

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 46°40'25" North, 20°27'12" East, Elevation: 82 m a.s.l.,
Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 10.0 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=36 deg., orientation=0 deg. | | | | |
|--|-------|-------|------|------|
| Month | Ed | Em | Hd | Hm |
| Jan | 11.90 | 368 | 1.48 | 45.9 |
| Feb | 19.10 | 535 | 2.43 | 68.0 |
| Mar | 32.60 | 1010 | 4.37 | 136 |
| Apr | 40.20 | 1210 | 5.60 | 168 |
| May | 40.50 | 1250 | 5.78 | 179 |
| Jun | 41.30 | 1240 | 6.00 | 180 |
| Jul | 42.20 | 1310 | 6.21 | 193 |
| Aug | 41.50 | 1290 | 6.07 | 188 |
| Sep | 34.30 | 1030 | 4.83 | 145 |
| Oct | 28.90 | 895 | 3.88 | 120 |
| Nov | 17.90 | 536 | 2.31 | 69.4 |
| Dec | 9.69 | 300 | 1.20 | 37.3 |
| Year | 30.00 | 914 | 4.19 | 127 |
| Total for year | | 11000 | | 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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