

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 45°27'51" North, 9°11'23" East, Elevation: 131 m a.s.l.,
Solar radiation database used: PVGIS-CMSAF

Nominal power of the PV system: 0.4 kW (crystalline silicon)

Estimated losses due to temperature and low irradiance: 8.6% (using local ambient temperature)

Estimated loss due to angular reflectance effects: 3.8%

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

Combined PV system losses: 24.4%

| Fixed system: inclination=0 deg., orientation=180 deg. | | | | |
|---|------|------|------|------|
| Month | Ed | Em | Hd | Hm |
| Jan | 0.38 | 11.9 | 1.25 | 38.6 |
| Feb | 0.73 | 20.5 | 2.30 | 64.3 |
| Mar | 1.20 | 37.3 | 3.83 | 119 |
| Apr | 1.47 | 44.0 | 4.77 | 143 |
| May | 1.82 | 56.4 | 6.01 | 186 |
| Jun | 1.99 | 59.8 | 6.72 | 202 |
| Jul | 2.08 | 64.4 | 7.10 | 220 |
| Aug | 1.72 | 53.3 | 5.86 | 182 |
| Sep | 1.30 | 39.0 | 4.33 | 130 |
| Oct | 0.77 | 23.9 | 2.52 | 78.2 |
| Nov | 0.43 | 12.9 | 1.41 | 42.4 |
| Dec | 0.32 | 10.0 | 1.08 | 33.5 |
| Year | 1.19 | 36.1 | 3.94 | 120 |
| Total for year | | 433 | | 1440 |

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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