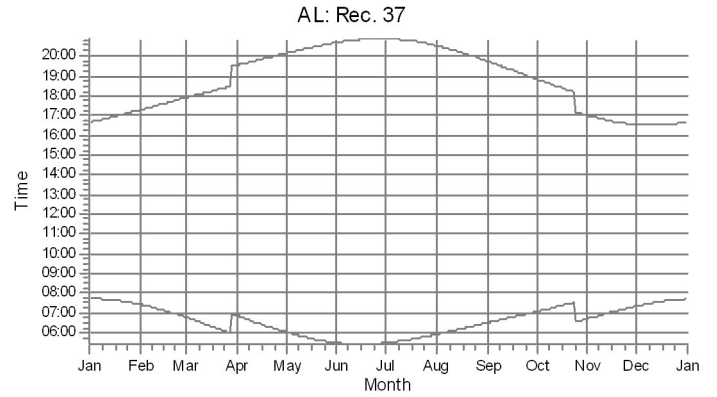
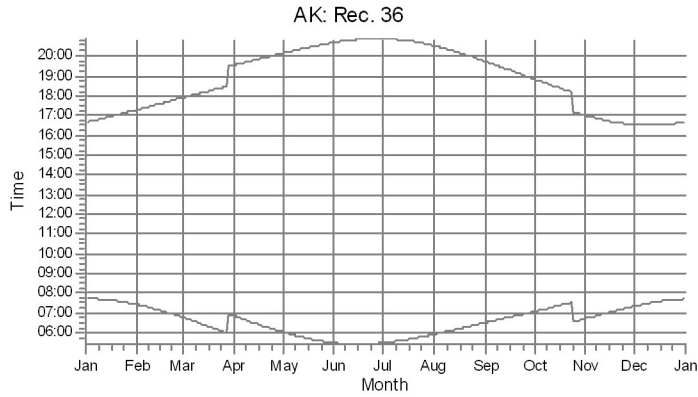
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

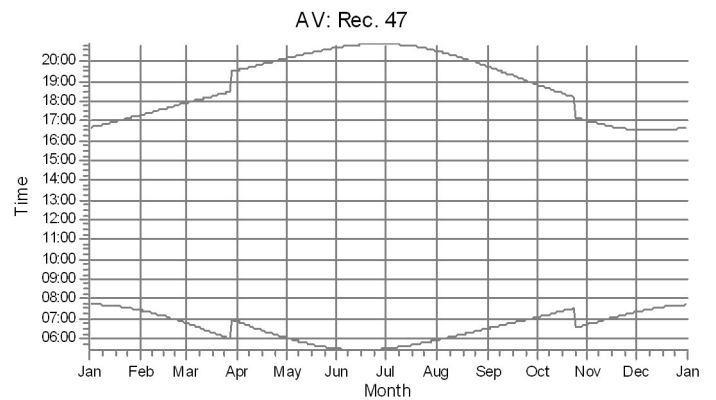
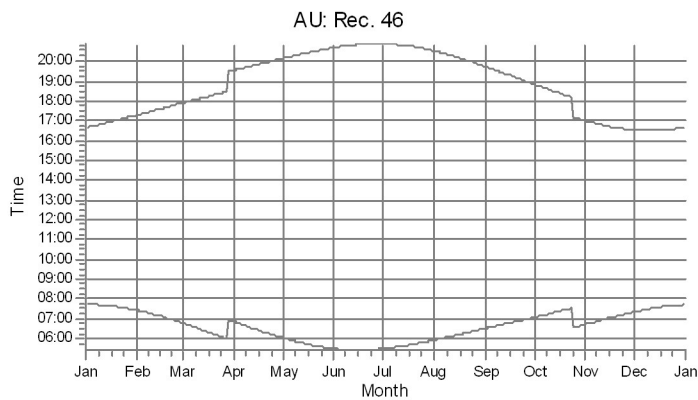
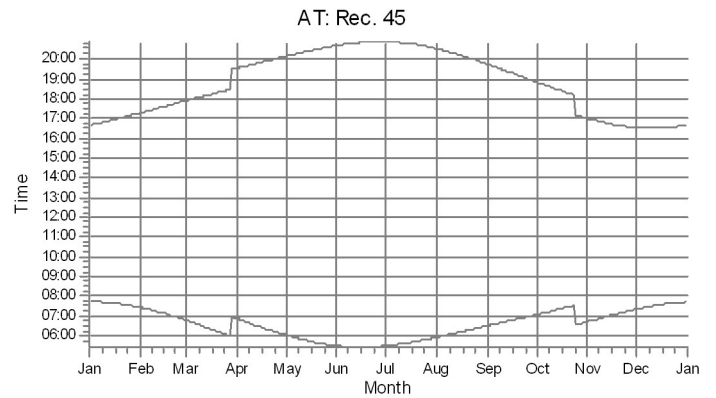
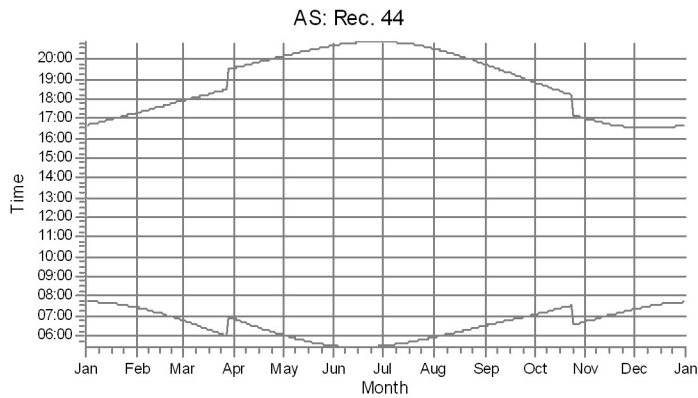
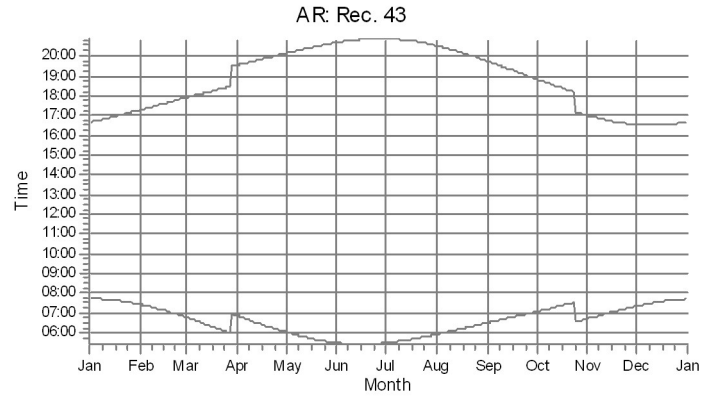
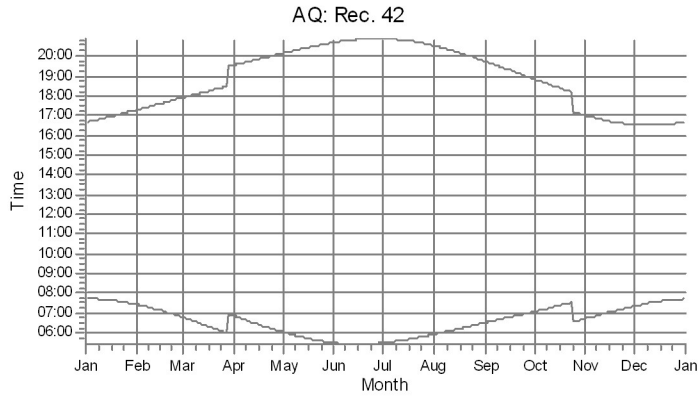
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

