

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 46°53'46" North, 19°41'22" East, Elevation: 112 m a.s.l.,
 Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 3.1 kW (crystalline silicon)
 Estimated losses due to temperature and low irradiance: 8.9% (using local ambient temperature)
 Estimated loss due to angular reflectance effects: 2.8%
 Other losses (cables, inverter etc.): 14.0%
 Combined PV system losses: 23.8%

Fixed system: inclination=35 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	3.92	122	1.49	46.3
Feb	6.52	183	2.52	70.5
Mar	10.70	332	4.33	134
Apr	13.20	395	5.54	166
May	13.30	411	5.76	178
Jun	13.50	406	5.95	178
Jul	14.00	433	6.20	192
Aug	13.70	426	6.05	187
Sep	11.20	335	4.74	142
Oct	8.98	278	3.67	114
Nov	5.37	161	2.12	63.5
Dec	3.06	94.7	1.17	36.1
Year	9.80	298	4.14	126
Total for year		3580		1510

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)

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