

45°

1124.85 kWh

42.97 kWh

1472.13 kWh/m²

0°

Performance of grid-connected PV

PVGIS-5 estimates of solar electricity generation:

Provided inputs: Latitude/Longitude: 47.598,26.646

Horizon: Calculated
Database used: PVGIS-SARAH2
PV technology: Crystalline silicon

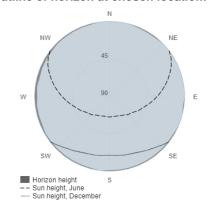
PV installed: 1 kWp System loss: 14 %

Simulation outputs

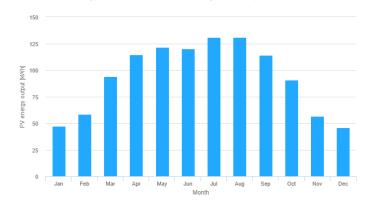
Slope angle:
Azimuth angle:
Yearly PV energy production:
Yearly in-plane irradiation:
Year-to-year variability:
Changes in output due to:

Angle of incidence: -2.73 %
Spectral effects: 1.39 %
Temperature and low irradiance: -9.91 %
Total loss: -23.59 %

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

Month	E_m	H(i)_m	SD_n
January	47.3	56.1	9.8
February	58.3	69.6	13.5
March	94.1	117.0	15.0
April	114.3	149.2	14.2
May	121.6	163.2	9.4
June	120.3	164.3	11.3
July	130.9	180.4	10.0
August	131.0	180.2	12.8
September	114.0	151.7	13.9
October	90.7	115.9	16.7
November	56.8	69.9	9.4
December	15.6	546	16.0

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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