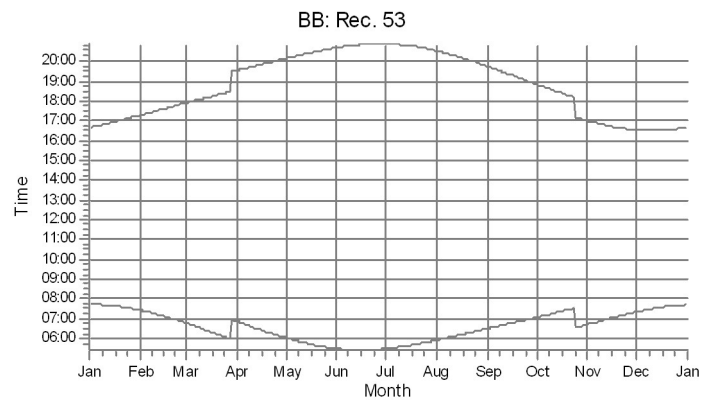
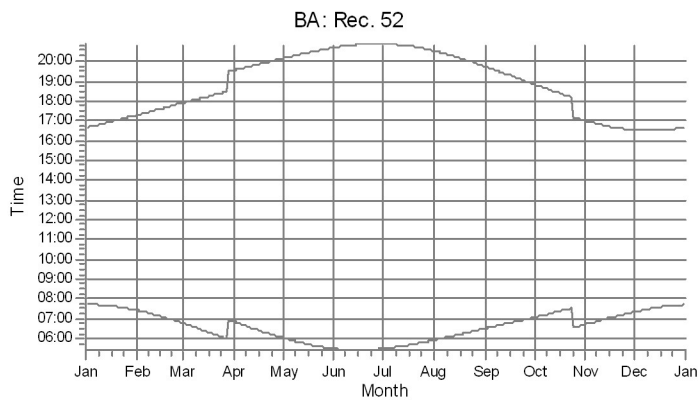
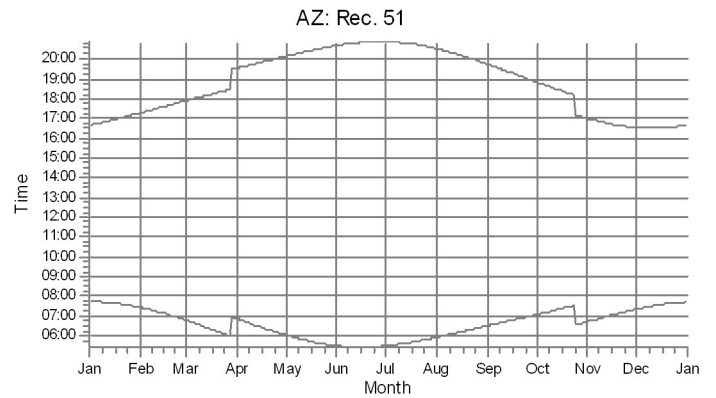
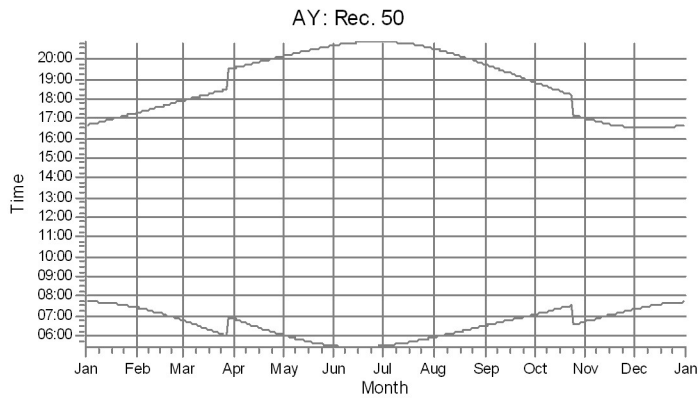
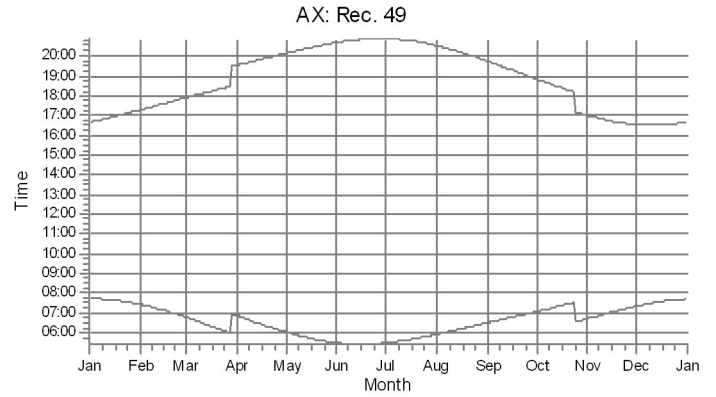
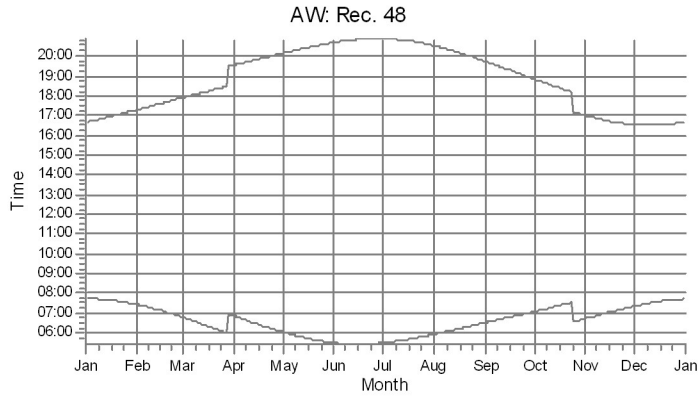
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

