

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: 5.8 kW (crystalline silicon)
 Estimated losses due to temperature and low irradiance: 12.2% (using local ambient temperature)
 Estimated loss due to angular reflectance effects: 3.6%
 Other losses (cables, inverter etc.): 14.0%
 Combined PV system losses: 27.2%

| Fixed system: inclination=35 deg., orientation=-90 deg. | | | | |
|--|-------|------|------|------|
| Month | Ed | Em | Hd | Hm |
| Jan | 3.95 | 123 | 0.89 | 27.6 |
| Feb | 7.33 | 205 | 1.62 | 45.4 |
| Mar | 13.70 | 426 | 3.12 | 96.7 |
| Apr | 19.00 | 571 | 4.49 | 135 |
| May | 21.50 | 665 | 5.25 | 163 |
| Jun | 22.20 | 667 | 5.51 | 165 |
| Jul | 22.30 | 692 | 5.59 | 173 |
| Aug | 19.80 | 614 | 4.89 | 152 |
| Sep | 14.60 | 438 | 3.48 | 104 |
| Oct | 9.92 | 307 | 2.30 | 71.2 |
| Nov | 4.86 | 146 | 1.12 | 33.7 |
| Dec | 2.97 | 92.2 | 0.69 | 21.3 |
| Year | 13.60 | 412 | 3.26 | 99.0 |
| Total for year | | 4950 | | 1190 |

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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