



Wpd Altilia S.r.l.

Corso d'Italia n. 83 - 00198 ROMA

**PROGETTO DEFINITIVO
PER LA REALIZZAZIONE DI UN PARCO EOLICO CON POTENZA DI 72,00 MW
RICADENTE NEL TERRITORIO DEL COMUNE DI ALTAMURA (BA)
IN LOCALITA' "LAMA DI NEBBIA"**



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1 PREMESSA

La presente relazione tecnica specialistica descrive l'evoluzione giornaliera delle ombre generate dalle pale eoliche facenti parte del progetto dell'impianto eolico per la produzione di energia elettrica proposto dalla società **Wpd Altilia S.r.l. s.r.l.** con sede in *Corso d'Italia n. 83 - 00198 ROMA*.

La proposta progettuale è finalizzata alla realizzazione di un impianto eolico per la produzione di energia elettrica da fonte rinnovabile eolica, costituito da 12 aerogeneratori, ciascuno di potenza nominale pari a 6,0 MW per una potenza complessiva di 72,00 MW, da realizzarsi nella Provincia di Bari, nel territorio comunale di Altamura, in cui ricadono gli aerogeneratori e l'elettrodotto, e le opere di connessione alla RTN.

Il parco eolico di progetto sarà ubicato in località Lama di Nebbia, nell'area a sud-ovest dell'abitato di Altamura, ad una distanza dal centro abitato di circa 4,3 km.

I terreni sui quali si installerà il parco eolico, interessa una superficie di circa 450 ettari, anche se la quantità di suolo effettivamente occupato è significativamente inferiore e limitato alle aree di piazzole dove verranno installati gli aerogeneratori, come visibile sugli elaborati planimetrici allegati al progetto.

L'area di progetto, intesa sia come quella occupata dai 12 aerogeneratori di progetto, con annesso piazzole e relativi cavidotti di interconnessione interna, e del cavidotto esterno e la sottostazione di consegna interessa il territorio comunale di Altamura censito al NCT ai fogli di mappa nn. 236, 238, 256, 258, 259, 260, 260, e 280.

Di seguito si riporta la tabella riepilogativa, in cui sono indicate per ciascun aerogeneratore le relative coordinate (UTM fuso 33) e le particelle catastali, con riferimento al catasto dei terreni del Comune di Altamura.

Tabella dati geografici e catastali degli Aerogeneratori:

WTG	COORDINATE GEOGRAFICHE		COORDINATE PLANIMETRICHE UTM33 WGS 84		DATI CATASTALI		
	LATITUDINE	LONGITUDINE	NORD (Y)	EST (X)	Comune	foglio n.	part. n.
01	40° 46' 33.7309"	16° 31' 34.6390"	4515016	628799	Altamura	236	446/300
02	40° 46' 14.2361"	16° 31' 30.0979"	4514413	628703	Altamura	236	137



03	40° 45' 56.1586"	16° 31' 4.1358"	4513845	628104	Altamura	256	125/50
04	40° 45' 38.7083"	16° 30' 52.0528"	4513302	627830	Altamura	256	79
05	40° 45' 13.4433"	16° 30' 52.2469"	4512523	627848	Altamura	258	2
06	40° 45' 16.4986"	16° 31' 16.3683"	4512627	628412	Altamura	259	52
07	40° 45' 30.3883"	16° 31' 27.9013"	4513060	628675	Altamura	259	172
08	40° 45' 44.9397"	16° 31' 45.7632"	4513516	629086	Altamura	260	249
09	40° 46' 6.0786"	16° 32' 0.7930"	4514174	629427	Altamura	238	69
10	40° 44' 43.0468"	16° 31' 49.5468"	4511609	629208	Altamura	280	217
11	40° 45' 6.4927"	16° 31' 54.4767"	4512334	629311	Altamura	260	192-562
12	40° 45' 26.9900"	16° 32' 18.7018"	4512976	629868	Altamura	260	201

2 ANALISI DELL'ESPOSIZIONE SOLARE ANNUALE

La posizione occupata nel cielo dal sole è compiutamente individuata mediante la misura di due coordinate angolari, azimut ed elevazione (altezza). L'azimut viene misurato, in senso orario, sul piano orizzontale, a partire dal nord geografico fino al punto sull'orizzonte direttamente sotto all'oggetto; l'elevazione, invece, viene misurata sul piano verticale, partendo da tale punto sino ad arrivare in corrispondenza dell'oggetto. A causa del moto della Terra intorno al sole, tali coordinate variano senza soluzione di continuità e la traiettoria descritta nel cielo dal sole è assimilabile ad un arco; ogni giorno si caratterizza per un proprio arco, il quale si discosta, se pur di poco, da quello del giorno immediatamente precedente e successivo. Ad ogni modo, si può affermare che un certo arco si ripete quasi esattamente ogni anno. Dicesi giorno l'intervallo di tempo nel quale giunge al suolo luce solare diretta per cui, la sua durata è pari al tempo che intercorre tra alba e tramonto.

La durata del giorno non coincide con la durata della luce naturale dato che sia prima dell'alba che dopo il tramonto sono rilevabili due periodi, chiamati entrambi crepuscolo (rispettivamente crepuscolo mattutino e crepuscolo serale o serotino), durante i quali giunge a terra una luce diffusa naturale fornita dai livelli più esterni dell'atmosfera i quali, trovandosi a quote più elevate, ricevono infatti luce solare diretta per un tempo più lungo riflettendola in parte verso la terra. Per quanto detto, la durata dell'illuminazione solare è pari alla somma della durata del giorno e della durata del crepuscolo mattutino e serale. Se non si verificasse il fenomeno descritto, il passaggio dal giorno alla notte e viceversa avverrebbe in maniera repentina.

3 VALUTAZIONE PREVENTIVA DELLE OMBRE GENERATE

Le turbine eoliche, come altre strutture spiccatamente sviluppate in altezza, proiettano un'ombra sulle aree adiacenti in presenza della luce solare diretta. In particolare si hanno fenomeni quasi statici legati alla presenza della torre fissa ed effetti dinamici legati alla rotazione del rotore con le sue tre pale.

Il primo fenomeno potrebbe avere come conseguenza l'incremento della probabilità di formazione di ghiaccio sulle strade asfaltate soggette a rilevante traffico (se presenti) in particolare nelle prime ed ultime ore del giorno.

Il secondo fenomeno è legato alla presenza di un osservatore posto in modo da vedere interposto il rotore tra sé e il sole. Si precisa che i fenomeni di ombreggiamento descritti attualmente non sono regolati da una specifica normativa.

Ai fini della presente trattazione è stato preso in considerazione un modello tipologico di aerogeneratore avente un'altezza massima (altezza al mozzo + lunghezza della pala) pari a 250 m dato che l'apparecchio effettivamente installato non avrà un'altezza massima superiore a tale valore. È stato stimato l'effetto "flicker" prodotto dall'impianto eolico; trattasi di un fenomeno per cui si genera una intermittenza dell'ombra (una sorta di effetto stroboscopico) a seguito del movimento del rotore dell'aerogeneratore quando in esercizio (in particolare quando il piano del rotore risulta perpendicolare alla congiungente tra l'osservatore e il sole), e che potrebbe risultare spiacevole per un osservatore. Per eseguire tale analisi è stato impiegato il software WindPRO.

Nel calcolo sono state assunte le seguenti ipotesi ampiamente conservative (caso peggiore – *worst case*):

- Sole splendente tutto il giorno e per tutto l'anno;
- Impianto costantemente in funzione (presenza costante di vento);
- Piano del rotore sempre ortogonale alla congiungente tra l'osservatore e il sole;
- Altezza minima del sole sull'orizzonte pari a 3°;
- Effetto dell'ombra proiettata fino a una distanza di 2000 m dalle torri;
- Totale assenza di ostacoli o schermi vegetazionali presenti negli spazi circostanti i possibili recettori.

Il report di calcolo restituisce un grafico finale che riporta in pianta il numero massimo di ore/anno in cui ad altezza dell'occhio umano si verifica l'effetto flicker descritto. Tale numero è rappresentato graficamente sul territorio con aree di diverse sfumature di colore in base al numero di ore/anno di possibile effetto flicker.



Di seguito viene allegato il calcolo dell'ombra per i fabbricati "civile abitazione", maggiormente coinvolti dall'effetto flicker, presenti nel raggio di 1 km.

Dai tabulati è possibile verificare che, nonostante sono assunte le condizioni peggiorative assolute, cioè:

- cioè sole sempre presente, soleggiamento massimo in tutti i giorni dell'anno;
- pale eoliche sempre in rotazione;
- orientamento delle finestre sempre in direzione delle turbine ("modalità serra")
- dimensione tipica finestra 1,5x1,5 m, in tutte le esposizioni, altezza della finestra da terra 1 m
- altezza occhio umano 1,5 m

l'effetto ombra è modesto per gli immobili presenti nell'area di progetto, infatti

- **la massima durata dell'ombra all'anno è di 295:34 ore/anno con un ombreggiamento giornaliero massimo di 1:42 ore/giorno;**
- **sempre dai tabulati risulta che la media di ombreggiamento sui ricettori è di circa 1 ora/giorno.**

I risultati ottenuti sono riportati nella tavola seguente:

SHADOW - Risultato principale

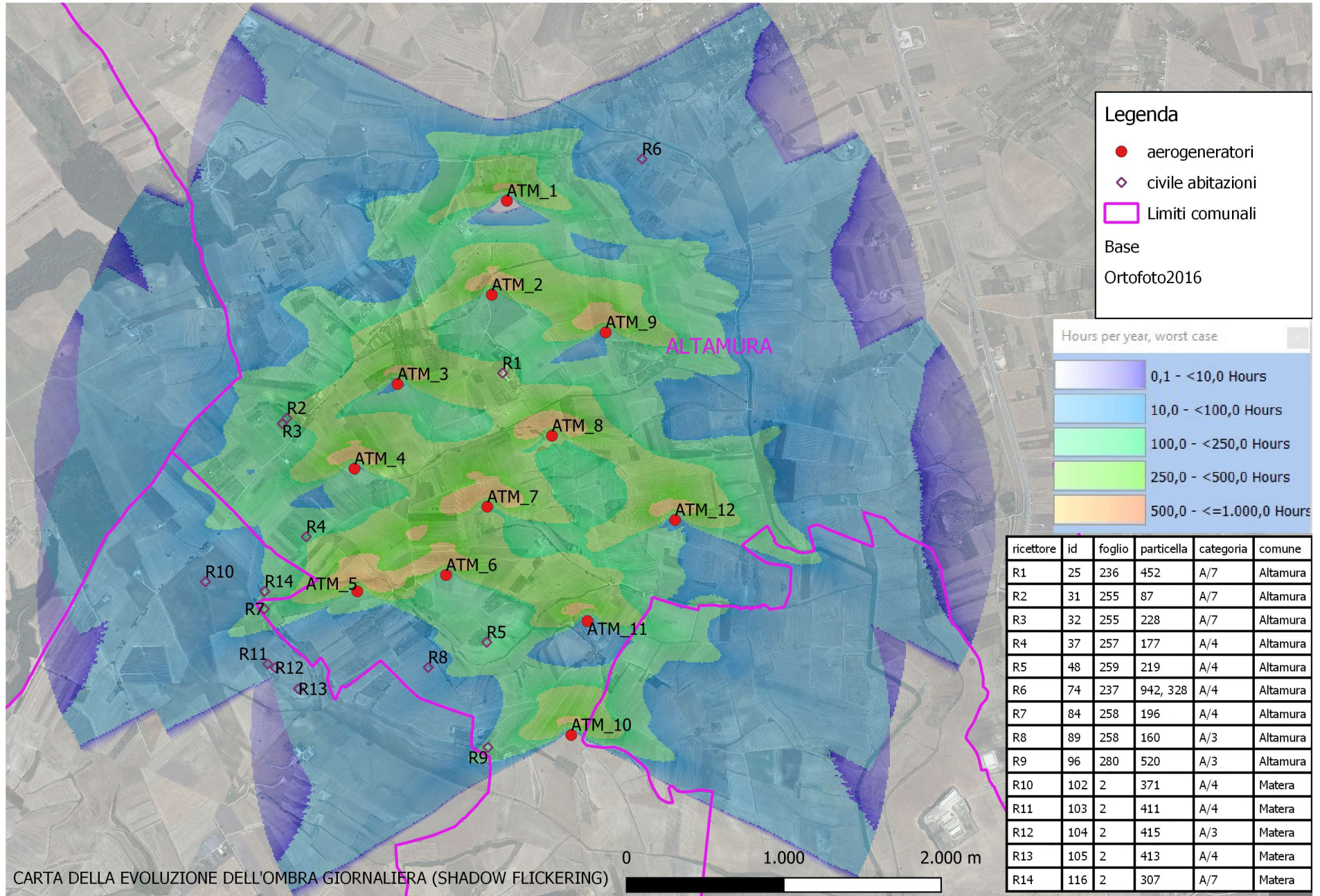
Calcolo: Flicker Altamura su recettori

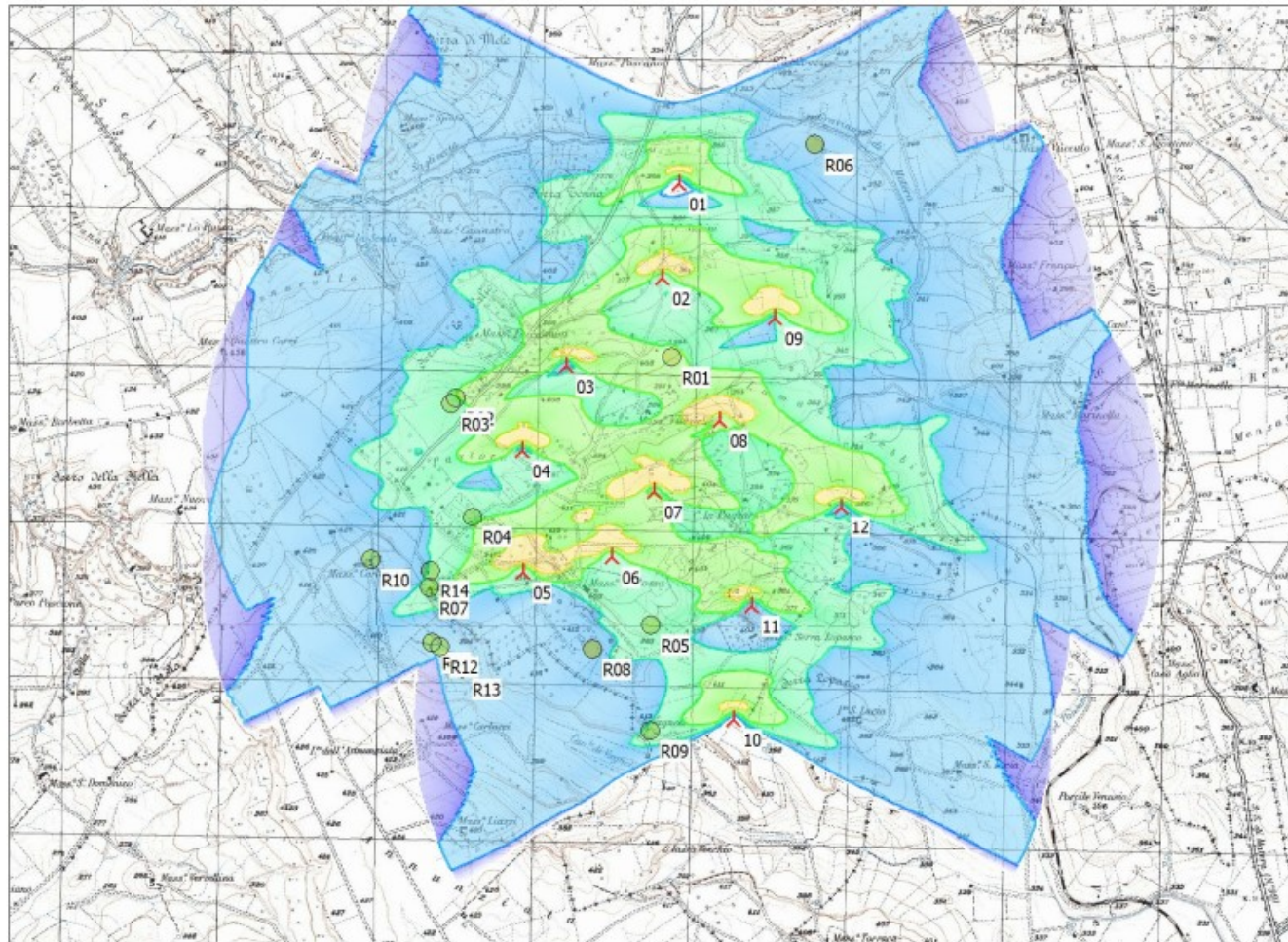
Risultati dei calcoli

Recettore d'ombra

Ombra, caso peggiore

n.	Ore d'ombra per anno [ore/anno]	Giorni con ombra per anno [giorni/anno]	Massima durata dell'ombra per giorno [ore/giorno]
R01	295:34	286	1:42
R02	243:12	286	1:41
R03	206:27	261	1:40
R04	225:37	280	1:23
R05	197:01	206	1:26
R06	59:28	116	0:43
R07	158:43	144	1:23
R08	69:12	165	0:40
R09	139:12	146	1:12
R10	43:30	84	0:56
R11	35:08	88	0:34
R12	29:20	99	0:29
R13	15:07	60	0:23
R14	111:03	138	1:25



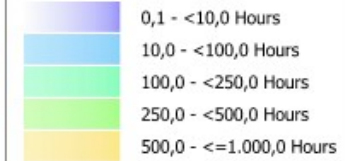


Progetto:
Altamura

Ore per anno, caso peggiore



Ore per anno, caso peggiore



**SHADOW -
Mappa
Calcolo:**

Flicker Altamura su recettori

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Recetto il:

04/02/2021 13:02/3.4.415

0 500 1000 1500 2000 m

▲ Nuova WTG

● Recettore d'ombra

Mappa: IGM maps 1:25000 , Scala di stampa 1:40.000, Centro mappa UTM (north)-WGS84 Zone: 33 Est: 628.630 Nord: 4.513.090

Fonte altimetria: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (1)

4 CONCLUSIONE

Per quanto concerne l'effetto "flicker", quindi, valutando i risultati ottenuti in relazione al contesto antropico locale, si può ragionevolmente affermare che il fenomeno non ha particolari riflessi negativi sul territorio, dove i primi fabbricati adibiti a civile abitazioni sono in numero limitato e a distanze sempre superiori a diverse centinaia di metri, distanze oltre le quali il fenomeno di ombreggiamento è praticamente modesto, infatti la media di ombreggiamento sui ricettori è di circa 1 ora/giorno.

Pur nelle ipotesi conservative assunte, la probabilità che un osservatore sia soggetto al fenomeno non è significativa, se si riportano i risultati numerici ai casi reali con le dovute attenuazioni di origine morfologica e meteorologica del territorio.

TABULATI DI CALCOLO

SHADOW - Risultato principale

Calcolo: Flicker Altamura su recettori
Assunzioni sui calcoli d'ombra

Distanza massima di influenza
Calcola solo quando oltre il 20% del sole è coperto dalla pala
Consultare la tabella delle WTG

Altezza minima del sole sull'orizzonte 3 °
Passo giornaliero del calcolo 1 giorni
Passo temporale del calcolo 1 minuti
I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il dì, dall'alba al tramonto
Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
La turbina è costantemente operativa

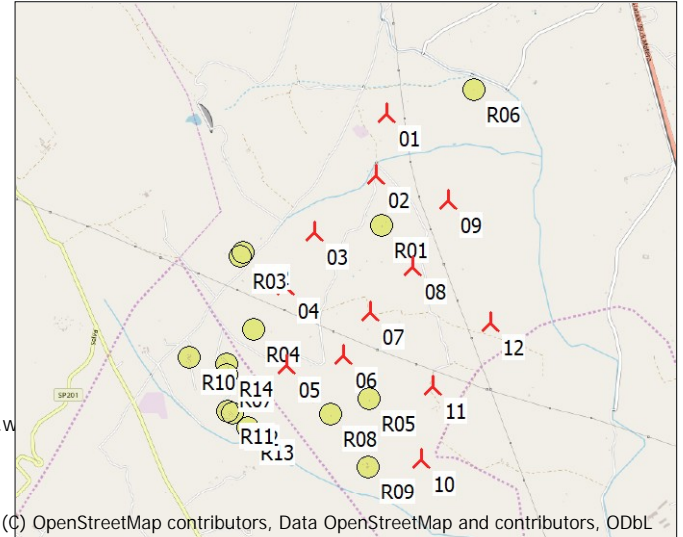
Per evitare di considerare l' ombreggiamento da WTG in realtà non direttamente visibili, prima del calcolo dell' ombra viene eseguito un calcolo ZVI. Quest' ultimo si basa sulle seguenti assunzioni.

Curve altimetriche usate: Height Contours: CONTOURLINE_ONLINEDATA_0.w

Ostacoli usati:

Altezza dell'osservatore, nelle mappe:: 1,5 m
Risoluzione del grigliato: 1,0 m

Tutte le coordinate sono in
UTM (north)-WGS84 Zona: 33



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

Scala 1:75.000

▲ Nuova WTG

● Recettore d'ombra

WTG

Easting	Northing	Z	Dati/Descrizione	Tipo di WTG		Tipo generatore	Potenza nominale	Diametro rotore	Altezza mozzo	Dati di ombra	
				Valida	Produttore					Distanza di calcolo	giri/min
01	628.799	4.515.016	361,2 Siemens Gamesa S... Si	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8	
02	628.703	4.514.413	370,0 Siemens Gamesa S... Si	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8	
03	628.104	4.513.845	406,5 Siemens Gamesa S... Si	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8	
04	627.830	4.513.302	410,0 Siemens Gamesa S... Si	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8	
05	627.848	4.512.523	410,0 Siemens Gamesa S... Si	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8	
06	628.412	4.512.627	410,0 Siemens Gamesa S... Si	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8	
07	628.675	4.513.060	401,7 Siemens Gamesa S... Si	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8	
08	629.086	4.513.516	380,0 Siemens Gamesa S... Si	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8	
09	629.427	4.514.174	360,0 Siemens Gamesa S... Si	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8	
10	629.208	4.511.609	400,0 Siemens Gamesa S... Si	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8	
11	629.311	4.512.334	382,6 Siemens Gamesa S... Si	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8	
12	629.868	4.512.976	363,1 Siemens Gamesa S... Si	Siemens Gamesa	SG 6.0-170-6.200	6.200	170,0	165,0	2.037	8,8	

Recettore d'ombra-Immissione dati

n.	Easting	Northing	Z	Ampiezza	Height	Altezza s.l.t.	Inclinazione della finestra	Modo orientazione	Altezza osservatore
	[m]	[m]	[m]	[m]	[m]	[m]	[°]		[m]
R01	628.771	4.513.915	396,2	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R02	627.401	4.513.628	410,6	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R03	627.372	4.513.593	411,6	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R04	627.524	4.512.870	413,9	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R05	628.671	4.512.200	397,1	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R06	629.659	4.515.281	350,0	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R07	627.257	4.512.412	410,3	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R08	628.299	4.512.040	408,8	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R09	628.679	4.511.531	400,0	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R10	626.882	4.512.584	419,0	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R11	627.279	4.512.062	410,0	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R12	627.326	4.512.038	410,0	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R13	627.475	4.511.900	403,8	2,0	2,0	0,0	90,0	"Modalità serra"	2,0
R14	627.260	4.512.523	412,3	2,0	2,0	0,0	90,0	"Modalità serra"	2,0

SHADOW - Risultato principale

Calcolo: Flicker Altamura su recettori

Risultati dei calcoli

Recettore d'ombra

Ombraggio, caso peggiore

n.	Ore d'ombra per anno	Giorni con ombra per anno	Massima durata dell'ombra per giorno
	[ore/anno]	[giorni/anno]	[ore/giorno]
R01	295:34	286	1:42
R02	243:12	286	1:41
R03	206:27	261	1:40
R04	225:37	280	1:23
R05	197:01	206	1:26
R06	59:28	116	0:43
R07	158:43	144	1:23
R08	69:12	165	0:40
R09	139:12	146	1:12
R10	43:30	84	0:56
R11	35:08	88	0:34
R12	29:20	99	0:29
R13	15:07	60	0:23
R14	111:03	138	1:25

Ombreggiamento totale sui recettori d'ombra causato da ciascuna WTG

n.	Nome	Caso peggiore [ore/anno]
01	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (1)	31:10
02	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (2)	33:15
03	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (3)	154:47
04	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (4)	182:55
05	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (5)	392:33
06	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (6)	107:23
07	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (7)	93:30
08	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (8)	138:35
09	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (9)	88:10
10	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (10)	229:38
11	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (11)	131:09
12	Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (12)	9:47

I tempi totali possono differire tra le tabelle per turbina e quelle per recettore, in quanto ciascuna WTG può dare ombreggiamento su 2 o più recettori contemporaneamente, e/o un recettore può subire ombreggiamento da 2 o più WTGs contemporaneamente.

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R01 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (1)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il di, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:19	08:06 (12)	07:06	09:00 (08)	06:30	06:40	17:33 (03)	05:54		05:26	05:58 (09)	
	16:37	92	09:59 (08)	17:11	91	16:30 (04)	17:45	19:18	56	18:29 (03)	19:50	20:19
2	07:19	08:08 (12)	07:05	09:00 (08)	06:28	06:38	17:32 (03)	05:53		06:24 (09)	05:25	60
	16:38	89	10:00 (08)	17:12	89	16:29 (04)	17:46	19:19	56	18:28 (03)	19:51	7
3	07:19	08:10 (12)	07:04	09:02 (08)	06:27	06:36	17:33 (03)	05:52		06:19 (09)	05:25	59
	16:39	85	10:00 (08)	17:13	85	16:29 (04)	17:47	19:20	56	18:29 (03)	19:52	18
4	07:19	08:40 (08)	07:03	09:04 (08)	06:25	06:35	17:32 (03)	05:50		06:16 (09)	05:24	60
	16:39	80	10:00 (08)	17:15	80	16:29 (04)	17:48	19:21	56	18:28 (03)	19:53	24
5	07:19	08:40 (08)	07:02	09:06 (08)	06:24	06:33	17:31 (03)	05:49		06:13 (09)	05:24	59
	16:40	81	10:01 (08)	17:16	76	16:29 (04)	17:49	19:22	57	18:28 (03)	19:54	29
6	07:19	08:41 (08)	07:00	09:08 (08)	06:22	06:31	17:32 (03)	05:48		06:10 (09)	05:24	59
	16:41	80	10:01 (08)	17:17	71	16:29 (04)	17:50	19:23	56	18:28 (03)	19:55	33
7	07:19	08:42 (08)	06:59	09:11 (08)	06:21	06:30	17:31 (03)	05:47		06:09 (09)	05:24	59
	16:42	80	10:02 (08)	17:18	63	16:28 (04)	17:51	19:25	56	18:27 (03)	19:56	36
8	07:19	08:42 (08)	06:58	09:14 (08)	06:19	06:28	17:32 (03)	05:46		06:07 (09)	05:23	59
	16:43	80	10:02 (08)	17:20	56	16:28 (04)	17:52	19:26	55	18:27 (03)	19:57	39
9	07:19	08:42 (08)	06:57	09:19 (08)	06:18	06:27	17:32 (03)	05:45		06:06 (09)	05:23	59
	16:44	80	10:02 (08)	17:21	44	16:27 (04)	17:54	19:27	54	18:26 (03)	19:58	42
10	07:18	08:43 (08)	06:56	15:59 (04)	06:16	06:25	17:32 (03)	05:43		06:05 (09)	05:23	59
	16:45	79	10:02 (08)	17:22	27	16:26 (04)	17:55	19:28	53	18:25 (03)	19:59	44
11	07:18	08:44 (08)	06:55	16:00 (04)	06:14	06:23	17:33 (03)	05:42		06:04 (09)	05:23	58
	16:46	79	10:03 (08)	17:23	25	16:25 (04)	17:56	19:29	52	18:25 (03)	20:00	46
12	07:18	08:43 (08)	06:54	16:02 (04)	06:13	06:22	17:33 (03)	05:41		06:03 (09)	05:23	58
	16:47	79	10:02 (08)	17:24	21	16:23 (04)	17:57	19:30	50	18:23 (03)	20:01	47
13	07:18	08:44 (08)	06:52	16:05 (04)	06:11	06:20	17:34 (03)	05:40		06:02 (09)	05:22	59
	16:48	83	16:08 (04)	17:26	16	16:21 (04)	17:58	19:31	49	18:23 (03)	20:02	49
14	07:17	08:45 (08)	06:51	16:08 (04)	06:09	06:19	17:34 (03)	05:39		06:02 (09)	05:22	58
	16:50	89	16:12 (04)	17:27	9	16:17 (04)	17:59	19:32	47	18:21 (03)	20:03	50
15	07:17	08:45 (08)	06:50		06:08	06:17	17:35 (03)	05:38		06:01 (09)	05:22	58
	16:51	93	16:14 (04)	17:28		18:00	19:33	46	18:21 (03)	20:04	51	51
16	07:17	08:46 (08)	06:48		06:06	06:16	17:36 (03)	05:37		06:00 (09)	05:22	58
	16:52	95	16:16 (04)	17:29		18:01	19:34	43	18:19 (03)	20:05	53	53
17	07:16	08:47 (08)	06:47		06:05	06:14	17:37 (03)	05:36		06:01 (09)	05:22	58
	16:53	97	16:18 (04)	17:31		18:02	19:35	41	18:18 (03)	20:06	53	53
18	07:16	08:48 (08)	06:46		06:03	06:13	17:38 (03)	05:35		06:00 (09)	05:23	58
	16:54	98	16:20 (04)	17:32		18:03	19:36	38	18:16 (03)	20:07	54	54
19	07:15	08:48 (08)	06:44		06:01	06:11	17:40 (03)	05:34		06:00 (09)	05:23	58
	16:55	99	16:20 (04)	17:33		18:04	19:37	35	18:15 (03)	20:08	55	55
20	07:15	08:48 (08)	06:43		06:00	06:10	17:41 (03)	05:34		05:59 (09)	05:23	59
	16:56	100	16:21 (04)	17:34		18:06	19:38	31	18:12 (03)	20:09	56	56
21	07:14	08:50 (08)	06:42		05:58	06:08	17:43 (03)	05:33		05:58 (09)	05:23	59
	16:58	101	16:23 (04)	17:35		18:07	19:39	27	18:10 (03)	20:10	57	57
22	07:13	08:50 (08)	06:40		05:56	06:07	17:45 (03)	05:32		05:59 (09)	05:23	59
	16:59	102	16:24 (04)	17:36		18:08	19:40	22	18:07 (03)	20:11	57	57
23	07:13	08:50 (08)	06:39		05:55	06:05	17:49 (03)	05:31		05:59 (09)	05:23	59
	17:00	102	16:24 (04)	17:38		18:09	19:41	15	18:04 (03)	20:11	57	57
24	07:12	08:52 (08)	06:37		05:53	06:04	17:50 (03)	05:30		05:58 (09)	05:24	58
	17:01	102	16:26 (04)	17:39		18:10	19:42		20:12	58	06:56 (09)	20:30
25	07:11	08:53 (08)	06:36		05:51	06:02	17:51 (03)	05:29		05:59 (09)	05:24	58
	17:02	102	16:27 (04)	17:40		18:11	19:43		20:13	58	06:57 (09)	20:30
26	07:11	08:53 (08)	06:34		05:50	06:01	17:52 (03)	05:28		05:58 (09)	05:24	58
	17:03	101	16:27 (04)	17:41		18:12	19:44		20:14	58	06:56 (09)	20:30
27	07:10	08:54 (08)	06:33		05:48	06:00	17:53 (03)	05:27		05:58 (09)	05:25	58
	17:05	100	16:28 (04)	17:42		18:13	19:45		20:15	58	06:56 (09)	20:30
28	07:09	08:55 (08)	06:32		05:46	06:00	17:54 (03)	05:26		05:58 (09)	05:25	58
	17:06	98	16:28 (04)	17:43		18:14	19:47		20:16	59	06:57 (09)	20:30
29	07:08	08:56 (08)			06:45	06:57	17:55 (03)	05:25		05:58 (09)	05:25	58
	17:07	97	16:28 (04)		19:15	19:48	18:28 (03)	05:24		20:17	59	06:57 (09)
30	07:07	08:57 (08)			06:43	06:56	17:56 (03)	05:23		05:58 (09)	05:26	59
	17:08	96	16:29 (04)		19:16	19:49	18:29 (03)	05:22		20:17	59	06:57 (09)
31	07:06	08:58 (08)			06:41	06:54	17:57 (03)	05:21		05:58 (09)	05:26	59
	17:10	93	16:29 (04)		19:17	19:50	18:29 (03)	05:20		20:18	59	06:57 (09)
Ore potenziali eliofanìa	298		298		369		398		448		451	1761
Totale, caso peggiore	2832		753		598		1051		1425		451	1761

