

Performance of Grid-connected PV

PVGIS estimates of solar electricity generation

Location: 47°41'2" North, 17°38'6" East, Elevation: 122 m a.s.l.,

Nominal power of the PV system: 0.1 kW (crystalline silicon)

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

Estimated loss due to angular reflectance effects: 2.8%

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

Combined PV system losses: 23.6%

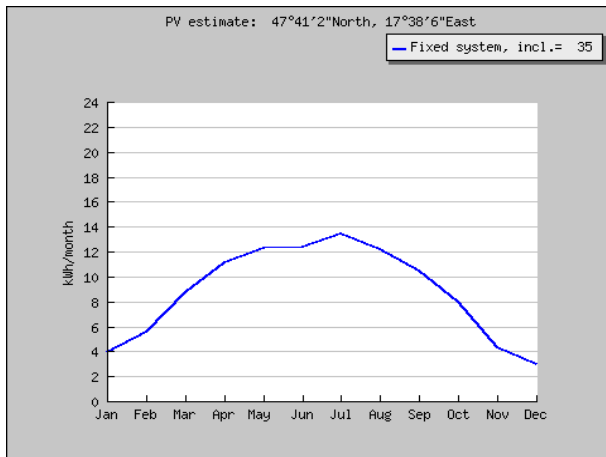
| Fixed system: inclination=35 deg., orientation=0 deg. | | | | |
|--|-----------|-----------|-----------|-----------|
| Month | Ed | Em | Hd | Hm |
| Jan | 0.13 | 3.98 | 1.51 | 46.9 |
| Feb | 0.20 | 5.53 | 2.39 | 66.8 |
| Mar | 0.28 | 8.74 | 3.54 | 110 |
| Apr | 0.37 | 11.1 | 4.85 | 146 |
| May | 0.40 | 12.3 | 5.36 | 166 |
| Jun | 0.41 | 12.4 | 5.63 | 169 |
| Jul | 0.43 | 13.5 | 5.97 | 185 |
| Aug | 0.39 | 12.2 | 5.39 | 167 |
| Sep | 0.35 | 10.5 | 4.63 | 139 |
| Oct | 0.26 | 7.98 | 3.28 | 102 |
| Nov | 0.14 | 4.36 | 1.77 | 53.2 |
| Dec | 0.09 | 2.94 | 1.12 | 34.7 |
| Year | 0.29 | 8.80 | 3.79 | 115 |
| Total for year | | 106 | | 1380 |

Ed: Average daily electricity production from the given system (kWh)

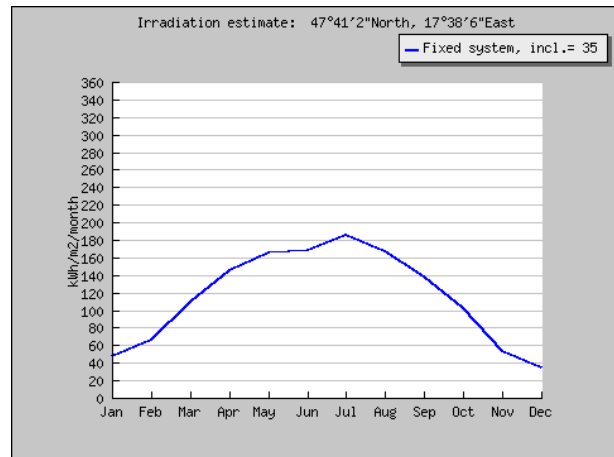
Em: Average monthly electricity production from the given system (kWh)

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)



Monthly energy output from fixed-angle PV system



Monthly in-plane irradiation for fixed angle

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