

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 47°43'20" North, 19°11'9" East, Elevation: 108 m a.s.l.,
Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 37.7 kW (crystalline silicon)

Estimated losses due to temperature and low irradiance: 13.5% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 3.0%

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

Combined PV system losses: 27.8%

Fixed system: inclination=40 deg., orientation=46 deg.				
Month	Ed	Em	Hd	Hm
Jan	38.40	1190	1.27	39.3
Feb	64.90	1820	2.18	61.0
Mar	110.00	3400	3.87	120
Apr	140.00	4210	5.16	155
May	147.00	4550	5.57	173
Jun	148.00	4430	5.67	170
Jul	151.00	4670	5.85	181
Aug	143.00	4430	5.50	171
Sep	114.00	3430	4.24	127
Oct	87.50	2710	3.11	96.4
Nov	47.30	1420	1.62	48.7
Dec	29.60	919	0.98	30.4
Year	102.00	3100	3.76	114
Total for year		37200		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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