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento)
Tramonto (hh:mm)Minuti d'ombra Fine ombreggiamento (hh:mm) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R01 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (1)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:26	06:05 (09)	05:50	06:14 (09)	06:20	17:32 (03)	06:50	06:24	15:28 (04)	06:58	08:26 (08)	
	20:30	58 07:03 (09)	20:11	47 07:01 (09)	19:28	52 18:24 (03)	18:38	16:52	28 15:56 (04)	16:28	79 09:45 (08)	
2	05:27	06:05 (09)	05:51	06:15 (09)	06:21	17:31 (03)	06:51	06:25	08:47 (08)	06:59	08:26 (08)	
	20:30	58 07:03 (09)	20:10	45 07:00 (09)	19:27	53 18:24 (03)	18:36	16:51	46 15:56 (04)	16:28	79 09:45 (08)	
3	05:27	06:05 (09)	05:52	06:16 (09)	06:22	17:30 (03)	06:52	06:26	08:43 (08)	07:00	08:26 (08)	
	20:29	59 07:04 (09)	20:09	43 06:59 (09)	19:25	54 18:24 (03)	18:35	16:49	57 15:58 (04)	16:27	80 09:46 (08)	
4	05:28	06:05 (09)	05:53	06:17 (09)	06:23	17:29 (03)	06:53	06:27	08:40 (08)	07:01	08:26 (08)	
	20:29	59 07:04 (09)	20:08	41 06:58 (09)	19:23	55 18:24 (03)	18:33	16:48	65 15:58 (04)	16:27	80 09:46 (08)	
5	05:28	06:05 (09)	05:54	06:19 (09)	06:24	17:29 (03)	06:54	06:28	08:37 (08)	07:02	08:27 (08)	
	20:29	59 07:04 (09)	20:07	37 06:56 (09)	19:22	55 18:24 (03)	18:32	16:47	72 15:59 (04)	16:27	80 09:47 (08)	
6	05:29	06:05 (09)	05:55	06:20 (09)	06:25	17:28 (03)	06:55	06:30	08:35 (08)	07:03	08:27 (08)	
	20:29	59 07:04 (09)	20:05	35 06:55 (09)	19:20	56 18:24 (03)	18:30	16:46	77 15:59 (04)	16:27	80 09:47 (08)	
7	05:30	06:06 (09)	05:56	06:21 (09)	06:26	17:27 (03)	06:56	06:31	08:34 (08)	07:04	08:27 (08)	
	20:29	59 07:05 (09)	20:04	31 06:52 (09)	19:19	57 18:24 (03)	18:28	16:45	81 16:00 (04)	16:27	81 09:48 (08)	
8	05:30	06:06 (09)	05:57	06:23 (09)	06:27	17:27 (03)	06:57	06:32	08:33 (08)	07:05	08:28 (08)	
	20:28	59 07:05 (09)	20:03	27 06:50 (09)	19:17	56 18:23 (03)	18:27	16:44	85 16:00 (04)	16:27	81 09:49 (08)	
9	05:31	06:06 (09)	05:58	06:25 (09)	06:28	17:27 (03)	06:58	06:33	08:31 (08)	07:06	08:00 (12)	
	20:28	59 07:05 (09)	20:02	23 06:48 (09)	19:15	56 18:23 (03)	18:25	16:43	89 16:00 (04)	16:27	84 09:49 (08)	
10	05:31	06:06 (09)	05:59	06:29 (09)	06:29	17:25 (03)	06:59	06:34	08:31 (08)	07:07	07:57 (12)	
	20:28	59 07:05 (09)	20:00	15 06:44 (09)	19:14	57 18:22 (03)	18:23	16:42	91 16:01 (04)	16:27	89 09:49 (08)	
11	05:32	06:07 (09)	06:00	06:30 (09)	06:30	17:25 (03)	07:00	06:35	08:30 (08)	07:08	07:57 (12)	
	20:27	59 07:06 (09)	19:59	19:12	56 18:21 (03)	18:22	16:41	94 16:01 (04)	16:27	91 09:49 (08)		
12	05:33	06:06 (09)	06:01	06:31 (09)	06:31	17:25 (03)	07:01	06:37	08:29 (08)	07:09	07:56 (12)	
	20:27	59 07:05 (09)	19:58	19:10	55 18:20 (03)	18:20	16:40	95 16:00 (04)	16:27	93 09:50 (08)		
13	05:34	06:07 (09)	06:02	06:32 (09)	06:32	17:25 (03)	07:02	06:38	08:28 (08)	07:09	07:56 (12)	
	20:26	59 07:06 (09)	19:57	19:09	55 18:20 (03)	18:19	16:39	97 16:00 (04)	16:27	94 09:51 (08)		
14	05:34	06:07 (09)	06:03	06:33 (09)	06:33	17:25 (03)	07:03	06:39	08:28 (08)	07:10	07:56 (12)	
	20:26	59 07:06 (09)	19:55	19:07	54 18:19 (03)	18:17	16:38	99 16:01 (04)	16:27	96 09:51 (08)		
15	05:35	06:07 (09)	06:04	06:34 (09)	06:34	17:25 (03)	07:05	06:40	08:27 (08)	07:11	07:56 (12)	
	20:25	58 07:05 (09)	19:54	19:05	53 18:18 (03)	18:16	16:37	99 16:00 (04)	16:27	96 09:51 (08)		
16	05:36	06:07 (09)	06:05	06:35 (09)	06:35	17:26 (03)	07:06	06:41	08:26 (08)	07:12	07:56 (12)	
	20:24	59 07:06 (09)	19:52	19:03	51 18:17 (03)	18:14	16:36	101 16:00 (04)	16:28	97 09:52 (08)		
17	05:37	06:07 (09)	06:06	06:36 (09)	06:36	17:26 (03)	07:07	06:43	08:26 (08)	07:12	07:57 (12)	
	20:24	59 07:06 (09)	19:51	19:02	50 18:16 (03)	18:13	16:36	102 16:00 (04)	16:28	97 09:53 (08)		
18	05:37	06:08 (09)	06:07	06:37 (09)	06:37	17:27 (03)	07:08	06:44	08:26 (08)	07:13	07:56 (12)	
	20:23	58 07:06 (09)	19:50	19:00	47 18:14 (03)	18:11	16:35	102 16:00 (04)	16:28	98 09:53 (08)		
19	05:38	06:08 (09)	06:08	06:38 (09)	06:38	17:27 (03)	07:09	06:45	08:25 (08)	07:13	07:57 (12)	
	20:23	58 07:06 (09)	19:48	18:58	46 18:13 (03)	18:10	16:34	102 15:59 (04)	16:29	99 09:54 (08)		
20	05:39	06:08 (09)	06:08	17:54 (03)	06:39	17:28 (03)	07:10	06:46	08:25 (08)	07:14	07:57 (12)	
	20:22	57 07:05 (09)	19:47	18:10 (03)	18:57	43 18:11 (03)	18:08	16:33	102 15:59 (04)	16:29	99 09:54 (08)	
21	05:40	06:08 (09)	06:09	17:50 (03)	06:40	17:29 (03)	07:11	06:47	08:25 (08)	07:15	07:58 (12)	
	20:21	57 07:05 (09)	19:45	18:13 (03)	18:55	40 18:09 (03)	18:07	16:33	101 15:58 (04)	16:30	99 09:55 (08)	
22	05:41	06:09 (09)	06:10	17:48 (03)	06:41	17:31 (03)	07:12	06:48	08:24 (08)	07:15	07:58 (12)	
	20:20	56 07:05 (09)	19:44	18:16 (03)	18:53	36 18:07 (03)	18:05	16:32	100 15:57 (04)	16:30	99 09:55 (08)	
23	05:42	06:09 (09)	06:11	17:45 (03)	06:42	17:32 (03)	07:13	06:50	08:25 (08)	07:16	07:59 (12)	
	20:20	56 07:05 (09)	19:42	18:17 (03)	18:52	33 18:05 (03)	18:04	16:31	99 15:57 (04)	16:31	99 09:56 (08)	
24	05:43	06:10 (09)	06:12	17:43 (03)	06:43	17:35 (03)	07:14	06:51	08:25 (08)	07:16	07:59 (12)	
	20:19	55 07:05 (09)	19:41	18:19 (03)	18:50	27 18:02 (03)	18:02	16:31	98 15:57 (04)	16:31	99 09:56 (08)	
25	05:43	06:10 (09)	06:13	17:41 (03)	06:44	17:38 (03)	06:16	06:52	08:25 (08)	07:17	08:00 (12)	
	20:18	55 07:05 (09)	19:39	18:19 (03)	18:48	21 17:59 (03)	17:01	16:30	97 15:56 (04)	16:32	98 09:57 (08)	
26	05:44	06:11 (09)	06:14	17:39 (03)	06:45	17:43 (03)	06:17	06:53	08:24 (08)	07:17	08:01 (12)	
	20:17	54 07:05 (09)	19:38	18:20 (03)	18:47	10 17:53 (03)	17:00	16:30	95 15:54 (04)	16:32	97 09:57 (08)	
27	05:45	06:11 (09)	06:15	17:38 (03)	06:46	06:18	06:18	06:54	08:24 (08)	07:17	08:01 (12)	
	20:16	53 07:04 (09)	19:36	18:21 (03)	18:45	16:58	16:58	16:29	93 15:53 (04)	16:33	97 09:57 (08)	
28	05:46	06:11 (09)	06:16	17:36 (03)	06:47	06:19	15:36 (04)	06:55	08:24 (08)	07:18	08:02 (12)	
	20:15	52 07:03 (09)	19:35	18:22 (03)	18:43	16:57	12 15:48 (04)	16:29	89 15:51 (04)	16:34	96 09:57 (08)	
29	05:47	06:12 (09)	06:17	17:35 (03)	06:48	06:20	15:33 (04)	06:56	08:25 (08)	07:18	08:03 (12)	
	20:14	51 07:03 (09)	19:33	18:22 (03)	18:41	16:56	18 15:51 (04)	16:29	83 15:49 (04)	16:34	96 09:58 (08)	
30	05:48	06:13 (09)	06:18	17:34 (03)	06:49	06:21	15:32 (04)	06:57	08:26 (08)	07:18	08:04 (12)	
	20:13	49 07:02 (09)	19:32	18:23 (03)	18:40	16:54	21 15:53 (04)	16:28	78 09:44 (08)	16:35	94 09:59 (08)	
31	05:49	06:13 (09)	06:19	17:33 (03)	06:19	06:23	15:30 (04)	06:23	08:26 (08)	07:18	08:05 (12)	
	20:12	49 07:02 (09)	19:30	18:23 (03)	06:19	16:53	25 15:55 (04)	16:28	78 09:44 (08)	16:35	94 09:59 (08)	
Ore potenziali eliofanìa	458		427		375		346		299		289	
Totale, caso peggiore	1760		793		1228		76		2617		2840	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento)
Tramonto (hh:mm)Minuti d'ombra Fine ombreggiamento (hh:mm) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R02 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (2)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:19	08:17 (04)	07:06	07:26 (07)	06:30	08:23 (04)	06:40	05:54	06:30 (03)	05:26	06:20 (03)	
	16:37	30 08:47 (04)	17:11	87 09:18 (04)	17:45	32 08:55 (04)	19:18	19:50	34 07:04 (03)	20:19	52 07:12 (03)	
2	07:19	08:17 (04)	07:05	07:25 (07)	06:29	08:25 (04)	06:38	05:53	06:27 (03)	05:25	06:20 (03)	
	16:38	31 08:48 (04)	17:12	90 09:18 (04)	17:46	26 08:51 (04)	19:19	19:51	38 07:05 (03)	20:20	53 07:13 (03)	
3	07:19	08:16 (04)	07:04	07:24 (07)	06:27	08:30 (04)	06:36	05:52	06:26 (03)	05:25	06:20 (03)	
	16:39	33 08:49 (04)	17:13	93 09:19 (04)	17:47	17 08:47 (04)	19:20	19:52	40 07:06 (03)	20:20	52 07:12 (03)	
4	07:19	08:16 (04)	07:03	07:22 (07)	06:25		06:35	05:51	06:25 (03)	05:25	05:46 (02)	
	16:40	35 08:51 (04)	17:15	95 09:18 (04)	17:48		19:21	19:53	42 07:07 (03)	20:21	52 07:12 (03)	
5	07:19	08:16 (04)	07:02	07:21 (07)	06:24		06:33	05:49	06:24 (03)	05:24	05:46 (02)	
	16:40	36 08:52 (04)	17:16	97 09:18 (04)	17:49		19:22	19:54	44 07:08 (03)	20:22	54 07:13 (03)	
6	07:19	08:15 (04)	07:01	07:20 (07)	06:22		06:32	05:48	06:23 (03)	05:24	05:45 (02)	
	16:41	38 08:53 (04)	17:17	99 09:18 (04)	17:50		19:24	19:55	46 07:09 (03)	20:22	55 07:12 (03)	
7	07:19	08:15 (04)	06:59	07:20 (07)	06:21		06:30	05:47	06:22 (03)	05:24	05:45 (02)	
	16:42	40 08:55 (04)	17:18	100 09:18 (04)	17:51		19:25	19:56	47 07:09 (03)	20:23	56 07:12 (03)	
8	07:19	08:15 (04)	06:58	07:20 (07)	06:19		06:28	05:46	06:21 (03)	05:23	05:45 (02)	
	16:43	41 08:56 (04)	17:20	100 09:19 (04)	17:53		19:26	19:57	49 07:10 (03)	20:24	56 07:12 (03)	
9	07:19	08:14 (04)	06:57	07:20 (07)	06:18		06:27	05:45	06:20 (03)	05:23	05:45 (02)	
	16:44	43 08:57 (04)	17:21	101 09:19 (04)	17:54		19:27	19:58	50 07:10 (03)	20:24	57 07:12 (03)	
10	07:19	08:14 (04)	06:56	07:20 (07)	06:16		06:25	05:43	06:20 (03)	05:23	05:45 (02)	
	16:45	44 08:58 (04)	17:22	101 09:19 (04)	17:55		19:28	19:59	51 07:11 (03)	20:25	57 07:12 (03)	
11	07:18	08:13 (04)	06:55	07:20 (07)	06:14		06:24	05:42	06:19 (03)	05:23	05:45 (02)	
	16:46	47 09:00 (04)	17:23	99 09:18 (04)	17:56		19:29	20:00	52 07:11 (03)	20:25	59 07:13 (03)	
12	07:18	08:12 (04)	06:54	07:20 (07)	06:13	06:31 (08)	06:22	05:41	06:19 (03)	05:23	05:45 (02)	
	16:47	48 09:00 (04)	17:25	100 09:18 (04)	17:57	3 06:34 (08)	19:30	20:01	52 07:11 (03)	20:26	58 07:13 (03)	
13	07:18	08:12 (04)	06:52	07:21 (07)	06:11	06:30 (08)	06:20	05:40	06:18 (03)	05:23	05:45 (02)	
	16:49	50 09:02 (04)	17:26	98 09:18 (04)	17:58	7 06:37 (08)	19:31	20:02	54 07:12 (03)	20:26	59 07:13 (03)	
14	07:17	08:12 (04)	06:51	07:20 (07)	06:09	06:28 (08)	06:19	05:39	06:18 (03)	05:22	05:45 (02)	
	16:50	51 09:03 (04)	17:27	96 09:16 (04)	17:59	10 06:38 (08)	19:32	20:03	54 07:12 (03)	20:27	58 07:13 (03)	
15	07:17	08:11 (04)	06:50	07:21 (07)	06:08	06:26 (08)	06:17	05:38	06:18 (03)	05:22	05:45 (02)	
	16:51	53 09:04 (04)	17:28	94 09:16 (04)	18:00	13 06:39 (08)	19:33	20:04	54 07:12 (03)	20:27	59 07:13 (03)	
16	07:17	08:11 (04)	06:49	07:22 (07)	06:06	06:25 (08)	06:16	05:37	06:17 (03)	05:22	05:45 (02)	
	16:52	54 09:05 (04)	17:29	91 09:16 (04)	18:01	15 06:40 (08)	19:34	20:05	55 07:12 (03)	20:28	59 07:13 (03)	
17	07:16	08:11 (04)	06:47	07:23 (07)	06:05	06:23 (08)	06:14	05:36	06:18 (03)	05:23	05:45 (02)	
	16:53	55 09:06 (04)	17:31	87 09:14 (04)	18:02	17 06:40 (08)	19:35	20:06	55 07:13 (03)	20:28	59 07:13 (03)	
18	07:16	08:11 (04)	06:46	07:24 (07)	06:03	06:21 (08)	06:13	05:35	06:18 (03)	05:23	05:45 (02)	
	16:54	57 09:08 (04)	17:32	84 09:14 (04)	18:03	19 06:40 (08)	19:36	20:07	55 07:13 (03)	20:28	59 07:13 (03)	
19	07:15	08:10 (04)	06:45	07:27 (07)	06:01	06:20 (08)	06:11	05:35	06:18 (03)	05:23	05:45 (02)	
	16:55	58 09:08 (04)	17:33	77 09:13 (04)	18:05	20 06:40 (08)	19:37	20:08	55 07:13 (03)	20:29	59 07:13 (03)	
20	07:15	08:09 (04)	06:43	07:29 (07)	06:00	06:18 (08)	06:10	05:34	06:17 (03)	05:23	05:45 (02)	
	16:56	60 09:09 (04)	17:34	70 09:12 (04)	18:06	21 06:39 (08)	19:38	20:09	56 07:13 (03)	20:29	59 07:13 (03)	
21	07:14	08:09 (04)	06:42	08:12 (04)	05:58	06:16 (08)	06:08	05:33	06:17 (03)	05:23	05:45 (02)	
	16:58	61 09:10 (04)	17:35	59 09:11 (04)	18:07	22 06:38 (08)	19:39	20:10	55 07:12 (03)	20:29	59 07:13 (03)	
22	07:14	08:09 (04)	06:40	08:12 (04)	05:56	06:17 (08)	06:07	05:32	06:18 (03)	05:23	05:46 (02)	
	16:59	62 09:11 (04)	17:37	57 09:09 (04)	18:08	21 06:38 (08)	19:40	20:11	55 07:13 (03)	20:29	59 07:14 (03)	
23	07:13	08:08 (04)	06:39	08:13 (04)	05:55	06:17 (08)	06:05	05:31	06:18 (03)	05:23	05:46 (02)	
	17:00	63 09:11 (04)	17:38	55 09:08 (04)	18:09	19 06:36 (08)	19:41	20:11	55 07:13 (03)	20:30	59 07:14 (03)	
24	07:12	08:09 (04)	06:37	08:15 (04)	05:53	06:18 (08)	06:04	05:31	06:17 (03)	05:24	05:46 (02)	
	17:01	64 09:13 (04)	17:39	52 09:07 (04)	18:10	16 06:34 (08)	19:42	20:12	55 07:12 (03)	20:30	59 07:14 (03)	
25	07:11	08:08 (04)	06:36	08:16 (04)	05:51	06:20 (08)	06:02	05:30	06:18 (03)	05:24	05:46 (02)	
	17:02	66 09:14 (04)	17:40	48 09:04 (04)	18:11	13 06:33 (08)	19:43	20:13	55 07:13 (03)	20:30	59 07:14 (03)	
26	07:11	08:08 (04)	06:35	08:17 (04)	05:50	06:23 (08)	06:01	05:29	06:18 (03)	05:24	05:47 (02)	
	17:04	66 09:14 (04)	17:41	46 09:03 (04)	18:12	5 06:28 (08)	19:44	20:14	55 07:13 (03)	20:30	59 07:15 (03)	
27	07:10	08:07 (04)	06:33	08:19 (04)	05:48		06:00	05:29	06:19 (03)	05:25	05:47 (02)	
	17:05	68 09:15 (04)	17:42	41 09:00 (04)	18:13		19:46	20:15	54 07:13 (03)	20:30	59 07:15 (03)	
28	07:09	08:07 (04)	06:32	08:20 (04)	05:46		05:58	05:28	06:19 (03)	05:25	05:47 (02)	
	17:06	68 09:15 (04)	17:44	37 08:57 (04)	18:14		19:47	20:16	54 07:13 (03)	20:30	58 07:15 (03)	
29	07:08	08:07 (04)			06:45		05:57	05:27	06:33 (03)	05:27	05:48 (02)	
	17:07	69 09:16 (04)			19:15		19:48	20:17	54 07:12 (03)	20:30	59 07:16 (03)	
30	07:07	07:30 (07)			06:43		05:56	05:27	06:31 (03)	05:26	05:48 (02)	
	17:08	76 09:17 (04)			19:16		19:49	20:17	54 07:13 (03)	20:30	59 07:16 (03)	
31	07:07	07:27 (07)			06:41			05:26	06:20 (03)			
	17:10	83 09:17 (04)			19:17			20:18	53 07:13 (03)			
Ore potenziali eliofanìa	298		298		369		398		448		451	1721
Totale, caso peggiore	1650		2254		296		92		1582			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento)
Tramonto (hh:mm)Minuti d'ombra Fine ombreggiamento (hh:mm) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R02 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (2)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il di, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:26	05:49 (02)	05:50	06:30 (03)	06:20	06:50	07:10 (08)	06:24	06:49 (07)	06:58	07:55 (04)	
	20:30	58 07:17 (03)	20:11	52 07:22 (03)	19:28	18:38	5 07:15 (08)	16:52	101 08:48 (04)	16:28	47 08:42 (04)	
2	05:27	05:49 (02)	05:51	06:30 (03)	06:21	06:51		06:25	06:49 (07)	06:59	07:57 (04)	
	20:30	58 07:17 (03)	20:10	51 07:21 (03)	19:27	18:37		16:51	101 08:48 (04)	16:28	44 08:41 (04)	
3	05:27	05:50 (02)	05:52	06:31 (03)	06:22	06:52		06:26	06:50 (07)	07:00	07:58 (04)	
	20:30	57 07:17 (03)	20:09	50 07:21 (03)	19:25	18:35		16:50	99 08:48 (04)	16:27	43 08:41 (04)	
4	05:28	05:50 (02)	05:53	06:31 (03)	06:23	06:53		06:27	06:50 (07)	07:01	07:59 (04)	
	20:29	57 07:17 (03)	20:08	50 07:21 (03)	19:24	18:33		16:48	100 08:48 (04)	16:27	41 08:40 (04)	
5	05:28	05:51 (02)	05:54	06:32 (03)	06:24	06:54		06:28	06:50 (07)	07:02	08:00 (04)	
	20:29	56 07:18 (03)	20:07	48 07:20 (03)	19:22	18:32		16:47	99 08:48 (04)	16:27	40 08:40 (04)	
6	05:29	05:51 (02)	05:55	06:32 (03)	06:25	06:55		06:30	06:52 (07)	07:03	08:01 (04)	
	20:29	56 07:18 (03)	20:05	47 07:19 (03)	19:20	18:30		16:46	97 08:49 (04)	16:27	38 08:39 (04)	
7	05:30	05:52 (02)	05:56	06:33 (03)	06:26	06:56		06:31	06:53 (07)	07:04	08:03 (04)	
	20:29	54 07:19 (03)	20:04	45 07:18 (03)	19:19	18:28		16:45	95 08:49 (04)	16:27	36 08:39 (04)	
8	05:30	05:53 (02)	05:57	06:33 (03)	06:27	06:57		06:32	06:54 (07)	07:05	08:04 (04)	
	20:28	52 07:19 (03)	20:03	44 07:17 (03)	19:17	18:27		16:44	92 08:48 (04)	16:27	35 08:39 (04)	
9	05:31	06:27 (03)	05:58	06:34 (03)	06:28	06:58		06:33	06:55 (07)	07:06	08:05 (04)	
	20:28	52 07:19 (03)	20:02	41 07:15 (03)	19:15	18:25		16:43	90 08:48 (04)	16:27	33 08:38 (04)	
10	05:32	06:28 (03)	05:59	06:35 (03)	06:29	06:59	09:07 (04)	06:34	06:57 (07)	07:07	08:06 (04)	
	20:28	52 07:20 (03)	20:01	39 07:14 (03)	19:14	18:24	9 09:16 (04)	16:42	87 08:49 (04)	16:27	31 08:37 (04)	
11	05:32	06:28 (03)	06:00	06:36 (03)	06:30	07:00	09:01 (04)	06:36	06:58 (07)	07:08	08:07 (04)	
	20:27	52 07:20 (03)	19:59	37 07:13 (03)	19:12	18:22	21 09:22 (04)	16:41	83 08:48 (04)	16:27	30 08:37 (04)	
12	05:33	06:27 (03)	06:01	06:38 (03)	06:31	07:01	08:58 (04)	06:37	07:01 (07)	07:09	08:09 (04)	
	20:27	53 07:20 (03)	19:58	33 07:11 (03)	19:10	18:20	29 09:27 (04)	16:40	77 08:48 (04)	16:27	28 08:37 (04)	
13	05:34	06:27 (03)	06:02	06:39 (03)	06:32	07:02	08:55 (04)	06:38	07:39 (04)	07:09	08:10 (04)	
	20:26	54 07:21 (03)	19:57	30 07:09 (03)	19:09	18:19	35 09:30 (04)	16:39	68 08:47 (04)	16:27	27 08:37 (04)	
14	05:34	06:28 (03)	06:03	06:42 (03)	06:33	07:04	08:52 (04)	06:39	07:40 (04)	07:10	08:11 (04)	
	20:26	53 07:21 (03)	19:55	25 07:07 (03)	19:07	18:17	40 09:32 (04)	16:38	68 08:48 (04)	16:27	26 08:37 (04)	
15	05:35	06:28 (03)	06:04	06:44 (03)	06:34	07:05	08:50 (04)	06:40	07:40 (04)	07:11	08:12 (04)	
	20:25	54 07:22 (03)	19:54	20 07:04 (03)	19:05	18:16	44 09:34 (04)	16:37	68 08:48 (04)	16:28	24 08:36 (04)	
16	05:36	06:27 (03)	06:05	06:49 (03)	06:35	07:06	08:48 (04)	06:41	07:41 (04)	07:12	08:13 (04)	
	20:25	54 07:21 (03)	19:53	10 06:59 (03)	19:04	18:14	47 09:35 (04)	16:36	66 08:47 (04)	16:28	23 08:36 (04)	
17	05:37	06:27 (03)	06:06		06:36	07:07	08:47 (04)	06:43	07:41 (04)	07:12	08:15 (04)	
	20:24	55 07:22 (03)	19:51		19:02	18:13	50 09:37 (04)	16:36	65 08:46 (04)	16:28	21 08:36 (04)	
18	05:38	06:28 (03)	06:07		06:37	07:08 (08)	07:08	08:45 (04)	06:44	07:43 (04)	07:13	08:15 (04)
	20:23	54 07:22 (03)	19:50		19:00	11 07:19 (08)	18:11	53 09:38 (04)	16:35	64 08:47 (04)	16:28	20 08:35 (04)
19	05:38	06:28 (03)	06:08		06:38	07:06 (08)	07:09	08:45 (04)	06:45	07:43 (04)	07:14	08:16 (04)
	20:23	55 07:23 (03)	19:48		18:58	15 07:21 (08)	18:10	55 09:40 (04)	16:34	63 08:46 (04)	16:29	20 08:36 (04)
20	05:39	06:27 (03)	06:09		06:39	07:04 (08)	07:10	08:43 (04)	06:46	07:44 (04)	07:14	08:16 (04)
	20:22	55 07:22 (03)	19:47		18:57	18 07:22 (08)	18:08	58 09:41 (04)	16:33	62 08:46 (04)	16:29	20 08:36 (04)
21	05:40	06:27 (03)	06:10		06:40	07:02 (08)	07:11	08:42 (04)	06:47	07:44 (04)	07:15	08:17 (04)
	20:21	55 07:22 (03)	19:45		18:55	21 07:23 (08)	18:07	60 09:42 (04)	16:33	61 08:45 (04)	16:30	19 08:36 (04)
22	05:41	06:28 (03)	06:11		06:41	07:01 (08)	07:12	07:58 (07)	06:48	07:46 (04)	07:15	08:17 (04)
	20:20	55 07:23 (03)	19:44		18:53	22 07:23 (08)	18:05	74 09:43 (04)	16:32	60 08:46 (04)	16:30	19 08:36 (04)
23	05:42	06:28 (03)	06:12		06:42	07:02 (08)	07:13	07:56 (07)	06:50	07:47 (04)	07:16	08:18 (04)
	20:20	55 07:23 (03)	19:42		18:52	21 07:23 (08)	18:04	79 09:43 (04)	16:31	58 08:45 (04)	16:31	19 08:37 (04)
24	05:43	06:28 (03)	06:13		06:43	07:03 (08)	07:15	07:54 (07)	06:51	07:48 (04)	07:16	08:18 (04)
	20:19	55 07:23 (03)	19:41		18:50	20 07:23 (08)	18:02	85 09:44 (04)	16:31	57 08:45 (04)	16:31	20 08:38 (04)
25	05:44	06:28 (03)	06:13		06:44	07:04 (08)	06:16	06:53 (07)	06:52	07:49 (04)	07:17	08:19 (04)
	20:18	55 07:23 (03)	19:39		18:48	19 07:23 (08)	17:01	89 08:45 (04)	16:30	55 08:44 (04)	16:32	20 08:39 (04)
26	05:44	06:29 (03)	06:14		06:45	07:05 (08)	06:17	06:52 (07)	06:53	07:49 (04)	07:17	08:19 (04)
	20:17	54 07:23 (03)	19:38		18:47	17 07:22 (08)	17:00	92 08:46 (04)	16:30	54 08:43 (04)	16:32	21 08:40 (04)
27	05:45	06:28 (03)	06:15		06:46	07:06 (08)	06:18	06:51 (07)	06:54	07:50 (04)	07:17	08:18 (04)
	20:16	55 07:23 (03)	19:36		18:45	16 07:22 (08)	16:58	94 08:46 (04)	16:29	53 08:43 (04)	16:33	23 08:41 (04)
28	05:46	06:28 (03)	06:16		06:47	07:07 (08)	06:19	06:50 (07)	06:55	07:52 (04)	07:18	08:18 (04)
	20:15	55 07:23 (03)	19:35		18:43	14 07:21 (08)	16:57	96 08:46 (04)	16:29	51 08:43 (04)	16:34	23 08:41 (04)
29	05:47	06:28 (03)	06:17		06:48	07:08 (08)	06:20	06:49 (07)	06:56	07:53 (04)	07:18	08:19 (04)
	20:14	54 07:22 (03)	19:33		18:42	11 07:19 (08)	16:56	98 08:46 (04)	16:29	50 08:43 (04)	16:34	24 08:43 (04)
30	05:48	06:29 (03)	06:18		06:49	07:09 (08)	06:21	06:50 (07)	06:57	07:54 (04)	07:18	08:18 (04)
	20:13	53 07:22 (03)	19:32		18:40	9 07:18 (08)	16:54	98 08:47 (04)	16:28	48 08:42 (04)	16:35	26 08:44 (04)
31	05:49	06:29 (03)	06:19				06:23	06:49 (07)			07:18	08:18 (04)
	20:12	53 07:22 (03)	19:30				16:53	100 08:48 (04)			16:36	27 08:45 (04)
Ore potenziali eliofanìa	458		427		375		346		299	2192		868
Totale, caso peggiore	1690		622		214		1411		2192			868

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento)
Tramonto (hh:mm)Minuti d'ombra Fine ombreggiamento (hh:mm) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R03 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (3)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:26 20:30	05:49 (02) 07:10 (03)	05:50 20:11	06:26 (03) 07:12 (03)	06:20 19:28	
2	05:27 20:30	05:49 (02) 07:10 (03)	05:51 20:10	06:27 (03) 07:11 (03)	06:21 19:27	
3	05:27 20:30	05:50 (02) 07:11 (03)	05:52 20:09	06:27 (03) 07:11 (03)	06:22 19:25	
4	05:28 20:29	05:50 (02) 07:11 (03)	05:53 20:08	06:28 (03) 07:10 (03)	06:23 19:24	
5	05:28 20:29	06:21 (03) 07:12 (03)	05:54 20:07	06:29 (03) 07:09 (03)	06:24 19:22	
6	05:29 20:29	06:20 (03) 07:11 (03)	05:55 20:05	06:30 (03) 07:08 (03)	06:25 19:20	
7	05:30 20:29	06:21 (03) 07:12 (03)	05:56 20:04	06:32 (03) 07:06 (03)	06:26 19:19	
8	05:30 20:28	06:21 (03) 07:13 (03)	05:57 20:03	06:32 (03) 07:04 (03)	06:27 19:17	
9	05:31 20:28	06:20 (03) 07:12 (03)	05:58 20:02	06:34 (03) 07:02 (03)	06:28 19:15	
10	05:32 20:28	06:21 (03) 07:13 (03)	05:59 20:01	06:36 (03) 07:00 (03)	06:29 19:14	
11	05:32 20:27	06:21 (03) 07:14 (03)	06:00 19:59	06:38 (03) 06:57 (03)	06:30 19:12	
12	05:33 20:27	06:21 (03) 07:13 (03)	06:01 19:58	06:43 (03) 06:52 (03)	06:31 19:10	
13	05:34 20:26	06:21 (03) 07:14 (03)	06:02 19:57	06:32 19:09	06:32 19:09	
14	05:34 20:26	06:21 (03) 07:14 (03)	06:03 19:55	06:33 19:07	06:33 19:07	
15	05:35 20:25	06:22 (03) 07:15 (03)	06:04 19:54	06:34 19:05	06:34 19:05	
16	05:36 20:25	06:21 (03) 07:14 (03)	06:05 19:53	06:35 19:04	06:35 19:04	
17	05:37 20:24	06:21 (03) 07:14 (03)	06:06 19:51	06:36 19:02	06:36 19:02	
18	05:38 20:23	06:22 (03) 07:15 (03)	06:07 19:50	06:37 19:00	06:37 19:00	
19	05:38 20:23	06:22 (03) 07:15 (03)	06:08 19:48	06:38 18:58	06:38 18:58	
20	05:39 20:22	06:21 (03) 07:14 (03)	06:09 19:47	06:39 18:57	06:39 18:57	
21	05:40 20:21	06:22 (03) 07:15 (03)	06:10 19:45	06:40 18:55	06:40 18:55	
22	05:41 20:20	06:22 (03) 07:15 (03)	06:11 19:44	06:41 18:53	06:41 18:53	
23	05:42 20:20	06:22 (03) 07:15 (03)	06:12 19:42	06:42 18:52	06:42 18:52	
24	05:43 20:19	06:23 (03) 07:15 (03)	06:13 19:41	06:43 18:50	06:43 18:50	
25	05:44 20:18	06:23 (03) 07:15 (03)	06:13 19:39	06:44 18:48	06:44 18:48	
26	05:44 20:17	06:24 (03) 07:15 (03)	06:14 19:38	06:45 18:47	06:45 18:47	
27	05:45 20:16	06:23 (03) 07:14 (03)	06:15 19:36	06:46 18:45	06:46 18:45	
28	05:46 20:15	06:24 (03) 07:13 (03)	06:16 19:35	06:47 18:43	06:47 18:43	
29	05:47 20:14	06:24 (03) 07:13 (03)	06:17 19:33	06:48 18:42	06:48 18:42	
30	05:48 20:13	06:25 (03) 07:13 (03)	06:18 19:32	06:49 18:40	06:49 18:40	
31	05:49 20:12	06:25 (03) 07:12 (03)	06:19 19:30	06:49 18:40	06:49 18:40	
Ore potenziali eliofanìa	458	427	375	346	299	289
Totale, caso peggiore	1610	400	211	1975	1413	174

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento)
Tramonto (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R04 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (4)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il di, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:26 20:30	05:50 20:11	06:12 (08) 06:20	06:42 (07) 06:50	07:37 (06) 06:24	08:11 (05) 06:58
2	05:27 20:30	05:51 20:10	06:13 (08) 06:21	06:44 (07) 06:51	07:36 (06) 06:25	08:10 (05) 06:59
3	05:27 20:30	05:52 20:09	06:14 (08) 06:22	06:45 (07) 06:52	07:35 (06) 06:26	08:11 (05) 07:00
4	05:28 20:29	05:53 20:08	06:15 (08) 06:23	06:46 (07) 06:53	07:34 (06) 06:27	08:10 (05) 07:01
5	05:28 20:29	05:54 20:07	06:16 (08) 06:24	06:47 (07) 06:54	07:33 (06) 06:28	08:09 (05) 07:02
6	05:29 20:29	05:55 20:05	06:17 (08) 06:25	06:48 (07) 06:55	07:33 (06) 06:30	08:08 (05) 07:03
7	05:30 20:29	05:56 20:04	06:18 (08) 06:26	06:49 (07) 06:56	07:32 (06) 06:31	08:09 (05) 07:04
8	05:30 20:28	05:57 20:03	06:21 (08) 06:27	06:50 (07) 06:57	07:32 (06) 06:32	08:08 (05) 07:05
9	05:31 20:28	05:58 20:02	06:22 (08) 06:28	06:51 (07) 06:58	07:32 (06) 06:33	08:08 (05) 07:06
10	05:32 20:28	05:59 20:01	06:23 (08) 06:29	06:52 (07) 06:59	07:32 (06) 06:34	08:08 (05) 07:07
11	05:32 20:27	06:00 19:59	06:24 (08) 06:30	06:53 (07) 06:30	07:32 (06) 06:36	08:08 (05) 07:08
12	05:33 20:27	06:13 (08) 19:58	06:25 (07) 06:31	06:54 (07) 06:31	07:33 (06) 06:37	08:08 (05) 07:09
13	05:34 20:26	06:11 (08) 19:57	06:26 (07) 06:32	06:55 (07) 06:32	07:33 (06) 06:38	08:08 (05) 07:09
14	05:34 20:26	06:10 (08) 19:55	06:27 (07) 06:33	06:56 (07) 06:33	07:33 (06) 06:39	08:08 (05) 07:10
15	05:35 20:25	06:09 (08) 19:54	06:28 (07) 06:34	06:57 (07) 06:34	07:33 (11) 06:40	08:08 (05) 07:11
16	05:36 20:25	06:07 (08) 19:53	06:29 (07) 06:35	06:58 (07) 06:35	07:33 (11) 06:41	08:08 (05) 07:12
17	05:37 20:24	06:06 (08) 19:51	06:30 (07) 06:36	06:59 (07) 06:36	07:33 (11) 06:42	08:08 (05) 07:13
18	05:38 20:23	06:06 (08) 19:50	06:31 (07) 06:37	07:00 (07) 06:37	07:33 (11) 06:43	08:09 (05) 07:14
19	05:38 20:23	06:06 (08) 19:48	06:32 (07) 06:38	07:01 (07) 06:38	07:33 (11) 06:44	08:09 (05) 07:15
20	05:39 20:22	06:06 (08) 19:47	06:33 (07) 06:39	07:02 (07) 06:39	07:33 (11) 06:45	08:09 (05) 07:16
21	05:40 20:21	06:05 (08) 19:45	06:34 (07) 06:40	07:03 (07) 06:40	07:33 (11) 06:46	08:09 (05) 07:17
22	05:41 20:20	06:04 (08) 19:44	06:35 (07) 06:41	07:04 (07) 06:41	07:33 (11) 06:47	08:09 (05) 07:18
23	05:42 20:20	06:27 (08) 19:42	06:36 (07) 06:42	07:05 (07) 06:42	07:33 (11) 06:48	08:09 (05) 07:19
24	05:43 20:19	06:05 (08) 19:41	06:37 (07) 06:43	07:06 (07) 06:43	07:33 (11) 06:49	08:10 (05) 07:20
25	05:44 20:18	06:28 (08) 19:39	06:38 (07) 06:44	07:07 (07) 06:44	07:33 (11) 06:50	08:10 (05) 07:21
26	05:44 20:17	06:07 (08) 19:38	06:39 (07) 06:45	07:08 (07) 06:45	07:33 (11) 06:51	08:11 (05) 07:22
27	05:45 20:16	06:29 (08) 19:36	06:40 (07) 06:46	07:09 (07) 06:46	07:33 (11) 06:52	08:11 (05) 07:23
28	05:46 20:15	06:08 (08) 19:35	06:41 (07) 06:47	07:10 (07) 06:47	07:33 (11) 06:53	08:12 (05) 07:24
29	05:47 20:14	06:28 (08) 19:33	06:42 (07) 06:48	07:11 (07) 06:48	07:33 (11) 06:54	08:12 (05) 07:25
30	05:48 20:13	06:10 (08) 19:32	06:43 (07) 06:49	07:12 (07) 06:49	07:33 (11) 06:55	08:13 (05) 07:26
31	05:49 20:12	06:28 (08) 19:30	06:44 (07) 06:50	07:13 (07) 06:50	07:33 (11) 06:56	08:13 (05) 07:27
Ore potenziali eliofanìa	458	427	375	346	299	289
Totale, caso peggiore	355	663	250	1509	2400	2376

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento)
Tramonto (hh:mm)Minuti d'ombra Fine ombreggiamento (hh:mm) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R05 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (5)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:19		08:30 (10)	07:06	06:30	06:40			05:54	06:32 (11)	05:26	06:42 (11)
	16:37	49	09:19 (10)	17:11	17:45	19:18			19:50	07:31 (11)	20:19	81 19:36 (05)
2	07:19		08:30 (10)	07:05	06:28	06:38			05:53	06:32 (11)	05:25	06:43 (11)
	16:38	49	09:19 (10)	17:12	17:46	19:19			19:51	06:31 (11)	20:20	81 19:37 (05)
3	07:19		08:31 (10)	07:04	06:27	06:36			05:52	06:31 (11)	05:25	06:43 (11)
	16:39	48	09:19 (10)	17:13	17:47	19:20			19:52	07:32 (11)	20:20	80 19:37 (05)
4	07:19		08:31 (10)	07:03	06:25	06:35			05:50	06:31 (11)	05:25	06:45 (11)
	16:40	48	09:19 (10)	17:15	17:48	19:21			19:53	07:32 (11)	20:21	79 19:38 (05)
5	07:19		08:32 (10)	07:02	06:24	06:33			05:49	06:31 (11)	05:24	06:46 (11)
	16:40	48	09:20 (10)	17:16	17:49	19:22			19:54	07:32 (11)	20:22	78 19:38 (05)
6	07:19		08:33 (10)	07:00	06:22	06:32			05:48	06:31 (11)	05:24	06:46 (11)
	16:41	47	09:20 (10)	17:17	17:50	19:23			19:55	07:32 (11)	20:22	76 19:38 (05)
7	07:19		08:34 (10)	06:59	06:21	06:30			05:47	06:30 (11)	05:24	06:47 (11)
	16:42	46	09:20 (10)	17:18	17:51	19:25			19:56	07:31 (11)	20:23	75 19:38 (05)
8	07:19		08:34 (10)	06:58	06:19	06:28			05:46	06:31 (11)	05:23	06:48 (11)
	16:43	45	09:19 (10)	17:20	17:53	19:26			19:57	07:31 (11)	20:24	75 19:39 (05)
9	07:19		08:35 (10)	06:57	06:18	06:27			05:45	06:31 (11)	05:23	06:49 (11)
	16:44	45	09:20 (10)	17:21	17:54	19:27			19:58	07:31 (11)	20:24	74 19:39 (05)
10	07:18		08:36 (10)	06:56	06:16	06:25			05:43	06:31 (11)	05:23	06:50 (11)
	16:45	44	09:20 (10)	17:22	17:55	19:28			19:59	07:30 (11)	20:25	72 19:40 (05)
11	07:18		08:37 (10)	06:55	06:14	06:23			05:42	06:31 (11)	05:23	06:51 (11)
	16:46	43	09:20 (10)	17:23	17:56	19:29			20:00	07:30 (11)	20:25	71 19:40 (05)
12	07:18		08:37 (10)	06:54	06:13	06:22			05:41	06:31 (11)	05:23	06:52 (11)
	16:47	42	09:19 (10)	17:24	17:57	19:30			20:01	07:30 (11)	20:26	71 19:41 (05)
13	07:18		08:38 (10)	06:52	06:11	06:20			05:40	06:31 (11)	05:23	06:52 (11)
	16:48	41	09:19 (10)	17:26	17:58	19:31			20:02	07:30 (11)	20:26	70 19:41 (05)
14	07:17		08:40 (10)	06:51	06:09	06:19	06:58 (11)		05:39	06:31 (11)	05:22	06:53 (11)
	16:50	40	09:20 (10)	17:27	17:59	19:32	16 07:14 (11)	20:03	58 07:29 (11)	20:27	69 19:41 (05)	
15	07:17		08:40 (10)	06:50	06:08	06:17	06:54 (11)	05:38	06:32 (11)	05:22	06:54 (11)	
	16:51	39	09:19 (10)	17:28	18:00	19:33	24 07:18 (11)	20:04	63 19:16 (05)	20:27	67 19:41 (05)	
16	07:17		08:42 (10)	06:48	06:06	06:16	06:50 (11)	05:37	06:32 (11)	05:22	06:54 (11)	
	16:52	37	09:19 (10)	17:29	18:01	19:34	30 07:20 (11)	20:05	72 19:21 (05)	20:27	67 19:42 (05)	
17	07:16		08:42 (10)	06:47	06:05	06:14	06:48 (11)	05:36	06:33 (11)	05:23	06:55 (11)	
	16:53	35	09:17 (10)	17:31	18:02	19:35	35 07:23 (11)	20:06	76 19:24 (05)	20:28	66 19:42 (05)	
18	07:16		08:44 (10)	06:46	06:03	06:13	06:45 (11)	05:35	06:33 (11)	05:23	06:55 (11)	
	16:54	33	09:17 (10)	17:32	18:03	19:36	39 07:24 (11)	20:07	79 19:26 (05)	20:28	66 19:42 (05)	
19	07:15		08:45 (10)	06:44	06:01	06:11	06:44 (11)	05:35	06:34 (11)	05:23	06:56 (11)	
	16:55	31	09:16 (10)	17:33	18:04	19:37	42 07:26 (11)	20:08	80 19:27 (05)	20:28	65 19:42 (05)	
20	07:15		08:46 (10)	06:43	06:00	06:10	06:42 (11)	05:34	06:34 (11)	05:23	06:56 (11)	
	16:56	28	09:14 (10)	17:34	18:06	19:38	44 07:26 (11)	20:09	82 19:28 (05)	20:29	65 19:42 (05)	
21	07:14		08:49 (10)	06:42	05:58	06:08	06:41 (11)	05:33	06:34 (11)	05:23	06:56 (11)	
	16:58	25	09:14 (10)	17:35	18:07	19:39	47 07:28 (11)	20:10	83 19:29 (05)	20:29	65 19:42 (05)	
22	07:13		08:51 (10)	06:40	05:56	06:07	06:39 (11)	05:32	06:35 (11)	05:23	06:57 (11)	
	16:59	21	09:12 (10)	17:36	18:08	19:40	49 07:28 (11)	20:10	85 19:31 (05)	20:29	65 19:43 (05)	
23	07:13		08:53 (10)	06:39	05:55	06:05	06:38 (11)	05:31	06:36 (11)	05:23	06:57 (11)	
	17:00	16	09:09 (10)	17:38	18:09	19:41	51 07:29 (11)	20:11	84 19:31 (05)	20:29	65 19:43 (05)	
24	07:12		08:59 (10)	06:37	05:53	06:04	06:37 (11)	05:31	06:36 (11)	05:24	06:56 (11)	
	17:01	6	09:05 (10)	17:39	18:10	19:42	53 07:30 (11)	20:12	85 19:32 (05)	20:30	66 19:43 (05)	
25	07:11			06:36	05:51	06:02	06:36 (11)	05:30	06:37 (11)	05:24	06:56 (11)	
	17:02			17:40	18:11	19:43	54 07:30 (11)	20:13	86 19:33 (05)	20:30	66 19:43 (05)	
26	07:11			06:34	05:50	06:01	06:35 (11)	05:29	06:38 (11)	05:24	06:57 (11)	
	17:04			17:41	18:12	19:44	56 07:31 (11)	20:14	84 19:33 (05)	20:30	66 19:44 (05)	
27	07:10			06:33	05:48	06:00	06:35 (11)	05:29	06:38 (11)	05:25	06:56 (11)	
	17:05			17:42	18:13	19:45	56 07:31 (11)	20:15	84 19:33 (05)	20:30	68 19:44 (05)	
28	07:09			06:32	05:46	05:58	06:33 (11)	05:28	06:39 (11)	05:25	06:55 (11)	
	17:06			17:43	18:14	19:47	58 07:31 (11)	20:16	85 19:35 (05)	20:30	69 19:43 (05)	
29	07:08				06:45	05:57	06:33 (11)	05:27	06:39 (11)	05:25	06:56 (11)	
	17:07				19:15	19:48	59 07:32 (11)	20:16	85 19:35 (05)	20:30	69 19:44 (05)	
30	07:07				06:43	05:56	06:33 (11)	05:27	06:41 (11)	05:26	06:55 (11)	
	17:08				19:16	19:49	59 07:32 (11)	20:17	84 19:36 (05)	20:30	70 19:44 (05)	
31	07:06				06:41			05:26	06:42 (11)			
	17:10				19:17			20:18	83 19:37 (05)			
Ore potenziali eliofanìa	298		298	369	398			448		451		
Totale, caso peggiore	906					772		2218		2117		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento)
Tramonto (hh:mm) Minuti d'ombra Fine ombreggiamento (hh:mm) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R05 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (5)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:
Il sole splende tutto il di, dall'alba al tramonto
Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:26 20:30	06:55 (11) 05:50	06:42 (11)	06:20	06:50	06:24
2	05:27 20:30	06:54 (11) 05:51	06:41 (11)	06:21	06:51	06:25
3	05:27 20:29	06:54 (11) 05:52	06:41 (11)	06:22	06:52	06:26
4	05:28 20:29	06:53 (11) 05:53	06:41 (11)	06:23	06:53	06:27
5	05:28 20:29	06:53 (11) 05:54	06:41 (11)	06:24	06:54	06:28
6	05:29 20:29	06:52 (11) 05:55	06:41 (11)	06:25	06:55	06:30
7	05:30 20:29	06:52 (11) 05:56	06:41 (11)	06:26	06:56	06:31
8	05:30 20:28	06:52 (11) 05:57	06:40 (11)	06:27	06:57	06:32
9	05:31 20:28	06:51 (11) 05:58	06:40 (11)	06:28	06:58	06:33
10	05:32 20:27	06:51 (11) 05:59	06:40 (11)	06:29	06:59	06:34
11	05:32 20:27	06:51 (11) 06:00	06:40 (11)	06:30	07:00	06:35
12	05:33 20:27	06:49 (11) 06:01	06:41 (11)	06:31	07:01	06:37
13	05:34 20:26	06:49 (11) 06:02	06:41 (11)	06:32	07:02	06:38
14	05:34 20:26	06:49 (11) 06:03	06:41 (11)	06:33	07:03	06:39
15	05:35 20:25	06:49 (11) 06:04	06:41 (11)	06:34	07:05	06:40
16	05:36 20:24	06:47 (11) 06:05	06:42 (11)	06:35	07:06	06:41
17	05:37 20:24	06:47 (11) 06:06	06:42 (11)	06:36	07:07	06:43
18	05:37 20:23	06:47 (11) 06:07	06:43 (11)	06:37	07:08	06:44
19	05:38 20:23	06:47 (11) 06:08	06:43 (11)	06:38	07:09	06:45
20	05:39 20:22	06:45 (11) 06:09	06:44 (11)	06:39	07:10	06:46
21	05:40 20:21	06:45 (11) 06:10	06:45 (11)	06:40	07:11	06:47
22	05:41 20:20	06:45 (11) 06:11	06:46 (11)	06:41	07:12	06:48
23	05:42 20:19	06:45 (11) 06:12	06:47 (11)	06:42	07:13	06:49
24	05:43 20:19	06:44 (11) 06:13	06:48 (11)	06:43	07:14	06:51
25	05:43 20:18	06:44 (11) 06:14	06:48 (11)	06:44	07:15	06:52
26	05:44 20:17	06:44 (11) 06:15	06:50 (11)	06:45	07:16	06:53
27	05:45 20:16	06:43 (11) 06:16	06:52 (11)	06:46	07:17	06:54
28	05:46 20:15	06:42 (11) 06:17	06:55 (11)	06:47	07:18	06:55
29	05:47 20:14	06:42 (11) 06:18	06:59 (11)	06:48	07:19	06:56
30	05:48 20:13	06:42 (11) 06:19	07:14 (11)	18:41	16:56	16:29
31	05:49 20:12	06:42 (11) 06:20		18:40	16:54	16:28
Ore potenziali eliofania	458	427	375	346	299	289
Totale, caso peggiore	2405	1488	375	346	299	289

