

20°

0 °

851094.22 kWh

1831.87 kWh/m²

20313.87 kWh

Performance of grid-connected PV

PVGIS-5 estimates of solar electricity generation:

Provided inputs:

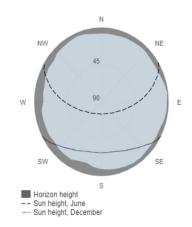
Latitude/Longitude: 37.618, 22.588 Horizon: Calculated Database used: **PVGIS-SARAH** PV technology: Crystalline silicon PV installed: 599.72 kWp System loss: 14 %

Simulation outputs

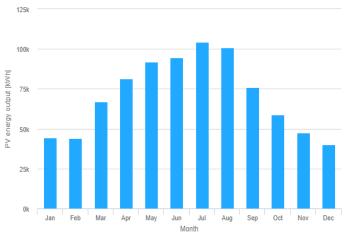
Slope angle: Azimuth angle: Yearly PV energy production: Yearly in-plane irradiation: Year-to-year variability: Changes in output due to: Angle of incidence:

-2.79 % Spectral effects: 0.57 % Temperature and low irradiance: -7.85 % Total loss: -22.53 %

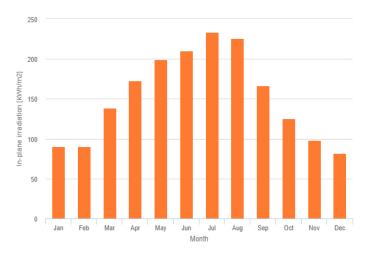
Outline of horizon at chosen location:



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	$\mathbf{SD_m}$
January	44397	.690.0	6810.2
February	43955	.590.0	6606.1
March	66896	.5138.8	8028.3
April	81565	.8172.8	7353.6
May	92020	.6199.5	5642.9
June	94591	.3210.0	7144.4
July	10444	0.2433.4	5639.4
August	10102	1. 8 25.5	5339.9
September	76101	.0166.6	7271.5
October	58659	.6125.2	7433.0
November	47367	.198.1	7498.8
December	40077	.281.9	5060.5

E_m: Average monthly electricity production from the given 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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