

Rendimento di FV in rete

NERVI EST

PVGIS stime di generazione elettricità solare

Luogo: 45°26'37" Nord, 8°37'53" Est, Quota: 152 m.s.l.m.,

Database di radiazione solare usato: PVGIS-CMSAF

Potenza nominale del sistema FV: 31.9 kW (silicio cristallino)

Stime di perdite causata da temperatura e irradianza bassa: 11.8% (usando temperatura esterna locale)

Stima di perdita causata da effetti di riflessione: 4.0%

Altre perdite (cavi, inverter, ecc.): 14.0%

Perdite totali del sistema FV: 27.2%

Sistema fisso: inclinazione=5 gradi, orientamento=-108 gradi				
Mese	Ed	Em	Hd	Hm
Gen	28.80	894	1.22	37.9
Feb	54.50	1530	2.24	62.7
Mar	91.70	2840	3.80	118
Apr	113.00	3380	4.76	143
Mag	140.00	4350	6.09	189
Giu	153.00	4580	6.75	202
Lug	158.00	4880	7.03	218
Ago	130.00	4030	5.78	179
Set	96.60	2900	4.19	126
Ott	58.20	1800	2.47	76.7
Nov	32.40	973	1.39	41.6
Dic	24.80	769	1.08	33.6
Anno	90.20	2740	3.91	119
Totale per l'anno		32900		1430

Ed: Produzione elettrica media giornaliera dal sistema indicata (kWh)

Em: Produzione elettrica media mensile dal sistema indicata (kWh)

Hd: Media dell'irraggiamento giornaliero al metro quadro ricevuto dai pannelli del sistema (kWh/m2)

Hm: Media dell'irraggiamento al metro quadro ricevuto dai pannelli del sistema (kWh/m2)

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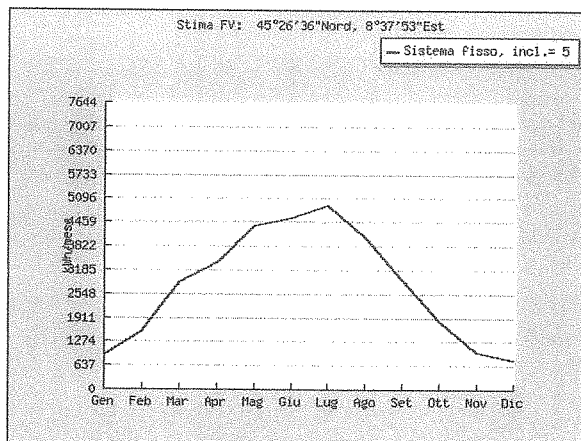
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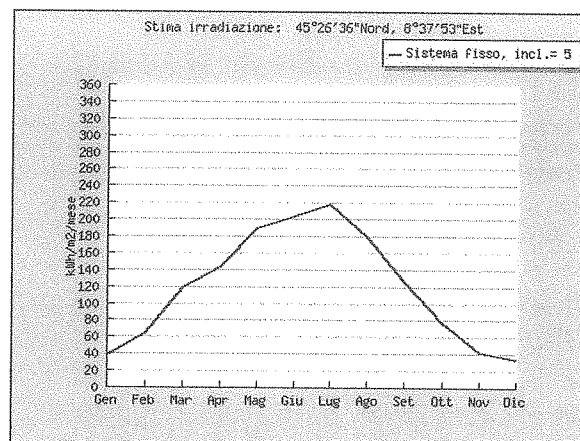
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Produzione di energia mensile da un sistema FV fisso



Irraggiamento mensile nel piano per angolo fisso

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Irraggiamento globale per il luogo scelto