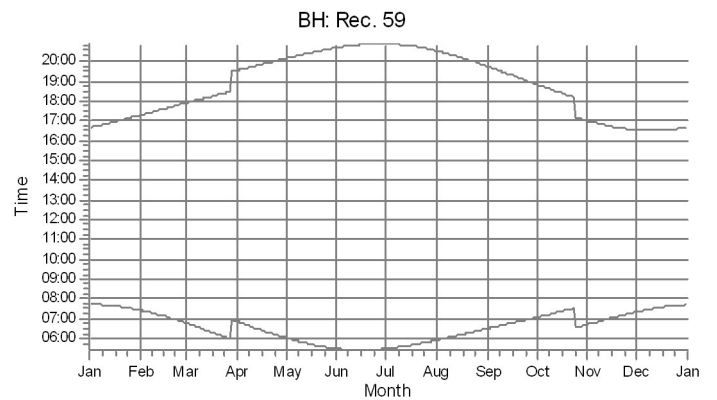
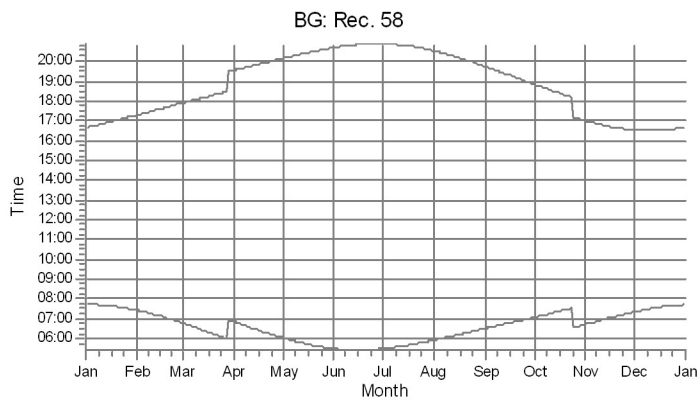
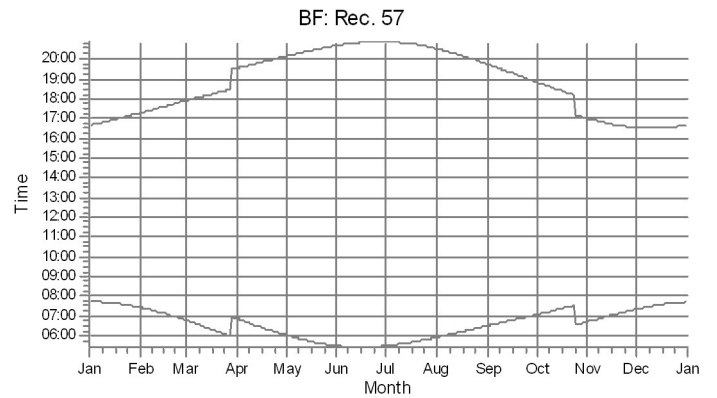
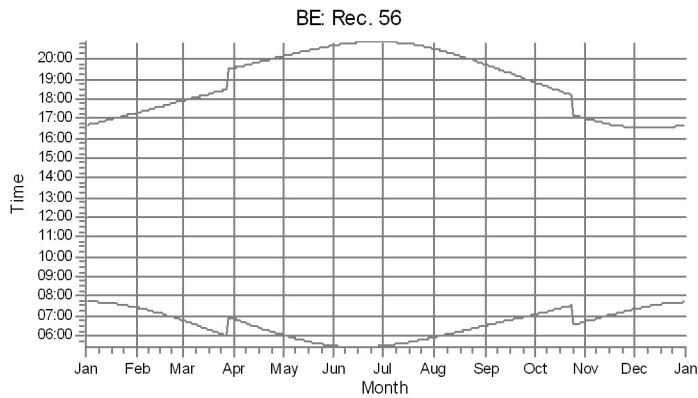
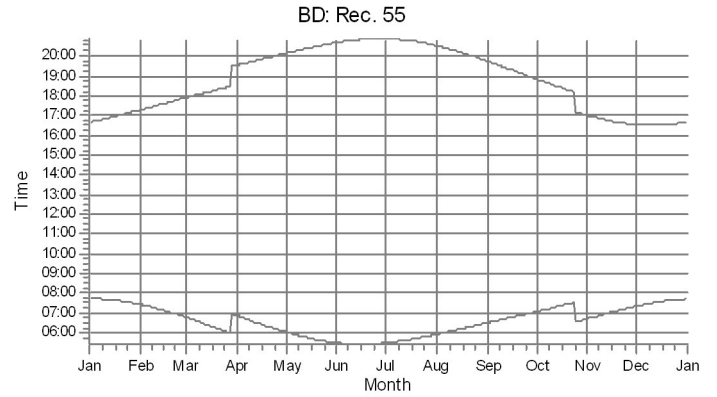
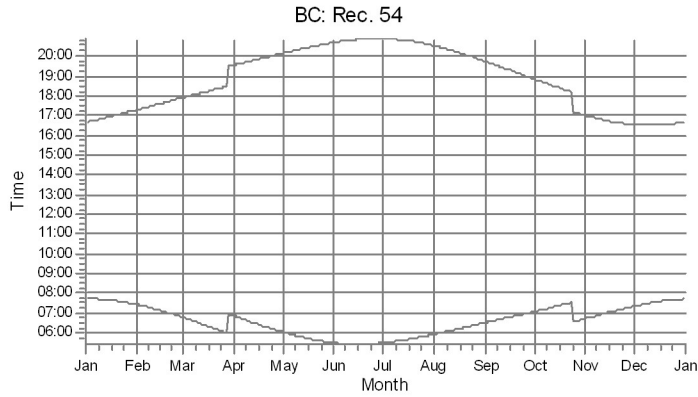
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

