

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 37°14'33" North, 5°28'33" West, Elevation: 122 m a.s.l.,
 Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 1.0 kW (crystalline silicon)
 Estimated losses due to temperature and low irradiance: 12.2% (using local ambient temperature)
 Estimated loss due to angular reflectance effects: 2.6%
 Other losses (cables, inverter etc.): 14.0%
 Combined PV system losses: 26.4%

Fixed system: inclination=37 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	3.41	106	4.38	136
Feb	4.01	112	5.22	146
Mar	4.47	139	6.02	187
Apr	4.59	138	6.24	187
May	4.70	146	6.49	201
Jun	4.98	149	7.02	211
Jul	5.11	158	7.28	226
Aug	5.10	158	7.27	225
Sep	4.68	140	6.53	196
Oct	4.16	129	5.66	176
Nov	3.67	110	4.82	145
Dec	3.40	105	4.37	135
Year	4.36	133	5.95	181
Total for year		1590		2170

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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