

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 49°52'19" North, 13°6'41" East, Elevation: 508 m a.s.l.,
 Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 6.5 kW (crystalline silicon)
 Estimated losses due to temperature and low irradiance: 7.4% (using local ambient temperature)
 Estimated loss due to angular reflectance effects: 3.1%
 Other losses (cables, inverter etc.): 20.0%
 Combined PV system losses: 28.2%

Fixed system: inclination=32 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	5.66	176	1.11	34.4
Feb	10.50	293	2.08	58.1
Mar	18.30	566	3.74	116
Apr	23.20	697	4.97	149
May	23.90	741	5.24	163
Jun	24.60	739	5.49	165
Jul	24.20	749	5.42	168
Aug	22.40	696	4.99	155
Sep	18.50	554	3.98	119
Oct	12.70	392	2.63	81.6
Nov	6.30	189	1.27	38.0
Dec	4.45	138	0.88	27.2
Year	16.20	494	3.49	106
Total for year		5930		1270

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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