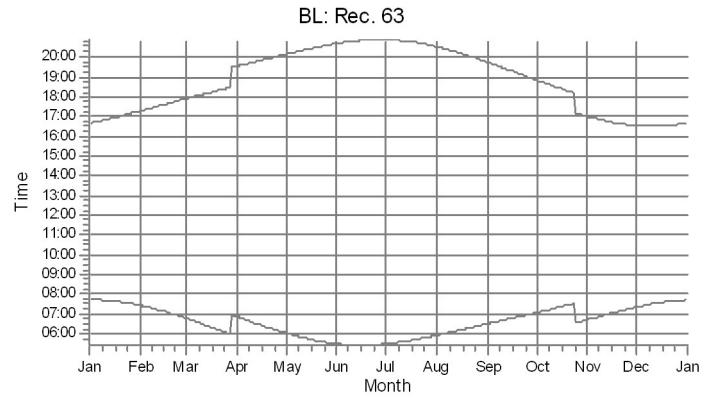
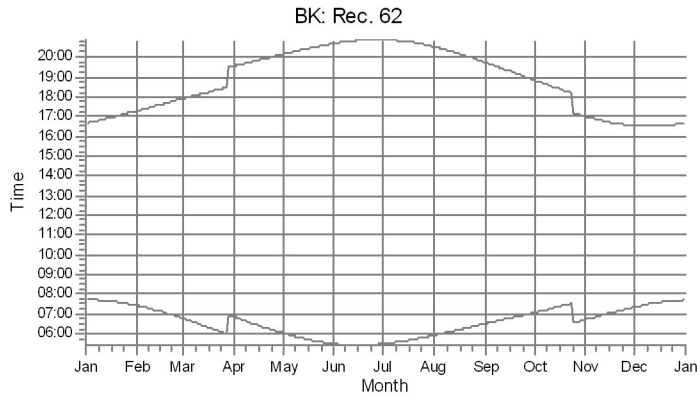
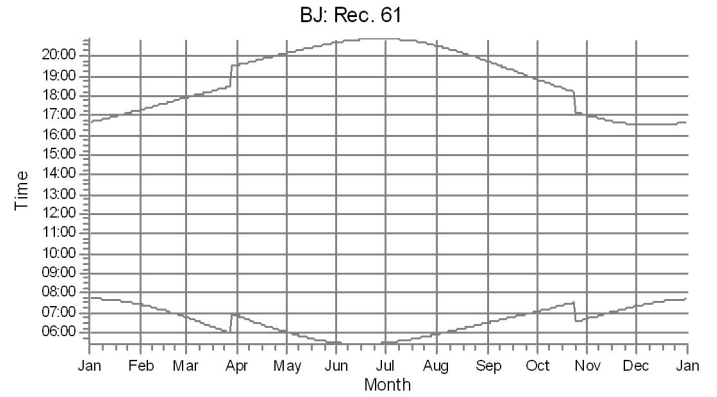
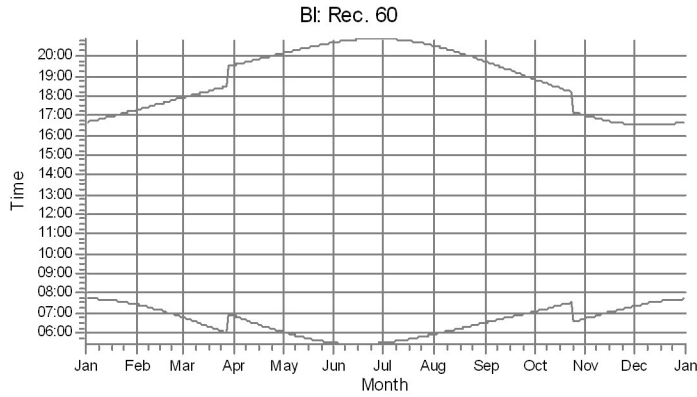
Calculation: WC results



WTGs

SHADOW - Calendar, graphical

Calculation: WC results



WTGs

SHADOW - Calendar per WTG

Calculation: WC results WTG: 1 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (13)

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	07:42 16:41	07:26 17:18	06:46 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:32	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:05 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:32 19:42	07:07 18:47	06:45 16:57	07:23 16:32
4	07:42 16:43	07:23 17:22	06:41 17:59	06:46 19:37	05:57 20:13	05:28 20:45	05:31 20:53	05:59 20:29	06:34 19:40	07:08 18:45	06:47 16:56	07:24 16:31
5	07:42 16:44	07:22 17:23	06:40 18:00	06:44 19:38	05:56 20:14	05:27 20:46	05:31 20:53	06:00 20:28	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
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31	07:27 17:16		06:53 19:32		05:30 20:42		05:54 20:34	06:29 19:47		06:41 17:01		07:42 16:39
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Sum of minutes with flicker	0	0	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: WC results WTG: 2 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (14)

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	07:42 16:41	07:26 17:18	06:47 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:55 20:33	06:30 19:45	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:41	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:06 18:49	06:44 16:59	07:22 16:32
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31	07:27 17:16		06:53 19:32		05:30 20:42		05:54 20:34	06:29 19:47		06:41 17:01		07:42 16:39
Potential sun hours	289	293	369	402	456	462	468	433	376	342	291	279
Sum of minutes with flicker	0	0	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: WC results WTG: 3 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (15)

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	07:42 16:41	07:26 17:18	06:47 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:33	06:30 19:46	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:06 18:49	06:44 16:59	07:22 16:32
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16	07:39 16:57	07:07 17:38	06:20 18:14	06:25 19:52	05:43 20:27	05:25 20:52	05:40 20:48	06:12 20:12	06:47 19:18	07:22 18:25	07:03 16:42	07:35 16:31
17	07:39 16:58	07:06 17:39	06:19 18:16	06:24 19:53	05:42 20:28	05:25 20:52	05:41 20:47	06:13 20:10	06:48 19:17	07:24 18:23	07:04 16:41	07:36 16:32
18	07:38 16:59	07:04 17:41	06:17 18:17	06:22 19:54	05:41 20:29	05:25 20:53	05:42 20:46	06:14 20:09	06:49 19:15	07:25 18:21	07:05 16:41	07:37 16:32
19	07:37 17:00	07:03 17:42	06:15 18:18	06:20 19:55	05:40 20:30	05:25 20:53	05:42 20:46	06:16 20:07	06:51 19:13	07:26 18:20	07:06 16:40	07:37 16:32
20	07:37 17:02	07:01 17:44	06:13 18:19	06:19 19:57	05:39 20:31	05:26 20:53	05:43 20:45	06:17 20:06	06:52 19:11	07:27 18:18	07:08 16:39	07:38 16:33
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23	07:35 17:05	06:56 17:48	06:08 18:23	06:14 20:00	05:36 20:34	05:26 20:54	05:46 20:42	06:20 20:01	06:55 19:06	07:31 18:13	07:11 16:37	07:39 16:34
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31	07:27 17:16		06:53 19:33		05:30 20:42		05:54 20:34	06:29 19:47		06:42 17:01		07:42 16:40
Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	279
Sum of minutes with flicker	0	0	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: WC results WTG: 4 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (16)

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	07:42 16:41	07:26 17:18	06:47 17:55	06:52 19:34	06:02 20:10	05:29 20:43	05:29 20:54	05:56 20:33	06:30 19:46	07:04 18:51	06:43 17:00	07:21 16:32
2	07:42 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:43	05:30 20:54	05:57 20:31	06:31 19:44	07:06 18:49	06:44 16:59	07:22 16:32
3	07:42 16:42	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:28 20:44	05:30 20:54	05:58 20:30	06:33 19:42	07:07 18:47	06:45 16:57	07:23 16:32
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5	07:42 16:44	07:22 17:23	06:40 18:01	06:44 19:39	05:56 20:14	05:28 20:46	05:31 20:53	06:00 20:28	06:35 19:38	07:09 18:44	06:48 16:55	07:25 16:31
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31	07:27 17:16		06:53 19:33		05:30 20:42		05:54 20:34	06:29 19:47		06:42 17:01		07:42 16:40
Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	279
Sum of minutes with flicker	0	0	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: WC results WTG: 5 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (17)

