

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 46°25'47" North, 19°28'45" East, Elevation: 130 m a.s.l.,
 Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 8.0 kW (crystalline silicon)
 Estimated losses due to temperature and low irradiance: 9.0% (using local ambient temperature)
 Estimated loss due to angular reflectance effects: 2.8%
 Other losses (cables, inverter etc.): 14.0%
 Combined PV system losses: 24.0%

Fixed system: inclination=35 deg., orientation=-10 deg.				
Month	Ed	Em	Hd	Hm
Jan	10.40	322	1.55	48.2
Feb	17.40	488	2.64	74.0
Mar	27.20	842	4.30	133
Apr	33.30	1000	5.48	165
May	33.60	1040	5.68	176
Jun	34.80	1040	5.96	179
Jul	36.10	1120	6.23	193
Aug	34.90	1080	6.02	187
Sep	28.70	862	4.77	143
Oct	23.60	730	3.78	117
Nov	14.50	434	2.24	67.1
Dec	8.47	263	1.27	39.3
Year	25.30	769	4.17	127
Total for year		9230		1520

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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