

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 46°53'6" North, 21°1'35" East, Elevation: 84 m a.s.l.,
Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 8.2 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=30 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	9.78	303	1.43	44.3
Feb	15.70	440	2.32	65.0
Mar	27.50	852	4.26	132
Apr	34.50	1040	5.55	167
May	35.60	1100	5.88	182
Jun	36.90	1110	6.20	186
Jul	37.10	1150	6.31	195
Aug	36.30	1120	6.12	190
Sep	29.00	871	4.74	142
Oct	23.60	732	3.69	114
Nov	14.60	438	2.20	66.0
Dec	7.86	244	1.15	35.7
Year	25.80	783	4.16	127
Total for year		9400		1520

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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