Luogo: 45°26'37" Nord, 8°37'53" Est, Quota: 152 m.s.l.m.,

Inclinazione ottimale è: 36 gradi

Irraggiamento perso annualmente a causa di ombre (orizzontale): 0.0 %

Mese	Hh	Hopt	H(90)	lopt	T24h	NDD
Gen	1270	2170	2220	65	4.7	433
Feb	2320	3660	3450	59	6.2	339
Mar	3890	5150	4060	47	9.7	221
Apr	4830	5440	3380	32	12.5	98
Mag	6150	6200	3120	20	17.5	10
Giu	6790	6520	2900	13	21.3	0
Lug	7090	6970	3170	16	23.1	0
Ago	5860	6340	3560	27	22.6	1
Set	4270	5340	3870	42	19.1	36
Ott	2540	3580	3110	53	14.8	189
Nov	1440	2370	2360	63	9.9	363
Dic	1140	2130	2310	68	5.5	453
Anno	3980	4660	3120	36	13.9	2143

Hh: Irraggiamento su piano orizzontale (Wh/m2/giorno)

Hopt: Irraggiamento su piano ad inclinazione ottimale (Wh/m2/giorno)

H(90): Irraggiamento su piano ad angolo:90gradi (Wh/m2/giorno)

lopt: Inclinazione ottimale (gradi)

T24h: Temperatura media giornaliera (24h) (°C)

NDD: Numero di gradi-giorni di riscaldamento (-)

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NERVI OVEST

Rendimento di FV in rete

PVGIS stime di generazione elettricità solare

Luogo: 45°26'36" Nord, 8°37'53" Est, Quota: 152 m.s.l.m.,

Database di radiazione solare usato: PVGIS-CMSAF

Potenza nominale del sistema FV: 31.9 kW (silicio cristallino)

Stime di perdite causata da temperatura e irradianza bassa: 12.1% (usando temperatura esterna locale)

Stima di perdita causata da effetti di riflessione: 3.7%

Altre perdite (cavi, inverter, ecc.): 14.0%

Perdite totali del sistema FV: 27.2%

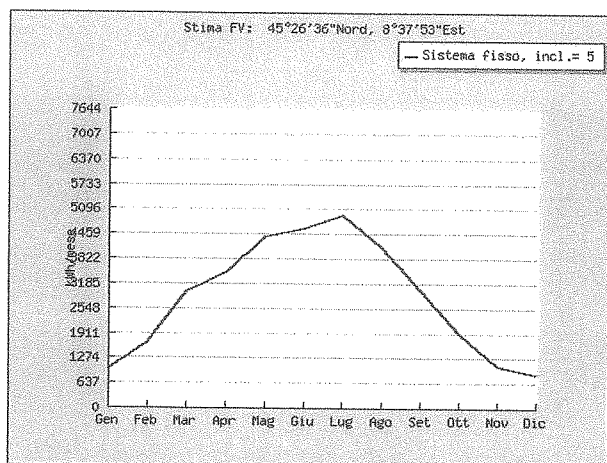
Sistema fisso: inclinazione=5 gradi, orientamento=72 gradi				
Mese	Ed	Em	Hd	Hm
Gen	31.70	981	1.32	40.8
Feb	58.50	1640	2.39	66.9
Mar	95.50	2960	3.96	123
Apr	115.00	3450	4.87	146
Mag	142.00	4390	6.17	191
Giu	153.00	4600	6.80	204
Lug	159.00	4920	7.11	220
Ago	132.00	4100	5.90	183
Set	99.80	2990	4.34	130
Ott	61.30	1900	2.60	80.5
Nov	35.30	1060	1.49	44.6
Dic	27.90	865	1.18	36.7
Anno	92.70	2820	4.02	122
Totale per l'anno		33800		1470

Ed: Produzione elettrica media giornaliera dal sistema indicata (kWh)

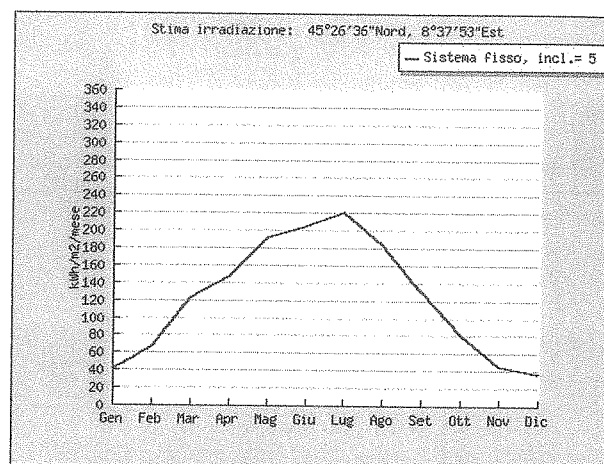
Em: Produzione elettrica media mensile dal sistema indicata (kWh)

