

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 46°40'28" North, 20°27'28" East, Elevation: 82 m a.s.l.,
Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 4.5 kW (crystalline silicon)

Estimated losses due to temperature and low irradiance: 13.8% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 2.8%

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

Combined PV system losses: 28.0%

Fixed system: inclination=35 deg., orientation=0 deg.				
Month	Ed	Em	Hd	Hm
Jan	5.28	164	1.47	45.5
Feb	8.56	240	2.42	67.7
Mar	14.60	454	4.36	135
Apr	18.10	543	5.61	168
May	18.30	566	5.80	180
Jun	18.70	561	6.03	181
Jul	19.10	591	6.24	193
Aug	18.70	580	6.08	188
Sep	15.40	462	4.83	145
Oct	12.90	401	3.86	120
Nov	7.97	239	2.29	68.8
Dec	4.32	134	1.19	37.0
Year	13.50	411	4.19	127
Total for year		4930		1530

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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