

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: 2.1 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	2.61	81.0	1.49	46.3
Feb	4.35	122	2.52	70.5
Mar	7.15	222	4.33	134
Apr	8.78	264	5.54	166
May	8.84	274	5.76	178
Jun	9.01	270	5.95	178
Jul	9.31	289	6.20	192
Aug	9.15	284	6.05	187
Sep	7.45	223	4.74	142
Oct	5.99	186	3.67	114
Nov	3.58	107	2.12	63.5
Dec	2.04	63.2	1.17	36.1
Year	6.53	199	4.14	126
Total for year		2380		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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