

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 47°39'26" North, 17°39'13" East, Elevation: 114 m a.s.l.,
 Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 37.0 kW (crystalline silicon)
 Estimated losses due to temperature and low irradiance: 8.3% (using local ambient temperature)
 Estimated loss due to angular reflectance effects: 3.3%
 Other losses (cables, inverter etc.): 14.0%
 Combined PV system losses: 23.7%

Fixed system: inclination=15 deg., orientation=-30 deg.				
Month	Ed	Em	Hd	Hm
Jan	36.50	1130	1.19	37.0
Feb	64.60	1810	2.12	59.4
Mar	106.00	3270	3.57	111
Apr	150.00	4490	5.26	158
May	164.00	5070	5.91	183
Jun	167.00	5010	6.13	184
Jul	166.00	5150	6.15	191
Aug	152.00	4700	5.57	173
Sep	115.00	3460	4.11	123
Oct	82.50	2560	2.85	88.5
Nov	43.40	1300	1.47	44.0
Dec	29.60	917	0.99	30.6
Year	106.00	3240	3.79	115
Total for year		38900		1380

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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<http://re.jrc.ec.europa.eu/pvgis/>

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