

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 47°43'4" North, 19°10'59" East, Elevation: 111 m a.s.l.,
 Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 9.5 kW (crystalline silicon)
 Estimated losses due to temperature and low irradiance: 12.2% (using local ambient temperature)
 Estimated loss due to angular reflectance effects: 3.5%
 Other losses (cables, inverter etc.): 14.0%
 Combined PV system losses: 27.2%

Fixed system: inclination=10 deg., orientation=39 deg.				
Month	Ed	Em	Hd	Hm
Jan	8.02	249	1.06	32.9
Feb	14.40	403	1.90	53.2
Mar	25.90	804	3.56	110
Apr	35.30	1060	5.06	152
May	39.00	1210	5.80	180
Jun	40.10	1200	6.06	182
Jul	40.40	1250	6.17	191
Aug	36.70	1140	5.52	171
Sep	27.60	829	3.99	120
Oct	19.40	601	2.70	83.8
Nov	9.83	295	1.34	40.3
Dec	6.11	190	0.82	25.5
Year	25.30	769	3.68	112
Total for year		9230		1340

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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