

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 46°10'11" North, 10°45'36" East, Elevation: 833 m a.s.l.,

Nominal power of the PV system: 3.0 kW (crystalline silicon)

Estimated losses due to temperature: 6.1% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 3.0%

Other losses (cables, inverter etc.): 14.0%

Combined PV system losses: 21.7%

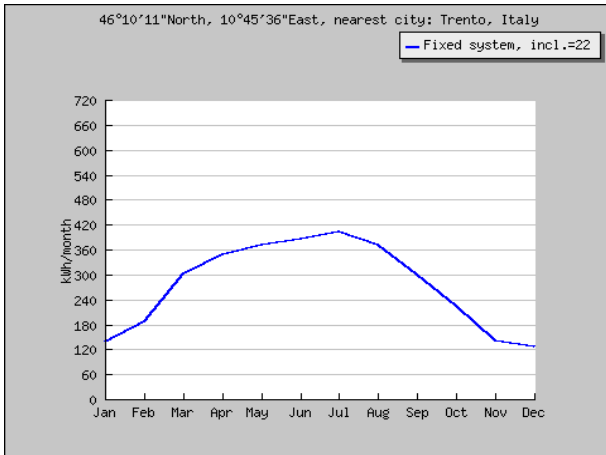
Fixed system: inclination=22 deg., orientation=30 deg.				
Month	Ed	Em	Hd	Hm
Jan	4.49	139	1.79	55.6
Feb	6.65	186	2.66	74.6
Mar	9.76	302	4.03	125
Apr	11.60	348	4.87	146
May	12.00	372	5.19	161
Jun	12.90	387	5.68	170
Jul	13.00	403	5.78	179
Aug	12.00	372	5.31	165
Sep	9.96	299	4.27	128
Oct	7.24	224	3.07	95.0
Nov	4.72	142	1.93	57.8
Dec	4.10	127	1.65	51.0
Year	9.05	275	3.86	117
Total for year		3300		1410

Ed: Average daily electricity production from the given system (kWh)

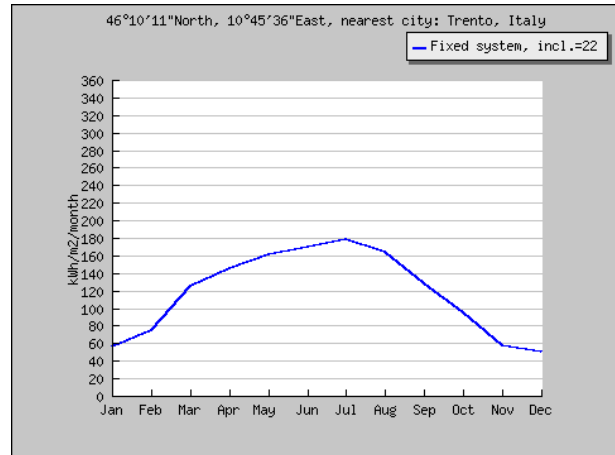
Em: Average monthly electricity production from the given system (kWh)

Hd: Average daily sum of global irradiation per square meter received by the modules of the given system (kWh/m²)

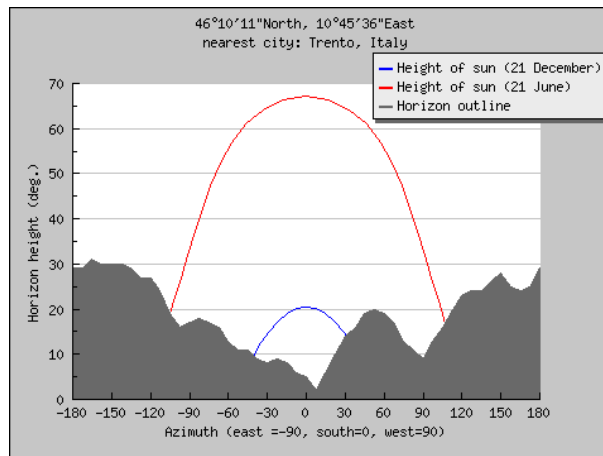
Hm: Average sum of global irradiation per square meter received by the modules of the given system (kWh/m²)



Monthly energy output from fixed-angle PV system



Monthly in-plane irradiation for fixed angle



Outline of horizon with sun path for winter and summer solstice

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