

Photovoltaic Geographical Information System

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 37°14'23" North, 5°33'2" West, Elevation: 106 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: 12.0% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 2.7%

Other losses (cables, inverter etc.): 14.0% Combined PV system losses: 26.4%

	Fixed system: inclination=45 deg.,			
	orientation=0 deg.			
Month	Ed	Em	Hd	Hm
Jan	3.57	111	4.60	143
Feb	4.12	115	5.39	151
Mar	4.47	139	6.02	187
Apr	4.47	134	6.07	182
May	4.43	137	6.11	189
Jun	4.61	138	6.50	195
Jul	4.76	148	6.78	210
Aug	4.89	152	6.95	216
Sep	4.63	139	6.47	194
Oct	4.23	131	5.77	179
Nov	3.85	115	5.07	152
Dec	3.53	109	4.56	141
Year	4.30	131	5.86	178
Total for		1570		2140
year				

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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