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R06 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (8)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio		Febbraio		Marzo		Aprile		Maggio		Giugno	
1	07:19	15:18 (02)	07:06		06:30	16:33 (01)	06:40	05:54	05:26			
	16:37	32 15:50 (02)	17:11		17:45	36 17:09 (01)	19:18	19:50	20:19			
2	07:19	15:18 (02)	07:05		06:28	16:31 (01)	06:38	05:53	05:25			
	16:38	32 15:50 (02)	17:12		17:46	38 17:09 (01)	19:19	19:51	20:20			
3	07:19	15:19 (02)	07:04		06:27	16:31 (01)	06:36	05:52	05:25			
	16:39	32 15:51 (02)	17:13		17:47	39 17:10 (01)	19:20	19:52	20:20			
4	07:19	15:19 (02)	07:03		06:25	16:30 (01)	06:35	05:50	05:24			
	16:39	32 15:51 (02)	17:15		17:48	40 17:10 (01)	19:21	19:53	20:21			
5	07:19	15:20 (02)	07:02		06:24	16:29 (01)	06:33	05:49	05:24			
	16:40	31 15:51 (02)	17:16		17:49	42 17:11 (01)	19:22	19:54	20:22			
6	07:19	15:21 (02)	07:00		06:22	16:29 (01)	06:31	05:48	05:24			
	16:41	31 15:52 (02)	17:17		17:50	42 17:11 (01)	19:23	19:55	20:22			
7	07:19	15:22 (02)	06:59		06:21	16:28 (01)	06:30	05:47	05:23			
	16:42	30 15:52 (02)	17:18		17:51	43 17:11 (01)	19:24	19:56	20:23			
8	07:19	15:22 (02)	06:58		06:19	16:28 (01)	06:28	05:46	05:23			
	16:43	31 15:53 (02)	17:19		17:52	43 17:11 (01)	19:26	19:57	20:24			
9	07:19	15:22 (02)	06:57		06:17	16:28 (01)	06:27	05:44	05:23			
	16:44	30 15:52 (02)	17:21		17:54	42 17:10 (01)	19:27	19:58	20:24			
10	07:18	15:23 (02)	06:56		06:16	16:28 (01)	06:25	05:43	05:23			
	16:45	29 15:52 (02)	17:22		17:55	43 17:11 (01)	19:28	19:59	20:25			
11	07:18	15:24 (02)	06:55		06:14	16:28 (01)	06:23	05:42	05:23			
	16:46	29 15:53 (02)	17:23		17:56	42 17:10 (01)	19:29	20:00	20:25			
12	07:18	15:25 (02)	06:54		06:13	16:28 (01)	06:22	05:41	05:22			
	16:47	27 15:52 (02)	17:24		17:57	41 17:09 (01)	19:30	20:01	20:26			
13	07:18	15:26 (02)	06:52		06:11	16:29 (01)	06:20	05:40	05:22			
	16:48	26 15:52 (02)	17:26		17:58	40 17:09 (01)	19:31	20:02	20:26			
14	07:17	15:27 (02)	06:51		06:09	16:29 (01)	06:19	05:39	05:22			
	16:49	25 15:52 (02)	17:27		17:59	39 17:08 (01)	19:32	20:03	20:27			
15	07:17	15:28 (02)	06:50		06:08	16:29 (01)	06:17	05:38	05:22			
	16:51	23 15:51 (02)	17:28		18:00	37 17:06 (01)	19:33	20:04	20:27			
16	07:17	15:30 (02)	06:48		06:06	16:30 (01)	06:16	05:37	05:22			
	16:52	21 15:51 (02)	17:29		18:01	36 17:06 (01)	19:34	20:05	20:28			
17	07:16	15:30 (02)	06:47		06:04	16:31 (01)	06:14	05:36	05:22			
	16:53	20 15:50 (02)	17:30		18:02	33 17:04 (01)	19:35	20:06	20:28			
18	07:16	15:33 (02)	06:46		06:03	16:32 (01)	06:13	05:35	05:22			
	16:54	17 15:50 (02)	17:32		18:03	30 17:02 (01)	19:36	20:07	20:28			
19	07:15	15:34 (02)	06:44		06:01	16:34 (01)	06:11	05:34	05:23			
	16:55	14 15:48 (02)	17:33		18:04	27 17:01 (01)	19:37	20:08	20:29			
20	07:15	15:36 (02)	06:43		06:00	16:36 (01)	06:10	05:34	05:23			
	16:56	10 15:46 (02)	17:34		18:05	22 16:58 (01)	19:38	20:09	20:29			
21	07:14		06:42		05:58	16:38 (01)	06:08	05:33	05:23			
	16:57		17:35		18:07	16 16:54 (01)	19:39	20:10	20:29			
22	07:13		06:40		05:56	16:44 (01)	06:07	05:32	05:23			
	16:59		17:36		18:08	5 16:49 (01)	19:40	20:11	20:29			
23	07:13		06:39	16:45 (01)	05:55		06:05	05:31	05:23			
	17:00		17:38	13 16:58 (01)	18:09		19:41	20:11	20:29			
24	07:12		06:37	16:41 (01)	05:53		06:04	05:30	05:24			
	17:01		17:39	20 17:01 (01)	18:10		19:42	20:12	20:30			
25	07:11		06:36	16:39 (01)	05:51		06:02	05:30	05:24			
	17:02		17:40	25 17:04 (01)	18:11		19:43	20:13	20:30			
26	07:11		06:34	16:36 (01)	05:50		06:01	05:29	05:24			
	17:03		17:41	29 17:05 (01)	18:12		19:44	20:14	20:30			
27	07:10		06:33	16:35 (01)	05:48		06:00	05:28	05:24			
	17:05		17:42	32 17:07 (01)	18:13		19:45	20:15	20:30			
28	07:09		06:31	16:33 (01)	05:46		05:58	05:28	05:25			
	17:06		17:43	34 17:07 (01)	18:14		19:47	20:16	20:30			
29	07:08				06:45		05:57	05:27	05:25			
	17:07				19:15		19:48	20:17	20:30			
30	07:07				06:43		05:56	05:27	05:26			
	17:08				19:16		19:49	20:17	20:30			
31	07:06				06:41			05:26				
	17:10				19:17			20:18				
Ore potenziali eliofania	298		298		369		398	448	451			
Totale, caso peggiore	522		153		776							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento)
 Tramonto (hh:mm) Minuti d'ombra Fine ombreggiamento (hh:mm) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R06 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (8)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Settembre	Ottobre	Novembre	Novembre	Dicembre	Dicembre	
1	05:26	05:50	06:20		06:50	17:07 (01)	06:24	06:58	15:07 (02)	
	20:30	20:11	19:28		18:38	41 17:48 (01)	16:52	16:28	28 15:35 (02)	
2	05:27	05:51	06:21		06:51	17:07 (01)	06:25	06:59	15:06 (02)	
	20:30	20:10	19:27		18:36	41 17:48 (01)	16:51	16:27	29 15:35 (02)	
3	05:27	05:52	06:22		06:52	17:06 (01)	06:26	07:00	15:06 (02)	
	20:29	20:09	19:25		18:35	42 17:48 (01)	16:49	16:27	30 15:36 (02)	
4	05:28	05:53	06:23		06:53	17:05 (01)	06:27	07:01	15:06 (02)	
	20:29	20:08	19:23		18:33	43 17:48 (01)	16:48	16:27	31 15:37 (02)	
5	05:28	05:54	06:24		06:54	17:05 (01)	06:28	07:02	15:07 (02)	
	20:29	20:07	19:22		18:32	43 17:48 (01)	16:47	16:27	30 15:37 (02)	
6	05:29	05:55	06:25		06:55	17:04 (01)	06:30	07:03	15:07 (02)	
	20:29	20:05	19:20		18:30	43 17:47 (01)	16:46	16:27	31 15:38 (02)	
7	05:29	05:56	06:26		06:56	17:04 (01)	06:31	07:04	15:07 (02)	
	20:29	20:04	19:18		18:28	43 17:47 (01)	16:45	16:27	31 15:38 (02)	
8	05:30	05:57	06:27		06:57	17:04 (01)	06:32	07:05	15:07 (02)	
	20:28	20:03	19:17		18:27	42 17:46 (01)	16:44	16:27	32 15:39 (02)	
9	05:31	05:58	06:28		06:58	17:04 (01)	06:33	07:06	15:08 (02)	
	20:28	20:02	19:15		18:25	41 17:45 (01)	16:43	16:27	32 15:40 (02)	
10	05:31	05:59	06:29		06:59	17:04 (01)	06:34	07:07	15:07 (02)	
	20:27	20:00	19:14		18:23	40 17:44 (01)	16:42	16:27	32 15:39 (02)	
11	05:32	06:00	06:30		07:00	17:04 (01)	06:35	07:08	15:08 (02)	
	20:27	19:59	19:12		18:22	39 17:43 (01)	16:41	16:27	32 15:40 (02)	
12	05:33	06:01	06:31		07:01	17:06 (01)	06:37	07:09	15:08 (02)	
	20:27	19:58	19:10		18:20	37 17:43 (01)	16:40	16:27	33 15:41 (02)	
13	05:33	06:02	06:32		07:02	17:06 (01)	06:38	07:09	15:09 (02)	
	20:26	19:57	19:08		18:19	36 17:42 (01)	16:39	16:27	33 15:42 (02)	
14	05:34	06:03	06:33		07:03	17:07 (01)	06:39	07:10	15:10 (02)	
	20:26	19:55	19:07		18:17	33 17:40 (01)	16:38	16:27	32 15:42 (02)	
15	05:35	06:03	06:34		07:05	17:08 (01)	06:40	07:11	15:09 (02)	
	20:25	19:54	19:05		18:16	31 17:39 (01)	16:37	16:27	33 15:42 (02)	
16	05:36	06:04	06:35		07:06	17:10 (01)	06:41	07:12	15:10 (02)	
	20:24	19:52	19:03		18:14	27 17:37 (01)	16:36	16:28	33 15:43 (02)	
17	05:37	06:05	06:36		07:07	17:11 (01)	06:43	07:12	15:11 (02)	
	20:24	19:51	19:02		18:13	23 17:34 (01)	16:35	16:28	33 15:44 (02)	
18	05:37	06:06	06:37		07:08	17:14 (01)	06:44	07:13	15:11 (02)	
	20:23	19:50	19:00		18:11	17 17:31 (01)	16:35	16:28	33 15:44 (02)	
19	05:38	06:07	06:38		07:09	17:18 (01)	06:45	07:13	15:12 (02)	
	20:23	19:48	18:58		18:10	8 17:26 (01)	16:34	16:29	32 15:44 (02)	
20	05:39	06:08	06:39		07:10		06:46	07:14	15:11 (02)	
	20:22	19:47	18:57		18:08		16:33	16:29	33 15:44 (02)	
21	05:40	06:09	06:40		07:11		06:47	07:15	15:12 (02)	
	20:21	19:45	18:55		18:07		16:33	16:29	33 15:45 (02)	
22	05:41	06:10	06:41	17:24 (01)	07:12		06:48	15:12 (02)	07:15	15:12 (02)
	20:20	19:44	18:53	15 17:39 (01)	18:05		16:32	10 15:22 (02)	16:30	33 15:45 (02)
23	05:42	06:11	06:42	17:21 (01)	07:13		06:49	15:11 (02)	07:16	15:13 (02)
	20:20	19:42	18:52	20 17:41 (01)	18:04		16:31	14 15:25 (02)	16:30	33 15:46 (02)
24	05:42	06:12	06:43	17:18 (01)	07:14		06:51	15:10 (02)	07:16	15:13 (02)
	20:19	19:41	18:50	25 17:43 (01)	18:02		16:31	17 15:27 (02)	16:31	33 15:46 (02)
25	05:43	06:13	06:44	17:16 (01)	06:16		06:52	15:09 (02)	07:17	15:15 (02)
	20:18	19:39	18:48	29 17:45 (01)	17:01		16:30	19 15:28 (02)	16:32	32 15:47 (02)
26	05:44	06:14	06:45	17:14 (01)	06:17		06:53	15:08 (02)	07:17	15:15 (02)
	20:17	19:38	18:46	32 17:46 (01)	17:00		16:30	21 15:29 (02)	16:32	33 15:48 (02)
27	05:45	06:15	06:46	17:12 (01)	06:18		06:54	15:07 (02)	07:17	15:15 (02)
	20:16	19:36	18:45	35 17:47 (01)	16:58		16:29	23 15:30 (02)	16:33	33 15:48 (02)
28	05:46	06:16	06:47	17:11 (01)	06:19		06:55	15:06 (02)	07:18	15:15 (02)
	20:15	19:35	18:43	36 17:47 (01)	16:57		16:29	25 15:31 (02)	16:34	33 15:48 (02)
29	05:47	06:17	06:48	17:09 (01)	06:20		06:56	15:07 (02)	07:18	15:16 (02)
	20:14	19:33	18:41	39 17:48 (01)	16:56		16:28	26 15:33 (02)	16:34	33 15:49 (02)
30	05:48	06:18	06:49	17:08 (01)	06:21		06:57	15:07 (02)	07:18	15:17 (02)
	20:13	19:31	18:40	40 17:48 (01)	16:54		16:28	27 15:34 (02)	16:35	32 15:49 (02)
31	05:49	06:19			06:23				07:18	15:17 (02)
	20:12	19:30			16:53				16:36	33 15:50 (02)
Ore potenziali eliofanìa	458	427	375		346		299		289	994
Totale, caso peggiore				271	670		182		994	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R07 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (10)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile		Maggio		Giugno			
1	07:19	07:06	06:30	06:40		05:54		06:37 (06)	05:26	05:51 (07)	
	16:37	17:11	17:45	19:18		19:50	68	07:45 (05)	20:19	76	07:36 (05)
2	07:19	07:05	06:29	06:38		05:53		06:37 (06)	05:25		05:52 (07)
	16:38	17:12	17:46	19:19		19:51	67	07:44 (05)	20:20	75	07:36 (05)
3	07:19	07:04	06:27	06:36		05:52		06:39 (06)	05:25		05:52 (07)
	16:39	17:13	17:47	19:20		19:52	65	07:44 (05)	20:20	74	07:35 (05)
4	07:19	07:03	06:25	06:35		05:51		06:40 (06)	05:25		05:52 (07)
	16:40	17:15	17:48	19:21		19:53	64	07:44 (05)	20:21	73	07:35 (05)
5	07:19	07:02	06:24	06:33		05:49		06:40 (05)	05:24		05:53 (07)
	16:41	17:16	17:49	19:22		19:54	65	07:45 (05)	20:22	72	07:35 (05)
6	07:19	07:01	06:22	06:32		05:48		06:40 (05)	05:24		05:54 (07)
	16:41	17:17	17:50	19:24		19:55	65	07:45 (05)	20:22	70	07:35 (05)
7	07:19	06:59	06:21	06:30		05:47		06:39 (05)	05:24		05:53 (07)
	16:42	17:18	17:51	19:25		19:56	65	07:44 (05)	20:23	69	07:34 (05)
8	07:19	06:58	06:19	06:28		05:46		06:39 (05)	05:23		05:54 (07)
	16:43	17:20	17:53	19:26		19:57	65	07:44 (05)	20:24	67	07:34 (05)
9	07:19	06:57	06:18	06:27		05:45		06:39 (05)	05:23		05:54 (07)
	16:44	17:21	17:54	19:27		19:58	65	07:44 (05)	20:24	67	07:34 (05)
10	07:18	06:56	06:16	06:25		05:44		06:39 (05)	05:23		05:55 (07)
	16:45	17:22	17:55	19:28		19:59	64	07:43 (05)	20:25	66	07:34 (05)
11	07:18	06:55	06:14	06:24		06:51 (06)	05:42	06:39 (05)	05:23		05:55 (07)
	16:46	17:23	17:56	19:29	6	06:57 (06)	20:00	07:43 (05)	20:25	65	07:34 (05)
12	07:18	06:54	06:13	06:22		06:46 (06)	05:41	06:39 (05)	05:23		05:56 (07)
	16:47	17:25	17:57	19:30	15	07:01 (06)	20:01	07:43 (05)	20:26	64	07:34 (05)
13	07:18	06:52	06:11	06:20		06:44 (06)	05:40	06:01 (07)	05:23		05:56 (07)
	16:49	17:26	17:58	19:31	20	07:04 (06)	20:02	07:43 (05)	20:26	63	07:34 (05)
14	07:17	06:51	06:09	06:19		06:41 (06)	05:39	05:59 (07)	05:23		05:57 (07)
	16:50	17:27	17:59	19:32	38	07:23 (05)	20:03	07:42 (05)	20:27	62	07:34 (05)
15	07:17	06:50	06:08	06:17		06:40 (06)	05:38	05:58 (07)	05:23		05:57 (07)
	16:51	17:28	18:00	19:33	48	07:28 (05)	20:04	07:42 (05)	20:27	61	07:34 (05)
16	07:17	06:49	06:06	06:16		06:38 (06)	05:37	05:57 (07)	05:23		05:57 (07)
	16:52	17:29	18:01	19:34	53	07:31 (05)	20:05	07:42 (05)	20:28	61	07:34 (05)
17	07:16	06:47	06:05	06:14		06:38 (06)	05:36	05:57 (07)	05:23		05:57 (07)
	16:53	17:31	18:02	19:35	55	07:33 (05)	20:06	07:42 (05)	20:28	60	07:34 (05)
18	07:16	06:46	06:03	06:13		06:36 (06)	05:35	05:56 (07)	05:23		05:58 (07)
	16:54	17:32	18:03	19:36	59	07:35 (05)	20:07	07:42 (05)	20:28	59	07:34 (05)
19	07:15	06:45	06:01	06:11		06:36 (06)	05:35	05:55 (07)	05:23		05:58 (07)
	16:55	17:33	18:05	19:37	61	07:37 (05)	20:08	07:41 (05)	20:29	59	07:34 (05)
20	07:15	06:43	06:00	06:10		06:35 (06)	05:34	05:54 (07)	05:23		05:58 (07)
	16:56	17:34	18:06	19:38	63	07:38 (05)	20:09	07:41 (05)	20:29	59	07:34 (05)
21	07:14	06:42	05:58	06:08		06:35 (06)	05:33	05:53 (07)	05:23		05:58 (07)
	16:58	17:35	18:07	19:39	64	07:39 (05)	20:10	07:40 (05)	20:29	59	07:34 (05)
22	07:13	06:40	05:56	06:07		06:35 (06)	05:32	05:53 (07)	05:23		05:59 (07)
	16:59	17:37	18:08	19:40	65	07:40 (05)	20:11	07:40 (05)	20:29	59	07:35 (05)
23	07:13	06:39	05:55	06:05		06:34 (06)	05:31	05:52 (07)	05:23		05:59 (07)
	17:00	17:38	18:09	19:41	67	07:41 (05)	20:11	07:40 (05)	20:29	59	07:35 (05)
24	07:12	06:37	05:53	06:04		06:34 (06)	05:31	05:51 (07)	05:24		05:59 (07)
	17:01	17:39	18:10	19:42	68	07:42 (05)	20:12	07:39 (05)	20:30	59	07:35 (05)
25	07:11	06:36	05:51	06:02		06:34 (06)	05:30	05:51 (07)	05:24		05:58 (07)
	17:02	17:40	18:11	19:43	68	07:42 (05)	20:13	07:39 (05)	20:30	60	07:35 (05)
26	07:11	06:35	05:50	06:01		06:34 (06)	05:29	05:51 (07)	05:24		05:59 (07)
	17:04	17:41	18:12	19:44	69	07:43 (05)	20:14	07:38 (05)	20:30	61	07:36 (05)
27	07:10	06:33	05:48	06:00		06:35 (06)	05:29	05:51 (07)	05:25		05:59 (07)
	17:05	17:42	18:13	19:46	68	07:43 (05)	20:15	07:39 (05)	20:30	61	07:36 (05)
28	07:09	06:32	05:46	05:58		06:34 (06)	05:28	05:51 (07)	05:25		06:00 (07)
	17:06	17:44	18:14	19:47	69	07:43 (05)	20:16	07:38 (05)	20:30	61	07:37 (05)
29	07:08		06:45	05:57		06:35 (06)	05:27	05:51 (07)	05:25		05:59 (07)
	17:07		19:15	19:48	69	07:44 (05)	20:17	07:37 (05)	20:30	63	07:37 (05)
30	07:07		06:43	05:56		06:36 (06)	05:27	05:51 (07)	05:26		05:59 (07)
	17:08		19:16	19:49	68	07:44 (05)	20:17	07:37 (05)	20:30	63	07:37 (05)
31	07:07		06:41				05:26	05:52 (07)			
	17:10		19:17				20:18	07:37 (05)			
Ore potenziali eliofania	298	298	369	398		448			451		1927
Totale, caso peggiore				1093		2291					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R07 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (10)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:
Il sole splende tutto il di, dall'alba al tramonto
Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
La turbina è costantemente operativa

	Luglio		Agosto		Settembre		5	Ottobre	Novembre	Dicembre		
1	05:26	05:59 (07)	05:50	06:49 (05)	06:20	06:51 (06)	06:50	06:24	06:58			
	20:30	65	07:38 (05)	20:11	65	07:54 (05)	19:28	5	06:56 (06)	18:38	16:52	16:28
2	05:27	05:59 (07)	05:51	06:49 (05)	06:21	06:51	06:25	06:59				
	20:30	66	07:38 (05)	20:10	65	07:54 (05)	19:27	18:37	16:51	16:28		
3	05:27	06:00 (07)	05:52	06:49 (05)	06:22	06:52	06:26	07:00				
	20:30	66	07:39 (05)	20:09	65	07:54 (05)	19:25	18:35	16:50	16:27		
4	05:28	05:59 (07)	05:53	06:49 (05)	06:23	06:53	06:27	07:01				
	20:29	67	07:39 (05)	20:08	65	07:54 (05)	19:24	18:33	16:48	16:27		
5	05:28	05:59 (07)	05:54	06:49 (05)	06:24	06:54	06:28	07:02				
	20:29	69	07:40 (05)	20:07	65	07:54 (05)	19:22	18:32	16:47	16:27		
6	05:29	06:00 (07)	05:55	06:49 (05)	06:25	06:55	06:30	07:03				
	20:29	70	07:41 (05)	20:05	65	07:54 (05)	19:20	18:30	16:46	16:27		
7	05:30	05:59 (07)	05:56	06:49 (05)	06:26	06:56	06:31	07:04				
	20:29	71	07:41 (05)	20:04	65	07:54 (05)	19:19	18:28	16:45	16:27		
8	05:30	06:00 (07)	05:57	06:49 (05)	06:27	06:57	06:32	07:05				
	20:28	71	07:42 (05)	20:03	65	07:54 (05)	19:17	18:27	16:44	16:27		
9	05:31	05:59 (07)	05:58	06:49 (06)	06:28	06:58	06:33	07:06				
	20:28	73	07:42 (05)	20:02	64	07:53 (05)	19:15	18:25	16:43	16:27		
10	05:32	05:59 (07)	05:59	06:47 (06)	06:29	06:59	06:34	07:07				
	20:28	75	07:43 (05)	20:01	66	07:53 (05)	19:14	18:24	16:42	16:27		
11	05:32	06:00 (07)	06:00	06:46 (06)	06:30	07:00	06:36	07:08				
	20:27	75	07:44 (05)	19:59	67	07:53 (05)	19:12	18:22	16:41	16:27		
12	05:33	05:59 (07)	06:01	06:44 (06)	06:31	07:01	06:37	07:09				
	20:27	77	07:44 (05)	19:58	68	07:52 (05)	19:10	18:20	16:40	16:27		
13	05:34	05:59 (07)	06:02	06:43 (06)	06:32	07:02	06:38	07:09				
	20:26	78	07:45 (05)	19:57	69	07:52 (05)	19:09	18:19	16:39	16:27		
14	05:34	06:00 (07)	06:03	06:43 (06)	06:33	07:04	06:39	07:10				
	20:26	79	07:46 (05)	19:55	68	07:51 (05)	19:07	18:17	16:38	16:27		
15	05:35	06:00 (07)	06:04	06:42 (06)	06:34	07:05	06:40	07:11				
	20:25	80	07:47 (05)	19:54	69	07:51 (05)	19:05	18:16	16:37	16:28		
16	05:36	06:00 (07)	06:05	06:41 (06)	06:35	07:06	06:41	07:12				
	20:25	81	07:47 (05)	19:53	69	07:50 (05)	19:04	18:14	16:36	16:28		
17	05:37	06:00 (07)	06:06	06:41 (06)	06:36	07:07	06:43	07:12				
	20:24	82	07:48 (05)	19:51	68	07:49 (05)	19:02	18:13	16:36	16:28		
18	05:38	06:00 (07)	06:07	06:40 (06)	06:37	07:08	06:44	07:13				
	20:23	82	07:48 (05)	19:50	68	07:48 (05)	19:00	18:11	16:35	16:28		
19	05:38	06:01 (07)	06:08	06:40 (06)	06:38	07:09	06:45	07:14				
	20:23	82	07:49 (05)	19:48	67	07:47 (05)	18:58	18:10	16:34	16:29		
20	05:39	06:02 (07)	06:09	06:40 (06)	06:39	07:10	06:46	07:14				
	20:22	83	07:50 (05)	19:47	66	07:46 (05)	18:57	18:08	16:33	16:29		
21	05:40	06:02 (07)	06:10	06:40 (06)	06:40	07:11	06:47	07:15				
	20:21	83	07:50 (05)	19:45	65	07:45 (05)	18:55	18:07	16:33	16:30		
22	05:41	06:03 (07)	06:11	06:40 (06)	06:41	07:12	06:48	07:15				
	20:20	82	07:50 (05)	19:44	64	07:44 (05)	18:53	18:05	16:32	16:30		
23	05:42	06:04 (07)	06:12	06:40 (06)	06:42	07:13	06:50	07:16				
	20:20	82	07:51 (05)	19:42	62	07:42 (05)	18:52	18:04	16:31	16:31		
24	05:43	06:05 (07)	06:13	06:40 (06)	06:43	07:15	06:51	07:16				
	20:19	81	07:51 (05)	19:41	60	07:40 (05)	18:50	18:03	16:31	16:31		
25	05:44	06:06 (07)	06:14	06:40 (06)	06:44	06:16	06:52	07:17				
	20:18	80	07:52 (05)	19:39	58	07:38 (05)	18:48	17:01	16:30	16:32		
26	05:44	06:07 (07)	06:15	06:40 (06)	06:45	06:17	06:53	07:17				
	20:17	79	07:52 (05)	19:38	55	07:35 (05)	18:47	17:00	16:30	16:32		
27	05:45	06:08 (07)	06:15	06:40 (06)	06:46	06:18	06:54	07:17				
	20:16	78	07:53 (05)	19:36	52	07:32 (05)	18:45	16:58	16:29	16:33		
28	05:46	06:08 (07)	06:16	06:41 (06)	06:47	06:19	06:55	07:18				
	20:15	76	07:52 (05)	19:35	48	07:29 (05)	18:43	16:57	16:29	16:34		
29	05:47	06:09 (07)	06:17	06:42 (06)	06:48	06:20	06:56	07:18				
	20:14	76	07:53 (05)	19:33	35	07:23 (05)	18:42	16:56	16:29	16:34		
30	05:48	06:10 (07)	06:18	06:44 (06)	06:49	06:21	06:57	07:18				
	20:13	72	07:53 (05)	19:32	19	07:03 (06)	18:40	16:54	16:28	16:35		
31	05:49	06:49 (05)	06:19	06:46 (06)		06:23			07:18			
	20:12	64	07:53 (05)	19:30	15	07:01 (06)		16:53		16:36		
Ore potenziali eliofanìa	458		427		375		346	299	289			
Totale, caso peggiore	2345		1862		5							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R08 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (6)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:
Il sole splende tutto il di, dall'alba al tramonto
Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:19 16:37	07:06 17:11	07:31 (10) 07:57 (10)	06:30 17:45	06:40 19:18	05:54 19:50
2	07:19 16:38	07:05 17:12	07:29 (10) 07:58 (10)	06:28 17:46	06:38 19:19	05:53 19:51
3	07:19 16:39	07:04 17:13	07:29 (10) 08:00 (10)	06:27 17:47	06:36 19:20	05:52 19:52
4	07:19 16:40	07:03 17:15	07:28 (10) 08:01 (10)	06:25 17:48	06:35 19:21	05:51 19:53
5	07:19 16:40	07:02 17:16	07:27 (10) 08:02 (10)	06:24 17:49	06:33 19:22	05:49 19:54
6	07:19 16:41	07:00 17:17	07:27 (10) 08:03 (10)	06:22 17:50	06:32 19:23	05:48 19:55
7	07:19 16:42	06:59 17:18	07:26 (10) 08:04 (10)	06:21 17:51	06:30 19:25	05:47 19:56
8	07:19 16:43	06:58 17:20	07:26 (10) 08:04 (10)	06:19 17:53	06:28 19:26	05:46 19:57
9	07:19 16:44	06:57 17:21	07:26 (10) 08:05 (10)	06:18 17:54	06:27 19:27	05:45 19:58
10	07:18 16:45	06:56 17:22	07:25 (10) 08:04 (10)	06:16 17:55	06:25 19:28	05:43 19:59
11	07:18 16:46	06:55 17:23	07:25 (10) 08:05 (10)	06:14 17:56	06:24 19:29	05:42 20:00
12	07:18 16:47	06:54 17:24	07:25 (10) 08:05 (10)	06:13 17:57	06:22 19:30	05:41 20:01
13	07:18 16:49	06:52 17:26	07:26 (10) 08:05 (10)	06:11 17:58	06:20 19:31	05:40 20:02
14	07:17 16:50	06:51 17:27	07:25 (10) 08:05 (10)	06:09 17:59	06:19 19:32	05:39 20:03
15	07:17 16:51	06:50 17:28	07:26 (10) 08:05 (10)	06:08 18:00	06:17 19:33	05:38 20:04
16	07:17 16:52	06:48 17:29	07:26 (10) 08:05 (10)	06:06 18:01	06:16 19:34	05:37 20:05
17	07:16 16:53	06:47 17:31	07:26 (10) 08:03 (10)	06:05 18:02	06:14 19:35	05:36 20:06
18	07:16 16:54	06:46 17:32	07:27 (10) 08:03 (10)	06:03 18:03	06:13 19:36	05:35 20:07
19	07:15 16:55	06:44 17:33	07:28 (10) 08:03 (10)	06:01 18:04	06:11 19:37	05:35 20:08
20	07:15 16:56	06:43 17:34	07:28 (10) 08:01 (10)	06:00 18:06	06:10 19:38	05:34 20:09
21	07:14 16:58	06:42 17:35	07:29 (10) 08:00 (10)	05:58 18:07	06:08 19:39	05:33 20:10
22	07:13 16:59	06:40 17:36	07:30 (10) 07:58 (10)	05:56 18:08	06:07 19:40	05:32 20:10
23	07:13 17:00	06:39 17:38	07:32 (10) 07:57 (10)	05:55 18:09	06:05 19:41	05:31 20:11
24	07:12 17:01	06:37 17:39	07:33 (10) 07:55 (10)	05:53 18:10	06:04 19:42	05:31 20:12
25	07:11 17:02	06:36 17:40	07:36 (10) 07:52 (10)	05:51 18:11	06:02 19:43	05:30 20:13
26	07:11 17:04	06:35 17:41	07:40 (10) 07:47 (10)	05:50 18:12	06:01 19:44	05:29 20:14
27	07:10 17:05	06:33 17:42		05:48 18:13	06:00 19:45	05:29 20:15
28	07:09 17:06	06:32 07:39 (10) 07:48 (10)		05:46 18:14	05:58 19:47	05:28 20:16
29	07:08 17:07	06:31 07:35 (10) 07:51 (10)		05:45 19:15	05:57 19:48	05:27 20:16
30	07:07 17:08	06:30 07:33 (10) 07:54 (10)		05:43 19:16	05:56 19:49	05:27 20:17
31	07:06 17:10	06:29 07:32 (10) 07:56 (10)		05:41 19:17		05:26 20:18
Ore potenziali eliofanìa	298	298	369	398	448	451
Totale, caso peggiore	70	851		263	763	196

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R08 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (6)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre			
1	05:26	05:49 (12)	05:50	06:25 (11)	06:20	06:50	06:24	06:55 (10)	06:58
	20:30	7 05:56 (12)	20:11	36 07:01 (11)	19:28	18:38	16:52	39 07:34 (10)	16:28
2	05:27	05:49 (12)	05:51	06:24 (11)	06:21	06:51	06:25	06:55 (10)	06:59
	20:30	6 05:55 (12)	20:10	37 07:01 (11)	19:27	18:37	16:51	39 07:34 (10)	16:28
3	05:27	05:50 (12)	05:52	06:24 (11)	06:22	06:52	06:26	06:56 (10)	07:00
	20:29	6 05:56 (12)	20:09	37 07:01 (11)	19:25	18:35	16:50	38 07:34 (10)	16:27
4	05:28	05:50 (12)	05:53	06:24 (11)	06:23	06:53	06:27	06:56 (10)	07:01
	20:29	5 05:55 (12)	20:08	38 07:02 (11)	19:23	18:33	16:48	37 07:33 (10)	16:27
5	05:28	05:51 (12)	05:54	06:24 (11)	06:24	06:54	06:28	06:57 (10)	07:02
	20:29	4 05:55 (12)	20:07	38 07:02 (11)	19:22	18:32	16:47	36 07:33 (10)	16:27
6	05:29	05:51 (12)	05:55	06:24 (11)	06:25	06:55	06:30	06:57 (10)	07:03
	20:29	4 05:55 (12)	20:05	38 07:02 (11)	19:20	18:30	16:46	35 07:32 (10)	16:27
7	05:30	05:52 (12)	05:56	06:23 (11)	06:26	06:56	06:31	06:59 (10)	07:04
	20:29	3 05:55 (12)	20:04	39 07:02 (11)	19:19	18:28	16:45	33 07:32 (10)	16:27
8	05:30	05:53 (12)	05:57	06:22 (11)	06:27	06:57	06:32	07:00 (10)	07:05
	20:28	2 05:55 (12)	20:03	39 07:01 (11)	19:17	18:27	16:44	31 07:31 (10)	16:27
9	05:31	05:58	05:58	06:22 (11)	06:28	06:58	06:33	07:00 (10)	07:06
	20:28	20:02	39 07:01 (11)	19:15	18:25	16:43	29 07:29 (10)	16:27	
10	05:32	05:59	06:23 (11)	06:29	06:59	06:34	06:34	07:02 (10)	07:07
	20:27	20:00	38 07:01 (11)	19:14	18:24	16:42	26 07:28 (10)	16:27	
11	05:32	06:00	06:23 (11)	06:30	07:00	06:35	07:04 (10)	07:08	
	20:27	19:59	37 07:00 (11)	19:12	18:22	16:41	23 07:27 (10)	16:27	
12	05:33	06:01	06:23 (11)	06:31	07:01	06:37	06:37	07:05 (10)	07:08
	20:27	19:58	37 07:00 (11)	19:10	18:20	16:40	20 07:25 (10)	16:27	
13	05:34	06:02	06:23 (11)	06:32	07:02	06:38	06:38	07:08 (10)	07:09
	20:26	19:57	36 06:59 (11)	19:09	18:19	16:39	15 07:23 (10)	16:27	
14	05:34	06:03	06:24 (11)	06:33	07:03	06:39	06:39	07:12 (10)	07:10
	20:26	19:55	35 06:59 (11)	19:07	18:17	16:38	9 07:21 (10)	16:27	
15	05:35	06:04	06:25 (11)	06:34	07:05	06:40	06:40	07:11	
	20:25	19:54	33 06:58 (11)	19:05	18:16	16:37	16:28		
16	05:36	06:05	06:26 (11)	06:35	07:06	06:41	08:10 (10)	06:41	07:11
	20:24	19:52	31 06:57 (11)	19:03	18:14	16:36	12 08:22 (10)	16:36	16:28
17	05:37	06:06	06:27 (11)	06:36	07:07	06:43	08:07 (10)	06:43	07:12
	20:24	19:51	29 06:56 (11)	19:02	18:13	16:36	18 08:25 (10)	16:36	16:28
18	05:38	06:07	06:28 (11)	06:37	07:08	06:44	08:04 (10)	06:44	07:13
	20:23	19:50	26 06:54 (11)	19:00	18:11	16:35	23 08:27 (10)	16:35	16:28
19	05:38	06:38 (11)	06:08	06:29 (11)	06:38	07:09	08:02 (10)	06:45	07:13
	20:23	9 06:47 (11)	19:48	24 06:53 (11)	18:58	18:10	26 08:28 (10)	16:34	16:29
20	05:39	06:35 (11)	06:09	06:30 (11)	06:39	07:10	08:01 (10)	06:46	07:14
	20:22	14 06:49 (11)	19:47	21 06:51 (11)	18:57	18:08	30 08:31 (10)	16:33	16:29
21	05:40	06:33 (11)	06:10	06:32 (11)	06:40	07:11	08:00 (10)	06:47	07:15
	20:21	18 06:51 (11)	19:45	16 06:48 (11)	18:55	18:07	31 08:31 (10)	16:33	16:30
22	05:41	06:32 (11)	06:11	06:36 (11)	06:41	07:12	07:58 (10)	06:48	07:15
	20:20	20 06:52 (11)	19:44	8 06:44 (11)	18:53	18:05	34 08:32 (10)	16:32	16:30
23	05:42	06:31 (11)	06:12	06:42	07:13	06:49	07:57 (10)	06:49	07:16
	20:19	23 06:54 (11)	19:42	18:52	18:04	16:31	36 08:33 (10)	16:31	16:31
24	05:43	06:30 (11)	06:12	06:43	07:14	06:51	07:56 (10)	06:51	07:16
	20:19	25 06:55 (11)	19:41	18:50	18:02	16:31	37 08:33 (10)	16:31	16:31
25	05:44	06:29 (11)	06:13	06:44	06:16	06:52	06:56 (10)	06:52	07:17
	20:18	27 06:56 (11)	19:39	18:48	17:01	16:30	38 07:34 (10)	16:30	16:32
26	05:44	06:29 (11)	06:14	06:45	06:17	06:53	06:56 (10)	06:53	07:17
	20:17	28 06:57 (11)	19:38	18:47	17:00	16:30	38 07:34 (10)	16:30	16:32
27	05:45	06:27 (11)	06:15	06:46	06:18	06:54	06:55 (10)	06:54	07:17
	20:16	30 06:57 (11)	19:36	18:45	16:58	16:29	39 07:34 (10)	16:29	16:33
28	05:46	06:26 (11)	06:16	06:47	06:19	06:55	06:55 (10)	06:55	07:18
	20:15	32 06:58 (11)	19:35	18:43	16:57	16:29	39 07:34 (10)	16:29	16:34
29	05:47	06:26 (11)	06:17	06:48	06:20	06:56	06:54 (10)	06:56	07:18
	20:14	33 06:59 (11)	19:33	18:42	16:56	16:29	40 07:34 (10)	16:29	16:34
30	05:48	06:25 (11)	06:18	06:49	06:21	06:57	06:55 (10)	06:57	07:18
	20:13	35 07:00 (11)	19:32	18:40	16:54	16:28	40 07:35 (10)	16:28	16:35
31	05:49	06:25 (11)	06:19	06:50	06:23	06:58	06:55 (10)	06:58	07:18
	20:12	35 07:00 (11)	19:30	18:39	16:53	16:28	40 07:35 (10)	16:28	16:36
Ore potenziali eliofania	458			375	346		299		289
Totale, caso peggiore	366		712		521		410		

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R09 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (7)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile		Maggio		Giugno	
1	07:19 16:37	07:06 17:11	06:30 17:45	06:40 19:18		05:54 19:50		06:48 (10) 20:19	06:55 (10) 54
2	07:19 16:38	07:05 17:12	06:28 17:46	06:38 19:19		05:53 19:51	71	06:48 (10) 20:20	06:56 (10) 53
3	07:19 16:39	07:04 17:13	06:27 17:47	06:36 19:20		05:52 19:52	71	06:48 (10) 20:20	06:56 (10) 53
4	07:19 16:40	07:03 17:15	06:25 17:48	06:35 19:21		05:51 19:53	71	06:48 (10) 20:21	06:57 (10) 52
5	07:19 16:40	07:02 17:16	06:24 17:49	06:33 19:22		05:49 19:54	71	06:48 (10) 20:22	06:58 (10) 51
6	07:19 16:41	07:00 17:17	06:22 17:50	06:32 19:23		05:48 19:55	71	06:48 (10) 20:22	06:58 (10) 49
7	07:19 16:42	06:59 17:18	06:21 17:51	06:30 19:24		05:47 19:56	71	06:47 (10) 20:23	06:59 (10) 48
8	07:19 16:43	06:58 17:20	06:19 17:53	06:28 19:26		05:46 19:57	71	06:47 (10) 20:24	06:59 (10) 48
9	07:19 16:44	06:57 17:21	06:18 17:54	06:27 19:27		05:45 19:58	71	06:47 (10) 20:24	07:00 (10) 47
10	07:18 16:45	06:56 17:22	06:16 17:55	06:25 19:28	16	07:22 (10) 07:38 (10)	05:43 19:59	06:47 (10) 20:25	07:01 (10) 46
11	07:18 16:46	06:55 17:23	06:14 17:56	06:23 19:29	26	07:16 (10) 07:42 (10)	05:42 20:00	06:47 (10) 20:25	07:02 (10) 45
12	07:18 16:47	06:54 17:24	06:13 17:57	06:22 19:30	33	07:12 (10) 07:45 (10)	05:41 20:01	06:47 (10) 20:26	07:02 (10) 45
13	07:18 16:49	06:52 17:26	06:11 17:58	06:20 19:31	38	07:10 (10) 07:48 (10)	05:40 20:02	06:47 (10) 20:26	07:03 (10) 44
14	07:17 16:50	06:51 17:27	06:09 17:59	06:19 19:32	42	07:07 (10) 07:49 (10)	05:39 20:03	06:47 (10) 20:27	07:03 (10) 44
15	07:17 16:51	06:50 17:28	06:08 18:00	06:17 19:33	46	07:05 (10) 07:51 (10)	05:38 20:04	06:47 (10) 20:27	07:04 (10) 43
16	07:17 16:52	06:48 17:29	06:06 18:01	06:16 19:34	49	07:03 (10) 07:52 (10)	05:37 20:05	06:48 (10) 20:27	07:04 (10) 43
17	07:16 16:53	06:47 17:31	06:05 18:02	06:14 19:35	53	07:01 (10) 07:54 (10)	05:36 20:06	06:49 (10) 20:28	07:04 (10) 43
18	07:16 16:54	06:46 17:32	06:03 18:03	06:13 19:36	55	06:59 (10) 07:54 (10)	05:35 20:07	06:49 (10) 20:28	07:04 (10) 43
19	07:15 16:55	06:44 17:33	06:01 18:04	06:11 19:37	58	06:58 (10) 07:56 (10)	05:35 20:08	06:49 (10) 20:28	07:05 (10) 42
20	07:15 16:56	06:43 17:34	06:00 18:06	06:10 19:38	59	06:57 (10) 07:56 (10)	05:34 20:09	06:49 (10) 20:29	07:05 (10) 42
21	07:14 16:58	06:42 17:35	05:58 18:07	06:08 19:39	61	06:56 (10) 07:57 (10)	05:33 20:10	06:49 (10) 20:29	07:05 (10) 42
22	07:13 16:59	06:40 17:36	05:56 18:08	06:07 19:40	63	06:54 (10) 07:57 (10)	05:32 20:10	06:50 (10) 20:29	07:06 (10) 42
23	07:13 17:00	06:39 17:38	05:55 18:09	06:05 19:41	65	06:53 (10) 07:58 (10)	05:31 20:11	06:51 (10) 20:29	07:06 (10) 42
24	07:12 17:01	06:37 17:39	05:53 18:10	06:04 19:42	66	06:53 (10) 07:59 (10)	05:31 20:12	06:51 (10) 20:30	07:06 (10) 42
25	07:11 17:02	06:36 17:40	05:51 18:11	06:02 19:43	67	06:51 (10) 07:58 (10)	05:30 20:13	06:52 (10) 20:30	07:05 (10) 43
26	07:11 17:04	06:34 17:41	05:50 18:12	06:01 19:44	68	06:51 (10) 07:59 (10)	05:29 20:14	06:52 (10) 20:30	07:06 (10) 43
27	07:10 17:05	06:33 17:42	05:48 18:13	06:00 19:45	69	06:51 (10) 08:00 (10)	05:29 20:15	06:53 (10) 20:30	07:06 (10) 43
28	07:09 17:06	06:31 17:43	05:46 18:14	05:58 19:46	70	06:49 (10) 07:59 (10)	05:28 20:16	06:53 (10) 20:30	07:05 (10) 44
29	07:08 17:07		06:45 19:15	05:57 19:48	70	06:49 (10) 07:59 (10)	05:27 20:16	06:53 (10) 20:30	07:06 (10) 44
30	07:07 17:08		06:43 19:16	05:56 19:49	71	06:49 (10) 08:00 (10)	05:27 20:17	06:54 (10) 20:30	07:05 (10) 45
31	07:06 17:10		06:41 19:17			05:26 20:18	06:55 (10) 07:50 (10)		
Ore potenziali eliofania	298	298	369	398		447		451	
Totale, caso peggiore				1145		2047		1365	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento)
Tramonto (hh:mm)Minuti d'ombra Fine ombreggiamento (hh:mm) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R09 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (7)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio		Agosto		Settembre		Ottobre		Novembre		Dicembre	
1	05:26		07:06 (10)	05:50	06:58 (10)	06:20	07:15 (10)	06:50	06:24	06:58		
	20:30	45	07:51 (10)	20:11	70	08:08 (10)	19:28	26	07:41 (10)	18:38	16:52	16:28
2	05:27		07:05 (10)	05:51	06:57 (10)	06:21	07:20 (10)	06:51	06:25	06:59		
	20:30	46	07:51 (10)	20:10	71	08:08 (10)	19:27	15	07:35 (10)	18:37	16:51	16:28
3	05:27		07:06 (10)	05:52	06:57 (10)	06:22		06:52	06:26	07:00		
	20:29	46	07:52 (10)	20:09	71	08:08 (10)	19:25		18:35	16:50	16:27	
4	05:28		07:05 (10)	05:53	06:57 (10)	06:23		06:53	06:27	07:01		
	20:29	47	07:52 (10)	20:08	72	08:09 (10)	19:23		18:33	16:48	16:27	
5	05:28		07:05 (10)	05:54	06:57 (10)	06:24		06:54	06:28	07:02		
	20:29	48	07:53 (10)	20:07	72	08:09 (10)	19:22		18:32	16:47	16:27	
6	05:29		07:04 (10)	05:55	06:57 (10)	06:25		06:55	06:30	07:03		
	20:29	49	07:53 (10)	20:05	72	08:09 (10)	19:20		18:30	16:46	16:27	
7	05:30		07:04 (10)	05:56	06:57 (10)	06:26		06:56	06:31	07:04		
	20:28	51	07:55 (10)	20:04	72	08:09 (10)	19:19		18:28	16:45	16:27	
8	05:30		07:05 (10)	05:57	06:56 (10)	06:27		06:57	06:32	07:05		
	20:28	51	07:56 (10)	20:03	72	08:08 (10)	19:17		18:27	16:44	16:27	
9	05:31		07:04 (10)	05:58	06:56 (10)	06:28		06:58	06:33	07:06		
	20:28	52	07:56 (10)	20:02	72	08:08 (10)	19:15		18:25	16:43	16:27	
10	05:32		07:04 (10)	05:59	06:56 (10)	06:29		06:59	06:34	07:07		
	20:27	52	07:56 (10)	20:00	72	08:08 (10)	19:14		18:23	16:42	16:27	
11	05:32		07:04 (10)	06:00	06:56 (10)	06:30		07:00	06:35	07:08		
	20:27	53	07:57 (10)	19:59	72	08:08 (10)	19:12		18:22	16:41	16:27	
12	05:33		07:03 (10)	06:01	06:57 (10)	06:31		07:01	06:37	07:08		
	20:27	54	07:57 (10)	19:58	71	08:08 (10)	19:10		18:20	16:40	16:27	
13	05:34		07:03 (10)	06:02	06:57 (10)	06:32		07:02	06:38	07:09		
	20:26	55	07:58 (10)	19:57	70	08:07 (10)	19:09		18:19	16:39	16:27	
14	05:34		07:03 (10)	06:03	06:57 (10)	06:33		07:03	06:39	07:10		
	20:26	56	07:59 (10)	19:55	70	08:07 (10)	19:07		18:17	16:38	16:27	
15	05:35		07:03 (10)	06:04	06:57 (10)	06:34		07:05	06:40	07:11		
	20:25	57	08:00 (10)	19:54	70	08:07 (10)	19:05		18:16	16:37	16:28	
16	05:36		07:02 (10)	06:05	06:58 (10)	06:35		07:06	06:41	07:11		
	20:24	58	08:00 (10)	19:52	68	08:06 (10)	19:03		18:14	16:36	16:28	
17	05:37		07:02 (10)	06:06	06:58 (10)	06:36		07:07	06:43	07:12		
	20:24	59	08:01 (10)	19:51	68	08:06 (10)	19:02		18:13	16:36	16:28	
18	05:38		07:01 (10)	06:07	06:58 (10)	06:37		07:08	06:44	07:13		
	20:23	61	08:02 (10)	19:50	67	08:05 (10)	19:00		18:11	16:35	16:28	
19	05:38		07:01 (10)	06:08	06:59 (10)	06:38		07:09	06:45	07:13		
	20:22	61	08:02 (10)	19:48	65	08:04 (10)	18:58		18:10	16:34	16:29	
20	05:39		07:00 (10)	06:09	06:59 (10)	06:39		07:10	06:46	07:14		
	20:22	62	08:02 (10)	19:47	65	08:04 (10)	18:57		18:08	16:33	16:29	
21	05:40		07:00 (10)	06:10	07:00 (10)	06:40		07:11	06:47	07:15		
	20:21	63	08:03 (10)	19:45	63	08:03 (10)	18:55		18:07	16:33	16:30	
22	05:41		07:00 (10)	06:11	07:01 (10)	06:41		07:12	06:48	07:15		
	20:20	64	08:04 (10)	19:44	61	08:02 (10)	18:53		18:05	16:32	16:30	
23	05:42		07:00 (10)	06:11	07:01 (10)	06:42		07:13	06:49	07:16		
	20:19	64	08:04 (10)	19:42	60	08:01 (10)	18:52		18:04	16:31	16:31	
24	05:43		07:00 (10)	06:12	07:02 (10)	06:43		07:14	06:51	07:16		
	20:19	65	08:05 (10)	19:41	57	07:59 (10)	18:50		18:02	16:31	16:31	
25	05:44		06:59 (10)	06:13	07:02 (10)	06:44		06:16	06:52	07:17		
	20:18	67	08:06 (10)	19:39	55	07:57 (10)	18:48		17:01	16:30	16:32	
26	05:44		06:59 (10)	06:14	07:03 (10)	06:45		06:17	06:53	07:17		
	20:17	67	08:06 (10)	19:38	53	07:56 (10)	18:47		17:00	16:30	16:32	
27	05:45		06:58 (10)	06:15	07:05 (10)	06:46		06:18	06:54	07:17		
	20:16	68	08:06 (10)	19:36	49	07:54 (10)	18:45		16:58	16:29	16:33	
28	05:46		06:58 (10)	06:16	07:06 (10)	06:47		06:19	06:55	07:18		
	20:15	68	08:06 (10)	19:35	46	07:52 (10)	18:43		16:57	16:29	16:34	
29	05:47		06:58 (10)	06:17	07:08 (10)	06:48		06:20	06:56	07:18		
	20:14	69	08:07 (10)	19:33	42	07:50 (10)	18:42		16:56	16:29	16:34	
30	05:48		06:58 (10)	06:18	07:10 (10)	06:49		06:21	06:57	07:18		
	20:13	69	08:07 (10)	19:31	37	07:47 (10)	18:40		16:54	16:28	16:35	
31	05:49		06:58 (10)	06:19	07:12 (10)			06:23		07:18		
	20:12	70	08:08 (10)	19:30	32	07:44 (10)		16:53		16:36		
Ore potenziali eliofanìa	458		427		375		41	346	299	289		
Totale, caso peggiore	1797		1957		41							

