

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 47°31'13" North, 19°6'11" East, Elevation: 115 m a.s.l.,
Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 41.6 kW (crystalline silicon)

Estimated losses due to temperature and low irradiance: 8.4% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 3.6%

Other losses (cables, inverter etc.): 14.0%

Combined PV system losses: 24.0%

Fixed system: inclination=10 deg., orientation=47 deg.				
Month	Ed	Em	Hd	Hm
Jan	37.70	1170	1.12	34.7
Feb	67.50	1890	1.98	55.5
Mar	119.00	3700	3.60	111
Apr	164.00	4910	5.11	153
May	184.00	5710	5.94	184
Jun	189.00	5680	6.20	186
Jul	190.00	5880	6.27	194
Aug	170.00	5270	5.56	172
Sep	127.00	3800	4.01	120
Oct	89.50	2770	2.76	85.6
Nov	45.40	1360	1.39	41.6
Dec	28.80	892	0.87	27.0
Year	118.00	3590	3.74	114
Total for year		43000		1370

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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