

## Performance of Grid-connected PV

### PVGIS estimates of solar electricity generation

Location: 41°41'15" North, 14°43'43" East, Elevation: 726 m a.s.l.,  
Solar radiation database used: PVGIS-classic

Nominal power of the PV system: 301.0 kW (crystalline silicon)

Estimated losses due to temperature and low irradiance: 9.3% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 2.9%

Other losses (cables, inverter etc.): 14.0%

Combined PV system losses: 24.3%

Fixed system: inclination=35 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	653.00	20200	2.66	82.5
Feb	801.00	22400	3.31	92.6
Mar	1050.00	32600	4.48	139
Apr	1280.00	38300	5.57	167
May	1320.00	40800	5.87	182
Jun	1350.00	40600	6.18	185
Jul	1410.00	43800	6.53	203
Aug	1320.00	41000	6.12	190
Sep	1210.00	36400	5.44	163
Oct	1010.00	31300	4.38	136
Nov	726.00	21800	3.05	91.4
Dec	599.00	18600	2.46	76.1
Year	1060.00	32300	4.68	142
Total for year		388000		1710

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/m<sup>2</sup>)

Hm: Average sum of global irradiation per square meter received by the modules of the given system (kWh/m<sup>2</sup>)

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