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento)
 Tramonto (hh:mm) Minuti d'ombra Fine ombreggiamento (hh:mm) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R10 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (11)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:
Il sole splende tutto il di, dall'alba al tramonto
Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo		Aprile		Maggio		Giugno		
1	07:19	07:06	06:30		06:40		07:01 (06)	05:54	06:19 (07)	05:26	
	16:37	17:11	17:45		19:18	54	07:55 (05)	19:50	18	06:37 (07)	20:19
2	07:19	07:05	06:29		06:38		07:00 (06)	05:53	06:20 (07)	05:25	
	16:38	17:12	17:46		19:19	54	07:54 (05)	19:51	15	06:35 (07)	20:20
3	07:19	07:04	06:27		06:36		07:01 (06)	05:52	06:21 (07)	05:25	
	16:39	17:13	17:47		19:20	52	07:53 (05)	19:52	12	06:33 (07)	20:20
4	07:19	07:03	06:25		06:35		07:01 (06)	05:51	06:24 (07)	05:25	
	16:40	17:15	17:48		19:21	50	07:51 (05)	19:53	7	06:31 (07)	20:21
5	07:19	07:02	06:24		06:33		07:02 (06)	05:49			05:24
	16:41	17:16	17:49		19:22	48	07:50 (05)	19:54			20:22
6	07:19	07:01	06:22		06:32		07:03 (06)	05:48			05:24
	16:41	17:17	17:50		19:24	43	07:48 (05)	19:55			20:22
7	07:19	06:59	06:21		06:30		07:04 (06)	05:47			05:24
	16:42	17:18	17:51		19:25	35	07:45 (05)	19:56			20:23
8	07:19	06:58	06:19		06:28		07:07 (06)	05:46			05:23
	16:43	17:20	17:53		19:26	24	07:42 (05)	19:57			20:24
9	07:19	06:57	06:18		06:27			05:45			05:23
	16:44	17:21	17:54		19:27			19:58			20:24
10	07:19	06:56	06:16		06:25			05:44			05:23
	16:45	17:22	17:55		19:28			19:59			20:25
11	07:18	06:55	06:14		06:24			05:42			05:23
	16:46	17:23	17:56		19:29			20:00			20:25
12	07:18	06:54	06:13		06:22			05:41			05:23
	16:47	17:25	17:57		19:30			20:01			20:26
13	07:18	06:52	06:11		06:20			05:40			05:23
	16:49	17:26	17:58		19:31			20:02			20:26
14	07:17	06:51	06:10		06:19			05:39			05:23
	16:50	17:27	17:59	1	06:43 (05)			20:03			20:27
15	07:17	06:50	06:08		06:34 (05)			05:38			05:23
	16:51	17:28	18:00	16	06:50 (05)			20:04			20:27
16	07:17	06:49	06:06		06:32 (05)			05:37			05:23
	16:52	17:29	18:01	21	06:53 (05)			20:05			20:28
17	07:16	06:47	06:05		06:29 (05)			05:36			05:23
	16:53	17:31	18:02	26	06:55 (05)			20:06			20:28
18	07:16	06:46	06:03		06:27 (05)			05:35			05:23
	16:54	17:32	18:03	29	06:56 (05)			20:07			20:28
19	07:15	06:45	06:01		06:26 (05)		06:30 (07)	05:35			05:23
	16:55	17:33	18:05	32	06:58 (05)		06:35 (07)	20:08			20:29
20	07:15	06:43	06:00		06:24 (05)		06:28 (07)	05:34			05:23
	16:56	17:34	18:06	34	06:58 (05)		06:37 (07)	20:09			20:29
21	07:14	06:42	05:58		06:22 (05)		06:27 (07)	05:33			05:23
	16:58	17:35	18:07	36	06:58 (05)		06:38 (07)	20:10			20:29
22	07:14	06:40	05:56		06:22 (05)		06:26 (07)	05:32			05:23
	16:59	17:37	18:08	37	06:59 (05)		06:39 (07)	20:11			20:29
23	07:13	06:39	05:55		06:21 (05)		06:24 (07)	05:31			05:23
	17:00	17:38	18:09	38	06:59 (05)		06:39 (07)	20:11			20:30
24	07:12	06:38	05:53		06:11 (06)		06:23 (07)	05:31			05:24
	17:01	17:39	18:10	48	06:59 (05)		06:40 (07)	20:12			20:30
25	07:11	06:36	05:51		06:10 (06)		06:21 (07)	05:30			05:24
	17:02	17:40	18:11	50	07:00 (05)		06:39 (07)	20:13			20:30
26	07:11	06:35	05:50		06:08 (06)		06:20 (07)	05:29			05:24
	17:04	17:41	18:12	51	06:59 (05)		06:39 (07)	20:14			20:30
27	07:10	06:33	05:48		06:06 (06)		06:19 (07)	05:29			05:25
	17:05	17:42	18:13	52	06:58 (05)		06:39 (07)	20:15			20:30
28	07:09	06:32	05:46		06:05 (06)		06:17 (07)	05:28			05:25
	17:06	17:44	18:14	54	06:59 (05)		06:38 (07)	20:16			20:30
29	07:08		06:45		07:03 (06)		06:18 (07)	05:27			05:25
	17:07		19:15	55	07:58 (05)		06:38 (07)	20:17			20:30
30	07:07		06:43		07:01 (06)		06:18 (07)	05:27			05:26
	17:09		19:16	56	07:57 (05)		06:37 (07)	20:17			20:30
31	07:07		06:41		07:01 (06)			05:26			
	17:10		19:17	55	07:56 (05)			20:18			
Ore potenziali eliofanìa	298	298	369		398		448			451	
Totale, caso peggiore				691		547		52			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R10 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (11)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il di, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	05:26 20:30	05:50 20:11	06:20 19:28	06:50 18:38	06:24 16:52	06:58 16:28	
2	05:27 20:30	05:51 20:10	06:21 19:27	06:51 18:37	06:25 16:51	06:59 16:28	
3	05:27 20:30	05:52 20:09	06:22 19:25	06:52 18:35	06:26 16:50	07:00 16:27	
4	05:28 20:29	05:53 20:08	06:23 19:24	07:04 (06) 07:39 (05)	06:53 18:33	06:27 16:48	07:01 16:27
5	05:28 20:29	05:54 20:07	06:24 19:22	07:01 (06) 07:42 (05)	06:54 18:32	06:28 16:47	07:02 16:27
6	05:29 20:29	05:55 20:05	06:25 19:20	06:59 (06) 07:43 (05)	06:55 18:30	06:30 16:46	07:03 16:27
7	05:30 20:29	05:56 20:04	06:26 19:19	06:57 (06) 07:45 (05)	06:56 18:28	06:31 16:45	07:04 16:27
8	05:30 20:28	05:57 20:03	06:27 19:17	06:56 (06) 07:46 (05)	06:57 18:27	06:32 16:44	07:05 16:27
9	05:31 20:28	05:58 20:02	06:28 19:15	06:55 (06) 07:47 (05)	06:58 18:25	06:33 16:43	07:06 16:27
10	05:32 20:28	05:59 20:01	06:29 (07) 19:14	06:54 (06) 07:48 (05)	06:59 18:24	06:34 16:42	07:07 16:27
11	05:32 20:27	06:00 19:59	06:28 (07) 19:12	06:53 (06) 07:47 (05)	07:00 18:22	06:36 16:41	07:08 16:27
12	05:33 20:27	06:01 19:58	06:27 (07) 19:10	06:53 (06) 07:48 (05)	07:01 18:20	06:37 16:40	07:09 16:27
13	05:34 20:26	06:02 19:57	06:26 (07) 19:09	06:52 (06) 07:48 (05)	07:02 18:19	06:38 16:39	07:09 16:27
14	05:34 20:26	06:03 19:55	06:25 (07) 19:07	06:53 (06) 07:48 (05)	07:04 18:17	06:39 16:38	07:10 16:27
15	05:35 20:25	06:04 19:54	06:25 (07) 19:05	06:54 (06) 07:48 (05)	07:05 18:16	06:40 16:37	07:11 16:28
16	05:36 20:25	06:05 19:53	06:26 (07) 19:04	06:55 (06) 07:48 (05)	07:06 18:14	06:41 16:36	07:12 16:28
17	05:37 20:24	06:06 19:51	06:27 (07) 19:02	06:56 (06) 07:47 (05)	07:07 18:13	06:43 16:36	07:12 16:28
18	05:38 20:23	06:07 19:50	06:28 (07) 19:00	06:57 (06) 07:47 (05)	07:08 18:11	06:44 16:35	07:13 16:28
19	05:38 20:23	06:08 19:48	06:29 (07) 18:58	06:58 (06) 07:46 (05)	07:09 18:10	06:45 16:34	07:14 16:29
20	05:39 20:22	06:09 19:47	06:30 (07) 18:57	07:00 (06) 07:46 (05)	07:10 18:08	06:46 16:33	07:14 16:29
21	05:40 20:21	06:10 19:45	06:31 (07) 18:55	07:01 (05) 07:45 (05)	07:11 18:07	06:47 16:33	07:15 16:30
22	05:41 20:20	06:11 19:44	06:32 (07) 18:53	07:02 (05) 07:44 (05)	07:12 18:05	06:48 16:32	07:15 16:30
23	05:42 20:20	06:12 19:42	06:33 (07) 18:52	07:03 (05) 07:43 (05)	07:13 18:04	06:50 16:31	07:16 16:31
24	05:43 20:19	06:13 19:41	06:34 (07) 18:50	07:04 (05) 07:41 (05)	07:15 18:03	06:51 16:31	07:16 16:31
25	05:44 20:18	06:14 19:39	06:44 18:48	07:10 (05) 07:40 (05)	06:16 17:01	06:52 16:30	07:17 16:32
26	05:44 20:17	06:15 19:38	06:45 18:47	07:11 (05) 07:38 (05)	06:17 17:00	06:53 16:30	07:17 16:32
27	05:45 20:16	06:16 19:36	06:46 18:45	07:12 (05) 07:36 (05)	06:18 16:58	06:54 16:29	07:17 16:33
28	05:46 20:15	06:16 19:35	06:47 18:43	07:15 (05) 07:33 (05)	06:19 16:57	06:55 16:29	07:18 16:34
29	05:47 20:14	06:17 19:33	06:48 18:42	07:18 (05) 07:28 (05)	06:20 16:56	06:56 16:29	07:18 16:34
30	05:48 20:13	06:18 19:32	06:49 18:40	06:21 16:55	06:57 16:28	07:18 16:35	07:18 16:35
31	05:49 20:12	06:19 19:30		06:23 16:53		07:18 16:36	07:18 16:36
Ore potenziali eliofania	458	427	375	346	299	289	
Totale, caso peggiore		244	1076				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R11 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (12)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:19 16:37	07:06 17:11	06:30 17:45	06:49 (10) 07:07 (10)	06:40 19:18	05:54 19:50
2	07:19 16:38	07:05 17:12	06:29 17:46	06:47 (10) 07:06 (10)	06:38 19:19	05:53 19:51
3	07:19 16:39	07:04 17:13	06:27 17:47	06:48 (10) 07:06 (10)	06:36 19:20	05:52 19:52
4	07:19 16:40	07:03 17:15	06:25 17:48	06:48 (10) 07:05 (10)	06:35 19:21	05:51 19:53
5	07:19 16:41	07:02 17:16	06:24 17:49	06:49 (10) 07:04 (10)	06:33 19:22	05:49 19:54
6	07:19 16:42	07:01 17:17	06:22 17:50	06:51 (10) 07:02 (10)	06:32 19:24	05:48 19:55
7	07:19 16:43	06:59 17:18	06:21 17:51	06:54 (10) 06:57 (10)	06:30 19:25	05:47 19:56
8	07:19 16:44	06:58 17:20	06:19 17:53	06:28 19:26	05:46 19:57	05:23 20:24
9	07:19 16:45	06:57 17:21	06:18 17:54	06:27 19:27	05:45 19:58	05:23 20:24
10	07:18 16:46	06:56 17:22	06:16 17:55	06:25 19:28	05:44 19:59	05:23 20:25
11	07:18 16:47	06:55 17:23	06:14 17:56	06:24 19:29	05:42 20:00	05:23 20:25
12	07:18 16:48	06:54 17:24	06:13 17:57	06:22 19:30	05:41 20:01	05:23 20:26
13	07:18 16:49	06:52 17:25	06:11 17:58	06:20 19:31	05:40 20:02	05:23 20:26
14	07:17 16:50	06:51 17:26	06:09 17:59	06:19 19:32	05:39 20:03	05:23 20:27
15	07:17 16:51	06:50 17:27	06:08 18:00	06:17 19:33	05:38 20:04	05:23 20:27
16	07:17 16:52	06:49 17:28	06:06 18:01	06:16 19:34	05:37 20:05	05:23 20:28
17	07:16 16:53	06:47 17:29	06:05 18:02	06:14 19:35	05:36 20:06	05:23 20:28
18	07:16 16:54	06:46 17:30	06:03 18:03	06:13 19:36	05:35 20:07	05:23 20:28
19	07:15 16:55	06:45 17:31	06:01 18:04	06:11 19:37	05:35 20:08	05:23 20:29
20	07:15 16:56	06:43 17:32	06:00 18:05	06:10 19:38	05:34 20:09	05:23 20:29
21	07:14 16:57	06:42 17:33	05:58 18:06	06:08 19:39	05:33 20:10	05:23 20:29
22	07:13 16:58	06:40 17:34	05:56 18:07	06:07 19:40	05:32 20:11	05:23 20:29
23	07:13 17:00	06:39 17:35	06:58 (10) 07:03 (10)	05:55 18:09	06:05 19:41	10 14
24	07:12 17:01	06:37 17:36	06:57 (10) 07:06 (10)	05:53 18:10	06:04 19:42	17
25	07:11 17:02	06:36 17:37	06:55 (10) 07:06 (10)	05:51 18:11	06:02 19:43	20
26	07:11 17:04	06:35 17:38	06:54 (10) 07:07 (10)	05:50 18:12	06:01 19:44	22
27	07:10 17:05	06:33 17:39	06:52 (10) 07:07 (10)	05:48 18:13	06:00 19:46	23
28	07:09 17:06	06:32 17:40	06:50 (10) 07:07 (10)	05:46 18:14	05:58 19:47	25
29	07:08 17:07	06:31 17:41	06:45 19:15	05:57 19:48	05:27 20:17	26
30	07:07 17:09	06:30 17:42	06:43 19:16	05:56 19:49	05:27 20:17	27
31	07:07 17:10	06:29 17:43	06:41 19:17	05:55 19:50	05:26 20:18	28
Ore potenziali eliofanìa	298	298	369	398	448	451
Totale, caso peggiore		70	101		212	972

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R11 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (12)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:
Il sole splende tutto il di, dall'alba al tramonto
Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre		
1	05:26	05:55 (06)	05:50	06:20	06:50	06:24	06:58	
	20:30	33 06:28 (06)	20:11	19:28	18:38	16:52	16:28	
2	05:27	05:55 (06)	05:51	06:21	06:51	06:25	06:59	
	20:30	32 06:27 (06)	20:10	19:27	18:37	16:51	16:28	
3	05:27	05:55 (06)	05:52	06:22	06:52	06:26	07:00	
	20:30	33 06:28 (06)	20:09	19:25	18:35	16:50	16:27	
4	05:28	05:55 (06)	05:53	06:23	06:53	06:27	07:01	
	20:29	32 06:27 (06)	20:08	19:24	18:33	16:48	16:27	
5	05:28	05:56 (06)	05:54	06:24	06:54	06:28	07:02	
	20:29	32 06:28 (06)	20:07	19:22	18:32	16:47	16:27	
6	05:29	05:57 (06)	05:55	06:25	06:55	06:30	07:03	
	20:29	31 06:28 (06)	20:05	19:20	18:30	16:46	16:27	
7	05:30	05:56 (06)	05:56	06:26	06:56	07:28 (10)	06:31	07:04
	20:29	32 06:28 (06)	20:04	19:19	18:28	8 07:36 (10)	16:45	16:27
8	05:30	05:57 (06)	05:57	06:27	06:57	07:25 (10)	06:32	07:05
	20:28	31 06:28 (06)	20:03	19:17	18:27	13 07:38 (10)	16:44	16:27
9	05:31	05:57 (06)	05:58	06:28	06:58	07:23 (10)	06:33	07:06
	20:28	30 06:27 (06)	20:02	19:15	18:25	16 07:39 (10)	16:43	16:27
10	05:32	05:58 (06)	05:59	06:29	06:59	07:22 (10)	06:34	07:07
	20:28	29 06:27 (06)	20:01	19:14	18:24	18 07:40 (10)	16:42	16:27
11	05:32	05:59 (06)	06:00	06:30	07:00	07:21 (10)	06:36	07:08
	20:27	29 06:28 (06)	19:59	19:12	18:22	19 07:40 (10)	16:41	16:27
12	05:33	05:58 (06)	06:01	06:31	07:01	07:22 (10)	06:37	07:09
	20:27	29 06:27 (06)	19:58	19:10	18:20	19 07:41 (10)	16:40	16:27
13	05:34	05:59 (06)	06:02	06:32	07:02	07:23 (10)	06:38	07:09
	20:26	28 06:27 (06)	19:57	19:09	18:19	18 07:41 (10)	16:39	16:27
14	05:34	06:00 (06)	06:03	06:33	07:04	07:24 (10)	06:39	07:10
	20:26	27 06:27 (06)	19:55	19:07	18:17	16 07:40 (10)	16:38	16:27
15	05:35	06:01 (06)	06:04	06:34	07:05	07:25 (10)	06:40	07:11
	20:25	25 06:26 (06)	19:54	19:05	18:16	15 07:40 (10)	16:37	16:28
16	05:36	06:01 (06)	06:05	06:35	07:06	07:26 (10)	06:41	07:12
	20:25	24 06:25 (06)	19:53	19:04	18:14	13 07:39 (10)	16:36	16:28
17	05:37	06:02 (06)	06:06	06:36	07:07	07:27 (10)	06:43	07:12
	20:24	23 06:25 (06)	19:51	19:02	18:13	10 07:37 (10)	16:36	16:28
18	05:38	06:03 (06)	06:07	06:37	07:08	07:28 (10)	06:44	07:13
	20:23	21 06:24 (06)	19:50	19:00	18:11	8 07:36 (10)	16:35	16:28
19	05:38	06:05 (06)	06:08	06:38	07:09	07:30 (10)	06:45	07:14
	20:23	18 06:23 (06)	19:48	18:58	18:10	4 07:34 (10)	16:34	16:29
20	05:39	06:06 (06)	06:09	06:39	07:10		06:46	07:14
	20:22	16 06:22 (06)	19:47	18:57	18:08		16:33	16:29
21	05:40	06:07 (06)	06:10	06:40	07:11		06:47	07:15
	20:21	13 06:20 (06)	19:45	18:55	18:07		16:33	16:30
22	05:41	06:10 (06)	06:11	06:41	07:12		06:48	07:15
	20:20	8 06:18 (06)	19:44	18:53	18:05		16:32	16:30
23	05:42		06:12	06:42	07:13		06:50	07:16
	20:20		19:42	18:52	18:04		16:31	16:31
24	05:43		06:13	06:43	07:15		06:51	07:16
	20:19		19:41	18:50	18:03		16:31	16:31
25	05:44		06:14	06:44	06:16		06:52	07:17
	20:18		19:39	18:48	17:01		16:30	16:32
26	05:44		06:15	06:45	06:17		06:53	07:17
	20:17		19:38	18:47	17:00		16:30	16:32
27	05:45		06:15	06:46	06:18		06:54	07:17
	20:16		19:36	18:45	16:58		16:29	16:33
28	05:46		06:16	06:47	06:19		06:55	07:18
	20:15		19:35	18:43	16:57		16:29	16:34
29	05:47		06:17	06:48	06:20		06:56	07:18
	20:14		19:33	18:42	16:56		16:29	16:34
30	05:48		06:18	06:49	06:21		06:57	07:18
	20:13		19:32	18:40	16:54		16:28	16:35
31	05:49		06:19		06:23			07:18
	20:12		19:30		16:53			16:36
Ore potenziali eliofania	458		427	375	346		299	289
Totale, caso peggiore	576				177			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R12 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (13)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:
Il sole splende tutto il di, dall'alba al tramonto
Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:19 16:37	07:06 17:11	06:30 17:45	06:49 (10) 07:07 (10)	06:40 19:18	05:54 19:50
2	07:19 16:38	07:05 17:12	06:29 17:46	06:47 (10) 07:06 (10)	06:38 19:19	05:53 19:51
3	07:19 16:39	07:04 17:13	06:27 17:47	06:46 (10) 07:06 (10)	06:36 19:20	05:52 19:52
4	07:19 16:40	07:03 17:15	06:25 17:48	06:46 (10) 07:05 (10)	06:35 19:21	05:51 19:53
5	07:19 16:41	07:02 17:16	06:24 17:49	06:47 (10) 07:05 (10)	06:33 19:22	05:49 19:54
6	07:19 16:41	07:01 17:17	06:22 17:50	06:48 (10) 07:03 (10)	06:32 19:24	05:48 19:55
7	07:19 16:42	06:59 17:18	06:21 17:51	06:49 (10) 07:01 (10)	06:30 19:25	05:47 19:56
8	07:19 16:43	06:58 17:20	06:19 17:53	06:53 (10) 06:57 (10)	06:28 19:26	05:46 19:57
9	07:19 16:44	06:57 17:21	06:18 17:54	06:18 19:27	06:27 19:27	05:45 19:58
10	07:18 16:45	06:56 17:22	06:16 17:55	06:16 19:28	06:25 19:28	05:44 19:59
11	07:18 16:46	06:55 17:23	06:14 17:56	06:14 19:29	06:24 19:29	05:42 20:00
12	07:18 16:47	06:54 17:25	06:13 17:57	06:13 19:30	06:22 19:30	05:41 20:01
13	07:18 16:49	06:52 17:26	06:11 17:58	06:11 19:31	06:20 19:31	05:40 20:02
14	07:17 16:50	06:51 17:27	06:09 17:59	06:09 19:32	06:19 19:32	05:39 20:03
15	07:17 16:51	06:50 17:28	06:08 18:00	06:08 19:33	06:17 19:33	05:38 20:04
16	07:17 16:52	06:49 17:29	06:06 18:01	06:06 19:34	06:16 19:34	05:37 20:05
17	07:16 16:53	06:47 17:31	06:05 18:02	06:05 19:35	06:14 19:35	05:36 20:06
18	07:16 16:54	06:46 17:32	06:03 18:03	06:03 19:36	06:13 19:36	05:35 20:07
19	07:15 16:55	06:45 17:33	06:01 18:05	06:01 19:37	06:11 19:37	05:35 20:08
20	07:15 16:56	06:43 17:34	06:00 18:06	06:00 19:38	06:10 19:38	05:34 20:09
21	07:14 16:58	06:42 17:35	05:58 18:07	05:58 19:39	06:08 19:39	05:33 20:10
22	07:13 16:59	06:40 17:37	05:56 18:08	05:56 19:40	06:07 19:40	05:32 20:11
23	07:13 17:00	06:39 17:38	06:58 (10) 07:00 (10)	05:55 18:09	06:05 19:41	05:31 20:11
24	07:12 17:01	06:37 17:39	06:56 (10) 07:03 (10)	05:53 18:10	06:04 19:42	05:31 20:12
25	07:11 17:02	06:36 17:40	06:55 (10) 07:05 (10)	05:51 18:11	06:02 19:43	05:30 20:13
26	07:11 17:04	06:35 17:41	06:54 (10) 07:06 (10)	05:50 18:12	06:01 19:44	05:29 20:14
27	07:10 17:05	06:33 17:42	06:52 (10) 07:07 (10)	05:48 18:13	06:00 19:46	05:29 20:15
28	07:09 17:06	06:32 17:44	06:50 (10) 07:06 (10)	05:46 18:14	05:58 19:47	05:28 20:16
29	07:08 17:07		06:45 19:15	06:45 19:15	05:57 19:48	05:27 20:17
30	07:07 17:09		06:43 19:16	06:43 19:16	05:56 19:49	05:27 20:17
31	07:07 17:10		06:41 19:17	06:41 19:17	05:56 20:18	05:26 20:18
Ore potenziali eliofanìa	298	298	369	398	448	451
Totale, caso peggiore		62	125	154	20	779

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R12 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (13)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:
Il sole splende tutto il di, dall'alba al tramonto
Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre			
1	05:26	05:53 (06)	05:50	06:20	06:41 (11)	06:50	06:24	06:58	
	20:30	06:20 (06)	20:11	19:28	06:56 (11)	18:38	16:52	16:28	
2	05:27	05:53 (06)	05:51	06:21	06:42 (11)	06:51	06:25	06:59	
	20:30	06:19 (06)	20:10	19:27	06:56 (11)	18:37	16:51	16:28	
3	05:27	05:54 (06)	05:52	06:22	06:43 (11)	06:52	06:26	07:00	
	20:30	06:19 (06)	20:09	19:25	06:55 (11)	18:35	16:50	16:27	
4	05:28	05:54 (06)	05:53	06:23	06:44 (11)	06:53	06:27	07:01	
	20:29	06:19 (06)	20:08	19:24	06:54 (11)	18:33	16:48	16:27	
5	05:28	05:55 (06)	05:54	06:24	06:45 (11)	06:54	06:28	07:02	
	20:29	06:19 (06)	20:07	19:22	06:53 (11)	18:32	16:47	16:27	
6	05:29	05:56 (06)	05:55	06:25	06:46 (11)	06:55	07:27 (10)	06:30	07:03
	20:29	06:19 (06)	20:05	19:20	06:52 (11)	18:30	07:36 (10)	16:46	16:27
7	05:30	05:56 (06)	05:56	06:26	06:47 (11)	06:56	07:24 (10)	06:31	07:04
	20:29	06:18 (06)	20:04	19:19	06:49 (11)	18:28	07:38 (10)	16:45	16:27
8	05:30	05:57 (06)	05:57	06:27		06:57	07:23 (10)	06:32	07:05
	20:28	06:18 (06)	20:03	19:17		18:27	07:39 (10)	16:44	16:27
9	05:31	05:57 (06)	05:58	06:28		06:58	07:21 (10)	06:33	07:06
	20:28	06:17 (06)	20:02	19:15		18:25	07:40 (10)	16:43	16:27
10	05:32	05:59 (06)	05:59	06:29		06:59	07:20 (10)	06:34	07:07
	20:28	06:17 (06)	20:01	19:14		18:24	07:40 (10)	16:42	16:27
11	05:32	06:00 (06)	06:00	06:30		07:00	07:20 (10)	06:36	07:08
	20:27	06:16 (06)	19:59	19:12		18:22	07:40 (10)	16:41	16:27
12	05:33	06:01 (06)	06:01	06:31		07:01	07:22 (10)	06:37	07:09
	20:27	06:14 (06)	19:58	19:10		18:20	07:41 (10)	16:40	16:27
13	05:34	06:03 (06)	06:02	06:32		07:02	07:23 (10)	06:38	07:09
	20:26	06:13 (06)	19:57	19:09		18:19	07:40 (10)	16:39	16:27
14	05:34	06:06 (06)	06:03	06:33		07:04	07:24 (10)	06:39	07:10
	20:26	06:10 (06)	19:55	19:07		18:17	07:40 (10)	16:38	16:27
15	05:35		06:04	06:34		07:05	07:25 (10)	06:40	07:11
	20:25		19:54	19:05		18:16	07:39 (10)	16:37	16:28
16	05:36		06:05	06:35		07:06	07:26 (10)	06:41	07:12
	20:25		19:52	19:04		18:14	07:37 (10)	16:36	16:28
17	05:37		06:06	06:36		07:07	07:27 (10)	06:43	07:12
	20:24		19:51	19:02		18:13	07:36 (10)	16:36	16:28
18	05:38		06:07	06:37		07:08	07:28 (10)	06:44	07:13
	20:23		19:50	19:00		18:11	07:34 (10)	16:35	16:28
19	05:38		06:08	06:38		07:09		06:45	07:14
	20:23		19:48	18:58		18:10		16:34	16:29
20	05:39		06:09	06:39		07:10		06:46	07:14
	20:22		19:47	18:57		18:08		16:33	16:29
21	05:40		06:10	06:40		07:11		06:47	07:15
	20:21		19:45	18:55		18:07		16:33	16:30
22	05:41		06:11	06:41		07:12		06:48	07:15
	20:20		19:44	18:53		18:05		16:32	16:30
23	05:42		06:12	06:42		07:13		06:50	07:16
	20:20		19:42	18:52		18:04		16:31	16:31
24	05:43		06:13	06:43		07:15		06:51	07:16
	20:19		19:41	18:50		18:03		16:31	16:31
25	05:44		06:14	06:44		06:16		06:52	07:17
	20:18		19:39	18:48		17:01		16:30	16:32
26	05:44		06:15	06:45		06:17		06:53	07:17
	20:17		19:38	06:43 (11)	18:47	17:00		16:30	16:32
27	05:45		06:15	06:41 (11)	06:46	06:18		06:54	07:17
	20:16		19:36	06:54 (11)	18:45	16:58		16:29	16:33
28	05:46		06:16	06:39 (11)	06:47	06:19		06:55	07:18
	20:15		19:35	06:55 (11)	18:43	16:57		16:29	16:34
29	05:47		06:17	06:38 (11)	06:48	06:20		06:56	07:18
	20:14		19:33	06:56 (11)	18:42	16:56		16:29	16:34
30	05:48		06:18	06:39 (11)	06:49	06:21		06:57	07:18
	20:13		19:32	06:56 (11)	18:40	16:54		16:28	16:35
31	05:49		06:19	06:40 (11)		06:23			07:18
	20:12		19:30	06:56 (11)		16:53			16:36
Ore potenziali eliofanìa	458		427	375	67	346	190	299	289
Totale, caso peggiore	274		89	67					

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R13 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (14)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:19 16:37	07:06 17:11	06:30 17:45	06:40 19:18	05:54 19:50	05:26 20:19
2	07:19 16:38	07:05 17:12	06:29 17:46	06:47 (10) 19:19	05:53 19:51	05:25 20:20
3	07:19 16:39	07:04 17:13	06:27 17:47	06:46 (10) 19:20	05:52 19:52	05:25 20:20
4	07:19 16:40	07:03 17:15	06:25 17:48	06:44 (10) 19:21	05:51 19:53	05:25 20:21
5	07:19 16:41	07:02 17:16	06:24 17:49	06:43 (10) 19:22	05:49 19:54	05:24 20:22
6	07:19 16:41	07:01 17:17	06:22 17:50	06:41 (10) 19:24	05:48 19:55	05:24 20:22
7	07:19 16:42	06:59 17:18	06:21 17:51	06:39 (10) 19:25	05:47 19:56	05:24 20:23
8	07:19 16:43	06:58 17:20	06:19 17:53	06:38 (10) 19:26	05:46 19:57	05:23 20:24
9	07:19 16:44	06:57 17:21	06:18 17:54	06:37 (10) 19:27	05:45 19:58	05:23 20:24
10	07:18 16:45	06:56 17:22	06:16 17:55	06:37 (10) 19:28	05:44 19:59	05:23 20:25
11	07:18 16:46	06:55 17:23	06:14 17:56	06:37 (10) 19:29	05:42 20:00	05:23 20:25
12	07:18 16:47	06:54 17:25	06:13 17:57	06:37 (10) 19:30	05:41 20:01	05:23 20:26
13	07:18 16:49	06:52 17:26	06:11 17:58	06:38 (10) 19:31	05:40 20:02	05:23 20:26
14	07:17 16:50	06:51 17:27	06:09 17:59	06:39 (10) 19:32	05:39 20:03	05:23 20:27
15	07:17 16:51	06:50 17:28	06:08 18:00	06:40 (10) 19:33	06:36 (11) 06:39 (11)	05:23 20:04
16	07:17 16:52	06:49 17:29	06:06 18:01	06:44 (10) 19:34	06:34 (11) 06:41 (11)	05:23 20:05
17	07:16 16:53	06:47 17:31	06:05 18:02	06:14 19:35	06:33 (11) 06:42 (11)	05:23 20:06
18	07:16 16:54	06:46 17:32	06:03 18:03	06:13 19:36	06:31 (11) 06:43 (11)	05:23 20:07
19	07:15 16:55	06:45 17:33	06:01 18:05	06:11 19:37	06:30 (11) 06:44 (11)	05:23 20:08
20	07:15 16:56	06:43 17:34	06:00 18:06	06:10 19:38	06:28 (11) 06:43 (11)	05:23 20:09
21	07:14 16:58	06:42 17:35	05:58 18:07	06:08 19:39	06:27 (11) 06:44 (11)	05:23 20:10
22	07:13 16:59	06:40 17:37	05:56 18:08	06:07 19:40	06:26 (11) 06:44 (11)	05:23 20:11
23	07:13 17:00	06:39 17:38	05:55 18:09	06:05 19:41	06:24 (11) 06:43 (11)	05:23 20:11
24	07:12 17:01	06:37 17:39	05:53 18:10	06:04 19:42	06:23 (11) 06:43 (11)	05:24 20:12
25	07:11 17:02	06:36 17:40	05:51 18:11	06:02 19:43	06:22 (11) 06:42 (11)	05:24 20:13
26	07:11 17:04	06:35 17:41	05:50 18:12	06:01 19:44	06:23 (11) 06:41 (11)	05:24 20:14
27	07:10 17:05	06:33 17:42	05:48 18:13	06:00 19:46	06:24 (11) 06:40 (11)	05:25 20:15
28	07:09 17:06	06:32 17:44	05:46 18:14	05:58 19:47	06:24 (11) 06:38 (11)	05:25 20:16
29	07:08 17:07		06:45 19:15	05:57 19:48	06:26 (11) 06:36 (11)	05:25 20:17
30	07:07 17:08		06:43 19:16	05:56 19:49		05:26 20:17
31	07:07 17:10		06:41 19:17			05:26 20:18
Ore potenziali eliofanìa	298	298	369	398	448	451
Totale, caso peggiore			240	212		

Legenda della tabella:

Giorno del mese	Alba (hh:mm) Tramonto (hh:mm)	Minuti d'ombra	Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm)	(WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)
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SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R13 - Shadow Receptor: 2,0 x 2,0 Azimuth: 0,0° Slope: 90,0° (14)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre		
1	05:26 20:30	05:50 20:11	06:20 19:28	06:50 18:38	07:17 (10) 07:36 (10)	06:24 16:52	06:58 16:28	
2	05:27 20:30	05:51 20:10	06:21 19:27	06:51 18:37	19 21	07:16 (10) 07:37 (10)	06:25 16:51	06:59 16:28
3	05:27 20:29	05:52 20:09	06:22 19:25	06:52 18:35	21	07:15 (10) 07:37 (10)	06:26 16:50	07:00 16:27
4	05:28 20:29	05:53 20:08	06:23 19:24	06:53 18:33	23	07:14 (10) 07:37 (10)	06:27 16:48	07:01 16:27
5	05:28 20:29	05:54 20:07	06:24 19:22	06:54 18:32	22	07:14 (10) 07:36 (10)	06:28 16:47	07:02 16:27
6	05:29 20:29	05:55 20:05	06:25 19:20	06:55 18:30	21	07:15 (10) 07:36 (10)	06:30 16:46	07:03 16:27
7	05:30 20:29	05:56 20:04	06:26 19:19	06:56 18:28	19	07:16 (10) 07:35 (10)	06:31 16:45	07:04 16:27
8	05:30 20:28	05:57 20:03	06:27 19:17	06:57 18:27	17	07:17 (10) 07:34 (10)	06:32 16:44	07:05 16:27
9	05:31 20:28	05:58 20:02	06:28 19:15	06:58 18:25	14	07:18 (10) 07:32 (10)	06:33 16:43	07:06 16:27
10	05:32 20:28	05:59 20:00	06:29 19:14	06:59 18:24	11	07:19 (10) 07:30 (10)	06:34 16:42	07:07 16:27
11	05:32 20:27	06:00 19:59	06:30 19:12	07:00 18:22	8	07:20 (10) 07:28 (10)	06:36 16:41	07:08 16:27
12	05:33 20:27	06:01 19:58	06:31 19:10	07:01 18:20			06:37 16:40	07:09 16:27
13	05:34 20:26	06:02 19:57	06:32 (11) 19:09	07:02 18:19			06:38 16:39	07:09 16:27
14	05:34 20:26	06:03 19:55	5 06:34 (11) 19:07	07:04 18:17			06:39 16:38	07:10 16:27
15	05:35 20:25	06:04 19:54	11 06:32 (11) 19:05	07:05 18:16			06:40 16:37	07:11 16:28
16	05:36 20:24	06:05 19:52	14 06:31 (11) 19:04	07:06 18:14			06:41 16:36	07:12 16:28
17	05:37 20:24	06:06 19:51	16 06:29 (11) 19:02	07:07 18:13			06:43 16:36	07:12 16:28
18	05:38 20:23	06:07 19:50	19 06:29 (11) 19:00	07:08 18:11			06:44 16:35	07:13 16:28
19	05:38 20:23	06:08 19:48	20 06:29 (11) 18:58	07:09 18:10			06:45 16:34	07:13 16:29
20	05:39 20:22	06:09 19:47	20 06:30 (11) 18:57	07:10 18:08			06:46 16:33	07:14 16:29
21	05:40 20:21	06:10 19:45	19 06:29 (11) 18:55	07:11 18:07			06:47 16:33	07:15 16:30
22	05:41 20:20	06:11 19:44	18 06:32 (11) 18:53	07:12 18:05			06:48 16:32	07:15 16:30
23	05:42 20:20	06:12 19:42	17 06:33 (11) 18:52	07:13 18:04			06:50 16:31	07:16 16:31
24	05:43 20:19	06:13 19:41	15 06:34 (11) 18:50	07:15 18:03			06:51 16:31	07:16 16:31
25	05:44 20:18	06:14 19:39	13 06:35 (11) 18:48	06:16 17:01			06:52 16:30	07:17 16:32
26	05:44 20:17	06:15 19:38	11 06:35 (11) 18:47	06:17 17:00			06:53 16:30	07:17 16:32
27	05:45 20:16	06:15 19:36	9 06:44 (11) 18:47	06:18 16:58			06:54 16:29	07:17 16:33
28	05:46 20:15	06:16 19:35	6 06:42 (11) 18:45	06:19 16:57			06:55 16:29	07:18 16:34
29	05:47 20:14	06:17 19:33	3 06:40 (11) 18:43	10 07:22 (10) 07:32 (10)			06:56 16:29	07:18 16:34
30	05:48 20:13	06:18 19:32	10 06:48 18:42	14 07:20 (10) 07:34 (10)			06:57 16:29	07:18 16:34
31	05:49 20:12	06:19 19:30	18 06:49 18:40	18 07:18 (10) 07:36 (10)			06:57 16:28	07:18 16:35
Ore potenziali eliofanìa	458	427	375	346	197	299	289	
Totale, caso peggiore		216	42	197				

