

## Performance of Grid-connected PV

### PVGIS estimates of solar electricity generation

Location: 47°43'4" North, 19°10'59" East, Elevation: 111 m a.s.l.,  
 Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 2.8 kW (crystalline silicon)  
 Estimated losses due to temperature and low irradiance: 13.3% (using local ambient temperature)  
 Estimated loss due to angular reflectance effects: 2.9%  
 Other losses (cables, inverter etc.): 14.0%  
 Combined PV system losses: 27.6%

Fixed system: inclination=35 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	3.19	98.8	1.42	44.2
Feb	5.30	148	2.42	67.8
Mar	8.72	270	4.21	130
Apr	10.80	325	5.47	164
May	11.10	343	5.76	179
Jun	11.00	331	5.81	174
Jul	11.30	350	6.03	187
Aug	11.00	341	5.80	180
Sep	9.05	272	4.59	138
Oct	7.14	221	3.46	107
Nov	3.93	118	1.83	55.0
Dec	2.46	76.3	1.10	34.1
Year	7.93	241	4.00	122
Total for year		2900		1460

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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<http://re.jrc.ec.europa.eu/pvgis/>

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