

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 47°2'30" North, 19°47'2" East, Elevation: 113 m a.s.l.,
 Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 43.7 kW (crystalline silicon)
 Estimated losses due to temperature and low irradiance: 8.5% (using local ambient temperature)
 Estimated loss due to angular reflectance effects: 3.3%
 Other losses (cables, inverter etc.): 14.0%
 Combined PV system losses: 23.9%

Fixed system: inclination=12 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	43.20	1340	1.20	37.4
Feb	74.00	2070	2.05	57.4
Mar	134.00	4150	3.85	119
Apr	178.00	5340	5.29	159
May	192.00	5950	5.87	182
Jun	200.00	6010	6.24	187
Jul	205.00	6340	6.46	200
Aug	188.00	5820	5.87	182
Sep	142.00	4270	4.30	129
Oct	104.00	3240	3.04	94.3
Nov	56.50	1700	1.62	48.6
Dec	32.70	1010	0.92	28.5
Year	129.00	3940	3.90	119
Total for year		47200		1420

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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