

21 °

63°

13903.79 kWh

562.60 kWh

1236.05 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: 14.28 kWp

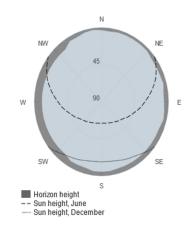
14 %

Simulation outputs

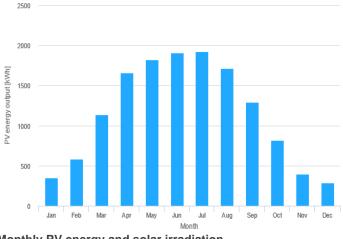
Slope angle: Azimuth angle: Yearly PV energy production: Yearly in-plane irradiation: Year-to-year variability: Changes in output due to:

Angle of incidence: -3.56 % Spectral effects: 1.44 % Temperature and low irradiance: -6.38 % -21.23 % Total loss:

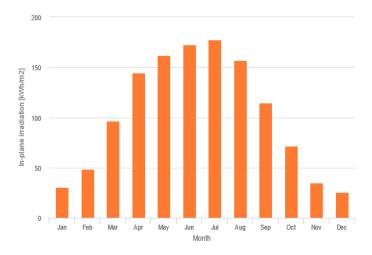
Outline of horizon at chosen location:



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_m
January	350.6	30.3	61.6
February	583.9	48.9	127.6
March	1140.8	96.5	187.2
April	1656.8	144.7	212.5
May	1824.6	161.7	262.6
June	1908.9	172.6	175.5
July	1925.5	177.3	182.8
August	1715.4	157.1	136.8
September	1293.8	114.9	151.8
October	817.3	71.4	147.2
November	397.6	35.1	60.4
December	288 5	25.7	42 A

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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