

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 47°29'17" North, 19°9'8" East, Elevation: 133 m a.s.l.,
Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 50.2 kW (crystalline silicon)

Estimated losses due to temperature and low irradiance: 8.2% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 3.6%

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

Combined PV system losses: 23.8%

Fixed system: inclination=10 deg., orientation=-43 deg.				
Month	Ed	Em	Hd	Hm
Jan	46.10	1430	1.13	35.2
Feb	81.80	2290	1.99	55.6
Mar	145.00	4490	3.61	112
Apr	199.00	5970	5.13	154
May	223.00	6900	5.94	184
Jun	230.00	6890	6.22	187
Jul	230.00	7140	6.29	195
Aug	206.00	6390	5.58	173
Sep	154.00	4630	4.04	121
Oct	109.00	3380	2.78	86.3
Nov	55.40	1660	1.40	41.9
Dec	35.00	1080	0.87	27.1
Year	143.00	4360	3.76	114
Total for year		52300		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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