

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 48°2'57" North, 19°2'51" East, Elevation: 146 m a.s.l.,

Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 4.0 kW (crystalline silicon)

Estimated losses due to temperature and low irradiance: 8.5% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 2.9%

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

Combined PV system losses: 23.6%

Fixed system: inclination=35 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	4.75	147	1.41	43.6
Feb	8.09	227	2.43	68.1
Mar	13.40	414	4.20	130
Apr	16.60	497	5.43	163
May	16.90	524	5.70	177
Jun	17.10	513	5.84	175
Jul	17.40	539	5.98	185
Aug	16.70	519	5.72	177
Sep	13.90	416	4.58	137
Oct	10.50	325	3.34	103
Nov	5.69	171	1.74	52.3
Dec	3.74	116	1.11	34.4
Year	12.10	367	3.96	121
Total for year		4410		1450

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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