Hd: Media dell'irraggiamento giornaliero al metro quadro ricevuto dai pannelli del sistema (kWh/m2)

Hm: Media dell'irraggiamento al metro quadro ricevuto dai pannelli del sistema (kWh/m2)



Produzione di energia mensile da un sistema FV fisso



Irraggiamento mensile nel piano per angolo fisso

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Irraggiamento globale per il luogo scelto

Luogo: 45°26'36" Nord, 8°37'53" Est, Quota: 152 m.s.l.m.,

Inclinazione ottimale è: 36 gradi

Irraggiamento perso annualmente a causa di ombre (orizzontale): 0.0 %

Mese	Hh	Hopt	H(90)	lopt	T24h	NDD
Gen	1270	2170	2220	65	4.7	433
Feb	2320	3660	3450	59	6.2	339
Mar	3890	5150	4060	47	9.7	221
Apr	4830	5440	3380	32	12.5	98
Mag	6150	6200	3120	20	17.5	10
Giu	6790	6520	2900	13	21.3	0
Lug	7090	6970	3170	16	23.1	0
Ago	5860	6340	3560	27	22.6	1
Set	4270	5340	3870	42	19.1	36
Ott	2540	3580	3110	53	14.8	189
Nov	1440	2370	2360	63	9.9	363
Dic	1140	2130	2310	68	5.5	453
Anno	3980	4660	3120	36	13.9	2143

Hh: Irraggiamento su piano orizzontale (Wh/m2/giorno)

Hopt: Irraggiamento su piano ad inclinazione ottimale (Wh/m2/giorno)

H(90): Irraggiamento su piano ad angolo:90gradi (Wh/m2/giorno)

lopt: Inclinazione ottimale (gradi)

T24h: Temperatura media giornaliera (24h) (°C)

NDD: Numero di gradi-giorni di riscaldamento (-)

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Rendimento di FV in rete

MOSSOTTI 1

PVGIS stime di generazione elettricità solare

Luogo: 45°26'36" Nord, 8°37'53" Est, Quota: 152 m.s.l.m.,

Database di radiazione solare usato: PVGIS-CMSAF

Potenza nominale del sistema FV: 32.3 kW (silicio cristallino)

Stime di perdite causata da temperatura e irradianza bassa: 12.6% (usando temperatura esterna locale)

Stima di perdita causata da effetti di riflessione: 3.2%

Altre perdite (cavi, inverter, ecc.): 14.0%

Perdite totali del sistema FV: 27.2%

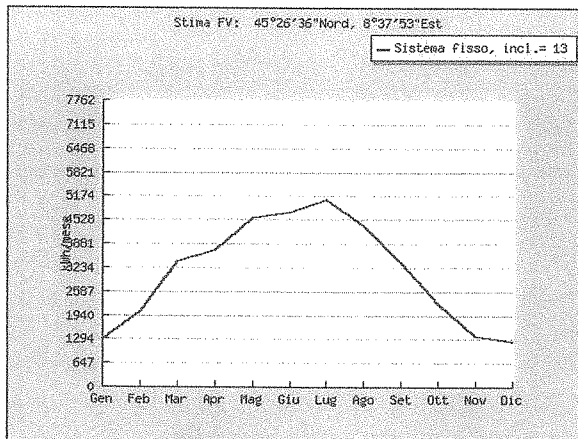
Sistema fisso: inclinazione=13 gradi, orientamento=-16 gradi				
Mese	Ed	Em	Hd	Hm
Gen	41.50	1290	1.64	50.7
Feb	72.60	2030	2.88	80.7
Mar	109.00	3370	4.47	139
Apr	123.00	3700	5.20	156
Mag	147.00	4550	6.36	197
Giu	157.00	4700	6.91	207
Lug	164.00	5070	7.28	226
Ago	140.00	4350	6.23	193
Set	111.00	3340	4.80	144
Ott	72.00	2230	3.00	92.9
Nov	45.20	1350	1.82	54.7
Dic	38.70	1200	1.54	47.6
Anno	102.00	3100	4.35	132
Totale per l'anno		37200		1590

