

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 46°40'27" North, 20°27'28" East, Elevation: 82 m a.s.l.,
Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 7.0 kW (crystalline silicon)

Estimated losses due to temperature and low irradiance: 13.3% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 3.6%

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

Combined PV system losses: 28.1%

Fixed system: inclination=37 deg., orientation=90 deg.				
Month	Ed	Em	Hd	Hm
Jan	4.94	153	0.93	28.8
Feb	8.83	247	1.62	45.5
Mar	17.00	526	3.23	100
Apr	23.40	702	4.60	138
May	26.10	808	5.27	163
Jun	27.60	828	5.69	171
Jul	27.60	854	5.75	178
Aug	24.70	765	5.10	158
Sep	18.20	546	3.63	109
Oct	13.10	406	2.52	78.2
Nov	7.07	212	1.36	40.7
Dec	3.89	121	0.74	23.0
Year	16.90	514	3.38	103
Total for year		6170		1230

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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