

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 41°41'15" North, 14°43'43" East, Elevation: 726 m a.s.l.,
Solar radiation database used: PVGIS-classic

Nominal power of the PV system: 49.5 kW (crystalline silicon)

Estimated losses due to temperature and low irradiance: 9.3% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 2.9%

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

Combined PV system losses: 24.3%

Fixed system: inclination=35 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	107.00	3330	2.66	82.5
Feb	132.00	3690	3.31	92.6
Mar	173.00	5360	4.48	139
Apr	210.00	6310	5.57	167
May	217.00	6720	5.87	182
Jun	223.00	6680	6.18	185
Jul	233.00	7210	6.53	203
Aug	217.00	6740	6.12	190
Sep	199.00	5980	5.44	163
Oct	166.00	5150	4.38	136
Nov	119.00	3580	3.05	91.4
Dec	98.50	3050	2.46	76.1
Year	175.00	5320	4.68	142
Total for year		63800		1710

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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