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	07:42 16:41	07:26 17:18	06:47 17:55	06:51 19:34	06:02 20:10	05:29 20:42	05:29 20:54	05:56 20:33	06:30 19:46	07:04 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	279
Sum of minutes with flicker	0	0	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/
	Sun set (hh:mm)	First time (hh:mm) with flicker-	Last time (hh:mm) with flicker/
		Minutes with flicker	Minutes with flicker

SHADOW - Calendar per WTG

Calculation: WC results WTG: 6 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (18)

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	07:42 16:41	07:26 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:54	05:56 20:33	06:30 19:46	07:05 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
Sum of minutes with flicker	0	0	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: WC results WTG: 7 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (19)

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	07:43 16:41	07:26 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:54	05:56 20:33	06:30 19:46	07:05 18:51	06:43 17:00	07:21 16:32
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Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
Sum of minutes with flicker	0	0	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/
	Sun set (hh:mm)	First time (hh:mm) with flicker-	Last time (hh:mm) with flicker/
		Minutes with flicker	Minutes with flicker

SHADOW - Calendar per WTG

Calculation: WC results WTG: 8 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (20)

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	07:43 16:41	07:26 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:54	05:56 20:33	06:31 19:46	07:05 18:51	06:43 17:00	07:21 16:33
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29	07:30 17:14		06:57 19:30	06:05 20:08	05:31 20:40	05:28 20:55	05:53 20:36	06:27 19:51	07:02 18:55	07:38 17:04	07:19 16:33	07:42 16:38
30	07:29 17:15		06:55 19:32	06:03 20:09	05:31 20:41	05:29 20:55	05:54 20:35	06:28 19:49	07:04 18:53	07:39 17:03	07:20 16:33	07:42 16:39
31	07:28 17:16		06:54 19:33		05:30 20:42		05:55 20:34	06:29 19:48		06:42 17:02		07:42 16:40
Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
Sum of minutes with flicker	0	0	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: WC results WTG: 9 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (21)

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	07:42 16:41	07:26 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:54	05:56 20:33	06:30 19:46	07:05 18:51	06:43 17:00	07:21 16:32
2	07:43 16:42	07:25 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:44	05:30 20:54	05:57 20:32	06:32 19:44	07:06 18:49	06:44 16:59	07:22 16:32
3	07:43 16:43	07:24 17:20	06:43 17:58	06:48 19:36	05:59 20:12	05:29 20:44	05:30 20:54	05:58 20:30	06:33 19:42	07:07 18:47	06:46 16:57	07:23 16:32
4	07:43 16:43	07:23 17:22	06:42 17:59	06:46 19:38	05:58 20:13	05:28 20:45	05:31 20:54	05:59 20:29	06:34 19:40	07:08 18:46	06:47 16:56	07:25 16:31
5	07:43 16:44	07:22 17:23	06:40 18:01	06:45 19:39	05:56 20:15	05:28 20:46	05:32 20:53	06:00 20:28	06:35 19:39	07:09 18:44	06:48 16:55	07:26 16:31
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7	07:42 16:46	07:19 17:26	06:37 18:03	06:41 19:41	05:54 20:17	05:27 20:47	05:33 20:53	06:02 20:25	06:37 19:35	07:12 18:40	06:51 16:52	07:28 16:31
8	07:42 16:48	07:18 17:27	06:35 18:05	06:39 19:42	05:52 20:18	05:27 20:48	05:34 20:52	06:03 20:24	06:38 19:33	07:13 18:39	06:52 16:51	07:29 16:31
9	07:42 16:49	07:17 17:29	06:33 18:06	06:37 19:44	05:51 20:19	05:26 20:49	05:34 20:52	06:04 20:22	06:39 19:31	07:14 18:37	06:54 16:50	07:30 16:31
10	07:42 16:50	07:16 17:30	06:31 18:07	06:36 19:45	05:50 20:20	05:26 20:49	05:35 20:52	06:06 20:21	06:41 19:30	07:15 18:35	06:55 16:49	07:30 16:31
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31	07:27 17:16		06:53 19:33		05:30 20:42		05:55 20:34	06:29 19:47		06:42 17:02		07:42 16:40
Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
Sum of minutes with flicker	0	0	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: WC results WTG: 10 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (22)

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	07:43 16:41	07:27 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:55	05:56 20:33	06:31 19:46	07:05 18:51	06:43 17:00	07:21 16:33
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13	07:41 16:53	07:12 17:34	06:26 18:11	06:31 19:49	05:46 20:24	05:26 20:51	05:37 20:50	06:09 20:17	06:44 19:24	07:19 18:30	06:59 16:46	07:33 16:31
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31	07:28 17:16		06:54 19:33		05:30 20:42		05:55 20:34	06:29 19:48		06:42 17:02		07:42 16:40
Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
Sum of minutes with flicker	0	0	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: WC results WTG: 11 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (23)

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	07:43 16:41	07:27 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:55	05:56 20:33	06:31 19:46	07:05 18:51	06:43 17:00	07:22 16:33
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16	07:40 16:57	07:07 17:38	06:21 18:15	06:26 19:52	05:43 20:27	05:26 20:53	05:40 20:48	06:13 20:13	06:48 19:19	07:23 18:25	07:03 16:43	07:36 16:32
17	07:39 16:58	07:06 17:40	06:19 18:16	06:24 19:53	05:42 20:28	05:26 20:53	05:41 20:48	06:14 20:11	06:49 19:17	07:24 18:23	07:04 16:42	07:36 16:32
18	07:39 16:59	07:05 17:41	06:17 18:17	06:22 19:55	05:41 20:30	05:26 20:53	05:42 20:47	06:15 20:09	06:50 19:15	07:25 18:22	07:06 16:41	07:37 16:32
19	07:38 17:01	07:03 17:43	06:15 18:18	06:21 19:56	05:40 20:31	05:26 20:54	05:43 20:46	06:16 20:08	06:51 19:13	07:27 18:20	07:07 16:40	07:38 16:33
20	07:37 17:02	07:01 17:44	06:14 18:20	06:19 19:57	05:39 20:32	05:26 20:54	05:44 20:45	06:17 20:06	06:52 19:11	07:28 18:18	07:08 16:39	07:38 16:33
21	07:37 17:03	07:00 17:45	06:12 18:21	06:17 19:58	05:38 20:33	05:26 20:54	05:45 20:44	06:18 20:05	06:53 19:10	07:29 18:17	07:09 16:38	07:39 16:33
22	07:36 17:04	06:58 17:47	06:10 18:22	06:16 19:59	05:37 20:34	05:26 20:54	05:46 20:44	06:19 20:03	06:54 19:08	07:30 18:15	07:11 16:38	07:39 16:34
23	07:35 17:06	06:57 17:48	06:08 18:23	06:14 20:01	05:36 20:35	05:26 20:54	05:47 20:43	06:20 20:01	06:56 19:06	07:32 18:14	07:12 16:37	07:40 16:34
24	07:34 17:07	06:55 17:49	06:06 18:25	06:13 20:02	05:35 20:36	05:27 20:55	05:48 20:42	06:22 20:00	06:57 19:04	07:33 18:12	07:13 16:36	07:40 16:35
25	07:33 17:08	06:54 17:51	06:05 18:26	06:11 20:03	05:34 20:37	05:27 20:55	05:49 20:41	06:23 19:58	06:58 19:02	07:34 17:11	07:14 16:36	07:41 16:35
26	07:33 17:10	06:52 17:52	06:03 18:27	06:09 20:04	05:34 20:38	05:27 20:55	05:50 20:40	06:24 19:56	06:59 19:00	07:35 17:09	07:16 16:35	07:41 16:36
27	07:32 17:11	06:50 17:53	06:01 18:28	06:08 20:05	05:33 20:39	05:28 20:55	05:51 20:39	06:25 19:55	07:00 18:59	07:37 17:08	07:17 16:34	07:42 16:37
28	07:31 17:12	06:49 17:54	05:59 18:29	06:06 20:07	05:32 20:40	05:28 20:55	05:52 20:38	06:26 19:53	07:01 18:57	07:38 17:06	07:18 16:34	07:42 16:37
29	07:30 17:14		06:57 19:31	06:05 20:08	05:32 20:40	05:28 20:55	05:53 20:37	06:27 19:51	07:02 18:55	07:39 17:05	07:19 16:33	07:42 16:38
30	07:29 17:15		06:55 19:32	06:03 20:09	05:31 20:41	05:29 20:55	05:54 20:35	06:28 19:49	07:04 18:53	07:40 17:03	07:20 16:33	07:42 16:39
31	07:28 17:17		06:54 19:33		05:30 20:42		05:55 20:34	06:30 19:48		06:42 17:02		07:43 16:40
Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
Sum of minutes with flicker	0	0	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: WC results WTG: 12 - VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (24)

