

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: 4.9 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	6.19	192	1.49	46.3
Feb	10.30	288	2.52	70.5
Mar	16.90	525	4.33	134
Apr	20.80	625	5.54	166
May	21.00	650	5.76	178
Jun	21.40	641	5.95	178
Jul	22.10	684	6.20	192
Aug	21.70	672	6.05	187
Sep	17.60	529	4.74	142
Oct	14.20	440	3.67	114
Nov	8.48	255	2.12	63.5
Dec	4.83	150	1.17	36.1
Year	15.50	471	4.14	126
Total for year		5650		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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