

21 °

-117°

9014.7 kWh

300.09 kWh

1079.34 kWh/m<sup>2</sup>

# Performance of grid-connected PV

## PVGIS-5 estimates of solar electricity generation:

Provided inputs: Latitude/Longitude: 49.247,16.672

Horizon: Calculated
Database used: PVGIS-SARAH2
PV technology: Crystalline silicon
PV installed: 10.71 kWp

14 %

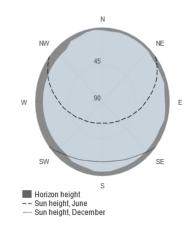
System loss:

Simulation outputs

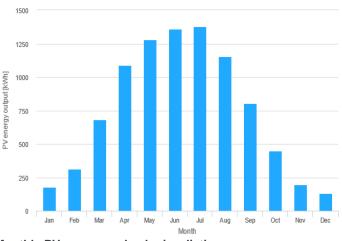
Slope angle:
Azimuth angle:
Yearly PV energy production:
Yearly in-plane irradiation:
Year-to-year variability:
Changes in output due to:

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

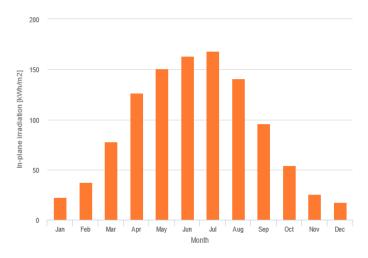
#### Outline of horizon at chosen location:



### Monthly energy output from fix-angle PV system:



## Monthly in-plane irradiation for fixed-angle:



### Monthly PV energy and solar irradiation

•	0,		
Month	E_m	H(i)_m	SD_m
January	175.4	22.1	19.4
February	315.4	37.1	54.8
March	682.5	78.1	91.0
April	1090.2	126.6	115.0
May	1279.4	150.6	176.6
June	1360.7	163.3	122.1
July	1379.0	168.4	134.2
August	1156.2	140.6	92.8
September	803.1	95.8	68.7
October	446.6	54.0	53.4
November	196.2	25.3	21.1
December	130.1	17.5	12.9

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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