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	07:43 16:41	07:27 17:18	06:47 17:56	06:52 19:34	06:02 20:10	05:30 20:43	05:29 20:55	05:56 20:33	06:31 19:46	07:05 18:51	06:43 17:00	07:22 16:33
2	07:43 16:42	07:26 17:19	06:45 17:57	06:50 19:35	06:00 20:11	05:29 20:44	05:30 20:54	05:57 20:32	06:32 19:44	07:06 18:49	06:45 16:59	07:23 16:32
3	07:43 16:43	07:24 17:21	06:44 17:58	06:48 19:37	05:59 20:12	05:29 20:45	05:30 20:54	05:58 20:31	06:33 19:42	07:07 18:48	06:46 16:58	07:24 16:32
4	07:43 16:44	07:23 17:22	06:42 18:00	06:46 19:38	05:58 20:14	05:28 20:45	05:31 20:54	05:59 20:29	06:34 19:41	07:08 18:46	06:47 16:56	07:25 16:32
5	07:43 16:45	07:22 17:23	06:40 18:01	06:45 19:39	05:56 20:15	05:28 20:46	05:32 20:54	06:00 20:28	06:35 19:39	07:09 18:44	06:49 16:55	07:26 16:31
6	07:43 16:46	07:21 17:25	06:38 18:02	06:43 19:40	05:55 20:16	05:27 20:47	05:32 20:53	06:01 20:27	06:36 19:37	07:11 18:42	06:50 16:54	07:27 16:31
7	07:43 16:47	07:20 17:26	06:37 18:03	06:41 19:41	05:54 20:17	05:27 20:48	05:33 20:53	06:02 20:25	06:37 19:35	07:12 18:40	06:51 16:52	07:28 16:31
8	07:42 16:48	07:18 17:27	06:35 18:05	06:39 19:43	05:52 20:18	05:27 20:48	05:34 20:53	06:03 20:24	06:39 19:33	07:13 18:39	06:52 16:51	07:29 16:31
9	07:42 16:49	07:17 17:29	06:33 18:06	06:38 19:44	05:51 20:20	05:26 20:49	05:34 20:52	06:05 20:23	06:40 19:32	07:14 18:37	06:54 16:50	07:30 16:31
10	07:42 16:50	07:16 17:30	06:31 18:07	06:36 19:45	05:50 20:21	05:26 20:49	05:35 20:52	06:06 20:21	06:41 19:30	07:15 18:35	06:55 16:49	07:31 16:31
11	07:42 16:51	07:14 17:32	06:30 18:08	06:34 19:46	05:49 20:22	05:26 20:50	05:36 20:51	06:07 20:20	06:42 19:28	07:17 18:33	06:56 16:48	07:32 16:31
12	07:41 16:52	07:13 17:33	06:28 18:10	06:32 19:47	05:47 20:23	05:26 20:51	05:37 20:51	06:08 20:18	06:43 19:26	07:18 18:32	06:58 16:47	07:33 16:31
13	07:41 16:53	07:12 17:34	06:26 18:11	06:31 19:49	05:46 20:24	05:26 20:51	05:37 20:50	06:09 20:17	06:44 19:24	07:19 18:30	06:59 16:46	07:33 16:31
14	07:41 16:54	07:10 17:36	06:24 18:12	06:29 19:50	05:45 20:25	05:26 20:52	05:38 20:50	06:10 20:15	06:45 19:23	07:20 18:28	07:00 16:45	07:34 16:31
15	07:40 16:56	07:09 17:37	06:23 18:13	06:27 19:51	05:44 20:26	05:26 20:52	05:39 20:49	06:11 20:14	06:46 19:21	07:22 18:27	07:02 16:44	07:35 16:31
16	07:40 16:57	07:07 17:38	06:21 18:15	06:26 19:52	05:43 20:27	05:25 20:52	05:40 20:48	06:12 20:12	06:48 19:19	07:23 18:25	07:03 16:43	07:36 16:32
17	07:39 16:58	07:06 17:40	06:19 18:16	06:24 19:53	05:42 20:28	05:25 20:53	05:41 20:48	06:14 20:11	06:49 19:17	07:24 18:23	07:04 16:42	07:36 16:32
18	07:38 16:59	07:04 17:41	06:17 18:17	06:22 19:55	05:41 20:30	05:26 20:53	05:42 20:47	06:15 20:09	06:50 19:15	07:25 18:22	07:06 16:41	07:37 16:32
19	07:38 17:01	07:03 17:42	06:15 18:18	06:21 19:56	05:40 20:31	05:26 20:54	05:43 20:46	06:16 20:08	06:51 19:13	07:27 18:20	07:07 16:40	07:38 16:32
20	07:37 17:02	07:01 17:45	06:14 18:20	06:19 19:57	05:39 20:32	05:26 20:54	05:44 20:45	06:17 20:06	06:52 19:11	07:28 18:18	07:08 16:39	07:38 16:33
21	07:37 17:03	07:00 17:45	06:12 18:21	06:17 19:58	05:38 20:33	05:26 20:54	05:45 20:44	06:18 20:05	06:53 19:10	07:29 18:17	07:09 16:38	07:39 16:33
22	07:36 17:04	06:58 17:46	06:10 18:22	06:16 19:59	05:37 20:34	05:26 20:54	05:46 20:44	06:19 20:03	06:54 19:08	07:30 18:15	07:11 16:38	07:39 16:34
23	07:35 17:06	06:57 17:48	06:08 18:23	06:14 20:01	05:36 20:35	05:26 20:54	05:46 20:43	06:20 20:01	06:56 19:06	07:32 18:14	07:12 16:37	07:40 16:34
24	07:34 17:07	06:55 17:49	06:06 18:24	06:12 20:02	05:35 20:36	05:27 20:55	05:47 20:42	06:22 20:00	06:57 19:04	07:33 18:12	07:13 16:36	07:40 16:35
25	07:33 17:08	06:54 17:50	06:05 18:26	06:11 20:03	05:34 20:37	05:27 20:55	05:48 20:41	06:23 19:58	06:58 19:02	07:34 17:10	07:14 16:36	07:41 16:35
26	07:33 17:10	06:52 17:52	06:03 18:27	06:09 20:04	05:34 20:38	05:27 20:55	05:49 20:40	06:24 19:56	06:59 19:00	07:35 17:09	07:16 16:35	07:41 16:36
27	07:32 17:11	06:50 17:53	06:01 18:28	06:08 20:05	05:33 20:39	05:28 20:55	05:51 20:39	06:25 19:55	07:00 18:59	07:37 17:07	07:17 16:34	07:42 16:37
28	07:31 17:12	06:49 17:54	05:59 18:29	06:06 20:07	05:32 20:39	05:28 20:55	05:52 20:38	06:26 19:53	07:01 18:57	07:38 17:06	07:18 16:34	07:42 16:37
29	07:30 17:14		06:57 19:31	06:05 20:08	05:31 20:40	05:28 20:55	05:53 20:37	06:27 19:51	07:02 18:55	07:39 17:05	07:19 16:33	07:42 16:38
30	07:29 17:15		06:55 19:32	06:03 20:09	05:31 20:41	05:29 20:55	05:54 20:35	06:28 19:49	07:04 18:53	07:40 17:03	07:20 16:33	07:42 16:39
31	07:28 17:16		06:54 19:33		05:30 20:42		05:55 20:34	06:29 19:48		06:42 17:02		07:42 16:40
Potential sun hours	289	293	369	402	456	462	468	434	376	342	291	278
Sum of minutes with flicker	0	0	0	0	0	0	0	0	0	0	0	0

