

VA*

-21.19

Performance of tracking PV

PVGIS-5 estimates of solar electricity generation

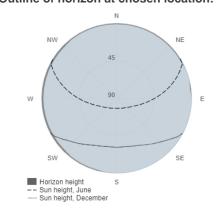
Provided inputs:
Latituda/Langituda, 24.760.0.620

Latitude/Longitude: 34.760,8.630
Horizon: Calculated
Database used: PVGIS-SARAH2
PV technology: Crystalline silicon
PV installed: 22660 kWp
System loss: 14 %

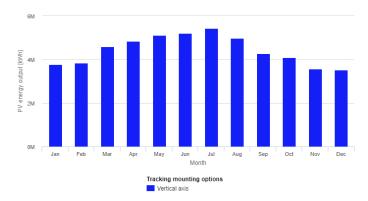
Simulation outputs

Slope angle [°]: 45
Yearly PV energy production [kWh]: 53164406.03
Yearly in-plane irradiation [kWh/m²]: 2976.87
Year-to-year variability [kWh]: 877242.1
Changes in output due to:
Angle of incidence [%]: -1.4
Spectral effects [%]: 0.4
Temp. and low irradiance [%]: -7.42

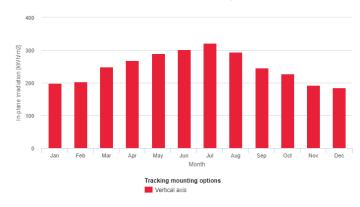
Outline of horizon at chosen location:



Monthly energy output from tracking PV system:



Monthly in-plane irradiation for tracking PV system:



Vertical axis

Month	E_m H(i)_m	SD_m
January	37674141948.3	428585.9
February	38339424013.7	283318.7
March	458023 243 .3	273831.6
April	483003 267 .9	329621.5
May	51044624859.4	354845.6
June	520275 3 0 2 .2	218910.5
July	542557 3 211.8	172346.9
August	4966292923.7	212922.7
September	427861 244 5.8	192626.6
October	40841 72 247.9	258497.9
November	3568179962.3	199399.4
December	352272 985 .6	308227.6

E_m:Average monthly electricity production from the defined system [kWh].

H_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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Total loss [%]:

* VA: Vertical axis