

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: 1.9 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	1.52	47.1	0.88	27.3
Feb	3.03	84.8	1.81	50.8
Mar	4.37	135	2.70	83.6
Apr	6.95	209	4.45	133
May	8.13	252	5.40	167
Jun	7.56	227	5.09	153
Jul	7.93	246	5.35	166
Aug	6.98	216	4.69	145
Sep	5.35	161	3.49	105
Oct	3.57	111	2.21	68.5
Nov	2.09	62.8	1.25	37.4
Dec	1.16	36.0	0.67	20.8
Year	4.90	149	3.17	96.5
Total for year		1790		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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