

21 °

-117°

10302.52 kWh

342.96 kWh

1079.34 kWh/m²

Performance of grid-connected PV

PVGIS-5 estimates of solar electricity generation:

Provided inputs:

System loss:

Latitude/Longitude: 49.247,16.672
Horizon: Calculated
Database used: PVGIS-SARAH2
PV technology: Crystalline silicon
PV installed: 12.24 kWp

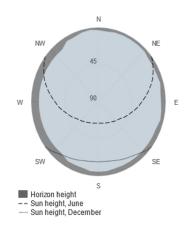
14 %

Simulation outputs

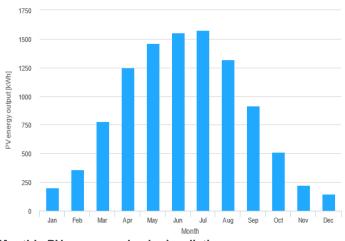
Slope angle:
Azimuth angle:
Yearly PV energy production:
Yearly in-plane irradiation:
Year-to-year variability:
Changes in output due to:

Angle of incidence: -4.53 %
Spectral effects: 1.35 %
Temperature and low irradiance: -6.29 %
Total loss: -22.02 %

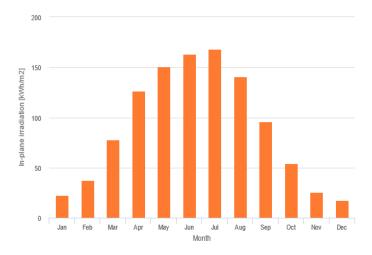
Outline of horizon at chosen location:



Monthly energy output from fix-angle PV system:



Monthly in-plane irradiation for fixed-angle:



Monthly PV energy and solar irradiation

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Month	E_m	H(i)_m	SD_n
January	200.4	22.1	22.1
February	360.5	37.1	62.6
March	780.0	78.1	104.0
April	1245.9	126.6	131.4
May	1462.2	150.6	201.8
June	1555.0	163.3	139.6
July	1576.0	168.4	153.4
August	1321.4	140.6	106.1
September	917.9	95.8	78.5
October	510.4	54.0	61.0
November	224.2	25.3	24.1
December	148.6	17.5	14.8

E_m: Average monthly electricity production from the defined system [kWh].

 $H(i)_m$: Average monthly sum of global irradiation per square meter received by the modules of the given system [kWh/m²].

SD_m: Standard deviation of the monthly electricity production due to year-to-year variation [kWh].

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