Ed: Produzione elettrica media giornaliera dal sistema indicata (kWh)

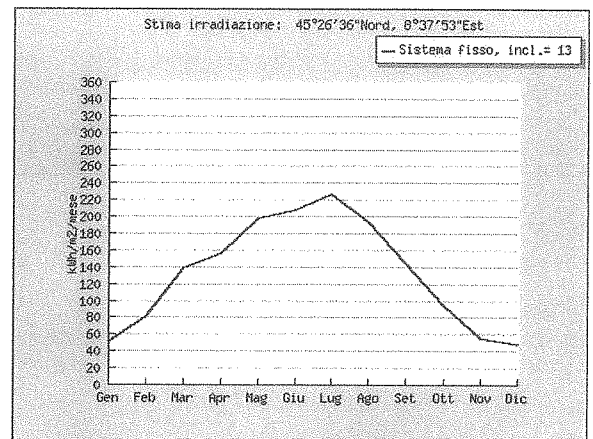
Em: Produzione elettrica media mensile dal sistema indicata (kWh)

Hd: Media dell'irraggiamento giornaliero al metro quadro ricevuto dai pannelli del sistema (kWh/m2)

Hm: Media dell'irraggiamento al metro quadro ricevuto dai pannelli del sistema (kWh/m2)



Produzione di energia mensile da un sistema FV fisso



Irraggiamento mensile nel piano per angolo fisso

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Irraggiamento globale per il luogo scelto

Luogo: 45°26'36" Nord, 8°37'53" Est, Quota: 152 m.s.l.m.,

Inclinazione ottimale è: 36 gradi

Irraggiamento perso annualmente a causa di ombre (orizzontale): 0.0 %

Mese	Hh	Hopt	H(90)	lopt	T24h	NDD
Gen	1270	2170	2220	65	4.7	433
Feb	2320	3660	3450	59	6.2	339
Mar	3890	5150	4060	47	9.7	221
Apr	4830	5440	3380	32	12.5	98
Mag	6150	6200	3120	20	17.5	10
Giu	6790	6520	2900	13	21.3	0
Lug	7090	6970	3170	16	23.1	0
Ago	5860	6340	3560	27	22.6	1
Set	4270	5340	3870	42	19.1	36
Ott	2540	3580	3110	53	14.8	189
Nov	1440	2370	2360	63	9.9	363
Dic	1140	2130	2310	68	5.5	453
Anno	3980	4660	3120	36	13.9	2143

Hh: Irraggiamento su piano orizzontale (Wh/m2/giorno)

Hopt: Irraggiamento su piano ad inclinazione ottimale (Wh/m2/giorno)

H(90): Irraggiamento su piano ad angolo:90gradi (Wh/m2/giorno)

lopt: Inclinazione ottimale (gradi)

T24h: Temperatura media giornaliera (24h) (°C)

NDD: Numero di gradi-giorni di riscaldamento (-)

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Rendimento di FV in rete

MOSSOTTI 2

PVGIS stime di generazione elettricità solare

Luogo: 45°26'36" Nord, 8°37'53" Est, Quota: 152 m.s.l.m.,

Database di radiazione solare usato: PVGIS-CMSAF

Potenza nominale del sistema FV: 49.0 kW (silicio cristallino)

Stime di perdite causata da temperatura e irradianza bassa: 12.6% (usando temperatura esterna locale)