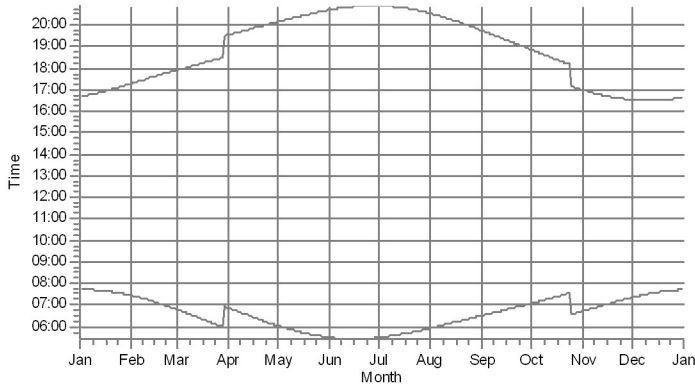
Table layout: For each day in each month the following matrix apply

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

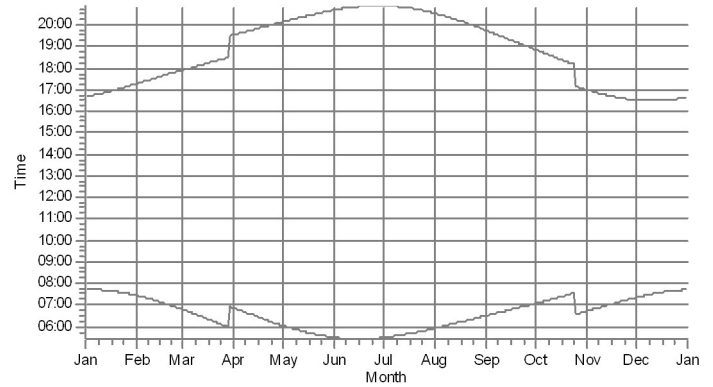
SHADOW - Calendar per WTG, graphical

Calculation: WC results

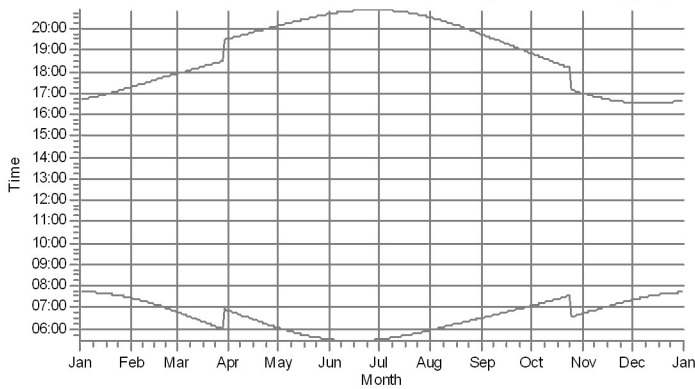
1: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (13)



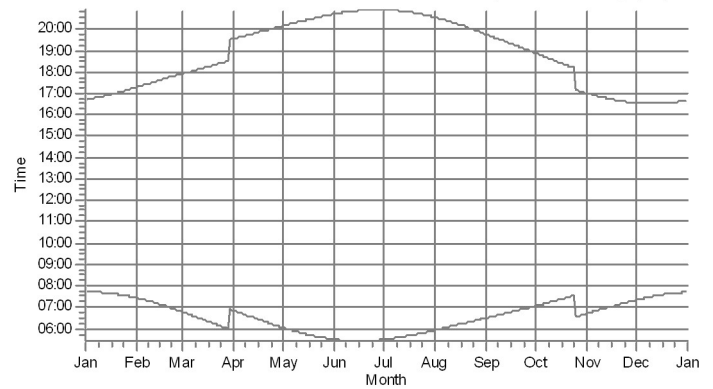
2: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (14)



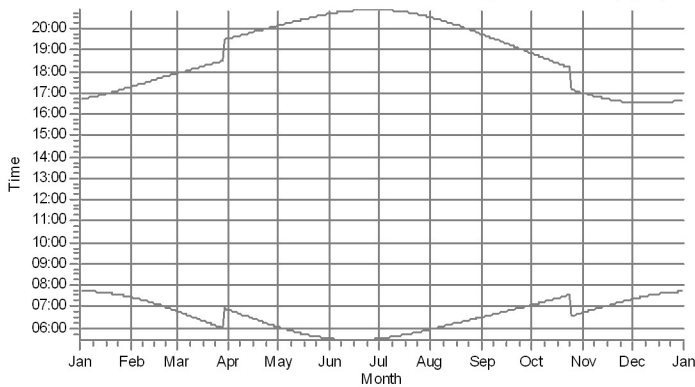
3: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (15)



