

30°

0 °

16765.2 kWh

541.45 kWh

0.042 per kWh

2174.24 kWh/m²

Performance of grid-connected PV

PVGIS-5 estimates of solar electricity generation:

Provided inputs: Latitude/Longitude: 37.183,-3.602

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

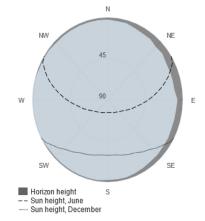
PV technology: Crystallir PV installed: 10 kWp System loss: 14 % Simulation outputs

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

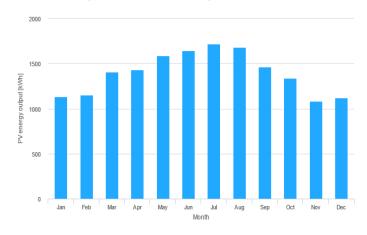
PV electricity cost [per kWh]:

Angle of incidence: -2.57 %
Spectral effects: 0.68 %
Temperature and low irradiance: -8.6 %
Total loss: -22.89 %

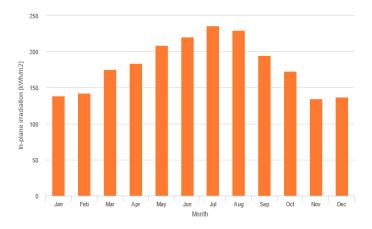
Outline of horizon at chosen location:



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	1134.6	138.8	181.7
February	1151.6	142.2	203.8
March	1405.7	175.6	189.2
April	1434.6	184.0	127.3
May	1589.6	208.5	130.6
June	1641.9	220.4	52.3
July	1719.1	236.2	42.5
August	1681.7	229.5	46.4
September	1464.5	194.6	88.0
October	1337.2	172.6	109.3
November	1083.1	134.6	145.1
December	1121 5	137 /	125 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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