

20 °

0 °

1807.49 kWh/m²

21145.25 kWh

-2.84 %

0.69 %

-8.68 %

-23.17 %

250

200

150 dia tion

100 n-plane

0

Jan

[KWh/m2]

Performance of grid-connected PV

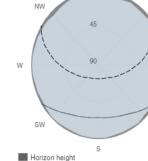
PVGIS-5 estimates of solar electricity generation:

Provided inputs:

Latitude/Longitude:	40.272,21.907
Horizon:	Calculated
Database used:	PVGIS-SARAH2
PV technology:	Crystalline silicon
PV installed:	499.79 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: Spectral effects: Temperature and low irradiance: Total loss:

Ν 694035.71 kWh



Outline of horizon at chosen location:

NE

SE

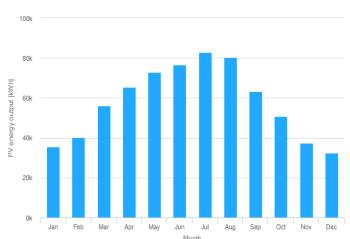
E

Dec

Sun height, June Sun height, December

Monthly in-plane irradiation for fixed-angle:

Monthly energy output from fix-angle PV system:



Monthly PV energy and solar irradiation

Month	E_m	H(i)_m	SD_m
January	35632	.285.1	7440.7
February	40125	.197.3	6485.6
March	56063	.9140.0	6797.1
April	65482	.6168.8	6511.6
May	72841	.4192.5	3873.8
June	76763	.9207.5	4401.6
July	82987	.8227.9	3295.5
August	80418	.8220.5	3026.3
September	63230	.8168.2	4339.1
October	50692	.9129.7	6853.1
November	37358	.191.8	5219.0
December	32438	.378.1	5902.1

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].

Feb Mar Apr May Jun Jul Aug Sep Oct Nov

SD_m: Standard deviation of the monthly electricity production due to year-to-year variation [kWh].

in files or formats that are such problems. The Com

For more information, please visit https://ec.europa.eu/info/legal-notice er

PVGIS ©European Union, 2001-2022. Reproduction is authorised, provided the source is acknowledged, save where otherwise stated

Month

Report generated on 2022/09/01