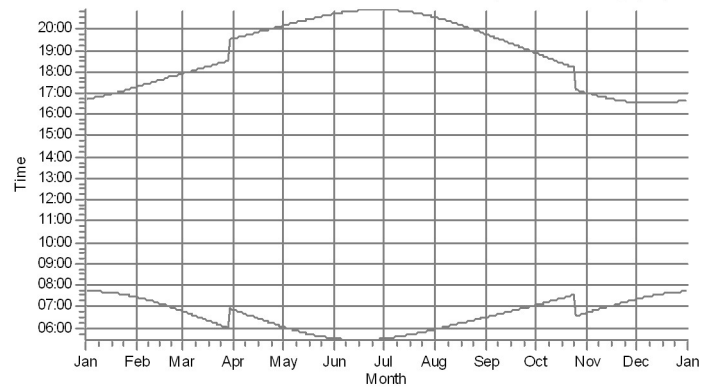
4: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (16)



5: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (17)



6: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (18)

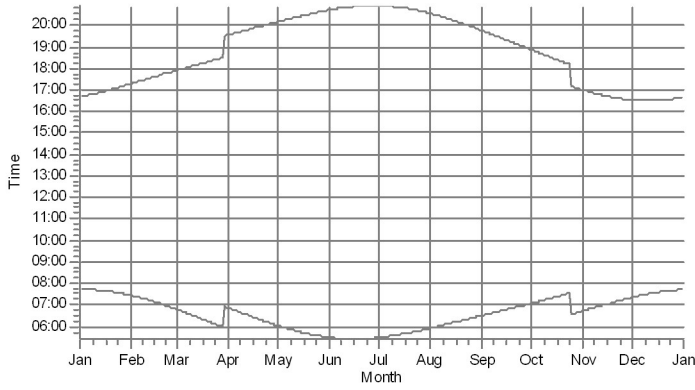


Shadow receptors

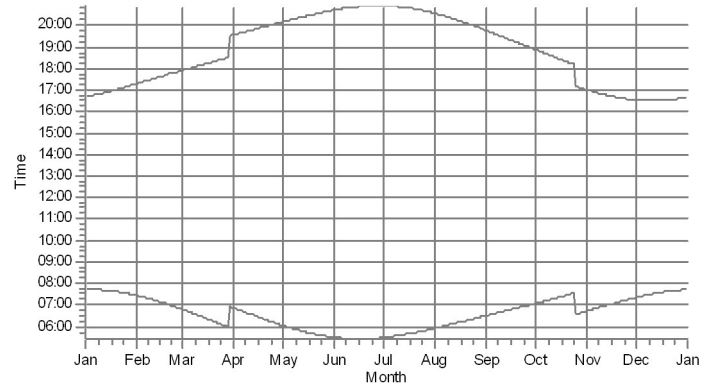
SHADOW - Calendar per WTG, graphical

Calculation: WC results

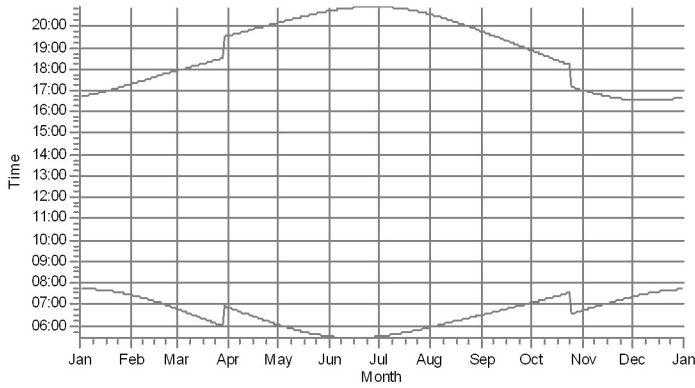
7: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (19)



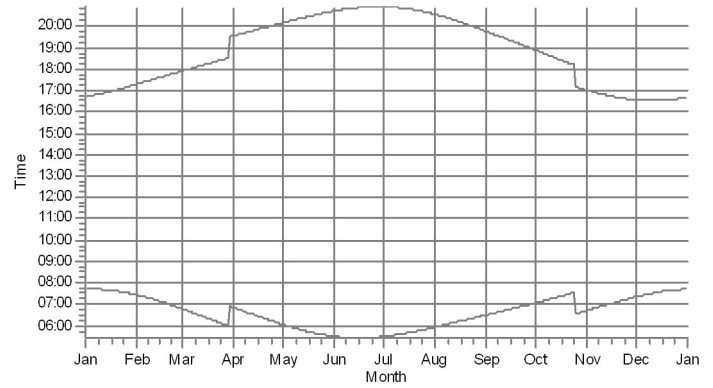
8: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (20)



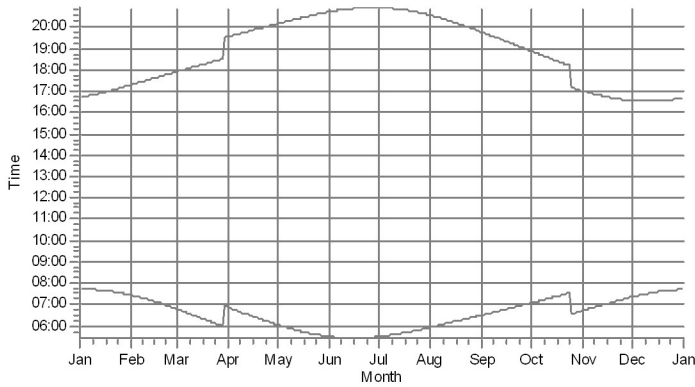
9: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (21)



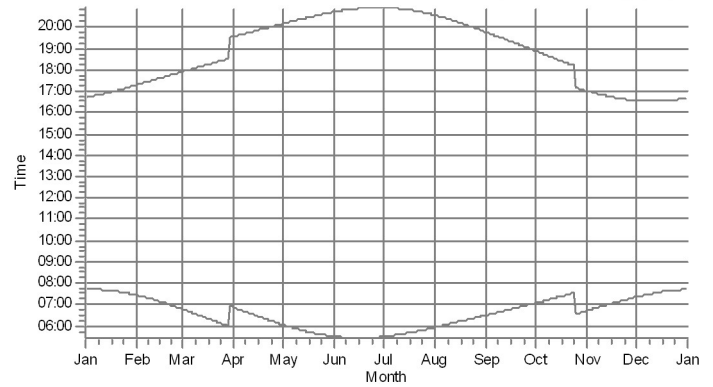
10: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (22)



11: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (23)



12: VESTAS V170-6.4 6400 170.0 !O! hub: 155.0 m (TOT: 240.0 m) (24)



Shadow receptors