

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 42°0'45" North, 4°30'25" West, Elevation: 752 m a.s.l.,
 Solar radiation database used: PVGIS-classic

Nominal power of the PV system: 2.5 kW (crystalline silicon)
 Estimated losses due to temperature: 9.2% (using local ambient temperature)
 Estimated loss due to angular reflectance effects: 2.7%
 Other losses (cables, inverter etc.): 25.0%
 Combined PV system losses: 33.8%

Fixed system: inclination=35 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	4.73	147	2.67	82.8
Feb	6.27	176	3.60	101
Mar	8.71	270	5.17	160
Apr	8.76	263	5.27	158
May	9.52	295	5.86	182
Jun	10.00	300	6.29	189
Jul	10.30	319	6.51	202
Aug	9.97	309	6.28	195
Sep	9.04	271	5.56	167
Oct	7.22	224	4.30	133
Nov	5.03	151	2.87	86.2
Dec	3.57	111	2.02	62.6
Year	7.77	236	4.71	143
Total for year		2830		1720

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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