

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 47°29'17" North, 19°9'8" East, Elevation: 133 m a.s.l.,
Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 36.2 kW (crystalline silicon)

Estimated losses due to temperature and low irradiance: 8.3% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 3.6%

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

Combined PV system losses: 24.0%

Fixed system: inclination=10 deg., orientation=47 deg.				
Month	Ed	Em	Hd	Hm
Jan	32.90	1020	1.13	34.9
Feb	58.40	1640	1.97	55.3
Mar	104.00	3220	3.59	111
Apr	143.00	4280	5.12	154
May	160.00	4960	5.94	184
Jun	165.00	4950	6.21	186
Jul	166.00	5140	6.29	195
Aug	148.00	4590	5.56	172
Sep	111.00	3320	4.02	121
Oct	78.10	2420	2.77	85.8
Nov	39.60	1190	1.39	41.6
Dec	24.90	773	0.87	26.9
Year	103.00	3120	3.75	114
Total for year		37500		1370

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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