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R14 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (9) Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno		
1	07:19 16:37	07:06 17:11	06:30 17:45	06:40 19:18	07:04 (06) 08:14 (05)	05:54 19:50	07:17 (05) 08:00 (05)	05:26 20:19
2	07:19 16:38	07:05 17:12	06:29 17:46	06:38 19:19	07:01 (06) 08:14 (05)	05:53 19:51	07:18 (05) 07:58 (05)	05:25 20:20
3	07:19 16:39	07:04 17:13	06:27 17:47	06:36 19:20	06:59 (06) 08:15 (05)	05:52 19:52	06:11 (07) 07:56 (05)	05:25 20:20
4	07:19 16:40	07:03 17:15	06:25 17:48	06:35 19:21	06:57 (06) 08:15 (05)	05:51 19:53	06:10 (07) 07:54 (05)	05:25 20:21
5	07:19 16:41	07:02 17:16	06:24 17:49	06:33 19:22	06:56 (06) 08:16 (05)	05:49 19:54	06:09 (07) 07:52 (05)	05:24 20:22
6	07:19 16:41	07:01 17:17	06:22 17:50	06:32 19:24	06:55 (06) 08:16 (05)	05:48 19:55	06:08 (07) 07:50 (05)	05:24 20:22
7	07:19 16:42	06:59 17:18	06:21 17:51	06:30 19:25	06:53 (06) 08:16 (05)	05:47 19:56	06:06 (07) 07:46 (05)	05:24 20:23
8	07:19 16:43	06:58 17:20	06:19 17:53	06:28 19:26	06:53 (06) 08:17 (05)	05:46 19:57	06:05 (07) 07:42 (05)	05:23 20:24
9	07:19 16:44	06:57 17:21	06:18 17:54	06:27 19:27	06:52 (06) 08:16 (05)	05:45 19:58	06:04 (07) 06:27 (07)	05:23 20:24
10	07:18 16:45	06:56 17:22	06:16 17:55	06:25 19:28	06:52 (06) 08:17 (05)	05:44 19:59	06:03 (07) 06:27 (07)	05:23 20:25
11	07:18 16:46	06:55 17:23	06:14 17:56	06:24 19:29	06:51 (06) 08:16 (05)	05:42 20:00	06:02 (07) 06:28 (07)	05:23 20:25
12	07:18 16:47	06:54 17:25	06:13 17:57	06:22 19:30	06:50 (06) 08:15 (05)	05:41 20:01	06:01 (07) 06:28 (07)	05:23 20:26
13	07:18 16:49	06:52 17:26	06:11 17:58	06:20 19:31	06:51 (06) 08:16 (05)	05:40 20:02	06:01 (07) 06:28 (07)	05:23 20:26
14	07:17 16:50	06:51 17:27	06:09 17:59	06:19 19:32	06:50 (06) 08:15 (05)	05:39 20:03	06:01 (07) 06:28 (07)	05:23 20:27
15	07:17 16:51	06:50 17:28	06:08 18:00	06:17 19:33	06:51 (06) 08:15 (05)	05:38 20:04	06:01 (07) 06:28 (07)	05:23 20:27
16	07:17 16:52	06:49 17:29	06:06 18:01	06:16 19:34	06:51 (06) 08:14 (05)	05:37 20:05	06:00 (07) 06:28 (07)	05:23 20:28
17	07:16 16:53	06:47 17:31	06:05 18:02	06:14 19:35	06:52 (06) 08:14 (05)	05:36 20:06	06:02 (07) 06:28 (07)	05:23 20:28
18	07:16 16:54	06:46 17:32	06:03 18:03	06:13 19:36	06:52 (06) 08:13 (05)	05:35 20:07	06:02 (07) 06:28 (07)	05:23 20:28
19	07:15 16:55	06:45 17:33	06:01 18:05	06:11 19:37	06:53 (06) 08:12 (05)	05:35 20:08	06:02 (07) 06:28 (07)	05:23 20:29
20	07:15 16:56	06:43 17:34	06:00 18:06	06:10 19:38	06:54 (06) 08:11 (05)	05:34 20:09	06:02 (07) 06:27 (07)	05:23 20:29
21	07:14 16:58	06:42 17:35	05:58 18:07	06:08 19:39	06:56 (06) 08:11 (05)	05:33 20:10	06:02 (07) 06:27 (07)	05:23 20:29
22	07:13 16:59	06:40 17:37	05:56 18:08	06:07 19:40	06:59 (06) 08:10 (05)	05:32 20:11	06:03 (07) 06:27 (07)	05:23 20:29
23	07:13 17:00	06:39 17:38	05:55 18:09	06:05 19:41	07:03 (06) 08:09 (05)	05:31 20:11	06:04 (07) 06:26 (07)	05:23 20:29
24	07:12 17:01	06:37 17:39	05:53 18:10	06:04 19:42	07:12 (05) 08:08 (05)	05:31 20:12	06:04 (07) 06:25 (07)	05:24 20:30
25	07:11 17:02	06:36 17:40	05:51 18:11	06:02 19:43	07:12 (05) 08:07 (05)	05:30 20:13	06:05 (07) 06:25 (07)	05:24 20:30
26	07:11 17:04	06:35 17:41	05:50 18:12	06:01 19:44	07:13 (05) 08:06 (05)	05:29 20:14	06:06 (07) 06:24 (07)	05:24 20:30
27	07:10 17:05	06:33 17:42	05:48 18:13	06:00 19:46	07:14 (05) 08:05 (05)	05:29 20:15	06:07 (07) 06:24 (07)	05:25 20:30
28	07:09 17:06	06:32 17:44	05:46 18:14	05:58 19:47	07:14 (05) 08:03 (05)	05:28 20:16	06:08 (07) 06:23 (07)	05:25 20:30
29	07:08 17:07		06:45 19:15	05:57 19:48	07:15 (05) 08:02 (05)	05:27 20:17	06:09 (07) 06:21 (07)	05:25 20:30
30	07:07 17:08		06:43 19:16	05:56 19:49	07:16 (05) 08:01 (05)	05:27 20:17	06:11 (07) 06:20 (07)	05:26 20:30
31	07:07 17:10		06:41 19:17	05:55 08:13 (05)		05:26 20:18	06:13 (07) 06:19 (07)	
Ore potenziali eliofanìa	298	298	369	398	448	481	451	
Totale, caso peggiore			299	2182	831			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

SHADOW - Calendario

Calcolo: Flicker Altamura su recettori Recettore d'ombra: R14 - Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (9) Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre			
1	05:26	05:50	06:12 (07)	06:20	06:50 (06)	06:50	06:24	06:58	
	20:30	20:11	26 06:38 (07)	19:28	85 08:15 (05)	18:38	16:52	16:28	
2	05:27	05:51	06:13 (07)	06:21	06:50 (06)	06:51	06:25	06:59	
	20:30	20:10	25 06:38 (07)	19:27	85 08:15 (05)	18:37	16:51	16:28	
3	05:27	05:52	06:14 (07)	06:22	06:50 (06)	06:52	06:26	07:00	
	20:30	20:09	24 06:38 (07)	19:25	84 08:14 (05)	18:35	16:50	16:27	
4	05:28	05:53	06:15 (07)	06:23	06:50 (06)	06:53	06:27	07:01	
	20:29	20:08	22 06:37 (07)	19:24	84 08:14 (05)	18:33	16:48	16:27	
5	05:28	05:54	06:16 (07)	06:24	06:50 (06)	06:54	06:28	07:02	
	20:29	20:07	35 07:54 (05)	19:22	83 08:13 (05)	18:32	16:47	16:27	
6	05:29	05:55	06:17 (07)	06:25	06:51 (06)	06:55	06:30	07:03	
	20:29	20:05	40 07:58 (05)	19:20	81 08:12 (05)	18:30	16:46	16:27	
7	05:30	05:56	06:18 (07)	06:26	06:51 (06)	06:56	06:31	07:04	
	20:29	20:04	44 08:01 (05)	19:19	80 08:11 (05)	18:28	16:45	16:27	
8	05:30	05:57	06:19 (07)	06:27	06:52 (06)	06:57	06:32	07:05	
	20:28	20:03	45 08:03 (05)	19:17	79 08:11 (05)	18:27	16:44	16:27	
9	05:31	05:58	06:19 (07)	06:28	06:53 (06)	06:58	06:33	07:06	
	20:28	20:02	46 08:04 (05)	19:15	77 08:10 (05)	18:25	16:43	16:27	
10	05:32	05:59	06:21 (07)	06:29	06:54 (06)	06:59	06:34	07:07	
	20:28	20:01	43 08:05 (05)	19:14	74 08:08 (05)	18:24	16:42	16:27	
11	05:32	06:00	07:26 (05)	06:30	06:56 (06)	07:00	06:36	07:08	
	20:27	19:59	41 08:07 (05)	19:12	68 08:06 (05)	18:22	16:41	16:27	
12	05:33	06:01	07:25 (05)	06:31	07:00 (06)	07:01	06:37	07:09	
	20:27	19:58	43 08:08 (05)	19:10	57 08:05 (05)	18:20	16:40	16:27	
13	05:34	06:20 (07)	06:02	07:23 (05)	06:32	07:15 (05)	07:02	06:38	07:09
	20:26	8 06:28 (07)	19:57	46 08:09 (05)	19:09	48 08:03 (05)	18:19	16:39	16:27
14	05:34	06:19 (07)	06:03	07:22 (05)	06:33	07:16 (05)	07:04	06:39	07:10
	20:26	11 06:30 (07)	19:55	48 08:10 (05)	19:07	45 08:01 (05)	18:17	16:38	16:27
15	05:35	06:18 (07)	06:04	07:21 (05)	06:34	07:17 (05)	07:05	06:40	07:11
	20:25	13 06:31 (07)	19:54	50 08:11 (05)	19:05	42 07:59 (05)	18:16	16:37	16:28
16	05:36	06:16 (07)	06:05	07:20 (05)	06:35	07:19 (05)	07:06	06:41	07:12
	20:25	16 06:32 (07)	19:53	52 08:12 (05)	19:04	38 07:57 (05)	18:14	16:36	16:28
17	05:37	06:16 (07)	06:06	07:19 (05)	06:36	07:21 (05)	07:07	06:43	07:12
	20:24	17 06:33 (07)	19:51	54 08:13 (05)	19:02	33 07:54 (05)	18:13	16:36	16:28
18	05:38	06:15 (07)	06:07	07:18 (05)	06:37	07:24 (05)	07:08	06:44	07:13
	20:23	19 06:34 (07)	19:50	55 08:13 (05)	19:00	27 07:51 (05)	18:11	16:35	16:28
19	05:38	06:15 (07)	06:08	07:17 (05)	06:38	07:28 (05)	07:09	06:45	07:14
	20:23	20 06:35 (07)	19:48	57 08:14 (05)	18:58	18 07:46 (05)	18:10	16:34	16:29
20	05:39	06:14 (07)	06:09	07:07 (06)	06:39	07:10	06:46	07:14	
	20:22	22 06:36 (07)	19:47	65 08:15 (05)	18:57	18:08	16:33	16:29	
21	05:40	06:13 (07)	06:10	07:03 (06)	06:40	07:11	06:47	07:15	
	20:21	23 06:36 (07)	19:45	72 08:15 (05)	18:55	18:07	16:33	16:30	
22	05:41	06:13 (07)	06:11	07:01 (06)	06:41	07:12	06:48	07:15	
	20:20	24 06:37 (07)	19:44	75 08:16 (05)	18:53	18:05	16:32	16:30	
23	05:42	06:12 (07)	06:12	06:59 (06)	06:42	07:13	06:50	07:16	
	20:20	25 06:37 (07)	19:42	77 08:16 (05)	18:52	18:04	16:31	16:31	
24	05:43	06:12 (07)	06:13	06:57 (06)	06:43	07:15	06:51	07:16	
	20:19	26 06:38 (07)	19:41	79 08:16 (05)	18:50	18:03	16:31	16:31	
25	05:44	06:12 (07)	06:14	06:56 (06)	06:44	06:16	06:52	07:17	
	20:18	26 06:38 (07)	19:39	80 08:16 (05)	18:48	17:01	16:30	16:32	
26	05:44	06:12 (07)	06:15	06:54 (06)	06:45	06:17	06:53	07:17	
	20:17	27 06:39 (07)	19:38	82 08:16 (05)	18:47	17:00	16:30	16:32	
27	05:45	06:12 (07)	06:15	06:53 (06)	06:46	06:18	06:54	07:17	
	20:16	27 06:39 (07)	19:36	83 08:16 (05)	18:45	16:58	16:29	16:33	
28	05:46	06:11 (07)	06:16	06:52 (06)	06:47	06:19	06:55	07:18	
	20:15	27 06:38 (07)	19:35	84 08:16 (05)	18:43	16:57	16:29	16:34	
29	05:47	06:11 (07)	06:17	06:51 (06)	06:48	06:20	06:56	07:18	
	20:14	28 06:39 (07)	19:33	85 08:16 (05)	18:42	16:56	16:29	16:34	
30	05:48	06:11 (07)	06:18	06:51 (06)	06:49	06:21	06:57	07:18	
	20:13	28 06:39 (07)	19:32	85 08:16 (05)	18:40	16:54	16:28	16:35	
31	05:49	06:11 (07)	06:19	06:50 (06)		06:23		07:18	
	20:12	28 06:39 (07)	19:30	85 08:15 (05)		16:53		16:36	
Ore potenziali eliofania	458	427	375	346	299	289			
Totale, caso peggiore	415	1748	1188						

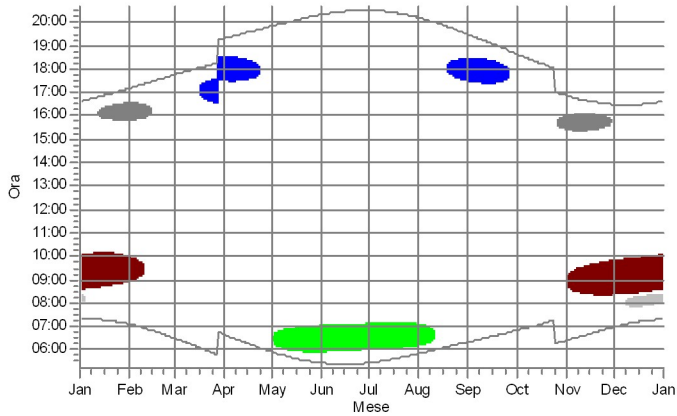
Legenda della tabella:

Giorno del mese Alba (hh:mm) Tramonto (hh:mm) Minuti d'ombra Inizio ombreggiamento (hh:mm) Fine ombreggiamento (hh:mm) (WTG che provoca l'inizio dell'ombreggiamento) (WTG che provoca l'ultimo ombreggiamento)

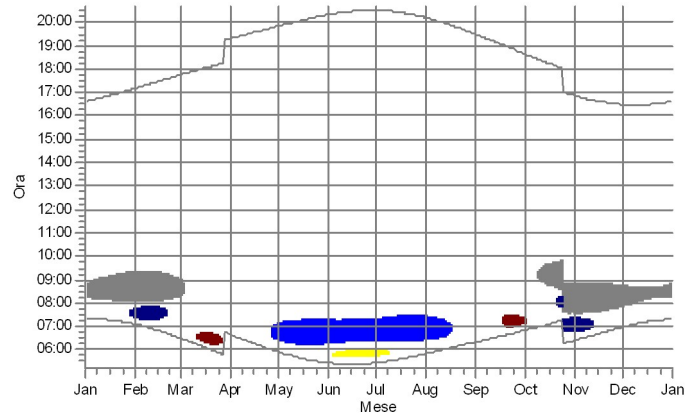
SHADOW - Calendario, grafico

Calcolo: Flicker Altamura su recettori

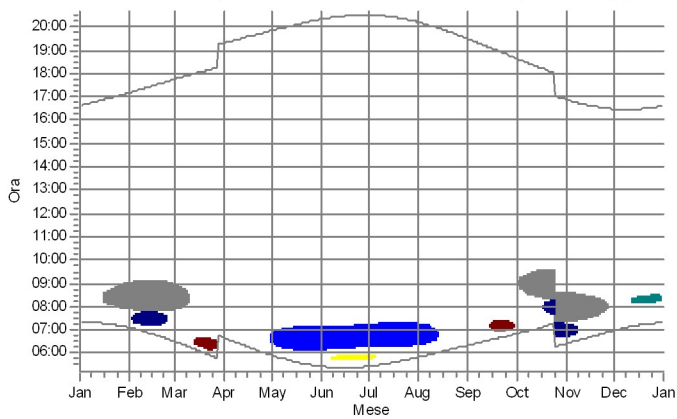
R01: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (1)



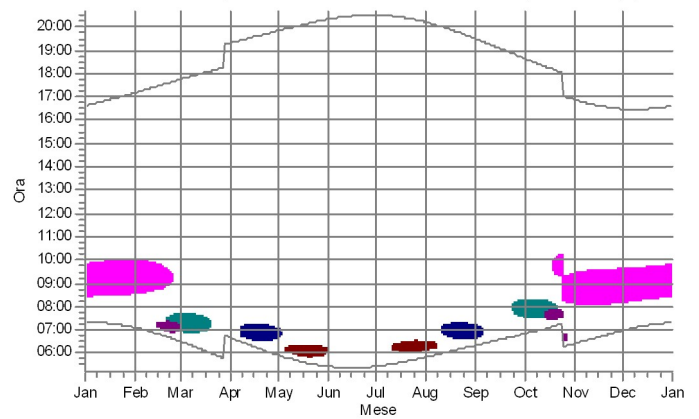
R02: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (2)



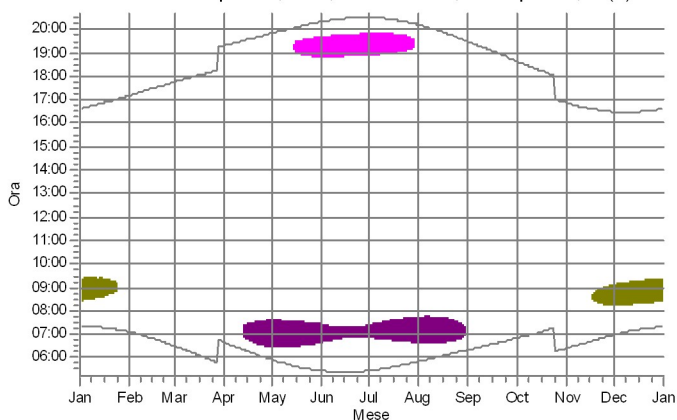
R03: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (3)



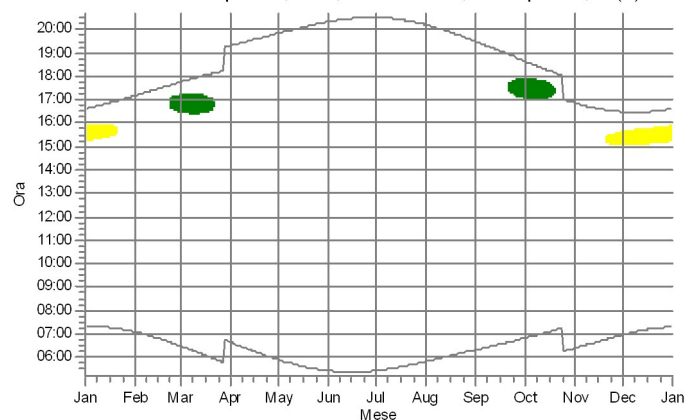
R04: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (4)















R05: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (5)



R06: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (8)



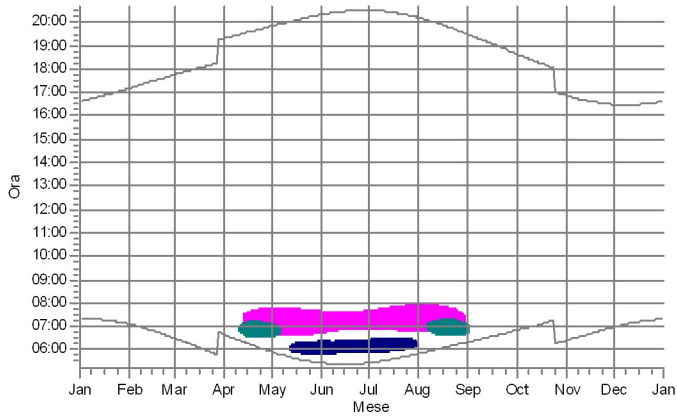
WTG

- | | | | |
|---|--|---|---|
|  | 01: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (1) |  | 07: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (7) |
|  | 02: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (2) |  | 08: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (8) |
|  | 03: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (3) |  | 09: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (9) |
|  | 04: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (4) |  | 10: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (10) |
|  | 05: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (5) |  | 11: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (11) |
|  | 06: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (6) |  | 12: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (12) |

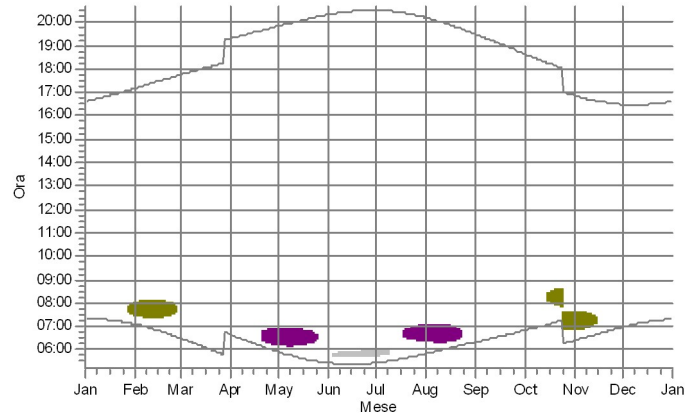
SHADOW - Calendario, grafico

Calcolo: Flicker Altamura su recettori

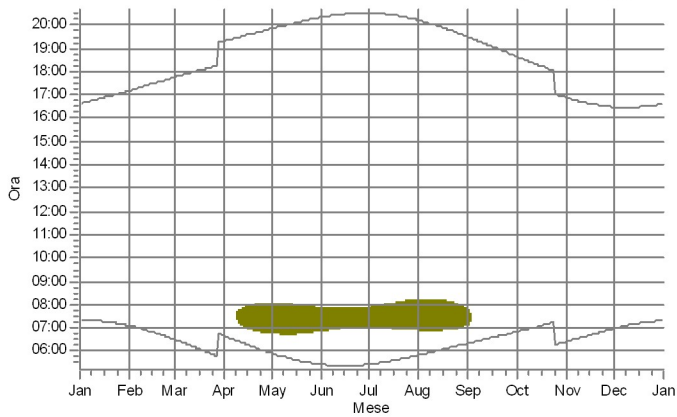
R07: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (10)



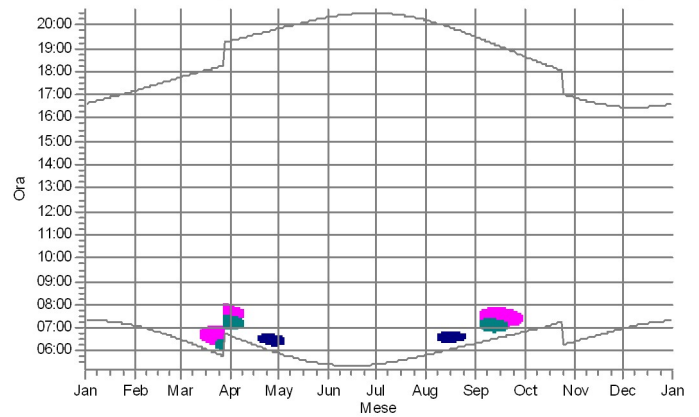
R08: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (6)



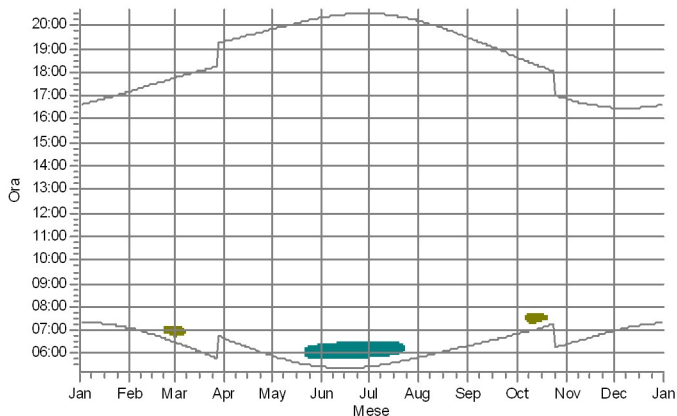
R09: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (7)



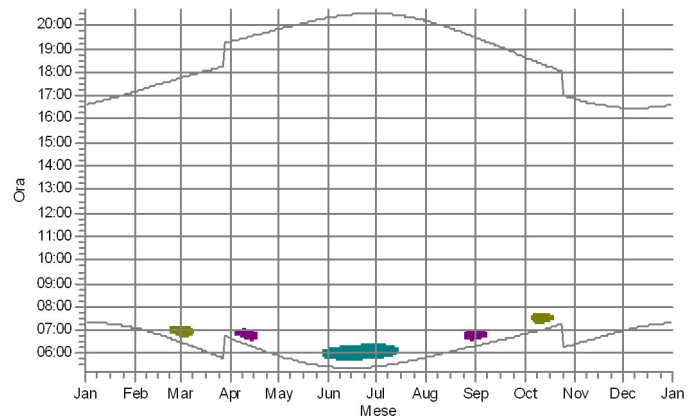
R10: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (11)



R11: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (12)



R12: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (13)



WTG

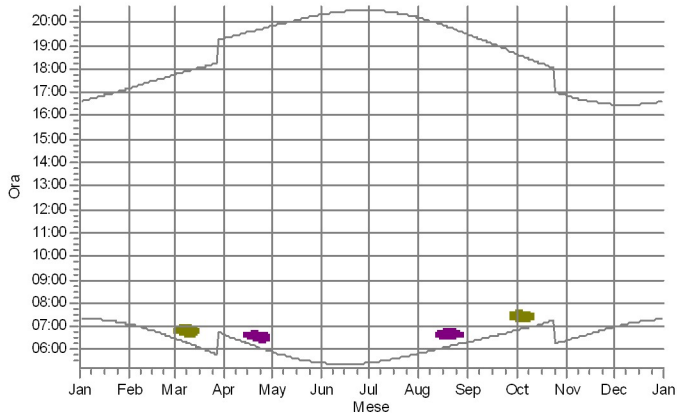
- 05: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (5)
- 06: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (6)
- 07: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (7)

- 10: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (10)
- 11: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (11)
- 12: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (12)

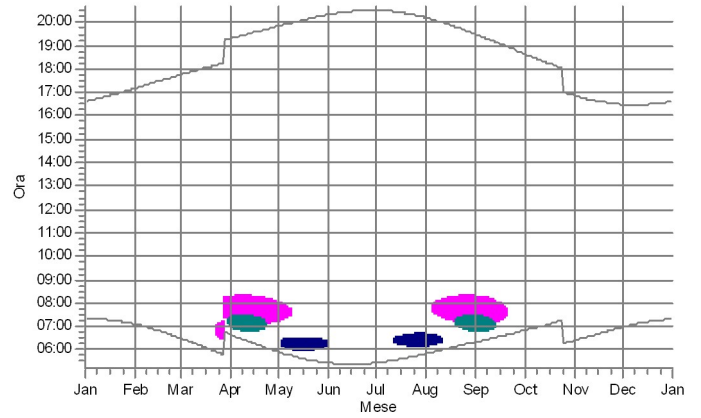
SHADOW - Calendario, grafico

Calcolo: Flicker Altamura su recettori

R13: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (14)



R14: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (9)



WTG

- 05: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (5)
- 06: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (6)
- 07: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (7)

- 10: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (10)
- 11: Siemens Gamesa SG 6.0-170 6200 170.0 IO! hub: 165,0 m (TOT: 250,0 m) (11)

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 01 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (1)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:19 16:37	07:06 17:11	06:30 16:33-17:09/36 17:45	06:40 19:18	05:54 19:50	05:26 20:19	05:26 20:30	05:50 20:11	06:20 19:28	06:50 17:07-17:48/41 18:38	06:24 16:52	06:58 16:28
2	07:19 16:38	07:05 17:12	06:28 16:31-17:09/38 17:46	06:38 19:19	05:53 19:51	05:25 20:20	05:27 20:30	05:51 20:10	06:21 19:27	06:51 17:07-17:48/41 18:36	06:25 16:51	06:59 16:28
3	07:19 16:39	07:04 17:13	06:27 16:31-17:10/39 17:47	06:36 19:20	05:52 19:52	05:25 20:20	05:27 20:30	05:52 20:09	06:22 19:25	06:52 17:06-17:48/42 18:35	06:26 16:49	07:00 16:27
4	07:19 16:39	07:03 17:15	06:25 16:30-17:10/40 17:48	06:35 19:21	05:50 19:53	05:24 20:21	05:28 20:29	05:53 20:08	06:23 19:23	06:53 17:05-17:48/43 18:33	06:27 16:48	07:01 16:27
5	07:19 16:40	07:02 17:16	06:24 16:29-17:11/42 17:49	06:33 19:22	05:49 19:54	05:24 20:22	05:28 20:29	05:54 20:07	06:24 19:22	06:54 17:05-17:48/43 18:32	06:28 16:47	07:02 16:27
6	07:19 16:41	07:01 17:17	06:22 16:29-17:11/42 17:50	06:31 19:23	05:48 19:55	05:24 20:22	05:29 20:29	05:55 20:05	06:25 19:20	06:55 17:04-17:47/43 18:30	06:30 16:46	07:03 16:27
7	07:19 16:42	06:59 17:18	06:21 16:28-17:11/43 17:51	06:30 19:25	05:47 19:56	05:23 20:23	05:29 20:29	05:56 20:04	06:26 19:19	06:56 17:04-17:47/43 18:28	06:31 16:45	07:04 16:27
8	07:19 16:43	06:58 17:20	06:19 16:28-17:11/43 17:52	06:28 19:26	05:46 19:57	05:23 20:24	05:30 20:28	05:57 20:03	06:27 19:17	06:57 17:04-17:46/42 18:27	06:32 16:44	07:05 16:27
9	07:19 16:44	06:57 17:21	06:18 16:28-17:10/42 17:54	06:27 19:27	05:44 19:58	05:23 20:24	05:31 20:28	05:58 20:02	06:28 19:15	06:58 17:04-17:45/41 18:25	06:33 16:43	07:06 16:27
10	07:18 16:45	06:56 17:22	06:16 16:28-17:11/43 17:55	06:25 19:28	05:43 19:59	05:23 20:25	05:31 20:28	05:59 20:00	06:29 19:14	06:59 17:04-17:44/40 18:23	06:34 16:42	07:07 16:27
11	07:18 16:46	06:55 17:23	06:14 16:28-17:10/42 17:56	06:23 19:29	05:42 20:00	05:23 20:25	05:32 20:27	06:00 19:59	06:30 19:12	07:00 17:04-17:43/39 18:22	06:36 16:41	07:08 16:27
12	07:18 16:47	06:54 17:24	06:13 16:28-17:09/41 17:57	06:22 19:30	05:41 20:01	05:23 20:26	05:33 20:27	06:01 19:58	06:31 19:10	07:01 17:06-17:43/37 18:20	06:37 16:40	07:09 16:27
13	07:18 16:48	06:52 17:26	06:11 16:29-17:09/40 17:58	06:20 19:31	05:40 20:02	05:22 20:26	05:34 20:26	06:02 19:57	06:32 19:09	07:02 17:06-17:42/36 18:19	06:38 16:39	07:09 16:27
14	07:17 16:49	06:51 17:27	06:09 16:29-17:08/39 17:59	06:19 19:32	05:39 20:03	05:22 20:27	05:34 20:26	06:03 19:55	06:33 19:07	07:03 17:07-17:40/33 18:17	06:39 16:38	07:10 16:27
15	07:17 16:51	06:50 17:28	06:08 16:29-17:06/37 18:00	06:17 19:33	05:38 20:04	05:22 20:27	05:35 20:25	06:04 19:54	06:34 19:05	07:05 17:08-17:39/31 18:16	06:40 16:37	07:11 16:27
16	07:17 16:52	06:49 17:29	06:06 16:30-17:06/36 18:01	06:16 19:34	05:37 20:05	05:22 20:28	05:36 20:25	06:05 19:52	06:35 19:03	07:06 17:10-17:37/27 18:14	06:41 16:36	07:12 16:28
17	07:16 16:53	06:47 17:30	06:05 16:31-17:04/33 18:02	06:14 19:35	05:36 20:06	05:22 20:28	05:37 20:24	06:06 19:51	06:36 19:02	07:07 17:11-17:34/23 18:13	06:43 16:35	07:12 16:28
18	07:16 16:54	06:46 17:32	06:03 16:32-17:02/30 18:03	06:13 19:36	05:35 20:07	05:22 20:28	05:37 20:23	06:07 19:50	06:37 19:00	07:08 17:14-17:31/17 18:11	06:44 16:35	07:13 16:28
19	07:15 16:55	06:44 17:33	06:01 16:34-17:01/27 18:04	06:11 19:37	05:34 20:08	05:23 20:29	05:38 20:23	06:07 19:48	06:38 18:58	07:09 17:18-17:26/8 18:10	06:45 16:34	07:14 16:29
20	07:15 16:56	06:43 17:34	06:00 16:36-16:58/22 18:06	06:10 19:38	05:34 20:09	05:23 20:29	05:39 20:22	06:08 19:47	06:39 18:57	07:10 18:08	06:46 16:33	07:14 16:29
21	07:14 16:57	06:42 17:35	05:58 16:38-16:54/16 18:07	06:08 19:39	05:33 20:10	05:23 20:29	05:40 20:21	06:09 19:45	06:40 18:55	07:11 18:07	06:47 16:33	07:15 16:30
22	07:13 16:59	06:40 17:36	05:56 16:44-16:49/5 18:08	06:07 19:40	05:32 20:11	05:23 20:29	05:41 20:20	06:10 19:44	06:41 18:53	07:12 17:24-17:39/15 18:05	06:48 16:32	07:15 16:30
23	07:13 17:00	06:39 17:38	16:45-16:58/13 18:09	05:55 19:41	05:31 20:11	05:23 20:29	05:42 20:20	06:11 19:42	06:42 18:52	07:13 17:21-17:41/20 18:04	06:50 16:31	07:16 16:31
24	07:12 17:01	06:37 17:39	16:41-17:01/20 18:10	05:53 18:10	06:04 19:42	05:24 20:12	05:43 20:30	06:12 19:41	06:43 18:50	07:14 17:18-17:43/25 18:02	06:51 16:31	07:16 16:31
25	07:11 17:02	06:36 17:40	16:39-17:04/25 18:11	05:51 18:11	06:02 19:43	05:24 20:13	05:43 20:30	06:13 19:39	06:44 18:48	07:15 17:16-17:45/29 18:47	06:52 16:30	07:17 16:32
26	07:11 17:03	06:35 17:41	16:36-17:05/29 18:12	05:50 18:12	06:01 19:44	05:24 20:14	05:44 20:30	06:14 19:38	06:45 18:47	07:16 17:14-17:46/32 18:47	06:53 16:30	07:17 16:32
27	07:10 17:05	06:33 17:42	16:35-17:07/32 18:13	05:48 18:13	06:00 19:45	05:28 20:15	05:45 20:30	06:15 19:36	06:46 18:45	07:17 17:12-17:47/35 18:45	06:54 16:29	07:17 16:33
28	07:09 17:06	06:32 17:43	16:33-17:07/34 18:14	05:46 18:14	05:58 19:47	05:28 20:16	05:46 20:30	06:16 19:35	06:47 18:43	07:18 17:11-17:47/36 18:43	06:55 16:29	07:18 16:34
29	07:08 17:07	06:31 17:44	16:31-17:06/35 18:15	05:45 18:15	05:57 19:48	05:27 20:17	05:47 20:14	06:17 19:33	06:48 18:41	07:19 17:09-17:48/39 18:41	06:56 16:28	07:18 16:34
30	07:07 17:08	06:30 17:45	16:29-17:05/36 18:16	05:44 18:16	05:56 19:49	05:27 20:17	05:48 20:30	06:18 19:32	06:49 18:40	07:20 17:08-17:48/40 18:40	06:57 16:28	07:18 16:35
31	07:07 17:10	06:29 17:46	16:27-17:04/37 18:17	05:43 18:17	05:55 19:50	05:26 20:18	05:49 20:12	06:19 19:30	06:50 18:40	07:21 17:07-17:47/41 18:40	06:58 16:27	07:19 16:36
Ore potenziali eliofanía	298	298	369	398	448	451	458	427	375	346	299	289
Somma minuti d'ombra	0	153	776	0	0	0	0	0	271	670	0	0

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 02 - Siemens Gamesa SG 6.0-170 6200 170.0 !0! hub: 165,0 m (TOT: 250,0 m) (2) Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

Il sole splende tutto il di, dall'alba al tramonto

Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole

La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre	
1	07:19 16:37	07:06 17:11	06:30 17:45	06:40 19:18	05:54 19:50	05:26 20:19	05:26 20:30	05:49-05:58/9	05:50 20:11	06:20 19:28	06:50 18:38	06:24 16:52	
2	07:19 16:38	07:05 17:12	06:28 17:46	06:38 19:19	05:53 19:51	05:25 20:20	05:27 20:30	05:49-05:57/8	05:51 20:10	06:21 19:27	06:51 18:36	06:25 16:51	
3	07:19 16:39	07:04 17:13	06:27 17:47	06:36 19:20	05:52 19:52	05:25 20:20	05:27 20:30	05:50-05:58/8	05:52 20:09	06:22 19:25	06:52 18:35	06:26 16:49	
4	07:19 16:39	07:03 17:15	06:25 17:48	06:35 19:21	05:50 19:53	05:24 20:21	05:46-05:47/1	05:28 20:29	05:50-05:57/7	05:53 20:08	06:23 19:23	06:53 18:33	06:27 16:48
5	07:19 16:40	07:02 17:16	06:24 17:49	06:33 19:22	05:49 19:54	05:24 20:22	05:46-05:48/2	05:28 20:29	05:51-05:57/6	05:54 20:07	06:24 19:22	06:54 18:32	06:28 16:47
6	07:19 16:41	07:01 17:17	06:22 17:50	06:31 19:23	05:48 19:55	05:24 20:22	05:45-05:49/4	05:29 20:29	05:51-05:56/5	05:55 20:05	06:25 19:20	06:55 18:30	06:30 16:46
7	07:19 16:42	06:59 17:18	06:21 17:51	06:30 19:25	05:47 19:56	05:23 20:23	05:45-05:50/5	05:30 20:29	05:52-05:55/3	05:56 20:04	06:26 19:19	06:56 18:28	06:31 16:45
8	07:19 16:43	06:58 17:20	06:19 17:52	06:28 19:26	05:46 19:57	05:23 20:24	05:45-05:51/6	05:30 20:28	05:53-05:54/1	05:57 20:03	06:27 19:17	06:57 18:27	06:32 16:44
9	07:19 16:44	06:57 17:21	06:18 17:54	06:27 19:27	05:45 19:58	05:23 20:24	05:45-05:52/7	05:31 20:28	05:58 20:02	06:28 19:15	06:58 18:25	06:33 16:43	
10	07:18 16:45	06:56 17:22	06:16 17:55	06:25 19:28	05:43 19:59	05:23 20:25	05:45-05:53/8	05:31 20:28	05:59 20:00	06:29 19:14	06:59 18:23	06:34 16:42	
11	07:18 16:46	06:55 17:23	06:14 17:56	06:23 19:29	05:42 20:00	05:23 20:25	05:45-05:54/9	05:32 20:27	06:00 19:59	06:30 19:12	07:00 18:22	06:36 16:41	
12	07:18 16:47	06:54 17:24	06:13 17:57	06:22 19:30	05:41 20:01	05:23 20:26	05:45-05:54/9	05:33 20:27	06:01 19:58	06:31 19:10	07:01 18:20	06:37 16:40	
13	07:18 16:48	06:52 17:26	06:11 17:58	06:20 19:31	05:40 20:02	05:22 20:26	05:45-05:55/10	05:34 20:26	06:02 19:57	06:32 19:09	07:02 18:19	06:38 16:39	
14	07:17 16:50	06:51 17:27	06:09 17:59	06:19 19:32	05:39 20:03	05:22 20:27	05:45-05:55/10	05:34 20:26	06:03 19:55	06:33 19:07	07:03 18:17	06:39 16:38	
15	07:17 16:51	06:50 17:28	06:08 18:00	06:17 19:33	05:38 20:04	05:22 20:27	05:45-05:56/11	05:35 20:25	06:04 19:54	06:34 19:05	07:05 18:16	06:40 16:37	
16	07:17 16:52	06:49 17:29	06:06 18:01	06:16 19:34	05:37 20:05	05:22 20:28	05:45-05:56/11	05:36 20:25	06:05 19:52	06:35 19:03	07:06 18:14	06:41 16:36	
17	07:16 16:53	06:47 17:31	06:05 18:02	06:14 19:35	05:36 20:06	05:22 20:28	05:45-05:56/11	05:37 20:24	06:06 19:51	06:36 19:02	07:07 18:13	06:43 16:36	
18	07:16 16:54	06:46 17:32	06:03 18:03	06:13 19:36	05:35 20:07	05:23 20:28	05:45-05:56/11	05:37 20:23	06:07 19:50	06:37 19:00	07:08 18:11	06:44 16:35	
19	07:15 16:55	06:44 17:33	06:01 18:04	06:11 19:37	05:34 20:08	05:23 20:29	05:45-05:57/12	05:38 20:23	06:08 19:48	06:38 18:58	07:09 18:10	06:45 16:34	
20	07:15 16:56	06:43 17:34	06:00 18:06	06:10 19:38	05:34 20:09	05:23 20:29	05:45-05:57/12	05:39 20:22	06:08 19:47	06:39 18:57	07:10 18:08	06:46 16:33	
21	07:14 16:57	06:42 17:35	05:58 18:07	06:08 19:39	05:33 20:10	05:23 20:29	05:45-05:57/12	05:40 20:21	06:09 19:45	06:40 18:55	07:11 18:07	06:47 16:33	
22	07:13 16:59	06:40 17:36	05:56 18:08	06:07 19:40	05:32 20:11	05:23 20:29	05:46-05:58/12	05:41 20:20	06:10 19:44	06:41 18:53	07:12 18:05	06:48 16:32	
23	07:13 17:00	06:39 17:38	05:55 18:09	06:05 19:41	05:31 20:11	05:23 20:29	05:46-05:58/12	05:42 20:20	06:11 19:42	06:42 18:52	07:13 18:04	06:50 16:31	
24	07:12 17:01	06:37 17:39	05:53 18:10	06:04 19:42	05:30 20:12	05:24 20:30	05:46-05:58/12	05:43 20:19	06:12 19:41	06:43 18:50	07:15 18:02	06:51 16:31	
25	07:11 17:02	06:36 17:40	05:51 18:11	06:02 19:43	05:30 20:13	05:24 20:30	05:46-05:57/11	05:43 20:18	06:13 19:39	06:44 18:48	07:16 17:01	06:52 16:30	
26	07:11 17:03	06:35 17:41	05:50 18:12	06:01 19:44	05:29 20:14	05:24 20:30	05:47-05:58/11	05:44 20:17	06:14 19:38	06:45 18:47	07:17 17:00	06:53 16:30	
27	07:10 17:05	06:33 17:42	05:48 18:13	06:00 19:45	05:28 20:15	05:25 20:30	05:47-05:58/11	05:45 20:16	06:15 19:36	06:46 18:45	07:18 16:58	06:54 16:29	
28	07:09 17:06	06:32 17:43	05:46 18:14	05:58 19:47	05:28 20:16	05:25 20:30	05:47-05:57/10	05:46 20:15	06:16 19:35	06:47 18:43	07:19 16:57	06:55 16:29	
29	07:08 17:07	06:31 17:44	05:45 18:15	05:57 19:48	05:27 20:17	05:25 20:30	05:48-05:58/10	05:47 20:14	06:17 19:33	06:48 18:41	07:20 16:56	06:56 16:28	
30	07:07 17:08	06:30 17:45	05:44 18:16	05:56 19:49	05:27 20:17	05:26 20:30	05:48-05:58/10	05:48 20:13	06:18 19:32	06:49 18:40	07:21 16:54	06:57 16:28	
31	07:06 17:10	06:29 17:46	05:43 18:17	05:55 19:50	05:26 20:18	05:26 20:30		05:49 20:12	06:19 19:30	06:50 16:53	07:22 16:53	06:58 16:28	
Ore potenziali eliofanìa	298	298	369	398	448	451	458	427	375	346	299	289	
Somma minuti d'ombra	522	0	0	0	0	250	47	0	0	0	182	994	

