

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 46°32'13" North, 17°56'19" East, Elevation: 171 m a.s.l.,
 Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 9.6 kW (crystalline silicon)
 Estimated losses due to temperature and low irradiance: 12.1% (using local ambient temperature)
 Estimated loss due to angular reflectance effects: 3.4%
 Other losses (cables, inverter etc.): 14.0%
 Combined PV system losses: 27.0%

Fixed system: inclination=10 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	10.00	311	1.31	40.6
Feb	16.70	469	2.19	61.3
Mar	26.90	833	3.65	113
Apr	36.20	1090	5.13	154
May	40.60	1260	5.94	184
Jun	42.10	1260	6.26	188
Jul	42.80	1330	6.41	199
Aug	38.50	1190	5.73	178
Sep	29.00	870	4.14	124
Oct	21.40	664	2.96	91.9
Nov	11.60	347	1.55	46.5
Dec	7.76	241	1.02	31.6
Year	27.00	822	3.87	118
Total for year		9860		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)

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