Stima di perdita causata da effetti di riflessione: 3.2%

Altre perdite (cavi, inverter, ecc.): 14.0%

Perdite totali del sistema FV: 27.2%

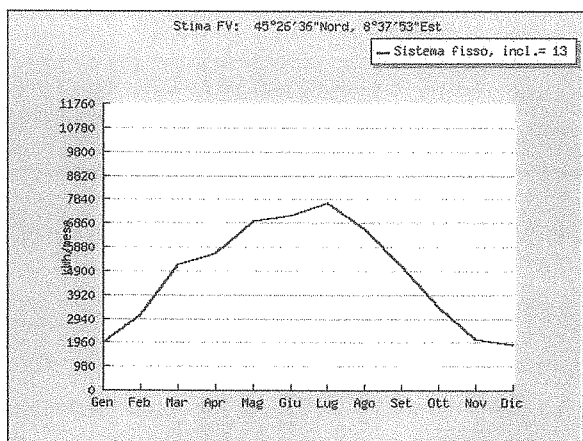
Sistema fisso: inclinazione=13 gradi, orientamento=-16 gradi				
Mese	Ed	Em	Hd	Hm
Gen	63.00	1950	1.64	50.7
Feb	110.00	3080	2.88	80.7
Mar	165.00	5110	4.47	139
Apr	187.00	5610	5.20	156
Mag	223.00	6900	6.36	197
Giu	238.00	7130	6.91	207
Lug	248.00	7680	7.28	226
Ago	213.00	6590	6.23	193
Set	169.00	5060	4.80	144
Ott	109.00	3380	3.00	92.9
Nov	68.40	2050	1.82	54.7
Dic	58.70	1820	1.54	47.6
Anno	154.00	4700	4.35	132
Totale per l'anno		56400		1590

Ed: Produzione elettrica media giornaliera dal sistema indicata (kWh)

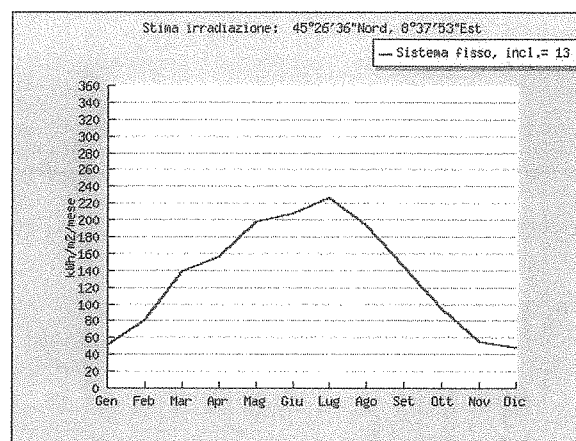
Em: Produzione elettrica media mensile dal sistema indicata (kWh)

Hd: Media dell'irraggiamento giornaliero al metro quadro ricevuto dai pannelli del sistema (kWh/m2)

Hm: Media dell'irraggiamento al metro quadro ricevuto dai pannelli del sistema (kWh/m2)



Produzione di energia mensile da un sistema FV fisso



Irraggiamento mensile nel piano per angolo fisso

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Irraggiamento globale per il luogo scelto

Luogo: 45°26'36" Nord, 8°37'53" Est, Quota: 152 m.s.l.m.,

Inclinazione ottimale è: 36 gradi

Irraggiamento perso annualmente a causa di ombre (orizzontale): 0.0 %

Mese	Hh	Hopt	H(90)	lopt	T24h	NDD
Gen	1270	2170	2220	65	4.7	433
Feb	2320	3660	3450	59	6.2	339
Mar	3890	5150	4060	47	9.7	221
Apr	4830	5440	3380	32	12.5	98
Mag	6150	6200	3120	20	17.5	10
Giu	6790	6520	2900	13	21.3	0
Lug	7090	6970	3170	16	23.1	0
Ago	5860	6340	3560	27	22.6	1
Set	4270	5340	3870	42	19.1	36
Ott	2540	3580	3110	53	14.8	189
Nov	1440	2370	2360	63	9.9	363
Dic	1140	2130	2310	68	5.5	453
Anno	3980	4660	3120	36	13.9	2143

Hh: Irraggiamento su piano orizzontale (Wh/m2/giorno)

Hopt: Irraggiamento su piano ad inclinazione ottimale (Wh/m2/giorno)

H(90): Irraggiamento su piano ad angolo:90gradi (Wh/m2/giorno)

lopt: Inclinazione ottimale (gradi)

T24h: Temperatura media giornaliera (24h) (°C)

NDD: Numero di gradi-giorni di riscaldamento (-)

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