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
 Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 03 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (3)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno		
1	07:19 16:37	07:06 17:11	06:30 17:45	06:40 19:18	17:33-18:29/56 19:18	05:54 19:50	06:30-07:04/34 20:19	05:26 06:13-07:12/59
2	07:19 16:38	07:05 17:12	06:29 17:46	06:38 19:19	17:32-18:28/56 19:19	05:53 19:51	06:27-07:05/38 20:20	05:25 06:14-07:13/59
3	07:19 16:39	07:04 17:13	06:27 17:47	06:36 19:20	17:33-18:29/56 19:20	05:52 19:52	06:26-07:06/40 20:20	05:25 06:13-07:12/59
4	07:19 16:40	07:03 17:15	06:25 17:48	06:35 19:21	17:32-18:28/56 19:21	05:50 19:53	06:24-07:07/43 20:21	05:25 06:14-07:12/58
5	07:19 16:40	07:02 17:16	06:24 17:49	06:33 19:22	17:31-18:28/57 19:22	05:49 19:54	06:23-07:08/45 20:22	05:24 06:14-07:13/59
6	07:19 16:41	07:01 17:17	06:22 17:50	06:32 19:23	17:32-18:28/56 19:23	05:48 19:55	06:21-07:09/48 20:22	05:24 06:14-07:12/58
7	07:19 16:42	06:59 17:18	06:21 17:51	06:30 19:25	17:31-18:27/56 19:25	05:47 19:56	06:19-07:09/50 20:23	05:24 06:14-07:12/58
8	07:19 16:43	06:58 17:20	06:19 17:53	06:28 19:26	17:32-18:27/55 19:26	05:46 19:57	06:18-07:10/52 20:24	05:23 06:15-07:12/57
9	07:19 16:44	06:57 17:21	06:18 17:54	06:27 19:27	17:32-18:26/54 19:27	05:45 19:58	06:17-07:10/53 20:24	05:23 06:15-07:12/57
10	07:18 16:45	06:56 17:22	06:16 17:55	06:25 19:28	17:32-18:25/53 19:28	05:43 19:59	06:17-07:11/54 20:25	05:23 06:16-07:12/56
11	07:18 16:46	06:55 17:23	06:14 17:56	06:23 19:29	17:33-18:25/52 19:29	05:42 20:00	06:16-07:11/55 20:25	05:23 06:16-07:13/57
12	07:18 16:47	06:54 17:24	06:13 17:57	06:22 19:30	17:33-18:23/50 19:30	05:41 20:01	06:15-07:11/56 20:26	05:23 06:17-07:13/56
13	07:18 16:48	06:52 17:26	06:11 17:58	06:20 19:31	17:34-18:23/49 19:31	05:40 20:02	06:14-07:12/58 20:26	05:23 06:17-07:13/56
14	07:17 16:50	06:51 17:27	06:09 17:59	06:19 19:32	17:34-18:21/47 19:32	05:39 20:03	06:14-07:12/58 20:27	05:22 06:17-07:13/56
15	07:17 16:51	06:50 17:28	06:08 18:00	06:17 19:33	17:35-18:21/46 19:33	05:38 20:04	06:13-07:12/59 20:27	05:22 06:17-07:13/56
16	07:17 16:52	06:49 17:29	06:06 18:01	06:16 19:34	17:36-18:19/43 19:34	05:37 20:05	06:13-07:12/59 20:28	05:22 06:18-07:13/55
17	07:16 16:53	06:47 17:31	06:05 18:02	06:14 19:35	17:37-18:18/41 19:35	05:36 20:06	06:13-07:13/60 20:28	05:22 06:18-07:13/55
18	07:16 16:54	06:46 17:32	06:03 18:03	06:13 19:36	17:38-18:16/38 19:36	05:35 20:07	06:13-07:13/60 20:28	05:23 06:18-07:13/55
19	07:15 16:55	06:45 17:33	06:01 18:05	06:11 19:37	17:40-18:15/35 19:37	05:35 20:08	06:13-07:13/60 20:29	05:23 06:18-07:13/55
20	07:15 16:56	06:43 17:34	06:00 18:06	06:10 19:38	17:41-18:12/31 19:38	05:34 20:09	06:12-07:13/61 20:29	05:23 06:18-07:13/55
21	07:14 16:58	06:42 17:35	05:58 18:07	06:08 19:39	17:43-18:10/27 19:39	05:33 20:10	06:12-07:12/60 20:29	05:23 06:18-07:13/55
22	07:13 16:59	06:40 17:36	05:56 18:08	06:07 19:40	17:45-18:07/22 19:40	05:32 20:11	06:12-07:13/61 20:29	05:23 06:19-07:14/55
23	07:13 17:00	06:39 17:38	05:55 18:09	06:05 19:41	17:49-18:04/15 19:41	05:31 20:11	06:12-07:13/61 20:29	05:23 06:19-07:14/55
24	07:12 17:01	06:37 17:39	05:53 18:10	06:04 19:42	16:40-17:25/45 19:42	05:31 20:12	06:12-07:12/60 20:30	05:24 06:19-07:14/55
25	07:11 17:02	06:36 17:40	05:51 18:11	06:02 19:43	16:40-17:27/47 19:43	05:30 20:13	06:12-07:13/61 20:30	05:24 06:19-07:14/55
26	07:11 17:04	06:35 17:41	05:50 18:12	06:01 19:44	16:38-17:27/49 19:44	05:29 20:14	06:12-07:13/61 20:30	05:24 06:20-07:15/55
27	07:10 17:05	06:33 17:42	05:48 18:13	06:00 19:46	06:41-06:54/13 19:46	05:29 20:15	06:13-07:13/60 20:30	05:25 06:20-07:15/55
28	07:09 17:06	06:32 17:43	05:46 18:14	05:58 19:47	06:36-06:57/21 19:47	05:28 20:16	06:12-07:13/61 20:30	05:25 06:19-07:15/56
29	07:08 17:07		06:45 19:15	05:57 19:48	06:33-07:00/27 19:48	05:27 20:17	06:12-07:12/60 20:30	05:25 06:20-07:16/56
30	07:07 17:08		06:43 19:16	05:56 19:49	17:34-18:28/54 19:49	05:27 20:17	06:13-07:13/60 20:30	05:26 06:20-07:16/56
31	07:07 17:10		06:41 19:17		17:34-18:29/55	05:26 20:18	06:13-07:13/60	
Ore potenziali eliofanía	298	298	369	398	448	451		1689
Somma minuti d'ombra	0	0	598	1143	1708			

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 03 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (3)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:26 06:20-07:17/57 20:30	05:50 06:26-07:22/56 20:11	06:20 17:32-18:24/52 19:28	06:50 18:38	06:24 16:52	06:58 16:28
2	05:27 06:20-07:17/57 20:30	05:51 06:27-07:21/54 20:10	06:21 17:31-18:24/53 19:27	06:51 18:37	06:25 16:51	06:59 16:28
3	05:27 06:21-07:17/56 20:30	05:52 06:27-07:21/54 20:09	06:22 17:30-18:24/54 19:25	06:52 18:35	06:26 16:50	07:00 16:27
4	05:28 06:20-07:17/57 20:29	05:53 06:28-07:21/53 20:08	06:23 17:29-18:24/55 19:23	06:53 18:33	06:27 16:48	07:01 16:27
5	05:28 06:21-07:18/57 20:29	05:54 06:29-07:20/51 20:07	06:24 17:29-18:24/55 19:22	06:54 18:32	06:28 16:47	07:02 16:27
6	05:29 06:20-07:18/58 20:29	05:55 06:30-07:19/49 20:05	06:25 17:28-18:24/56 19:20	06:55 18:30	06:30 16:46	07:03 16:27
7	05:30 06:21-07:19/58 20:29	05:56 06:32-07:18/46 20:04	06:26 17:27-18:24/57 19:19	06:56 18:28	06:31 16:45	07:04 16:27
8	05:30 06:21-07:19/58 20:28	05:57 06:32-07:17/45 20:03	06:27 17:27-18:23/56 19:17	06:57 18:27	06:32 16:44	07:05 16:27
9	05:31 06:20-07:19/59 20:28	05:58 06:34-07:15/41 20:02	06:28 17:27-18:23/56 19:15	06:58 18:25	06:33 16:43	07:06 16:27
10	05:31 06:21-07:20/59 20:28	05:59 06:35-07:14/39 20:00	06:29 17:25-18:22/57 19:14	06:59 18:23	06:34 16:42	07:07 16:27
11	05:32 06:21-07:20/59 20:27	06:00 06:36-07:13/37 19:59	06:30 17:25-18:21/56 19:12	07:00 18:22	06:36 16:41	07:08 16:27
12	05:33 06:21-07:20/59 20:27	06:01 06:38-07:11/33 19:58	06:31 17:25-18:20/55 19:10	07:01 18:20	06:37 16:40	07:09 16:27
13	05:34 06:21-07:21/60 20:26	06:02 06:39-07:09/30 19:57	06:32 17:25-18:20/55 19:09	07:02 18:19	06:38 16:39	07:09 16:27
14	05:34 06:21-07:21/60 20:26	06:03 06:42-07:07/25 19:55	06:33 17:25-18:19/54 19:07	07:04 18:17	06:39 16:38	07:10 16:27
15	05:35 06:22-07:22/60 20:25	06:04 06:44-07:04/20 19:54	06:34 17:25-18:18/53 19:05	07:05 18:16	06:40 16:37	07:11 16:27
16	05:36 06:21-07:21/60 20:25	06:05 06:49-06:59/10 19:52	06:35 17:26-18:17/51 19:03	07:06 18:14	06:41 16:36	07:12 16:28
17	05:37 06:21-07:22/61 20:24	06:06 19:51	06:36 17:26-18:16/50 19:02	07:07 18:13	06:43 16:36	07:12 16:28
18	05:37 06:22-07:22/60 20:23	06:07 19:50	06:37 17:27-18:14/47 19:00	07:08 18:11	06:44 16:35	07:13 16:28
19	05:38 06:22-07:23/61 20:23	06:08 19:48	06:38 17:27-18:13/46 18:58	07:09 18:10	06:45 16:34	07:14 16:29
20	05:39 06:21-07:22/61 20:22	06:09 17:54-18:10/16 19:47	06:39 17:28-18:11/43 18:57	07:10 18:08	06:46 16:33	07:14 16:29
21	05:40 06:22-07:22/60 20:21	06:10 17:50-18:13/23 19:45	06:40 17:29-18:09/40 18:55	07:11 18:07	06:47 16:33	07:15 16:30
22	05:41 06:22-07:23/61 20:20	06:11 17:48-18:16/28 19:44	06:41 17:31-18:07/36 18:53	07:12 18:05	06:48 16:32	07:15 16:30
23	05:42 06:22-07:23/61 20:20	06:11 17:45-18:17/32 19:42	06:42 17:32-18:05/33 18:52	07:13 18:04	06:50 16:31	07:16 16:31
24	05:43 06:23-07:23/60 20:19	06:12 17:43-18:19/36 19:41	06:43 17:35-18:02/27 18:50	07:15 18:02	06:51 16:31	07:16 16:31
25	05:43 06:23-07:23/60 20:18	06:13 17:41-18:19/38 19:39	06:44 17:38-17:59/21 18:48	06:16 17:01	06:52 16:30	07:17 16:32
26	05:44 06:24-07:23/59 20:17	06:14 17:39-18:20/41 19:38	06:45 17:43-17:53/10 18:47	06:17 17:00	06:53 16:30	07:17 16:32
27	05:45 06:23-07:23/60 20:16	06:15 17:38-18:21/43 19:36	06:46 18:45	06:18 16:58	06:54 16:29	07:17 16:33
28	05:46 06:24-07:23/59 20:15	06:16 17:36-18:22/46 19:35	06:47 18:43	06:19 16:57	06:55 16:29	07:18 16:34
29	05:47 06:24-07:22/58 20:14	06:17 17:35-18:22/47 19:33	06:48 18:42	06:20 16:56	06:56 16:29	07:18 16:34
30	05:48 06:25-07:22/57 20:13	06:18 17:34-18:23/49 19:32	06:49 18:40	06:21 16:54	06:57 16:28	07:18 16:35
31	05:49 06:25-07:22/57 20:12	06:19 17:33-18:23/50 19:30		06:23 16:53		07:18 16:36
Ore potenziali eliofanìa	458	427	375	346	299	289
Somma minuti d'ombra	1829	1092	1228	0	0	0

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 04 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (4)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:19 08:17-08:47/30 16:37	07:06 07:58-09:18/80 17:11 15:54-16:30/36	06:30 07:57-08:55/58 17:45	06:40 19:18	05:54 19:50	05:26 20:19
2	07:19 08:17-08:48/31 16:38	07:05 07:57-09:18/81 17:12 15:53-16:29/36	06:29 07:57-08:51/54 17:46	06:38 19:19	05:53 19:51	05:25 20:20
3	07:19 08:16-08:49/33 16:39	07:04 07:57-09:19/82 17:13 15:53-16:29/36	06:27 07:59-08:50/51 17:47	06:36 19:20	05:52 19:52	05:25 20:20
4	07:19 08:16-08:51/35 16:40	07:03 07:55-09:18/83 17:15 15:54-16:29/35	06:25 08:00-08:48/48 17:48	06:35 19:21	05:51 19:53	05:25 20:21
5	07:19 08:16-08:52/36 16:40	07:02 07:55-09:18/83 17:16 15:54-16:29/35	06:24 08:01-08:46/45 17:49	06:33 19:22	05:49 19:54	05:24 20:22
6	07:19 08:15-08:53/38 16:41	07:01 07:54-09:18/84 17:17 15:55-16:29/34	06:22 08:02-08:44/42 17:50	06:32 19:24	05:48 19:55	05:24 20:22
7	07:19 08:15-08:55/40 16:42	06:59 07:54-09:18/84 17:18 15:56-16:28/32	06:21 08:04-08:41/37 17:51	06:30 19:25	05:47 19:56	05:24 20:23
8	07:19 08:15-08:56/41 16:43	06:58 07:54-09:19/85 17:20 15:57-16:28/31	06:19 08:07-08:38/31 17:53	06:28 19:26	05:46 19:57	05:23 20:24
9	07:19 08:14-08:57/43 16:44	06:57 07:54-09:19/85 17:21 15:58-16:27/29	06:18 08:09-08:34/25 17:54	06:27 19:27	05:45 19:58	05:23 20:24
10	07:18 08:14-08:58/44 16:45	06:56 07:54-09:19/85 17:22 15:59-16:26/27	06:16 08:14-08:30/16 17:55	06:25 19:28	05:43 19:59	05:23 20:25
11	07:18 08:13-09:00/47 16:46	06:55 07:53-09:18/85 17:23 16:00-16:25/25	06:14 17:56	06:24 19:29	05:42 20:00	05:23 20:25
12	07:18 08:12-09:00/48 16:47	06:54 07:53-09:18/85 17:24 16:02-16:23/21	06:13 17:57	06:22 19:30	05:41 20:01	05:23 20:26
13	07:18 08:12-09:02/50 16:48 16:04-16:08/4	06:52 07:53-09:18/85 17:26 16:05-16:21/16	06:11 17:58	06:20 19:31	05:40 20:02	05:23 20:26
14	07:17 08:12-09:03/51 16:50 16:01-16:12/11	06:51 07:52-09:16/84 17:27 16:08-16:17/9	06:09 17:59	06:19 19:32	05:39 20:03	05:22 20:27
15	07:17 08:11-09:04/53 16:51 15:59-16:14/15	06:50 07:52-09:16/84 17:28	06:08 18:00	06:17 19:33	05:38 20:04	05:22 20:27
16	07:17 08:11-09:05/54 16:52 15:58-16:16/18	06:49 07:53-09:16/83 17:29	06:06 18:01	06:16 19:34	05:37 20:05	05:22 20:28
17	07:16 08:11-09:06/55 16:53 15:57-16:18/21	06:47 07:52-09:14/82 17:31	06:05 18:02	06:14 19:35	05:36 20:06	05:23 20:28
18	07:16 08:11-09:08/57 16:54 15:57-16:20/23	06:46 07:52-09:14/82 17:32	06:03 18:03	06:13 19:36	05:35 20:07	05:23 20:28
19	07:15 08:10-09:08/58 16:55 15:56-16:20/24	06:45 07:53-09:13/80 17:33	06:01 18:05	06:11 19:37	05:35 20:08	05:23 20:29
20	07:15 08:08-09:09/61 16:56 15:55-16:21/26	06:43 07:52-09:12/80 17:34	06:00 18:06	06:10 19:38	05:34 20:09	05:23 20:29
21	07:14 08:08-09:10/62 16:58 15:55-16:23/28	06:42 07:53-09:11/78 17:35	05:58 18:07	06:08 19:39	05:33 20:10	05:23 20:29
22	07:13 08:06-09:11/65 16:59 15:54-16:24/30	06:40 07:53-09:09/76 17:37	05:56 18:08	06:07 19:40	05:32 20:11	05:23 20:29
23	07:13 08:04-09:11/67 17:00 15:53-16:24/31	06:39 07:53-09:08/75 17:38	05:55 18:09	06:05 19:41	05:31 20:11	05:23 20:29
24	07:12 08:04-09:13/69 17:01 15:54-16:26/32	06:37 07:54-09:07/73 17:39	05:53 18:10	06:04 19:42	05:31 20:12	05:24 20:30
25	07:11 08:03-09:14/71 17:02 15:53-16:27/34	06:36 07:54-09:04/70 17:40	05:51 18:11	06:02 19:43	05:30 20:13	05:24 20:30
26	07:11 08:02-09:14/72 17:04 15:53-16:27/34	06:35 07:55-09:03/68 17:41	05:50 18:12	06:01 19:44	05:29 20:14	05:24 20:30
27	07:10 08:01-09:15/74 17:05 15:53-16:28/35	06:33 07:55-09:00/65 17:42	05:48 18:13	06:00 19:46	05:29 20:15	05:25 20:30
28	07:09 08:00-09:15/75 17:06 15:53-16:28/35	06:32 07:55-08:57/62 17:43	05:46 18:14	05:58 19:47	05:28 20:16	05:25 20:30
29	07:08 07:59-09:16/77 17:07 15:52-16:28/36		06:45 19:15	05:57 19:48	05:27 20:17	05:25 20:30
30	07:07 07:59-09:17/78 17:08 15:52-16:29/37		06:43 19:16	05:56 19:49	05:27 20:17	05:26 20:30
31	07:07 07:58-09:17/79 17:10 15:53-16:29/36		06:41 19:17		05:26 20:18	
Ore potenziali eliofanìa	298	298	369	398	448	451
Somma minuti d'ombra	2204	2631	407	0	0	0

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 04 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (4)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:26 20:30	05:50 20:11	06:20 19:28	06:50 18:38	06:24 07:23-08:48/85 16:52 15:28-15:56/28	06:58 07:55-08:42/47 16:28
2	05:27 20:30	05:51 20:10	06:21 19:27	06:51 18:37	06:25 07:23-08:48/85 16:51 15:27-15:56/29	06:59 07:57-08:41/44 16:28
3	05:27 20:30	05:52 20:09	06:22 19:25	06:52 08:55-09:04/9 18:35	06:26 07:24-08:48/84 16:50 15:27-15:58/31	07:00 07:58-08:41/43 16:27
4	05:28 20:29	05:53 20:08	06:23 19:23	06:53 08:48-09:10/22 18:33	06:27 07:24-08:48/84 16:48 15:26-15:58/32	07:01 07:59-08:40/41 16:27
5	05:28 20:29	05:54 20:07	06:24 19:22	06:54 08:45-09:13/28 18:32	06:28 07:24-08:48/84 16:47 15:25-15:59/34	07:02 08:00-08:40/40 16:27
6	05:29 20:29	05:55 20:05	06:25 19:20	06:55 08:42-09:16/34 18:30	06:30 07:26-08:49/83 16:46 15:24-15:59/35	07:03 08:01-08:39/38 16:27
7	05:30 20:29	05:56 20:04	06:26 19:19	06:56 08:39-09:18/39 18:28	06:31 07:26-08:49/83 16:45 15:25-16:00/35	07:04 08:03-08:39/36 16:27
8	05:30 20:28	05:57 20:03	06:27 19:17	06:57 08:37-09:20/43 18:27	06:32 07:27-08:48/81 16:44 15:24-16:00/36	07:05 08:04-08:39/35 16:27
9	05:31 20:28	05:58 20:02	06:28 19:15	06:58 08:35-09:22/47 18:25	06:33 07:27-08:48/81 16:43 15:24-16:00/36	07:06 08:05-08:38/33 16:27
10	05:32 20:28	05:59 20:01	06:29 19:14	06:59 08:33-09:23/50 18:24	06:34 07:29-08:49/80 16:42 15:25-16:01/36	07:07 08:06-08:37/31 16:27
11	05:32 20:27	06:00 19:59	06:30 19:12	07:00 08:32-09:24/52 18:22	06:36 07:29-08:48/79 16:41 15:24-16:01/37	07:08 08:07-08:37/30 16:27
12	05:33 20:27	06:01 19:58	06:31 19:10	07:01 08:31-09:27/56 18:20	06:37 07:30-08:48/78 16:40 15:24-16:00/36	07:09 08:09-08:37/28 16:27
13	05:34 20:26	06:02 19:57	06:32 19:09	07:02 08:30-09:30/60 18:19	06:38 07:31-08:47/76 16:39 15:24-16:00/36	07:09 08:10-08:37/27 16:27
14	05:34 20:26	06:03 19:55	06:33 19:07	07:04 08:29-09:32/63 18:17	06:39 07:33-08:48/75 16:38 15:25-16:01/36	07:10 08:11-08:37/26 16:27
15	05:35 20:25	06:04 19:54	06:34 19:05	07:05 08:27-09:34/67 18:16	06:40 07:34-08:48/74 16:37 15:26-16:00/34	07:11 08:12-08:36/24 16:28
16	05:36 20:25	06:05 19:52	06:35 19:03	07:06 08:26-09:35/69 18:14	06:41 07:35-08:47/72 16:36 15:26-16:00/34	07:12 08:13-08:36/23 16:28
17	05:37 20:24	06:06 19:51	06:36 19:02	07:07 08:26-09:37/71 18:13	06:43 07:36-08:46/70 16:36 15:26-16:00/34	07:12 08:15-08:36/21 16:28
18	05:38 20:23	06:07 19:50	06:37 19:00	07:08 08:25-09:38/73 18:11	06:44 07:38-08:47/69 16:35 15:28-16:00/32	07:13 08:15-08:35/20 16:28
19	05:38 20:23	06:08 19:48	06:38 18:58	07:09 08:25-09:40/75 18:10	06:45 07:39-08:46/67 16:34 15:28-15:59/31	07:14 08:16-08:36/20 16:29
20	05:39 20:22	06:09 19:47	06:39 18:57	07:10 08:24-09:41/77 18:08	06:46 07:41-08:46/65 16:33 15:29-15:59/30	07:14 08:16-08:36/20 16:29
21	05:40 20:21	06:10 19:45	06:40 18:55	07:11 08:24-09:42/78 18:07	06:47 07:43-08:45/62 16:33 15:30-15:58/28	07:15 08:17-08:36/19 16:30
22	05:41 20:20	06:11 19:44	06:41 18:53	07:12 08:23-09:43/80 18:05	06:48 07:45-08:46/61 16:32 15:31-15:57/26	07:15 08:17-08:36/19 16:30
23	05:42 20:20	06:12 19:42	06:42 18:52	07:13 08:22-09:43/81 18:04	06:50 07:47-08:45/58 16:31 15:33-15:57/24	07:16 08:18-08:37/19 16:31
24	05:43 20:19	06:12 19:41	06:43 18:50	07:15 08:22-09:44/82 18:02	06:51 07:48-08:45/57 16:31 15:34-15:57/23	07:16 08:18-08:38/20 16:31
25	05:43 20:18	06:13 19:39	06:44 18:48	07:16 07:23-08:45/82 17:01	06:52 07:49-08:44/55 16:30 15:35-15:56/21	07:17 08:19-08:39/20 16:32
26	05:44 20:17	06:14 19:38	06:45 18:47	07:17 07:22-08:46/84 17:00	06:53 07:49-08:43/54 16:30 15:36-15:54/18	07:17 08:19-08:40/21 16:32
27	05:45 20:16	06:15 19:36	06:46 18:45	07:18 07:22-08:46/84 16:58	06:54 07:50-08:43/53 16:29 15:38-15:53/15	07:17 08:18-08:41/23 16:33
28	05:46 20:15	06:16 19:35	06:47 18:43	07:19 07:22-08:46/84 16:57 15:36-15:48/12	06:55 07:52-08:43/51 16:29 15:40-15:51/11	07:18 08:18-08:41/23 16:34
29	05:47 20:14	06:17 19:33	06:48 18:42	07:20 07:22-08:46/84 16:56 15:33-15:51/18	06:56 07:53-08:43/50 16:29 15:45-15:49/4	07:18 08:19-08:43/24 16:34
30	05:48 20:13	06:18 19:32	06:49 18:40	07:21 07:23-08:47/84 16:54 15:32-15:53/21	06:57 07:54-08:42/48 16:28	07:18 08:18-08:44/26 16:35
31	05:49 20:12	06:19 19:30		07:23 07:23-08:48/85 16:53 15:30-15:55/25		07:18 08:18-08:45/27 16:36
Ore potenziali eliofania	458	427	375	346	299	289
Somma minuti d'ombra	0	0	0	1919	2946	868

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 05 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (5)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:19 08:29-09:46/77 16:37	07:06 08:38-09:58/80 17:11	06:30 17:45	06:40 07:19-08:14/55 19:18	05:54 06:42-08:00/78 19:50	05:26 06:47-07:36/49 20:19 18:53-19:36/43
2	07:19 08:30-09:47/77 16:38	07:05 08:38-09:58/80 17:12	06:29 17:46	06:38 07:19-08:14/55 19:19	05:53 06:40-07:58/78 19:51	05:25 06:48-07:36/48 20:20 18:53-19:37/44
3	07:19 08:30-09:47/77 16:39	07:04 08:38-09:56/78 17:13	06:27 17:47	06:36 07:19-08:15/56 19:20	05:52 06:40-07:56/76 19:52	05:25 06:47-07:35/48 20:20 18:53-19:37/44
4	07:19 08:30-09:48/78 16:40	07:03 08:38-09:56/78 17:15	06:25 17:48	06:35 07:17-08:15/58 19:21	05:51 06:40-07:54/74 19:53	05:25 06:48-07:35/47 20:21 18:53-19:38/45
5	07:19 08:31-09:49/78 16:40	07:02 08:39-09:55/76 17:16	06:24 17:49	06:33 07:17-08:16/59 19:22	05:49 06:40-07:52/72 19:54	05:24 06:49-07:35/46 20:22 18:53-19:38/45
6	07:19 08:31-09:49/78 16:41	07:01 08:39-09:55/76 17:17	06:22 17:50	06:32 07:15-08:16/61 19:23	05:48 06:40-07:50/70 19:55	05:24 06:50-07:35/45 20:22 18:53-19:38/45
7	07:19 08:31-09:50/79 16:42	06:59 08:40-09:54/74 17:18	06:21 17:51	06:30 07:14-08:16/62 19:25	05:47 06:39-07:46/67 19:56	05:24 06:50-07:34/44 20:23 18:53-19:38/45
8	07:19 08:32-09:51/79 16:43	06:58 08:41-09:54/73 17:20	06:19 17:53	06:28 07:14-08:17/63 19:26	05:46 06:39-07:44/65 19:57	05:23 06:51-07:34/43 20:24 18:53-19:39/46
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10	07:18 08:32-09:52/80 16:45	06:56 08:43-09:52/69 17:22	06:16 17:55	06:25 07:13-08:17/64 19:28	05:43 06:39-07:43/64 19:59	05:23 06:52-07:34/42 20:25 18:54-19:40/46
11	07:18 08:32-09:52/80 16:46	06:55 08:43-09:51/68 17:23	06:14 17:56	06:24 07:12-08:16/64 19:29	05:42 06:39-07:43/64 20:00	05:23 06:53-07:34/41 20:25 18:54-19:40/46
12	07:18 08:32-09:52/80 16:47	06:54 08:44-09:50/66 17:25	06:13 17:57	06:22 07:11-08:15/64 19:30	05:41 06:39-07:43/64 20:01	05:23 06:53-07:34/41 20:26 18:54-19:41/47
13	07:18 08:32-09:53/81 16:49	06:52 08:45-09:49/64 17:26	06:11 17:58	06:20 07:11-08:16/65 19:31	05:40 06:39-07:43/64 20:02	05:23 06:54-07:34/40 20:26 18:54-19:41/47
14	07:17 08:33-09:54/81 16:50	06:51 08:45-09:46/61 17:27	06:09 06:42-06:43/1 17:59	06:19 07:09-08:15/66 19:32	05:39 06:39-07:42/63 20:03	05:23 06:54-07:34/40 20:27 18:54-19:41/47
15	07:17 08:32-09:54/82 16:51	06:50 08:47-09:45/58 17:28	06:08 06:34-06:50/16 18:00	06:17 07:05-08:15/70 19:33	05:38 06:39-07:42/63 20:04 19:10-19:16/6	05:22 06:55-07:34/39 20:27 18:55-19:41/46
16	07:17 08:33-09:55/82 16:52	06:49 08:48-09:44/56 17:29	06:06 06:32-06:53/21 18:01	06:16 07:01-08:14/73 19:34	05:37 06:39-07:42/63 20:05 19:05-19:21/16	05:22 06:55-07:34/39 20:28 18:55-19:42/47
17	07:16 08:33-09:55/82 16:53	06:47 08:49-09:41/52 17:31	06:05 06:29-06:55/26 18:02	06:14 06:58-08:14/76 19:35	05:36 06:40-07:42/62 20:06 19:04-19:24/20	05:23 06:56-07:34/38 20:28 18:55-19:42/47
18	07:16 08:34-09:56/82 16:54	06:46 08:51-09:39/48 17:32	06:03 06:27-06:56/29 18:03	06:13 06:56-08:13/77 19:36	05:35 06:40-07:42/62 20:07 19:02-19:26/24	05:23 06:56-07:34/38 20:28 18:55-19:42/47
19	07:15 08:33-09:56/83 16:55	06:45 08:53-09:37/44 17:33	06:01 06:26-06:58/32 18:05	06:11 06:54-08:12/78 19:37	05:35 06:40-07:41/61 20:08 19:00-19:27/27	05:23 06:56-07:34/38 20:29 18:55-19:42/47
20	07:15 08:33-09:56/83 16:56	06:43 08:55-09:34/39 17:34	06:00 06:24-06:58/34 18:06	06:10 06:52-08:11/79 19:38	05:34 06:41-07:41/60 20:09 18:59-19:28/29	05:23 06:56-07:34/38 20:29 18:55-19:42/47
21	07:14 08:34-09:57/83 16:58	06:42 08:57-09:31/34 17:35	05:58 06:22-06:58/36 18:07	06:08 06:51-08:11/80 19:39	05:33 06:41-07:40/59 20:10 18:58-19:29/31	05:23 06:56-07:34/38 20:29 18:55-19:42/47
22	07:13 08:34-09:57/83 16:59	06:40 09:00-09:27/27 17:37	05:56 06:22-06:59/37 18:08	06:07 06:50-08:10/80 19:40	05:32 06:42-07:40/58 20:11 18:57-19:31/34	05:23 06:57-07:35/38 20:29 18:56-19:43/47
23	07:13 08:34-09:57/83 17:00	06:39 09:05-09:22/17 17:38	05:55 06:21-06:59/38 18:09	06:05 06:48-08:09/81 19:41	05:31 06:42-07:40/58 20:11 18:56-19:31/35	05:23 06:57-07:35/38 20:29 18:56-19:43/47
24	07:12 08:35-09:58/83 17:01	06:37 17:39	05:53 06:20-06:59/39 18:10	06:04 06:47-08:08/81 19:42	05:31 06:42-07:39/57 20:12 18:55-19:32/37	05:24 06:57-07:35/38 20:30 18:56-19:43/47
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26	07:11 08:35-09:58/83 17:04	06:35 17:41	05:50 06:19-07:05/46 18:12	06:01 06:45-08:06/81 19:44	05:29 06:43-07:38/55 20:14 18:55-19:33/38	05:24 06:57-07:36/39 20:30 18:57-19:44/47
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29	07:08 08:36-09:57/81 17:07		06:45 07:18-08:11/53 19:15	05:57 06:42-08:02/80 19:48	05:27 06:44-07:37/53 20:17 18:53-19:35/42	05:25 06:57-07:37/40 20:30 18:57-19:44/47
30	07:07 08:36-09:57/81 17:08		06:43 07:18-08:12/54 19:16	05:56 06:42-08:01/79 19:49	05:27 06:45-07:37/52 20:17 18:53-19:36/43	05:26 06:57-07:37/40 20:30 18:57-19:44/47
31	07:06 08:37-09:58/81 17:10		06:41 07:19-08:13/54 19:17		05:26 06:47-07:37/50 20:18 18:54-19:37/43	
Ore potenziali eliofanìa	298	298	369	398	448	451
Somma minuti d'ombra	2506	1389	659	2113	2485	2621

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 05 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (5)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:26 06:57-07:38/41 20:30 18:58-19:44/46	05:50 06:49-07:54/65 20:11	06:20 07:11-08:15/64 19:28	06:50 18:38	06:24 08:11-09:21/70 16:52	06:58 08:14-09:35/81 16:28
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6	05:29 06:56-07:41/45 20:29 18:59-19:44/45	05:55 06:49-07:58/69 20:05	06:25 07:11-08:12/61 19:20	06:55 18:30	06:30 08:08-09:25/77 16:46	07:03 08:17-09:35/78 16:27
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8	05:30 06:56-07:42/46 20:28 19:00-19:45/45	05:57 06:49-08:03/74 20:03	06:27 07:12-08:11/59 19:17	06:57 18:27	06:32 08:08-09:27/79 16:44	07:05 08:18-09:36/78 16:27
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14	05:34 06:54-07:46/52 20:26 19:02-19:44/42	06:03 06:50-08:10/80 19:55	06:33 07:09-08:01/52 19:07	07:04 18:17	06:39 08:08-09:30/82 16:38	07:10 08:22-09:38/76 16:27
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20	05:39 06:52-07:50/58 20:22 19:05-19:41/36	06:09 06:54-08:15/81 19:47	06:39 07:07-07:46/39 18:57	07:10 18:08	06:46 08:09-09:32/83 16:33	07:14 08:24-09:39/75 16:29
21	05:40 06:51-07:50/59 20:21 19:06-19:40/34	06:10 06:55-08:15/80 19:45	06:40 07:07-07:45/38 18:55	07:11 18:07	06:47 08:09-09:32/83 16:33	07:15 08:25-09:40/75 16:30
22	05:41 06:51-07:50/59 20:20 19:08-19:40/32	06:11 06:56-08:16/80 19:44	06:41 07:08-07:44/36 18:53	07:12 18:05	06:48 08:09-09:32/83 16:32	07:15 08:25-09:40/75 16:30
23	05:42 06:51-07:51/60 20:20 19:09-19:39/30	06:12 06:57-08:16/79 19:42	06:42 07:08-07:43/35 18:52	07:13 18:04	06:50 08:10-09:33/83 16:31	07:16 08:26-09:41/75 16:31
24	05:43 06:51-07:51/60 20:19 19:10-19:38/28	06:13 06:58-08:16/78 19:41	06:43 07:09-07:41/32 18:50	07:15 18:02	06:51 08:11-09:33/82 16:31	07:16 08:26-09:41/75 16:31
25	05:44 06:51-07:52/61 20:18 19:12-19:37/25	06:13 07:00-08:16/76 19:39	06:44 07:10-07:40/30 18:48	08:19 17:01	06:52 08:11-09:33/82 16:30	07:17 08:27-09:43/76 16:32
26	05:44 06:51-07:52/61 20:17 19:13-19:35/22	06:14 07:00-08:16/76 19:38	06:45 07:11-07:38/27 18:47	08:18 17:00	06:53 08:11-09:33/82 16:30	07:17 08:27-09:43/76 16:32
27	05:45 06:51-07:53/62 20:16 19:14-19:32/18	06:15 07:03-08:16/73 19:36	06:46 07:12-07:36/24 18:45	08:16 16:58	06:54 08:12-09:33/81 16:29	07:17 08:28-09:43/75 16:33
28	05:46 06:50-07:52/62 20:15 19:17-19:30/13	06:16 07:06-08:16/70 19:35	06:47 07:15-07:33/18 18:43	08:15 16:57	06:55 08:12-09:33/81 16:29	07:18 08:28-09:43/75 16:34
29	05:47 06:49-07:53/64 20:14	06:17 07:11-08:16/65 19:33	06:48 07:18-07:28/10 18:42	08:14 16:56	06:56 08:13-09:34/81 16:29	07:18 08:29-09:45/76 16:34
30	05:48 06:49-07:53/64 20:13	06:18 07:11-08:16/65 19:32	06:49 18:40	08:13 16:54	06:57 08:14-09:34/80 16:28	07:18 08:29-09:45/76 16:35
31	05:49 06:49-07:53/64 20:12	06:19 07:11-08:16/64 19:30		08:12 16:53		07:18 08:29-09:46/77 16:36
Ore potenziali eliofanía	458	427	375	346	299	289
Somma minuti d'ombra	2712	2300	1342	650	2400	2376

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 06 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (6)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:19 16:37	07:06 17:11	06:30 17:45	06:40 19:18	07:01-07:26/25 19:50	05:54 20:19
2	07:19 16:38	07:05 17:12	06:28 17:46	06:38 19:19	07:00-07:25/25 19:51	05:53 20:20
3	07:19 16:39	07:04 17:13	06:27 17:47	06:36 19:20	06:59-07:25/26 19:52	05:52 20:20
4	07:19 16:40	07:03 17:15	06:25 17:48	06:35 19:21	06:57-07:24/27 19:53	05:50 20:21
5	07:19 16:40	07:02 17:16	06:24 17:49	06:33 19:22	06:56-07:25/29 19:54	05:49 20:22
6	07:19 16:41	07:00 17:17	06:22 17:50	06:32 19:23	06:55-07:25/30 19:55	05:48 20:22
7	07:19 16:42	06:59 17:18	06:21 17:51	06:30 19:25	06:53-07:25/32 19:56	05:47 20:23
8	07:19 16:43	06:58 17:20	06:19 17:53	06:28 19:26	06:53-07:26/33 19:57	05:46 20:24
9	07:19 16:44	06:57 17:21	06:18 17:54	06:27 19:27	06:52-07:25/33 19:58	05:45 20:24
10	07:18 16:45	06:56 17:22	06:16 17:55	06:25 19:28	06:52-07:26/34 19:59	05:43 20:25
11	07:18 16:46	06:55 17:23	06:14 17:56	06:23 19:29	06:51-07:25/34 20:00	05:42 20:25
12	07:18 16:47	06:54 17:24	06:13 17:57	06:22 19:30	06:46-07:24/38 20:01	05:41 20:26
13	07:18 16:48	06:52 17:26	06:11 17:58	06:20 19:31	06:44-07:24/40 20:02	05:40 20:26
14	07:17 16:50	06:51 17:27	06:09 17:59	06:19 19:32	06:41-07:23/42 20:03	05:39 20:27
15	07:17 16:51	06:50 17:28	06:08 18:00	06:17 19:33	06:40-07:23/43 20:04	05:38 20:27
16	07:17 16:52	06:48 17:29	06:06 18:01	06:16 19:34	06:38-07:22/44 20:05	05:37 20:28
17	07:16 16:53	06:47 17:31	06:05 18:02	06:14 19:35	06:38-07:21/43 20:06	05:36 20:28
18	07:16 16:54	06:46 17:32	06:03 18:03	06:13 19:36	06:36-07:19/43 20:07	05:35 20:28
19	07:15 16:55	06:44 17:33	06:01 18:04	06:11 19:37	06:36-07:19/43 20:08	05:35 20:29
20	07:15 16:56	06:43 17:34	06:00 18:06	06:10 19:38	06:35-07:16/41 20:09	05:34 20:29
21	07:14 16:58	06:42 17:35	05:58 18:07	06:08 19:39	06:35-07:15/40 20:10	05:33 20:29
22	07:13 16:59	06:40 17:36	05:56 18:08	06:07 19:40	06:35-07:12/37 20:10	05:32 20:29
23	07:13 17:00	06:39 17:38	05:55 18:09	06:05 19:41	06:34-07:08/34 20:11	05:31 20:29
24	07:12 17:01	06:37 17:39	05:53 18:10	06:04 19:42	06:34-07:08/34 20:12	05:31 20:30
25	07:11 17:02	06:36 17:40	05:51 18:11	06:02 19:43	06:34-07:07/33 20:13	05:30 20:30
26	07:11 17:04	06:35 17:41	05:50 18:12	06:01 19:44	06:34-07:07/33 20:14	05:29 20:30
27	07:10 17:05	06:33 17:42	05:48 18:13	06:00 19:45	06:35-07:06/31 20:15	05:29 20:30
28	07:09 17:06	06:32 17:43	05:46 18:14	05:58 19:47	06:34-07:05/31 20:16	05:28 20:30
29	07:08 17:07		06:45 19:15	05:57 19:48	06:35-07:04/29 20:16	05:27 20:30
30	07:07 17:08		06:43 19:16	05:56 19:49	06:36-07:04/28 20:17	05:27 20:30
31	07:06 17:10		06:41 19:17		06:36-07:04/28 20:18	05:26 20:30
Ore potenziali eliofanía	298	298	369	398	448	451
Somma minuti d'ombra	0	228	834	1035	319	1028

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 06 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (6)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:
Il sole splende tutto il di, dall'alba al tramonto
Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:26 05:53-06:28/35 20:30	05:50 20:11	06:20 06:50-07:24/34 19:28	06:50 07:37-08:14/37 18:38	06:24 16:52	06:58 16:28
2	05:27 05:53-06:27/34 20:30	05:51 20:10	06:21 06:50-07:24/34 19:27	06:51 07:36-08:14/38 18:37	06:25 16:51	06:59 16:28
3	05:27 05:54-06:28/34 20:29	05:52 20:09	06:22 06:50-07:23/33 19:25	06:52 07:35-08:15/40 18:35	06:26 16:50	07:00 16:27
4	05:28 05:54-06:27/33 20:29	05:53 20:08	06:23 06:50-07:23/33 19:23	06:53 07:34-08:15/41 18:33	06:27 16:48	07:01 16:27
5	05:28 05:55-06:28/33 20:29	05:54 20:07	06:24 06:50-07:22/32 19:22	06:54 07:33-08:15/42 18:32	06:28 16:47	07:02 16:27
6	05:29 05:56-06:28/32 20:29	05:55 20:05	06:25 06:51-07:21/30 19:20	06:55 07:33-08:15/42 18:30	06:30 16:46	07:03 16:27
7	05:30 05:56-06:28/32 20:29	05:56 06:55-07:03/8 20:04	06:26 06:51-07:20/29 19:19	06:56 07:32-08:15/43 18:28	06:31 16:45	07:04 16:27
8	05:30 05:57-06:28/31 20:28	05:57 06:52-07:06/14 20:03	06:27 06:52-07:19/27 19:17	06:57 07:32-08:14/42 18:27	06:32 16:44	07:05 16:27
9	05:31 05:57-06:27/30 20:28	05:58 06:49-07:07/18 20:02	06:28 06:53-07:19/26 19:15	06:58 07:32-08:14/42 18:25	06:33 16:43	07:06 16:27
10	05:32 05:58-06:27/29 20:27	05:59 06:47-07:09/22 20:00	06:29 06:54-07:20/26 19:14	06:59 07:32-08:13/41 18:23	06:34 16:42	07:07 16:27
11	05:32 05:59-06:28/29 20:27	06:00 06:46-07:10/24 19:59	06:30 06:53-07:19/26 19:12	07:00 07:32-08:13/41 18:22	06:35 16:41	07:08 16:27
12	05:33 05:58-06:27/29 20:27	06:01 06:44-07:11/27 19:58	06:31 06:53-07:18/25 19:10	07:01 07:33-08:13/40 18:20	06:37 16:40	07:08 16:27
13	05:34 05:59-06:27/28 20:26	06:02 06:43-07:12/29 19:57	06:32 06:52-07:18/26 19:09	07:02 07:33-08:12/39 18:19	06:38 16:39	08:13-08:16/3 16:27
14	05:34 06:00-06:27/27 20:26	06:03 06:43-07:12/29 19:55	06:33 06:53-07:17/24 19:07	07:03 07:33-08:11/38 18:17	06:39 16:38	08:12-08:18/6 16:27
15	05:35 06:01-06:26/25 20:25	06:04 06:42-07:13/31 19:54	06:34 06:54-07:16/22 19:05	07:05 07:34-08:09/35 18:16	06:40 16:37	08:11-08:19/8 16:28
16	05:36 06:01-06:25/24 20:24	06:05 06:41-07:13/32 19:52	06:35 06:55-07:15/20 19:03	07:06 07:35-08:08/33 18:14	06:41 16:36	08:11-08:21/10 16:28
17	05:37 06:02-06:25/23 20:24	06:06 06:41-07:14/33 19:51	06:36 06:56-07:14/18 19:02	07:07 07:36-08:06/30 18:13	06:43 16:36	08:11-08:22/11 16:28
18	05:37 06:03-06:24/21 20:23	06:07 06:40-07:14/34 19:50	06:37 06:57-07:12/15 19:00	07:08 07:37-08:05/28 18:11	06:44 16:35	08:11-08:22/11 16:28
19	05:38 06:05-06:23/18 20:23	06:08 06:40-07:14/34 19:48	06:38 06:58-07:10/12 18:58	07:09 07:39-08:02/23 18:10	06:45 16:34	08:11-08:23/12 16:29
20	05:39 06:06-06:22/16 20:22	06:09 06:40-07:14/34 19:47	06:39 07:00-07:06/6 18:57	07:10 07:42-08:00/18 18:08	06:46 16:33	08:11-08:23/12 16:29
21	05:40 06:07-06:20/13 20:21	06:10 06:40-07:18/38 19:45	06:40 18:55	07:11 07:45-07:56/11 18:07	06:47 16:33	08:12-08:24/12 16:30
22	05:41 06:10-06:18/8 20:20	06:11 06:40-07:20/40 19:44	06:41 18:53	07:12 18:05	06:48 16:32	08:12-08:24/12 16:30
23	05:42 20:19	06:11 06:40-07:21/41 19:42	06:42 18:52	07:13 18:04	06:49 16:31	08:13-08:25/12 16:31
24	05:43 20:19	06:12 06:40-07:23/43 19:41	06:43 07:53-08:02/9 18:50	07:15 18:02	06:51 16:31	08:13-08:25/12 16:31
25	05:43 20:18	06:13 06:40-07:23/43 19:39	06:44 07:48-08:06/18 18:48	06:16 17:01	06:52 16:30	08:15-08:26/11 16:32
26	05:44 20:17	06:14 06:40-07:23/43 19:38	06:45 07:45-08:08/23 18:47	06:17 17:00	06:53 16:30	08:15-08:26/11 16:32
27	05:45 20:16	06:15 06:40-07:24/44 19:36	06:46 07:43-08:10/27 18:45	06:18 16:58	06:54 16:29	08:16-08:26/10 16:33
28	05:46 20:15	06:16 06:41-07:24/43 19:35	06:47 07:41-08:11/30 18:43	06:19 16:57	06:55 16:29	08:16-08:25/9 16:34
29	05:47 20:14	06:17 06:42-07:24/42 19:33	06:48 07:39-08:12/33 18:42	06:20 16:56	06:56 16:29	08:19-08:26/7 16:34
30	05:48 20:13	06:18 06:44-07:24/40 19:32	06:49 07:38-08:13/35 18:40	06:21 16:54	06:57 16:28	08:20-08:25/5 16:35
31	05:49 20:12	06:19 06:46-07:24/38 19:30		06:23 16:53		07:18 16:36
Ore potenziali eliofanía	458	427	375	346	299	289
Somma minuti d'ombra	584	824	673	744	0	174

