

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 55°21'14" North, 11°59'49" East, Elevation: 37 m a.s.l.,

Nominal power of the PV system: 6.0 kW (crystalline silicon)

Estimated losses due to temperature: 12.4% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 3.0%

Other losses (cables, inverter etc.): 5.0%

Combined PV system losses: 19.3%

Fixed system: inclination=37 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	4.74	147	0.88	27.3
Feb	9.46	265	1.81	50.8
Mar	13.60	423	2.70	83.6
Apr	21.70	652	4.45	133
May	25.40	788	5.40	167
Jun	23.60	709	5.09	153
Jul	24.80	769	5.35	166
Aug	21.80	676	4.69	145
Sep	16.70	502	3.49	105
Oct	11.10	346	2.21	68.5
Nov	6.54	196	1.25	37.4
Dec	3.63	112	0.67	20.8
Year	15.30	465	3.17	96.5
Total for year		5580		1160

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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