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 07 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (7)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:
Il sole splende tutto il di, dall'alba al tramonto
Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:19 16:37	07:06 07:26-07:42/16 17:11	06:30 17:45	06:40 19:18	05:54 06:19-06:37/18 19:50 06:45-06:58/13	05:26 05:51-06:18/27 20:19
2	07:19 16:38	07:05 07:25-07:44/19 17:12	06:28 17:46	06:38 19:19	05:53 06:20-06:35/15 19:51 06:50-06:51/1	05:25 05:52-06:19/27 20:20
3	07:19 16:39	07:04 07:24-07:45/21 17:13	06:27 17:47	06:36 19:20	05:52 06:11-06:20/9 19:52 06:21-06:33/12	05:25 05:52-06:18/26 20:20
4	07:19 16:40	07:03 07:22-07:45/23 17:15	06:25 17:48	06:35 19:21	05:50 06:10-06:22/12 19:53 06:24-06:31/7	05:25 05:52-06:18/26 20:21
5	07:19 16:40	07:02 07:21-07:46/25 17:16	06:24 17:49	06:33 19:22	05:49 06:09-06:24/15 19:54	05:24 05:53-06:19/26 20:22
6	07:19 16:41	07:00 07:20-07:47/27 17:17	06:22 17:50	06:31 19:23	05:48 06:08-06:25/17 19:55	05:24 05:54-06:19/25 20:22
7	07:19 16:42	06:59 07:19-07:48/29 17:18	06:21 17:51	06:30 19:25	05:47 06:06-06:25/19 19:56	05:24 05:53-06:18/25 20:23
8	07:19 16:43	06:58 07:18-07:48/30 17:20	06:19 17:52	06:28 06:51-07:02/11 19:26	05:46 06:05-06:26/21 19:57	05:23 05:54-06:18/24 20:24
9	07:19 16:44	06:57 07:17-07:49/32 17:21	06:18 17:54	06:27 06:47-07:05/18 19:27	05:45 06:04-06:27/23 19:58	05:23 05:54-06:18/24 20:24
10	07:18 16:45	06:56 07:16-07:49/33 17:22	06:16 17:55	06:25 06:46-07:07/21 19:28	05:43 06:03-06:27/24 19:59	05:23 05:55-06:19/24 20:25
11	07:18 16:46	06:55 07:15-07:48/33 17:23	06:14 17:56	06:23 06:43-07:08/25 19:29	05:42 06:02-06:28/26 20:00	05:23 05:55-06:19/24 20:25
12	07:18 16:47	06:54 07:15-07:49/34 17:24	06:13 17:57	06:22 06:41-07:08/27 19:30	05:41 06:01-06:28/27 20:01	05:23 05:56-06:19/23 20:26
13	07:18 16:48	06:52 07:15-07:49/34 17:26	06:11 17:58	06:20 06:40-07:10/30 19:31	05:40 06:01-06:28/27 20:02	05:23 05:56-06:19/23 20:26
14	07:17 16:50	06:51 07:14-07:47/33 17:27	06:09 17:59	06:19 06:39-07:10/31 19:32	05:39 05:59-06:28/29 20:03	05:22 05:57-06:19/22 20:27
15	07:17 16:51	06:50 07:15-07:47/32 17:28	06:08 18:00	06:17 06:39-07:11/32 19:33	05:38 05:58-06:28/30 20:04	05:22 05:57-06:19/22 20:27
16	07:17 16:52	06:48 07:15-07:46/31 17:29	06:06 18:01	06:16 06:37-07:10/33 19:34	05:37 05:57-06:28/31 20:05	05:22 05:57-06:19/22 20:28
17	07:16 16:53	06:47 07:15-07:45/30 17:31	06:05 18:02	06:14 06:37-07:11/34 19:35	05:36 05:57-06:28/31 20:06	05:22 05:57-06:19/22 20:28
18	07:16 16:54	06:46 07:16-07:44/28 17:32	06:03 18:03	06:13 06:36-07:10/34 19:36	05:35 05:56-06:28/32 20:07	05:23 05:58-06:19/21 20:28
19	07:15 16:55	06:44 07:17-07:42/25 17:33	06:01 18:04	06:11 06:30-06:35/5 19:37 06:36-07:11/35	05:35 05:55-06:28/33 20:08	05:23 05:58-06:19/21 20:29
20	07:15 16:56	06:43 07:17-07:40/23 17:34	06:00 18:06	06:10 06:28-07:10/42 19:38	05:34 05:54-06:27/33 20:09	05:23 05:58-06:19/21 20:29
21	07:14 16:58	06:42 07:19-07:39/20 17:35	05:58 18:07	06:08 06:27-07:10/43 19:39	05:33 05:53-06:27/34 20:10	05:23 05:58-06:19/21 20:29
22	07:13 16:59	06:40 07:20-07:36/16 17:36	05:56 18:08	06:07 06:26-07:10/44 19:40	05:32 05:53-06:27/34 20:10	05:23 05:59-06:20/21 20:29
23	07:13 17:00	06:39 07:23-07:34/11 17:38	05:55 18:09	06:05 06:24-07:08/44 19:41	05:31 05:52-06:26/34 20:11	05:23 05:59-06:20/21 20:29
24	07:12 17:01	06:37 17:39	05:53 18:10	06:04 06:23-07:08/45 19:42	05:31 05:51-06:25/34 20:12	05:24 05:59-06:20/21 20:30
25	07:11 17:02	06:36 17:40	05:51 18:11	06:02 06:21-07:07/46 19:43	05:30 05:51-06:25/34 20:13	05:24 05:58-06:20/22 20:30
26	07:11 17:04	06:34 17:41	05:50 18:12	06:01 06:20-07:06/46 19:44	05:29 05:51-06:24/33 20:14	05:24 05:59-06:21/22 20:30
27	07:10 17:05	06:33 17:42	05:48 18:13	06:00 06:19-07:05/46 19:45	05:29 05:51-06:24/33 20:15	05:25 05:59-06:21/22 20:30
28	07:09 17:06	06:32 17:43	05:46 18:14	05:58 06:17-06:38/21 19:47 06:39-07:03/24	05:28 05:51-06:23/32 20:16	05:25 06:00-06:22/22 20:30
29	07:08 17:07		06:45 19:15	05:57 06:18-06:38/20 19:48 06:41-07:02/21	05:27 05:51-06:21/30 20:16	05:25 05:59-06:22/23 20:30
30	07:07 07:30-07:37/7 17:08		06:43 19:16	05:56 06:18-06:37/19 19:49 06:42-07:00/18	05:27 05:51-06:20/29 20:17	05:26 05:59-06:22/23 20:30
31	07:06 07:27-07:40/13 17:10		06:41 19:17		05:26 05:52-06:19/27 20:18	
Ore potenziali eliofanìa	298	298	369	398	448	451
Somma minuti d'ombra	20	605	0	815	859	693

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 07 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (7)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:26 05:59-06:23/24 20:30	05:50 06:12-06:38/26 20:11	06:20 06:42-07:07/25 19:28	06:50 18:38	06:24 06:45-07:18/33 16:52	06:58 16:28
2	05:27 05:59-06:23/24 20:30	05:51 06:13-06:38/25 20:10	06:21 06:44-07:05/21 19:27	06:51 18:37	06:25 06:46-07:18/32 16:51	06:59 16:28
3	05:27 06:00-06:24/24 20:29	05:52 06:14-06:38/24 20:09	06:22 06:45-07:03/18 19:25	06:52 18:35	06:26 06:48-07:18/30 16:49	07:00 16:27
4	05:28 05:59-06:23/24 20:29	05:53 06:15-06:37/22 20:08	06:23 06:48-06:59/11 19:23	06:53 18:33	06:27 06:49-07:18/29 16:48	07:01 16:27
5	05:28 05:59-06:24/25 20:29	05:54 06:16-06:37/21 20:07	06:24 19:22	06:54 18:32	06:28 06:50-07:17/27 16:47	07:02 16:27
6	05:29 06:00-06:25/25 20:29	05:55 06:17-06:36/19 20:05	06:25 19:20	06:55 18:30	06:30 06:52-07:17/25 16:46	07:03 16:27
7	05:30 05:59-06:25/26 20:29	05:56 06:18-06:35/17 20:04	06:26 19:19	06:56 18:28	06:31 06:53-07:16/23 16:45	07:04 16:27
8	05:30 06:00-06:25/25 20:28	05:57 06:19-06:33/14 20:03	06:27 19:17	06:57 18:27	06:32 06:54-07:15/21 16:44	07:05 16:27
9	05:31 05:59-06:25/26 20:28	05:58 06:19-06:30/11 20:02	06:28 19:15	06:58 18:25	06:33 06:55-07:14/19 16:43	07:06 16:27
10	05:31 05:59-06:26/27 20:27	05:59 06:21-06:27/6 20:00	06:29 19:14	06:59 18:23	06:34 06:57-07:13/16 16:42	07:07 16:27
11	05:32 06:00-06:26/26 20:27	06:00 06:28-06:44/16 19:59	06:30 19:12	07:00 18:22	06:35 06:58-07:11/13 16:41	07:08 16:27
12	05:33 05:59-06:26/27 20:27	06:01 06:27-06:45/18 19:58	06:31 19:10	07:01 18:20	06:37 07:01-07:08/7 16:40	07:08 16:27
13	05:34 05:59-06:28/29 20:26	06:02 06:26-06:45/19 19:57	06:32 19:09	07:02 18:19	06:38 16:39	07:09 16:27
14	05:34 06:00-06:30/30 20:26	06:03 06:25-06:46/21 19:55	06:33 19:07	07:03 18:17	06:39 16:38	07:10 16:27
15	05:35 06:00-06:31/31 20:25	06:04 06:25-07:11/46 19:54	06:34 19:05	07:05 18:16	06:40 16:37	07:11 16:27
16	05:36 06:00-06:32/32 20:24	06:05 06:26-07:12/46 19:52	06:35 19:02	07:06 18:14	06:41 16:36	07:12 16:28
17	05:37 06:00-06:33/33 20:24	06:06 06:27-07:13/46 19:51	06:36 19:02	07:07 18:13	06:43 16:36	07:12 16:28
18	05:37 06:00-06:34/34 20:23	06:07 06:28-07:13/45 19:50	06:37 19:00	07:08 07:58-08:01/3 18:11	06:44 16:35	07:13 16:28
19	05:38 06:01-06:35/34 20:23	06:08 06:29-07:14/45 19:48	06:38 18:58	07:09 07:54-08:06/12 18:10	06:45 16:34	07:13 16:29
20	05:39 06:02-06:36/34 20:22	06:09 06:30-07:14/44 19:47	06:39 18:57	07:10 07:51-08:08/17 18:08	06:46 16:33	07:14 16:29
21	05:40 06:02-06:36/34 20:21	06:09 06:31-07:15/44 19:45	06:40 18:55	07:11 07:49-08:10/21 18:07	06:47 16:33	07:15 16:30
22	05:41 06:03-06:37/34 20:20	06:10 06:32-07:15/43 19:44	06:41 18:53	07:12 07:48-08:10/22 18:05	06:48 16:32	07:15 16:30
23	05:42 06:04-06:37/33 20:19	06:11 06:33-07:15/42 19:42	06:42 18:52	07:13 07:46-08:12/26 18:04	06:49 16:31	07:16 16:31
24	05:43 06:05-06:38/33 20:19	06:12 06:34-06:39/5 19:41	06:43 18:50	07:14 07:45-08:14/29 18:02	06:51 16:31	07:16 16:31
25	05:43 06:06-06:38/32 20:18	06:13 06:40-07:14/34 19:39	06:44 18:48	06:16 06:45-07:16/31 17:01	06:52 16:30	07:17 16:32
26	05:44 06:07-06:39/32 20:17	06:14 06:39-07:13/34 19:38	06:45 18:47	06:17 06:45-07:16/31 17:00	06:53 16:30	07:17 16:32
27	05:45 06:08-06:39/31 20:16	06:15 06:39-07:12/33 19:36	06:46 18:45	06:18 06:44-07:17/33 16:58	06:54 16:29	07:17 16:33
28	05:46 06:08-06:38/30 20:15	06:16 06:40-07:12/32 19:35	06:47 18:43	06:19 06:44-07:17/33 16:57	06:55 16:29	07:18 16:34
29	05:47 06:09-06:39/30 20:14	06:17 06:40-07:11/31 19:33	06:48 18:41	06:20 06:44-07:17/33 16:56	06:56 16:29	07:18 16:34
30	05:48 06:10-06:39/29 20:13	06:18 06:40-07:10/30 19:32	06:49 18:40	06:21 06:45-07:18/33 16:54	06:57 16:28	07:18 16:35
31	05:49 06:11-06:39/28 20:12	06:19 06:41-07:08/27 19:30		06:23 06:45-07:18/33 16:53		07:18 16:36
Ore potenziali eliofanìa	458	427	375	346	299	289
Somma minuti d'ombra	906	1005	75	357	275	0

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 08 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (8)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:19 08:38-09:59/81 16:37	07:06 09:00-09:55/55 17:11	06:30 17:45	06:40 19:18	05:54 19:50	05:26 20:19
2	07:19 08:39-10:00/81 16:38	07:05 09:00-09:53/53 17:12	06:28 17:46	06:38 19:19	05:53 19:51	05:25 20:20
3	07:19 08:39-10:00/81 16:39	07:04 09:02-09:51/49 17:13	06:27 17:47	06:36 19:20	05:52 19:52	05:25 20:20
4	07:19 08:40-10:00/80 16:39	07:03 09:04-09:49/45 17:15	06:25 17:48	06:35 19:21	05:50 19:53	05:24 20:21
5	07:19 08:40-10:01/81 16:40	07:02 09:06-09:47/41 17:16	06:24 17:49	06:33 19:22	05:49 19:54	05:24 20:22
6	07:19 08:41-10:01/80 16:41	07:00 09:08-09:45/37 17:17	06:22 17:50	06:31 19:23	05:48 06:08-06:12/4 19:55	05:24 20:22
7	07:19 08:42-10:02/80 16:42	06:59 09:11-09:42/31 17:18	06:21 17:51	06:30 19:24	05:47 06:06-06:13/7 19:56	05:24 20:23
8	07:19 08:42-10:02/80 16:43	06:58 09:14-09:39/25 17:20	06:19 17:52	06:28 19:26	05:46 06:05-06:14/9 19:57	05:23 20:24
9	07:19 08:42-10:02/80 16:44	06:57 09:19-09:34/15 17:21	06:17 17:54	06:27 19:27	05:45 06:04-06:15/11 19:58	05:23 20:24
10	07:18 08:43-10:02/79 16:45	06:56 17:22	06:16 17:55	06:25 19:28	05:43 06:03-06:16/13 19:59	05:23 20:25
11	07:18 08:44-10:03/79 16:46	06:55 17:23	06:14 17:56	06:23 19:29	05:42 06:02-06:17/15 20:00	05:23 20:25
12	07:18 08:43-10:02/79 16:47	06:54 17:24	06:13 06:31-06:34/3 17:57	06:22 19:30	05:41 06:01-06:17/16 20:01	05:23 20:26
13	07:18 08:44-10:03/79 16:48	06:52 17:26	06:11 06:30-06:37/7 17:58	06:20 19:31	05:40 06:00-06:17/17 20:02	05:22 20:26
14	07:17 08:45-10:03/78 16:50	06:51 17:27	06:09 06:28-06:38/10 17:59	06:19 19:32	05:39 05:59-06:17/18 20:03	05:22 20:27
15	07:17 08:45-10:03/78 16:51	06:50 17:28	06:08 06:26-06:39/13 18:00	06:17 19:33	05:38 05:58-06:17/19 20:04	05:22 20:27
16	07:17 08:46-10:03/77 16:52	06:48 17:29	06:06 06:25-06:40/15 18:01	06:16 19:34	05:37 05:57-06:17/20 20:05	05:22 20:27
17	07:16 08:47-10:03/76 16:53	06:47 17:30	06:04 06:23-06:40/17 18:02	06:14 19:35	05:36 05:57-06:18/21 20:06	05:22 20:28
18	07:16 08:48-10:03/75 16:54	06:46 17:32	06:03 06:21-06:40/19 18:03	06:13 19:36	05:35 05:56-06:18/22 20:07	05:23 20:28
19	07:15 08:48-10:03/75 16:55	06:44 17:33	06:01 06:20-06:40/20 18:04	06:11 19:37	05:34 05:55-06:18/23 20:08	05:23 20:29
20	07:15 08:48-10:02/74 16:56	06:43 17:34	06:00 06:18-06:39/21 18:06	06:10 19:38	05:34 05:54-06:17/23 20:09	05:23 20:29
21	07:14 08:50-10:03/73 16:57	06:42 17:35	05:58 06:16-06:38/22 18:07	06:08 19:39	05:33 05:54-06:17/23 20:10	05:23 20:29
22	07:13 08:50-10:02/72 16:59	06:40 17:36	05:56 06:15-06:38/23 18:08	06:07 19:40	05:32 05:55-06:17/22 20:10	05:23 20:29
23	07:13 08:50-10:01/71 17:00	06:39 17:38	05:55 06:13-06:36/23 18:09	06:05 19:41	05:31 05:55-06:16/21 20:11	05:23 20:29
24	07:12 08:52-10:02/70 17:01	06:37 17:39	05:53 06:12-06:34/22 18:10	06:04 19:42	05:30 05:55-06:16/21 20:12	05:24 20:30
25	07:11 08:53-10:01/68 17:02	06:36 17:40	05:51 06:14-06:33/19 18:11	06:02 19:43	05:30 05:57-06:16/19 20:13	05:24 20:30
26	07:11 08:53-10:00/67 17:03	06:34 17:41	05:50 06:14-06:30/16 18:12	06:01 19:44	05:29 05:57-06:15/18 20:14	05:24 20:30
27	07:10 08:54-09:59/65 17:05	06:33 17:42	05:48 06:15-06:28/13 18:13	06:00 19:45	05:28 05:59-06:15/16 20:15	05:25 20:30
28	07:09 08:55-09:58/63 17:06	06:31 17:43	05:46 06:19-06:25/6 18:14	05:58 19:47	05:28 05:59-06:13/14 20:16	05:25 20:30
29	07:08 08:56-09:57/61 17:07		06:45 19:15	05:57 19:48	05:27 06:00-06:12/12 20:16	05:25 20:30
30	07:07 08:57-09:56/59 17:08		06:43 19:16	05:56 19:49	05:27 06:02-06:11/9 20:17	05:26 20:30
31	07:06 08:58-09:55/57 17:10		06:41 19:17		05:26 06:04-06:10/6 20:18	
Ore potenziali eliofanìa	298	298	369	398	448	451
Somma minuti d'ombra	2299	351	269	0	419	0

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 08 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (8)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:26 20:30	05:50 06:12-06:27/15 20:11	06:20 19:28	06:50 07:10-07:15/5 18:38	06:24 16:52	06:58 08:26-09:45/79 16:28
2	05:27 20:30	05:51 06:13-06:27/14 20:10	06:21 19:27	06:51 18:36	06:25 08:47-09:04/17 16:51	06:59 08:26-09:45/79 16:28
3	05:27 20:29	05:52 06:14-06:26/12 20:09	06:22 19:25	06:52 18:35	06:26 08:43-09:09/26 16:49	07:00 08:26-09:46/80 16:27
4	05:28 20:29	05:53 06:15-06:26/11 20:08	06:23 19:23	06:53 18:33	06:27 08:40-09:13/33 16:48	07:01 08:26-09:46/80 16:27
5	05:28 20:29	05:54 06:16-06:25/9 20:07	06:24 19:22	06:54 18:32	06:28 08:37-09:15/38 16:47	07:02 08:27-09:47/80 16:27
6	05:29 20:29	05:55 06:17-06:23/6 20:05	06:25 19:20	06:55 18:30	06:30 08:35-09:17/42 16:46	07:03 08:27-09:47/80 16:27
7	05:30 20:29	05:56 06:18-06:21/3 20:04	06:26 19:19	06:56 18:28	06:31 08:34-09:20/46 16:45	07:04 08:27-09:48/81 16:27
8	05:30 20:28	05:57 20:03	06:27 19:17	06:57 18:27	06:32 08:33-09:22/49 16:44	07:05 08:28-09:49/81 16:27
9	05:31 20:28	05:58 20:02	06:28 19:15	06:58 18:25	06:33 08:31-09:24/53 16:43	07:06 08:28-09:49/81 16:27
10	05:31 20:27	05:59 20:00	06:29 19:14	06:59 18:23	06:34 08:31-09:26/55 16:42	07:07 08:28-09:49/81 16:27
11	05:32 20:27	06:00 19:59	06:30 19:12	07:00 18:22	06:35 08:30-09:27/57 16:41	07:08 08:28-09:49/81 16:27
12	05:33 06:13-06:16/3 20:27	06:01 19:58	06:31 19:10	07:01 18:20	06:37 08:29-09:28/59 16:40	07:08 08:29-09:50/81 16:27
13	05:34 06:11-06:19/8 20:26	06:02 19:57	06:32 19:08	07:02 18:19	06:38 08:28-09:29/61 16:39	07:09 08:30-09:51/81 16:27
14	05:34 06:10-06:21/11 20:26	06:03 19:55	06:33 19:07	07:03 18:17	06:39 08:28-09:31/63 16:38	07:10 08:30-09:51/81 16:27
15	05:35 06:09-06:22/13 20:25	06:04 19:54	06:34 07:10-07:12/2 19:05	07:05 18:16	06:40 08:27-09:32/65 16:37	07:11 08:30-09:51/81 16:27
16	05:36 06:07-06:22/15 20:24	06:05 19:52	06:35 07:05-07:17/12 19:03	07:06 18:14	06:41 08:26-09:33/67 16:36	07:12 08:31-09:52/81 16:28
17	05:37 06:07-06:24/17 20:24	06:06 19:51	06:36 07:03-07:18/15 19:02	07:07 18:13	06:43 08:26-09:34/68 16:36	07:12 08:32-09:53/81 16:28
18	05:37 06:06-06:25/19 20:23	06:07 19:50	06:37 07:01-07:19/18 19:00	07:08 18:11	06:44 08:26-09:36/70 16:35	07:13 08:32-09:53/81 16:28
19	05:38 06:06-06:26/20 20:23	06:07 19:48	06:38 07:00-07:21/21 18:58	07:09 18:10	06:45 08:25-09:36/71 16:34	07:13 08:32-09:54/82 16:29
20	05:39 06:06-06:26/20 20:22	06:08 19:47	06:39 06:59-07:22/23 18:57	07:10 18:08	06:46 08:25-09:37/72 16:33	07:14 08:32-09:54/82 16:29
21	05:40 06:05-06:26/21 20:21	06:09 19:45	06:40 07:00-07:23/23 18:55	07:11 18:07	06:47 08:25-09:38/73 16:33	07:15 08:33-09:55/82 16:30
22	05:41 06:04-06:27/23 20:20	06:10 19:44	06:41 07:01-07:23/22 18:53	07:12 18:05	06:48 08:24-09:38/74 16:32	07:15 08:33-09:55/82 16:30
23	05:42 06:04-06:27/23 20:19	06:11 19:42	06:42 07:02-07:23/21 18:52	07:13 18:04	06:49 08:25-09:40/75 16:31	07:16 08:34-09:56/82 16:31
24	05:43 06:05-06:28/23 20:19	06:12 19:41	06:43 07:03-07:23/20 18:50	07:14 18:02	06:51 08:25-09:40/75 16:31	07:16 08:34-09:56/82 16:31
25	05:43 06:06-06:28/22 20:18	06:13 19:39	06:44 07:04-07:23/19 18:48	06:16 17:01	06:52 08:25-09:41/76 16:30	07:17 08:36-09:57/81 16:32
26	05:44 06:07-06:29/22 20:17	06:14 19:38	06:45 07:05-07:22/17 18:47	06:17 17:00	06:53 08:24-09:41/77 16:30	07:17 08:36-09:57/81 16:32
27	05:45 06:07-06:28/21 20:16	06:15 19:36	06:46 07:06-07:22/16 18:45	06:18 16:58	06:54 08:24-09:42/78 16:29	07:17 08:36-09:57/81 16:33
28	05:46 06:08-06:28/20 20:15	06:16 19:35	06:47 07:07-07:21/14 18:43	06:19 16:57	06:55 08:24-09:42/78 16:29	07:18 08:36-09:57/81 16:34
29	05:47 06:09-06:28/19 20:14	06:17 19:33	06:48 07:08-07:19/11 18:41	06:20 16:56	06:56 08:25-09:44/79 16:28	07:18 08:37-09:58/81 16:34
30	05:48 06:10-06:28/18 20:13	06:18 19:31	06:49 07:09-07:18/9 18:40	06:21 16:54	06:57 08:26-09:44/78 16:28	07:18 08:38-09:59/81 16:35
31	05:49 06:11-06:28/17 20:12	06:19 19:30		06:23 16:53		07:18 08:38-09:59/81 16:36
Ore potenziali eliofanìa	458	427	375	346	299	289
Somma minuti d'ombra	355	70	263	5	1775	2509

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm)inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 09 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (9) Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:19 16:37	07:06 17:11	06:30 17:45	06:40 19:18	05:54 19:50	05:26 05:58-06:58/60 20:19	05:26 06:05-07:03/58 20:30	05:50 06:14-07:01/47 20:11	06:20 19:28	06:50 18:38	06:24 16:52	06:58 16:28
2	07:19 16:38	07:05 17:12	06:28 17:46	06:38 19:19	05:53 06:24-06:31/7 19:51	05:25 05:59-06:58/59 20:20	05:27 06:05-07:03/58 20:30	05:51 06:15-07:00/45 20:10	06:21 19:27	06:51 18:36	06:25 16:51	06:59 16:28
3	07:19 16:39	07:04 17:13	06:27 17:47	06:36 19:20	05:52 06:19-06:37/18 19:52	05:25 05:58-06:58/60 20:20	05:27 06:05-07:04/59 20:29	05:52 06:16-06:59/43 20:09	06:22 19:25	06:52 18:35	06:26 16:49	07:00 16:27
4	07:19 16:39	07:03 17:15	06:25 17:48	06:35 19:21	05:50 06:16-06:40/24 19:53	05:24 05:59-06:58/59 20:21	05:28 06:05-07:04/59 20:29	05:53 06:17-06:58/41 20:08	06:23 19:23	06:53 18:33	06:27 16:48	07:01 16:27
5	07:19 16:40	07:02 17:16	06:24 17:49	06:33 19:22	05:49 06:13-06:42/29 19:54	05:24 05:59-06:58/59 20:22	05:28 06:05-07:04/59 20:29	05:54 06:19-06:56/37 20:07	06:24 19:22	06:54 18:32	06:28 16:47	07:02 16:27
6	07:19 16:41	07:00 17:17	06:22 17:50	06:31 19:23	05:48 06:10-06:43/33 19:55	05:24 05:59-06:58/59 20:22	05:29 06:05-07:04/59 20:29	05:55 06:20-06:55/35 20:05	06:25 19:20	06:55 18:30	06:30 16:46	07:03 16:27
7	07:19 16:42	06:59 17:18	06:21 17:51	06:30 19:24	05:47 06:09-06:45/36 19:56	05:23 05:59-06:58/59 20:23	05:29 06:06-07:05/59 20:29	05:56 06:21-06:52/31 20:04	06:26 19:18	06:56 18:28	06:31 16:45	07:04 16:27
8	07:19 16:43	06:58 17:19	06:19 17:52	06:28 19:26	05:46 06:07-06:46/39 19:57	05:23 06:00-06:59/59 20:24	05:30 06:06-07:05/59 20:28	05:57 06:23-06:50/27 20:03	06:27 19:17	06:57 18:27	06:32 16:44	07:05 16:27
9	07:19 16:44	06:57 17:21	06:17 17:54	06:27 19:27	05:44 06:06-06:48/42 19:58	05:23 06:00-06:59/59 20:24	05:31 06:06-07:05/59 20:28	05:58 06:25-06:48/23 20:02	06:28 19:15	06:58 18:25	06:33 16:43	07:06 16:27
10	07:18 16:45	06:56 17:22	06:16 17:55	06:25 19:28	05:43 06:05-06:49/44 19:59	05:23 06:00-06:59/59 20:25	05:31 06:06-07:05/59 20:27	05:59 06:29-06:44/15 20:00	06:29 19:14	06:59 18:23	06:34 16:42	07:07 16:27
11	07:18 16:46	06:55 17:23	06:14 17:56	06:23 19:29	05:42 06:04-06:50/46 20:00	05:23 06:01-06:59/58 20:25	05:32 06:07-07:06/59 20:27	06:00 19:59	06:30 19:12	07:00 18:22	06:35 16:41	07:08 16:27
12	07:18 16:47	06:54 17:24	06:13 17:57	06:22 19:30	05:41 06:03-06:50/47 20:01	05:23 06:01-07:00/59 20:26	05:33 06:06-07:05/59 20:27	06:01 19:58	06:31 19:10	07:01 18:20	06:37 16:40	07:08 16:27
13	07:18 16:48	06:52 17:26	06:11 17:58	06:20 19:31	05:40 06:02-06:51/49 20:02	05:22 06:00-06:59/59 20:26	05:34 06:07-07:06/59 20:26	06:02 19:57	06:32 19:08	07:02 18:19	06:38 16:39	07:09 16:27
14	07:17 16:49	06:51 17:27	06:09 17:59	06:19 19:32	05:39 06:02-06:52/50 20:03	05:22 06:01-06:59/58 20:27	05:34 06:07-07:06/59 20:26	06:03 19:55	06:33 19:07	07:03 18:17	06:39 16:38	07:10 16:27
15	07:17 16:51	06:50 17:28	06:08 18:00	06:17 19:33	05:38 06:01-06:52/51 20:04	05:22 06:01-06:59/58 20:27	05:35 06:07-07:05/58 20:25	06:04 19:54	06:34 19:05	07:05 18:16	06:40 16:37	07:11 16:27
16	07:17 16:52	06:48 17:29	06:06 18:01	06:16 19:34	05:37 06:00-06:53/53 20:05	05:22 06:02-07:00/58 20:28	05:36 06:07-07:06/59 20:24	06:05 19:52	06:35 19:03	07:06 18:14	06:41 16:36	07:12 16:28
17	07:16 16:53	06:47 17:30	06:04 18:02	06:14 19:35	05:36 06:01-06:54/53 20:06	05:22 06:02-07:00/58 20:28	05:37 06:07-07:06/59 20:24	06:05 19:51	06:36 19:02	07:07 18:13	06:43 16:35	07:12 16:28
18	07:16 16:54	06:46 17:32	06:03 18:03	06:13 19:36	05:35 06:00-06:54/54 20:07	05:22 06:02-07:00/58 20:28	05:37 06:08-07:06/58 20:23	06:06 19:50	06:37 19:00	07:08 18:11	06:44 16:35	07:13 16:28
19	07:15 16:55	06:44 17:33	06:01 18:04	06:11 19:37	05:34 06:00-06:55/55 20:08	05:23 06:02-07:01/59 20:29	05:38 06:08-07:06/58 20:23	06:07 19:48	06:38 18:58	07:09 18:10	06:45 16:34	07:13 16:29
20	07:15 16:56	06:43 17:34	06:00 18:06	06:10 19:38	05:34 05:59-06:55/56 20:09	05:23 06:02-07:01/59 20:29	05:39 06:08-07:05/57 20:22	06:08 19:47	06:39 18:57	07:10 18:08	06:46 16:33	07:14 16:29
21	07:14 16:57	06:42 17:35	05:58 18:07	06:08 19:39	05:33 05:58-06:55/57 20:10	05:23 06:02-07:01/59 20:29	05:40 06:08-07:05/57 20:21	06:09 19:45	06:40 18:55	07:11 18:07	06:47 16:33	07:15 16:30
22	07:13 16:59	06:40 17:36	05:56 18:08	06:07 19:40	05:32 05:59-06:56/57 20:10	05:23 06:02-07:01/59 20:29	05:41 06:09-07:05/56 20:20	06:10 19:44	06:41 18:53	07:12 18:05	06:48 16:32	07:15 16:30
23	07:13 17:00	06:39 17:38	05:55 18:09	06:05 19:41	05:31 05:59-06:56/57 20:11	05:23 06:03-07:02/59 20:29	05:42 06:09-07:05/56 20:19	06:11 19:42	06:42 18:52	07:13 18:04	06:49 16:31	07:16 16:31
24	07:12 17:01	06:37 17:39	05:53 18:10	06:04 19:42	05:30 05:58-06:56/58 20:12	05:24 06:03-07:01/58 20:30	05:43 06:10-07:05/55 20:19	06:12 19:41	06:43 18:50	07:14 18:02	06:51 16:31	07:16 16:31
25	07:11 17:02	06:36 17:40	05:51 18:11	06:02 19:43	05:30 05:59-06:57/58 20:13	05:24 06:03-07:01/58 20:30	05:43 06:10-07:05/55 20:18	06:13 19:39	06:44 18:48	07:15 17:01	06:52 16:30	07:17 16:32
26	07:11 17:03	06:34 17:41	05:50 18:12	06:01 19:44	05:29 05:58-06:56/58 20:14	05:24 06:04-07:02/58 20:30	05:44 06:11-07:05/54 20:17	06:14 19:38	06:45 18:46	07:16 17:00	06:53 16:30	07:17 16:32
27	07:10 17:05	06:33 17:42	05:48 18:13	06:00 19:45	05:28 05:58-06:56/58 20:15	05:25 06:04-07:02/58 20:30	05:45 06:11-07:04/53 20:16	06:15 19:36	06:46 18:45	07:17 16:58	06:54 16:29	07:17 16:33
28	07:09 17:06	06:31 17:43	05:46 18:14	05:58 19:47	05:28 05:58-06:57/59 20:16	05:25 06:04-07:02/58 20:30	05:46 06:11-07:03/52 20:15	06:16 19:35	06:47 18:43	07:18 16:57	06:55 16:29	07:18 16:34
29	07:08 17:07		06:45 19:15	05:57 19:48	05:27 05:58-06:57/59 20:16	05:25 06:04-07:03/59 20:30	05:47 06:12-07:03/51 20:14	06:17 19:33	06:48 18:41	07:19 16:56	06:56 16:28	07:18 16:34
30	07:07 17:08		06:43 19:16	05:56 19:49	05:27 05:58-06:57/59 20:17	05:26 06:04-07:03/59 20:30	05:48 06:13-07:02/49 20:13	06:18 19:31	06:49 18:40	07:20 16:54	06:57 16:28	07:18 16:35
31	07:06 17:10		06:41 19:17		05:26 05:58-06:57/59 20:18		05:49 06:13-07:02/49 20:12	06:19 19:30		07:21 16:53		07:18 16:36
Ore potenziali eliofanía	298	298	369	398	448	451	458	427	375	346	299	289
Somma minuti d'ombra	0	0	0	0	1425	1761	1760	344	0	0	0	0

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettoriWTG: 10 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (10)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:19 08:30-09:19/49 16:37	07:05 07:31-07:57/26 17:11	06:30 06:49-07:07/18 17:45	06:40 19:18	05:54 06:48-07:59/71 19:50	05:26 06:55-07:49/54 20:19
2	07:19 08:30-09:19/49 16:38	07:05 07:29-07:58/29 17:12	06:28 06:47-07:06/19 17:46	06:38 19:19	05:53 06:48-07:59/71 19:51	05:25 06:56-07:49/53 20:20
3	07:19 08:31-09:19/48 16:39	07:04 07:29-08:00/31 17:13	06:27 06:46-07:06/20 17:47	06:36 19:20	05:52 06:48-07:59/71 19:52	05:25 06:56-07:49/53 20:20
4	07:19 08:31-09:19/48 16:40	07:03 07:28-08:01/33 17:15	06:25 06:44-07:05/21 17:48	06:35 19:21	05:50 06:48-07:59/71 19:53	05:25 06:57-07:49/52 20:21
5	07:19 08:32-09:20/48 16:40	07:01 07:27-08:02/35 17:16	06:24 06:43-07:05/22 17:49	06:33 19:22	05:49 06:48-07:59/71 19:54	05:24 06:58-07:49/51 20:22
6	07:19 08:33-09:20/47 16:41	07:00 07:27-08:03/36 17:17	06:22 06:41-07:03/22 17:50	06:31 19:23	05:48 06:48-07:59/71 19:55	05:24 06:58-07:47/49 20:22
7	07:19 08:34-09:20/46 16:42	06:59 07:26-08:04/38 17:18	06:21 06:39-07:01/22 17:51	06:30 19:24	05:47 06:47-07:58/71 19:56	05:24 06:59-07:47/48 20:23
8	07:19 08:34-09:19/45 16:43	06:58 07:26-08:04/38 17:20	06:19 06:38-07:00/22 17:52	06:28 19:26	05:46 06:47-07:58/71 19:57	05:23 06:59-07:47/48 20:24
9	07:19 08:35-09:20/45 16:44	06:57 07:26-08:05/39 17:21	06:17 06:37-06:59/22 17:54	06:27 19:27	05:45 06:47-07:58/71 19:58	05:23 07:00-07:47/47 20:24
10	07:18 08:36-09:20/44 16:45	06:56 07:25-08:04/39 17:22	06:16 06:37-06:59/22 17:55	06:25 07:22-07:38/16 19:28	05:43 06:47-07:58/71 19:59	05:23 07:01-07:47/46 20:25
11	07:18 08:37-09:20/43 16:46	06:55 07:25-08:05/40 17:23	06:14 06:37-06:58/21 17:56	06:23 07:16-07:42/26 19:29	05:42 06:47-07:57/70 20:00	05:23 07:02-07:47/45 20:25
12	07:18 08:37-09:19/42 16:47	06:54 07:25-08:05/40 17:24	06:13 06:37-06:57/20 17:57	06:22 07:12-07:45/33 19:30	05:41 06:47-07:57/70 20:01	05:23 07:02-07:47/45 20:26
13	07:18 08:38-09:19/41 16:48	06:52 07:26-08:05/39 17:26	06:11 06:38-06:56/18 17:58	06:20 07:10-07:48/38 19:31	05:40 06:47-07:57/70 20:02	05:23 07:03-07:47/44 20:26
14	07:17 08:40-09:20/40 16:50	06:51 07:25-08:05/40 17:27	06:09 06:39-06:55/16 17:59	06:19 07:07-07:49/42 19:32	05:39 06:47-07:56/69 20:03	05:22 07:03-07:47/44 20:27
15	07:17 08:40-09:19/39 16:51	06:50 07:26-08:05/39 17:28	06:08 06:40-06:52/12 18:00	06:17 07:05-07:51/46 19:33	05:38 06:47-07:56/69 20:04	05:22 07:04-07:47/43 20:27
16	07:17 08:42-09:19/37 16:52	06:48 07:26-08:05/39 17:29	06:06 06:44-06:49/5 18:01	06:16 07:03-07:52/49 19:34	05:37 06:48-07:55/67 20:05	05:22 07:04-07:47/43 20:27
17	07:16 08:42-09:17/35 16:53	06:47 07:26-08:03/37 17:31	06:04 18:02	06:14 07:01-07:54/53 19:35	05:36 06:49-07:56/67 20:06	05:23 07:04-07:47/43 20:28
18	07:16 08:44-09:17/33 16:54	06:46 07:27-08:03/36 17:32	06:03 18:03	06:13 06:59-07:54/55 19:36	05:35 06:49-07:55/66 20:07	05:23 07:04-07:47/43 20:28
19	07:15 08:45-09:16/31 16:55	06:44 07:28-08:03/35 17:33	06:01 18:04	06:11 06:58-07:56/58 19:37	05:35 06:49-07:55/66 20:08	05:23 07:05-07:47/42 20:28
20	07:15 08:46-09:14/28 16:56	06:43 07:28-08:01/33 17:34	06:00 18:06	06:10 06:57-07:56/59 19:38	05:34 06:49-07:54/65 20:09	05:23 07:05-07:47/42 20:29
21	07:14 08:49-09:14/25 16:58	06:42 07:29-08:00/31 17:35	05:58 18:07	06:08 06:56-07:57/61 19:39	05:33 06:49-07:54/65 20:10	05:23 07:05-07:47/42 20:29
22	07:13 08:51-09:12/21 16:59	06:40 07:30-07:58/28 17:36	05:56 18:08	06:07 06:54-07:57/63 19:40	05:32 06:50-07:54/64 20:10	05:23 07:06-07:48/42 20:29
23	07:13 08:53-09:09/16 17:00	06:39 06:58-07:03/5 17:38	05:55 18:09	06:05 06:53-07:58/65 19:41	05:31 06:51-07:53/62 20:11	05:23 07:06-07:48/42 20:29
24	07:12 08:59-09:05/6 17:01	06:37 06:56-07:06/10 17:39	05:53 18:10	06:04 06:53-07:59/66 19:42	05:31 06:51-07:52/61 20:12	05:24 07:06-07:48/42 20:30
25	07:11 17:02	06:36 06:55-07:06/11 17:40	05:51 18:11	06:02 06:51-07:58/67 19:43	05:30 06:52-07:53/61 20:13	05:24 07:05-07:48/43 20:30
26	07:11 17:04	06:34 06:54-07:07/13 17:41	05:50 18:12	06:01 06:51-07:59/68 19:44	05:29 06:52-07:52/60 20:14	05:24 07:06-07:49/43 20:30
27	07:10 17:05	06:33 06:52-07:07/15 17:42	05:48 18:13	06:00 06:51-08:00/69 19:45	05:29 06:53-07:52/59 20:15	05:25 07:06-07:49/43 20:30
28	07:09 17:06	06:31 06:50-07:07/17 17:43	05:46 18:14	05:58 06:49-07:59/70 19:46	05:28 06:53-07:51/58 20:16	05:25 07:05-07:49/44 20:30
29	07:08 17:07	07:35-07:51/16	06:45 19:15	05:57 06:49-07:59/70 19:48	05:27 06:53-07:50/57 20:16	05:25 07:06-07:50/44 20:30
30	07:07 17:08	07:33-07:54/21	06:43 19:16	05:56 06:49-08:00/71 19:49	05:27 06:54-07:50/56 20:17	05:26 07:05-07:50/45 20:30
31	07:06 17:10	07:32-07:56/24	06:41 19:17		05:26 06:55-07:50/55 20:18	
Ore potenziali eliofanìa	298	298	369	398	447	451
Somma minuti d'ombra	976	922	302	1145	2047	1365

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettoriWTG: 10 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (10 Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:26 07:06-07:51/45 20:30	05:50 06:58-08:08/70 20:11	06:20 07:15-07:41/26 19:28	06:50 07:17-07:36/19 18:38	06:24 06:55-07:34/39 16:52	06:58 08:19-09:02/43 16:28
2	05:27 07:05-07:51/46 20:30	05:51 06:57-08:08/71 20:10	06:21 07:20-07:35/15 19:27	06:51 07:16-07:37/21 18:36	06:25 06:55-07:34/39 16:51	06:59 08:19-09:03/44 16:28
3	05:27 07:06-07:52/46 20:29	05:52 06:57-08:08/71 20:09	06:22 19:25	06:52 07:15-07:37/22 18:35	06:26 06:56-07:34/38 16:49	07:00 08:19-09:04/45 16:27
4	05:28 07:05-07:52/47 20:29	05:53 06:57-08:09/72 20:08	06:23 19:23	06:53 07:14-07:37/23 18:33	06:27 06:56-07:33/37 16:48	07:01 08:19-09:05/46 16:27
5	05:28 07:05-07:53/48 20:29	05:54 06:57-08:09/72 20:07	06:24 19:22	06:54 07:14-07:36/22 18:32	06:28 06:57-07:33/36 16:47	07:02 08:19-09:05/46 16:27
6	05:29 07:04-07:53/49 20:29	05:55 06:57-08:09/72 20:05	06:25 19:20	06:55 07:15-07:36/21 18:30	06:30 06:57-07:32/35 16:46	07:03 08:19-09:06/47 16:27
7	05:30 07:04-07:55/51 20:28	05:56 06:57-08:09/72 20:04	06:26 19:18	06:56 07:16-07:38/22 18:28	06:31 06:59-07:32/33 16:45	07:04 08:19-09:07/48 16:27
8	05:30 07:05-07:56/51 20:28	05:57 06:56-08:08/72 20:03	06:27 19:17	06:57 07:17-07:39/22 18:27	06:32 07:00-07:31/31 16:44	07:05 08:19-09:08/49 16:27
9	05:31 07:04-07:56/52 20:28	05:58 06:56-08:08/72 20:02	06:28 19:15	06:58 07:18-07:40/22 18:25	06:33 07:00-07:29/29 16:43	07:06 08:20-09:08/48 16:27
10	05:32 07:04-07:56/52 20:27	05:59 06:56-08:08/72 20:00	06:29 19:14	06:59 07:19-07:40/21 18:23	06:34 07:02-07:28/26 16:42	07:07 08:19-09:08/49 16:27
11	05:32 07:04-07:57/53 20:27	06:00 06:56-08:08/72 19:59	06:30 19:12	07:00 07:20-07:40/20 18:22	06:35 07:04-07:27/23 16:41	07:08 08:20-09:09/49 16:27
12	05:33 07:03-07:57/54 20:27	06:01 06:57-08:08/71 19:58	06:31 19:10	07:01 07:22-07:41/19 18:20	06:37 07:05-07:25/20 16:40	07:08 08:20-09:10/50 16:27
13	05:34 07:03-07:58/55 20:26	06:02 06:57-08:07/70 19:56	06:32 19:08	07:02 07:23-07:41/18 18:19	06:38 07:08-07:23/15 16:39	07:09 08:21-09:10/49 16:27
14	05:34 07:03-07:59/56 20:26	06:03 06:57-08:07/70 19:55	06:33 19:07	07:03 07:24-07:40/16 18:17	06:39 07:12-07:21/9 16:38	07:10 08:21-09:11/50 16:27
15	05:35 07:03-08:00/57 20:25	06:04 06:57-08:07/70 19:54	06:34 19:05	07:05 07:25-07:40/15 18:16	06:40 16:37	07:11 08:21-09:11/50 16:28
16	05:36 07:02-08:00/58 20:24	06:05 06:58-08:06/68 19:52	06:35 19:03	07:06 07:26-07:39/13 18:14	06:41 16:36	07:11 08:22-09:12/50 16:28
17	05:37 07:02-08:01/59 20:24	06:06 06:58-08:06/68 19:51	06:36 19:02	07:07 07:27-07:37/10 18:13	06:43 16:36	07:12 08:22-09:13/51 16:28
18	05:37 07:01-08:02/61 20:23	06:07 06:58-08:05/67 19:50	06:37 19:00	07:08 07:28-07:36/8 18:11	06:44 08:33-08:39/6 16:35	07:13 08:22-09:13/51 16:28
19	05:38 07:01-08:02/61 20:22	06:08 06:59-08:04/65 19:48	06:38 18:58	07:09 07:30-07:34/4 18:10	06:45 08:28-08:44/16 16:34	07:13 08:23-09:14/51 16:29
20	05:39 07:00-08:02/62 20:22	06:09 06:59-08:04/65 19:47	06:39 18:57	07:10 08:01-08:31/30 18:08	06:46 08:26-08:47/21 16:33	07:14 08:23-09:14/51 16:29
21	05:40 07:00-08:03/63 20:21	06:09 07:00-08:03/63 19:45	06:40 18:55	07:11 08:00-08:31/31 18:07	06:47 08:24-08:49/25 16:33	07:15 08:24-09:15/51 16:30
22	05:41 07:00-08:04/64 20:20	06:10 07:01-08:02/61 19:44	06:41 18:53	07:12 07:58-08:32/34 18:05	06:48 08:23-08:50/27 16:32	07:15 08:24-09:15/51 16:30
23	05:42 07:00-08:04/64 20:19	06:11 07:01-08:01/60 19:42	06:42 18:52	07:13 07:57-08:33/36 18:04	06:49 08:22-08:53/31 16:31	07:16 08:25-09:16/51 16:31
24	05:43 07:00-08:05/65 20:19	06:12 07:02-07:59/57 19:41	06:43 18:50	07:14 07:56-08:33/37 18:02	06:51 08:21-08:54/33 16:31	07:16 08:25-09:16/51 16:31
25	05:43 06:59-08:06/67 20:18	06:13 07:02-07:57/55 19:39	06:44 18:48	06:16 06:56-07:34/38 17:01	06:52 08:20-08:55/35 16:30	07:16 08:25-09:16/51 16:32
26	05:44 06:59-08:06/67 20:17	06:14 07:03-07:56/53 19:38	06:45 18:47	06:17 06:56-07:34/38 17:00	06:53 08:20-08:57/37 16:30	07:17 08:26-09:17/51 16:32
27	05:45 06:58-08:06/68 20:16	06:15 07:05-07:54/49 19:36	06:46 18:45	06:18 06:55-07:34/39 16:58	06:54 08:19-08:58/39 16:29	07:17 08:27-09:17/50 16:33
28	05:46 06:58-08:06/68 20:15	06:16 07:06-07:52/46 19:35	06:47 07:22-07:32/10 18:43	06:19 06:55-07:34/39 16:57	06:55 08:19-08:59/40 16:29	07:18 08:27-09:17/50 16:34
29	05:47 06:58-08:07/69 20:14	06:17 07:08-07:50/42 19:33	06:48 07:20-07:34/14 18:41	06:20 06:54-07:34/40 16:56	06:56 08:19-09:00/41 16:29	07:18 08:28-09:18/50 16:34
30	05:48 06:58-08:07/69 20:13	06:18 07:10-07:47/37 19:31	06:49 07:18-07:36/18 18:40	06:21 06:55-07:35/40 16:54	06:57 08:19-09:01/42 16:28	07:18 08:29-09:18/49 16:35
31	05:49 06:58-08:08/70 20:12	06:19 07:12-07:44/32 19:30		06:22 06:55-07:35/40 16:53		07:18 08:29-09:19/50 16:36
Ore potenziali eliofanìa	458	427	375	346	299	289
Somma minuti d'ombra	1797	1957	83	859	803	1522

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm)inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 11 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (11)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno
1	07:19 16:37	07:05 17:11	06:30 17:45	06:40 19:18	05:54 19:50	06:14-07:31/77 20:19
2	07:19 16:38	07:05 17:12	06:28 17:46	06:38 19:19	05:53 19:51	06:14-07:32/78 20:20
3	07:19 16:39	07:04 17:13	06:27 17:47	06:36 19:20	05:52 19:52	06:14-07:32/78 20:20
4	07:19 16:40	07:03 17:15	06:25 17:48	06:35 19:21	05:50 19:53	06:14-07:32/78 20:21
5	07:19 16:40	07:02 17:16	06:24 17:49	06:33 19:22	06:52-06:54/2 19:54	06:14-07:32/78 20:22
6	07:19 16:41	07:00 17:17	06:22 17:50	06:31 19:23	06:50-06:55/5 19:55	06:14-07:32/78 20:22
7	07:19 16:42	06:59 17:18	06:21 17:51	06:30 19:24	06:48-06:56/8 19:56	06:13-07:31/78 20:23
8	07:19 16:43	06:58 17:20	06:19 17:52	06:28 19:26	06:47-06:57/10 19:57	06:13-07:31/78 20:24
9	07:19 16:44	06:57 17:21	06:17 17:54	06:27 19:27	06:45-06:57/12 19:58	06:13-07:31/78 20:24
10	07:18 16:45	06:56 17:22	06:16 17:55	06:25 19:28	06:44-06:58/14 19:59	06:14-07:30/76 20:25
11	07:18 16:46	06:55 17:23	06:14 17:56	06:23 19:29	06:42-06:57/15 20:00	06:14-07:30/76 20:25
12	07:18 16:47	06:54 17:24	06:13 17:57	06:22 19:30	06:40-06:56/16 20:01	06:14-07:30/76 20:26
13	07:18 16:48	06:52 17:26	06:11 17:58	06:20 19:31	06:39-06:56/17 20:02	06:15-07:30/75 20:26
14	07:17 16:50	06:51 17:27	06:09 17:59	06:19 19:32	06:37-06:55/18 20:03	06:15-07:29/74 20:27
15	07:17 16:51	06:50 17:28	06:08 18:00	06:17 19:33	06:36-07:18/42 20:04	06:16-07:29/73 20:27
16	07:17 16:52	06:48 17:29	06:06 18:01	06:16 19:34	06:34-07:20/46 20:05	06:16-07:28/72 20:27
17	07:16 16:53	06:47 17:31	06:04 18:02	06:14 19:35	06:33-07:23/50 20:06	06:18-07:29/71 20:28
18	07:16 16:54	06:46 17:32	06:03 18:03	06:13 19:36	06:31-06:43/12 20:07	06:18-07:28/70 20:28
19	07:15 16:55	06:44 17:33	06:01 18:04	06:11 19:37	06:30-07:26/56 20:08	06:19-07:27/68 20:28
20	07:15 16:56	06:43 17:34	06:00 18:06	06:10 19:38	06:28-07:26/58 20:09	06:20-07:27/67 20:29
21	07:14 16:58	06:42 17:35	05:58 18:07	06:08 19:39	06:27-07:28/61 20:10	06:21-07:26/65 20:29
22	07:13 16:59	06:40 17:36	05:56 18:08	06:07 19:40	06:26-07:28/62 20:11	06:23-07:26/63 20:29
23	07:13 17:00	06:39 17:38	05:55 18:09	06:05 19:41	06:24-07:29/65 20:12	06:24-07:25/61 20:29
24	07:12 17:01	06:37 17:39	05:53 18:10	06:04 19:42	06:23-07:30/67 20:13	06:26-07:24/58 20:30
25	07:11 17:02	06:36 17:40	05:51 18:11	06:02 19:43	06:21-07:30/69 20:14	06:30-06:36/6 20:30
26	07:11 17:04	06:34 17:41	05:50 18:12	06:01 19:44	06:20-07:31/71 20:15	06:38-07:24/46 20:30
27	07:10 17:05	06:33 17:42	05:48 18:13	06:00 19:45	06:19-07:31/72 20:16	06:38-07:23/45 20:30
28	07:09 17:06	06:31 17:43	05:46 18:14	05:58 19:46	06:17-07:31/74 20:17	06:39-07:23/44 20:30
29	07:08 17:07		06:45 19:15	05:57 19:48	06:16-07:32/76 20:18	06:39-07:22/43 20:30
30	07:07 17:08		06:43 19:16	05:56 19:49	06:16-07:32/76 20:19	06:41-07:22/41 20:30
31	07:06 17:10		06:41 19:17		06:42-07:22/40 20:18	
Ore potenziali eliofanía	298	298	369	398	448	451
Somma minuti d'ombra	0	184	0	1129	2059	730

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettoriWTG: 11 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (11)
Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	05:26 06:55-07:20/25 20:30	05:50 06:25-07:41/76 20:11	06:20 06:41-06:56/15 19:28	06:50 18:38	06:24 16:52	06:58 16:28
2	05:27 06:54-07:20/26 20:30	05:51 06:24-07:41/77 20:10	06:21 06:42-06:56/14 19:27	06:51 18:36	06:25 16:51	06:59 16:28
3	05:27 06:54-07:21/27 20:29	05:52 06:24-07:41/77 20:09	06:22 06:43-06:55/12 19:25	06:52 18:35	06:26 16:49	07:00 16:27
4	05:28 06:53-07:22/29 20:29	05:53 06:24-07:41/77 20:08	06:23 06:44-06:54/10 19:23	06:53 18:33	06:27 16:48	07:01 16:27
5	05:28 06:53-07:23/30 20:29	05:54 06:24-07:42/78 20:07	06:24 06:45-06:53/8 19:22	06:54 18:32	06:28 16:47	07:02 16:27
6	05:29 06:52-07:23/31 20:29	05:55 06:24-07:42/78 20:05	06:25 06:46-06:52/6 19:20	06:55 18:30	06:30 16:46	07:03 16:27
7	05:30 06:52-07:25/33 20:28	05:56 06:23-07:42/79 20:04	06:26 06:47-06:49/2 19:18	06:56 18:28	06:31 16:45	07:04 16:27
8	05:30 06:52-07:26/34 20:28	05:57 06:22-07:41/79 20:03	06:27 19:17	06:57 18:27	06:32 16:44	07:05 16:27
9	05:31 06:51-07:26/35 20:28	05:58 06:22-07:41/79 20:02	06:28 19:15	06:58 18:25	06:33 16:43	07:06 16:27
10	05:31 06:51-07:27/36 20:27	05:59 06:23-07:40/77 20:00	06:29 19:14	06:59 18:23	06:34 16:42	07:07 16:27
11	05:32 06:51-07:28/37 20:27	06:00 06:23-07:40/77 19:59	06:30 19:12	07:00 18:22	06:35 16:41	07:08 16:27
12	05:33 06:49-07:29/40 20:27	06:01 06:23-07:40/77 19:58	06:31 19:10	07:01 18:20	06:37 16:40	07:08 16:27
13	05:34 06:49-07:30/41 20:26	06:02 06:23-07:40/77 19:56	06:32 19:08	07:02 18:19	06:38 16:39	07:09 16:27
14	05:34 06:49-07:31/42 20:26	06:03 06:24-07:39/75 19:55	06:33 19:07	07:03 07:34-07:43/9 18:17	06:39 16:38	07:10 16:27
15	05:35 06:49-07:32/43 20:25	06:04 06:25-07:39/74 19:54	06:34 19:05	07:05 07:32-07:45/13 18:16	06:40 16:37	07:11 16:27
16	05:36 06:47-07:32/45 20:24	06:05 06:26-07:38/72 19:52	06:35 19:03	07:06 07:30-07:46/16 18:14	06:41 16:36	07:11 16:28
17	05:37 06:47-07:33/46 20:24	06:06 06:27-07:37/70 19:51	06:36 19:02	07:07 07:28-07:47/19 18:13	06:43 16:36	07:12 16:28
18	05:37 06:47-07:34/47 20:23	06:07 06:28-07:37/69 19:50	06:37 19:00	07:08 07:28-07:47/19 18:11	06:44 16:35	07:13 16:28
19	05:38 06:38-07:35/57 20:22	06:08 06:29-07:36/67 19:48	06:38 18:58	07:09 07:29-07:47/18 18:10	06:45 16:34	07:13 16:29
20	05:39 06:35-07:34/59 20:22	06:08 06:30-07:35/65 19:47	06:39 18:57	07:10 07:31-07:48/17 18:08	06:46 16:33	07:14 16:29
21	05:40 06:33-07:35/62 20:21	06:09 06:31-07:34/63 19:45	06:40 18:55	07:11 07:32-07:48/16 18:07	06:47 16:33	07:15 16:30
22	05:41 06:32-07:36/64 20:20	06:10 06:32-07:32/60 19:44	06:41 18:53	07:12 07:33-07:48/15 18:05	06:48 16:32	07:15 16:30
23	05:42 06:31-07:37/66 20:19	06:11 06:33-07:31/58 19:42	06:42 18:52	07:13 07:34-07:47/13 18:04	06:49 16:31	07:16 16:31
24	05:43 06:30-07:38/68 20:19	06:12 06:34-06:47/13 19:41	06:43 18:50	07:14 07:35-07:46/11 18:02	06:51 16:31	07:16 16:31
25	05:43 06:29-07:38/69 20:18	06:13 06:35-06:46/11 19:39	06:44 18:48	06:16 06:37-06:46/9 17:01	06:52 16:30	07:16 16:32
26	05:44 06:29-07:39/70 20:17	06:14 06:35-07:24/49 19:38	06:45 18:47	06:17 06:38-06:44/6 17:00	06:53 16:30	07:17 16:32
27	05:45 06:27-07:38/71 20:16	06:15 06:36-07:22/46 19:36	06:46 18:45	06:18 06:39-06:42/3 16:58	06:54 16:29	07:17 16:33
28	05:46 06:26-07:39/73 20:15	06:16 06:37-07:19/42 19:35	06:47 18:43	06:19 16:57	06:55 16:29	07:18 16:34
29	05:47 06:26-07:39/73 20:14	06:17 06:38-06:56/18 19:33	06:48 18:41	06:20 16:56	06:56 16:29	07:18 16:34
30	05:48 06:25-07:40/75 20:13	06:18 06:39-06:56/17 19:31	06:49 18:40	06:21 16:54	06:57 16:28	07:18 16:35
31	05:49 06:25-07:40/75 20:12	06:19 06:40-06:56/16 19:30		06:22 16:53		07:18 16:36
Ore potenziali eliofanía	458	427	375	346	299	289
Somma minuti d'ombra	1529	1987	67	184	0	0

Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

SHADOW - Calendario per WTG

Calcolo: Flicker Altamura su recettori WTG: 12 - Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0 m) (12 Assunzioni sui calcoli d'ombra

I tempi calcolati sono relativi al "caso peggiore", sulla base delle seguenti assunzioni:

- Il sole splende tutto il di, dall'alba al tramonto
- Il piano del rotore è sempre perpendicolare alla linea tra WTG e sole
- La turbina è costantemente operativa

	Gennaio	Febbraio	Marzo	Aprile	Maggio	Giugno	Luglio	Agosto	Settembre	Ottobre	Novembre	Dicembre
1	07:19 08:06-08:17/11 16:37	07:05 17:11	06:30 17:45	06:40 19:18	05:54 19:50	05:26 20:19	05:26 05:49-05:56/7 20:30	05:50 20:11	06:20 19:28	06:50 18:38	06:24 16:52	06:58 16:28
2	07:19 08:08-08:16/8 16:38	07:05 17:12	06:28 17:46	06:38 19:19	05:53 19:51	05:25 20:20	05:27 05:49-05:55/6 20:30	05:51 20:10	06:21 19:27	06:51 18:36	06:25 16:51	06:59 16:28
3	07:19 08:10-08:14/4 16:39	07:04 17:13	06:27 17:47	06:36 19:20	05:52 19:52	05:25 20:20	05:27 05:50-05:56/6 20:29	05:52 20:09	06:22 19:25	06:52 18:35	06:26 16:49	07:00 16:27
4	07:19 16:39	07:03 17:15	06:25 17:48	06:35 19:21	05:50 19:53	05:24 05:46-05:47/1 20:21	05:28 05:50-05:55/5 20:29	05:53 20:08	06:23 19:23	06:53 18:33	06:27 16:48	07:01 16:27
5	07:19 16:40	07:01 17:16	06:24 17:49	06:33 19:22	05:49 19:54	05:24 05:46-05:48/2 20:22	05:28 05:51-05:55/4 20:29	05:54 20:06	06:24 19:22	06:54 18:32	06:28 16:47	07:02 16:27
6	07:19 16:41	07:00 17:17	06:22 17:50	06:31 19:23	05:48 19:55	05:24 05:45-05:48/3 20:22	05:29 05:51-05:55/4 20:29	05:55 20:05	06:25 19:20	06:55 18:30	06:30 16:46	07:03 16:27
7	07:19 16:42	06:59 17:18	06:21 17:51	06:30 19:24	05:47 19:56	05:23 05:45-05:49/4 20:23	05:30 05:52-05:55/3 20:28	05:56 20:04	06:26 19:18	06:56 18:28	06:31 16:45	07:04 16:27
8	07:19 16:43	06:58 17:19	06:19 17:52	06:28 19:26	05:46 19:57	05:23 05:45-05:50/5 20:24	05:30 05:53-05:55/2 20:28	05:57 20:03	06:27 19:17	06:57 18:27	06:32 16:44	07:05 16:27
9	07:19 16:44	06:57 17:21	06:17 17:54	06:27 19:27	05:44 19:58	05:23 05:45-05:51/6 20:24	05:31 20:28	05:58 20:02	06:28 19:15	06:58 18:25	06:33 16:43	07:06 08:00-08:03/3 16:27
10	07:18 16:45	06:56 17:22	06:16 17:55	06:25 19:28	05:43 19:59	05:23 05:45-05:51/6 20:25	05:31 20:27	05:59 20:00	06:29 19:13	06:59 18:23	06:34 16:42	07:07 07:57-08:05/8 16:27
11	07:18 16:46	06:55 17:23	06:14 17:56	06:23 19:29	05:42 20:00	05:23 05:45-05:52/7 20:25	05:32 20:27	06:00 19:59	06:30 19:12	07:00 18:22	06:35 16:41	07:08 07:57-08:07/10 16:27
12	07:18 16:47	06:54 17:24	06:13 17:57	06:22 19:30	05:41 20:01	05:23 05:45-05:52/7 20:26	05:33 20:27	06:01 19:58	06:31 19:10	06:37 18:20	06:32 16:40	07:08 07:56-08:08/12 16:27
13	07:18 16:48	06:52 17:26	06:11 17:58	06:20 19:31	05:40 20:02	05:22 05:45-05:53/8 20:26	05:34 20:26	06:02 19:56	06:32 19:08	07:02 18:19	06:38 16:39	07:09 07:56-08:09/13 16:27
14	07:17 16:49	06:51 17:27	06:09 17:59	06:19 19:32	05:39 20:03	05:22 05:45-05:53/8 20:27	05:34 20:26	06:03 19:55	06:33 19:07	07:03 18:17	06:39 16:38	07:10 07:56-08:11/15 16:27
15	07:17 16:51	06:50 17:28	06:08 18:00	06:17 19:33	05:38 20:04	05:22 05:45-05:53/8 20:27	05:35 20:25	06:04 19:54	06:34 19:05	07:04 18:16	06:40 16:37	07:11 07:56-08:11/15 16:27
16	07:17 16:52	06:48 17:29	06:06 18:01	06:16 19:34	05:37 20:05	05:22 05:45-05:54/9 20:27	05:36 20:24	06:05 19:52	06:35 19:03	07:06 18:14	06:41 16:36	07:11 07:56-08:12/16 16:28
17	07:16 16:53	06:47 17:30	06:04 18:02	06:14 19:35	05:36 20:06	05:22 05:45-05:54/9 20:28	05:37 20:24	06:05 19:51	06:36 19:02	07:07 18:13	06:42 16:35	07:12 07:57-08:13/16 16:28
18	07:16 16:54	06:46 17:32	06:03 18:03	06:13 19:36	05:35 20:07	05:23 05:45-05:54/9 20:28	05:37 20:23	06:06 19:50	06:37 19:00	07:08 18:11	06:44 16:35	07:13 07:56-08:13/17 16:28
19	07:15 16:55	06:44 17:33	06:01 18:04	06:11 19:37	05:34 20:08	05:23 05:45-05:54/9 20:28	05:38 20:22	06:07 19:48	06:38 18:58	07:09 18:10	06:45 16:34	07:13 07:57-08:14/17 16:29
20	07:15 16:56	06:43 17:34	05:59 18:05	06:10 19:38	05:34 20:09	05:23 05:45-05:54/9 20:29	05:39 20:22	06:08 19:47	06:39 18:57	07:10 18:08	06:46 16:33	07:14 07:57-08:14/17 16:29
21	07:14 16:57	06:42 17:35	05:58 18:07	06:08 19:39	05:33 20:10	05:23 05:45-05:54/9 20:29	05:40 20:21	06:09 19:45	06:40 18:55	07:11 18:07	06:47 16:33	07:15 07:58-08:15/17 16:30
22	07:13 16:59	06:40 17:36	05:56 18:08	06:07 19:40	05:32 20:10	05:23 05:46-05:55/9 20:29	05:41 20:20	06:10 19:44	06:41 18:53	07:12 18:05	06:48 16:32	07:15 07:58-08:15/17 16:30
23	07:13 17:00	06:39 17:38	05:55 18:09	06:05 19:41	05:31 20:11	05:23 05:46-05:55/9 20:29	05:42 20:19	06:11 19:42	06:42 18:52	07:13 18:04	06:49 16:31	07:16 07:59-08:16/17 16:31
24	07:12 17:01	06:37 17:39	05:53 18:10	06:04 19:42	05:30 20:12	05:24 05:46-05:55/9 20:30	05:43 20:19	06:12 19:41	06:43 18:50	07:14 18:02	06:51 16:31	07:16 07:59-08:16/17 16:31
25	07:11 17:02	06:36 18:11	05:51 19:43	06:02 19:43	05:30 20:13	05:24 05:46-05:55/9 20:30	05:43 20:18	06:13 19:39	06:44 18:48	07:15 17:01	06:52 16:30	07:16 08:00-08:17/17 16:32
26	07:11 17:03	06:34 18:12	05:50 19:44	06:01 19:44	05:29 20:14	05:24 05:47-05:56/9 20:30	05:44 20:17	06:14 19:38	06:45 18:46	07:16 17:00	06:53 16:30	07:17 08:01-08:17/16 16:32
27	07:10 17:05	06:33 17:42	05:48 18:13	06:00 19:45	05:28 20:15	05:25 05:47-05:56/9 20:30	05:45 20:16	06:15 19:36	06:46 18:45	07:17 16:58	06:54 16:29	07:17 08:01-08:17/16 16:33
28	07:09 17:06	06:31 17:43	05:46 18:14	05:58 19:46	05:28 20:16	05:25 05:47-05:55/8 20:30	05:46 20:15	06:16 19:35	06:47 18:43	07:18 16:57	06:55 16:29	07:18 08:02-08:17/15 16:34
29	07:08 17:07		06:45 19:15	05:57 19:48	05:27 20:16	05:25 05:48-05:56/8 20:30	05:47 20:14	06:17 19:33	06:48 18:41	07:19 16:56	06:56 16:28	07:18 08:03-08:18/15 16:34
30	07:07 17:08		06:43 19:16	05:56 19:49	05:27 20:17	05:26 05:48-05:55/7 20:30	05:48 20:13	06:18 19:31	06:49 18:40	07:20 16:54	06:57 16:28	07:18 08:04-08:17/13 16:35
31	07:06 17:10		06:41 19:17		05:26 20:18		05:49 20:12	06:19 19:30	06:22 16:53	07:18 16:36	06:58 16:28	07:18 08:05-08:17/12 16:36
Ore potenziali eliofanía	298	298	369	398	448	451	458	427	375	346	299	331
Somma minuti d'ombra	23	0	0	0	0	196	37	0	0	0	0	331

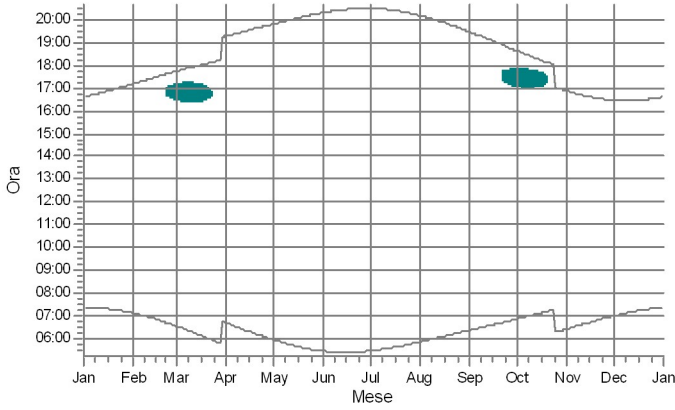
Legenda della tabella:

Giorno del mese Alba (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra
Tramonto (hh:mm) Inizio ombreggiamento (hh:mm)-Fine ombreggiamento (hh:mm)/Minuti d'ombra

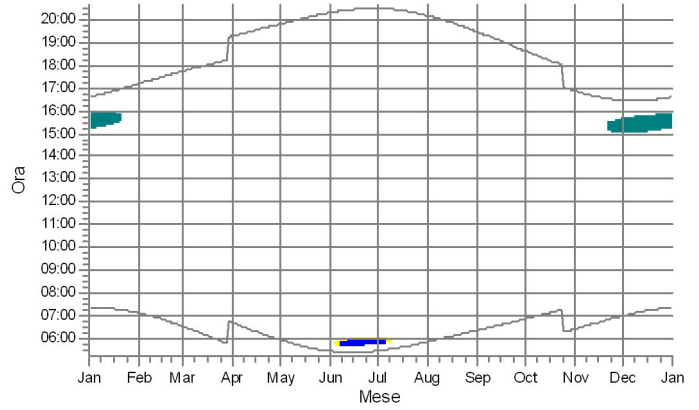
SHADOW - Calendario per WTG, grafico

Calcolo: Flicker Altamura su recettori

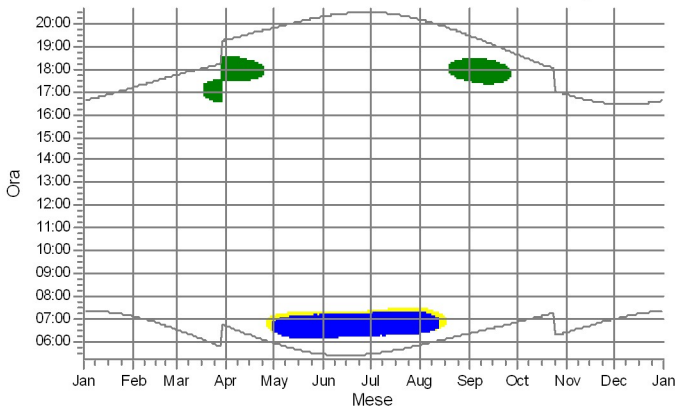
01: Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0



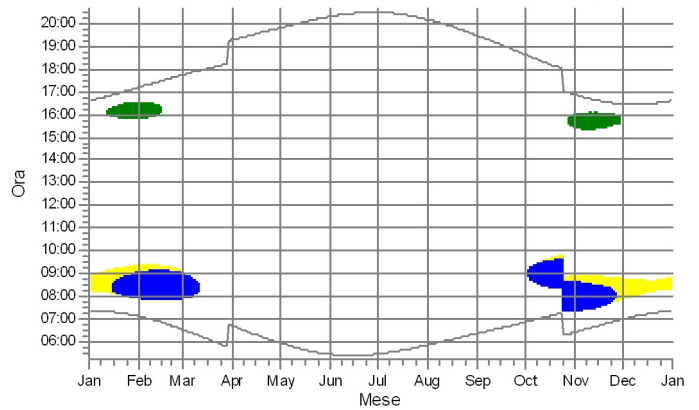
02: Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0



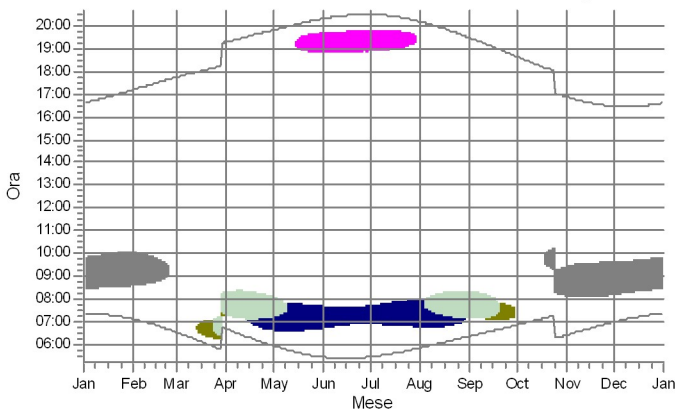
03: Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0



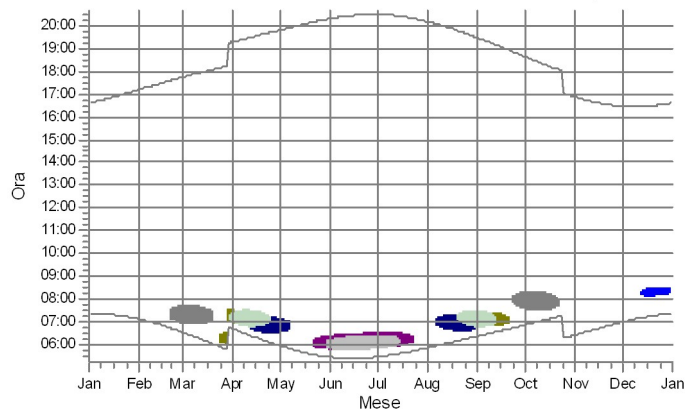
04: Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0



05: Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0



06: Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0



Recettori d'ombra

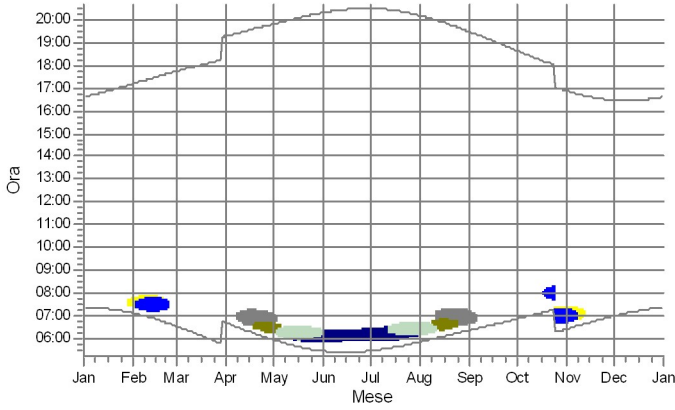
- R01: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (1)
- R02: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (2)
- R03: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (3)
- R04: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (4)
- R05: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (5)
- R06: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (8)

- R07: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (10)
- R10: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (11)
- R11: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (12)
- R12: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (13)
- R14: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (9)

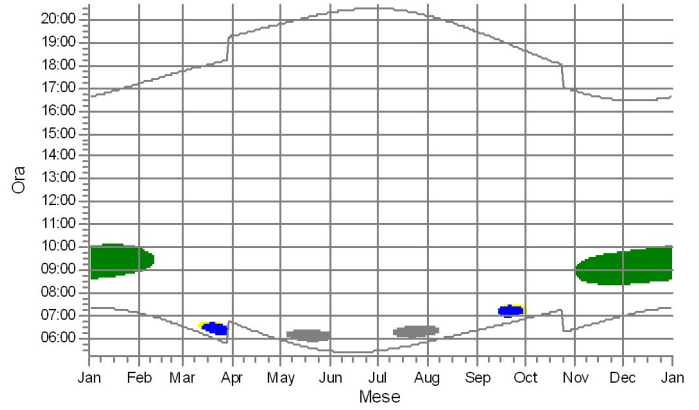
SHADOW - Calendario per WTG, grafico

Calcolo: Flicker Altamura su recettori

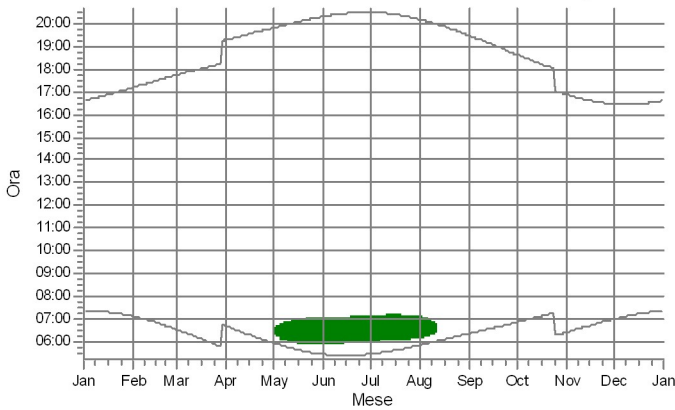
07: Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0



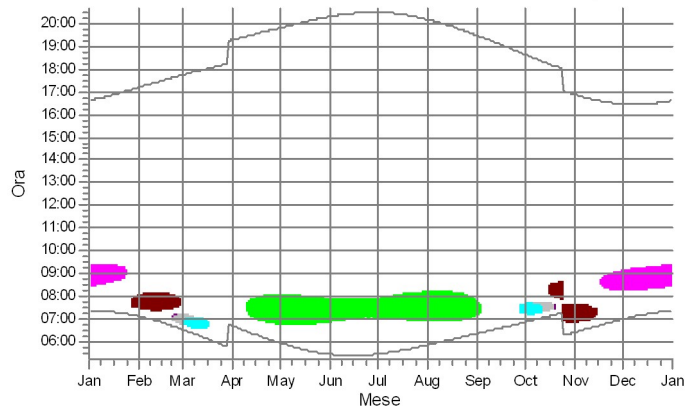
08: Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0



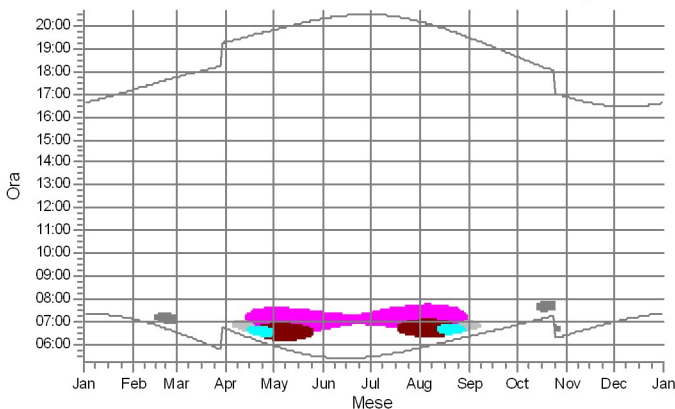
09: Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0



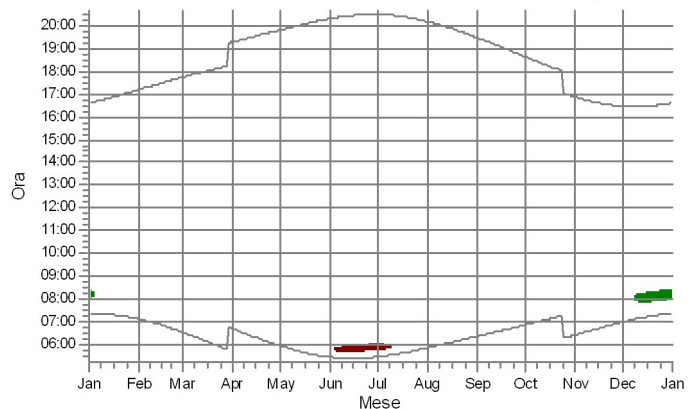
10: Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0



11: Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0



12: Siemens Gamesa SG 6.0-170 6200 170.0 !O! hub: 165,0 m (TOT: 250,0

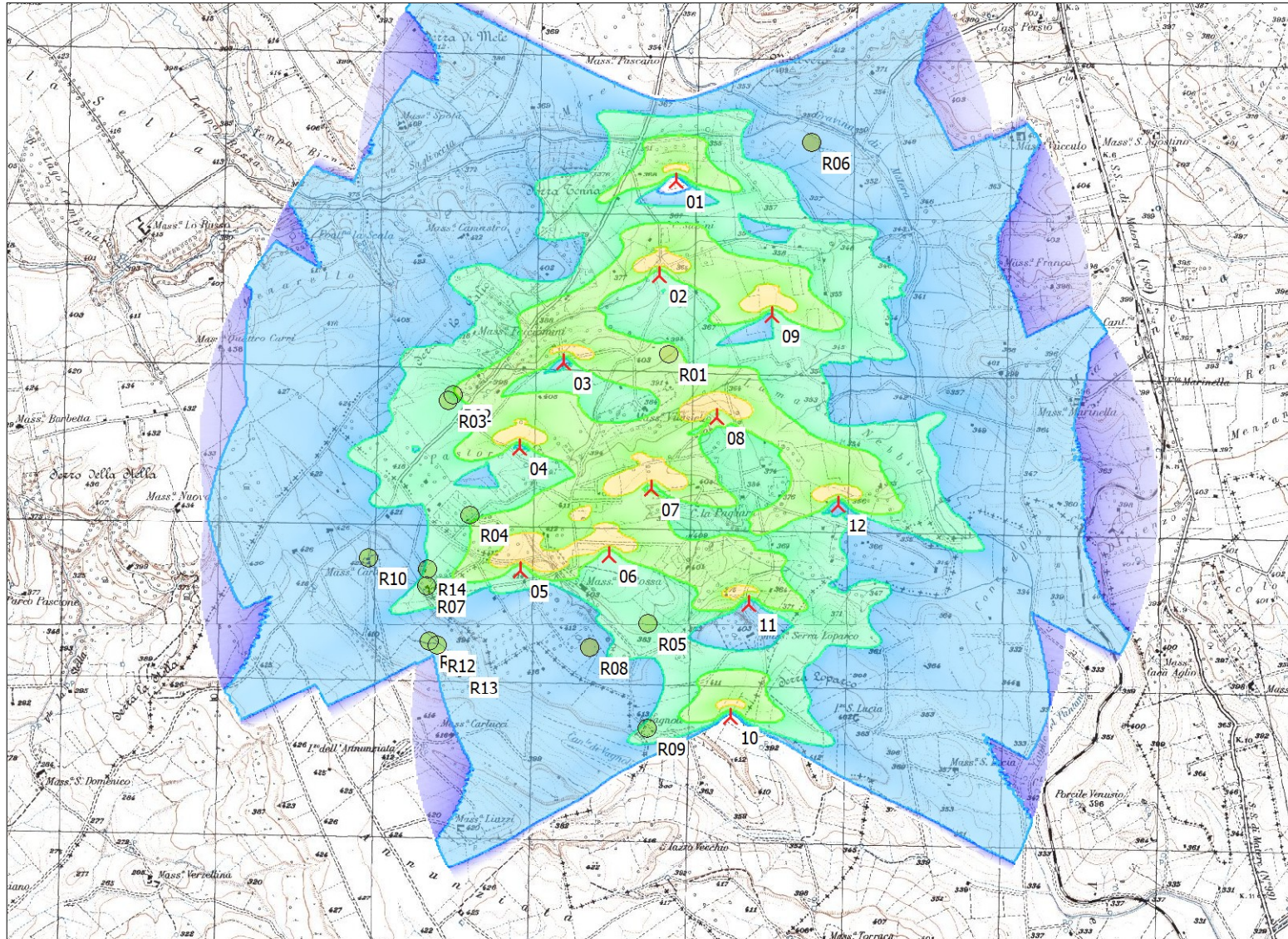


Recettori d'ombra

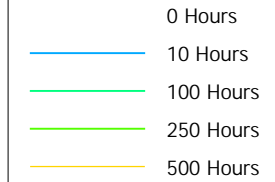
- R01: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (1)
- R02: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (2)
- R03: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (3)
- R04: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (4)
- R05: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (5)
- R07: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (10)
- R08: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (6)

- R09: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (7)
- R10: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (11)
- R11: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (12)
- R12: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (13)
- R13: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (14)
- R14: Shadow Receptor: 2,0 × 2,0 Azimuth: 0,0° Slope: 90,0° (9)

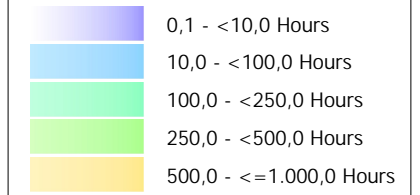
Progetto:
Altamura



Ore per anno, caso peggiore



Ore per anno, caso peggiore



SHADOW -
Mappa
Calcolo:
Flicker Altamura su recettori

Utente autorizzato:
Studio Tecnico BFP s.r.l.
Via Napoli 363/1
IT-70123 Bari
+39 080 5046361
Antonio Crisafulli / crisafulli@studiobfp.com
Redatto il:
04/02/2021 13:02/3.4.415

0 500 1000 1500 2000 m

Mappa: IGM maps 1:25000, Scala di stampa 1:40.000, Centro mappa UTM (north)-WGS84 Zone: 33 Est: 628.630 Nord: 4.513.090

▲ Nuova WTG

● Recettore d'ombra

Fonte altimetria:: Height Contours: CONTOURLINE_ONLINEDATA_0.wpo (1)