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Performance of tracking PV

PVGIS-5 estimates of solar electricity generation

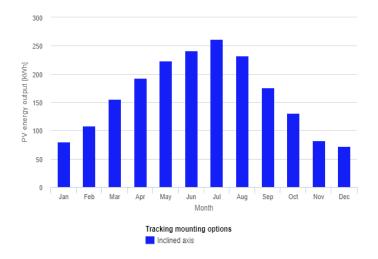
Provided inputs:				
Latitude/Longitude: 42.409,11.597				
Horizon:	Calculated			
Database used:	PVGIS-SARAH2			
PV technology:	Crystalline silicon			
PV installed:	1 kWp			
System loss:	9 %			

Simulation outputs Slope angle [°]: Yearly PV energy production [kWh]: 1956.19 diation [k\//b/m2] Yearly Yea

Yearly in-plane irradiation [kWh/m ²]:	2325.39
Year-to-year variability [kWh]:	61.1
Changes in output due to:	
Angle of incidence [%]:	-1.72
Spectral effects [%]:	0.73
Temp. and low irradiance [%]:	-6.62
Total loss [%]:	-15.88

* IA: Inclined axis

Monthly energy output from tracking PV system:



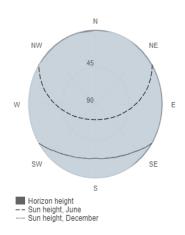
Monthly in-plane irradiation for tracking PV system:



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	Inclined axis			
Month	E_m	H(i)_m	SD_m	
January	79.9	88.8	12.0	
February	107.9	120.0	15.0	
March	155.3	176.4	19.2	
April	192.7	226.1	14.0	
May	223.7	267.8	24.0	
June	241.6	297.1	13.4	
July	261.6	325.2	11.3	
August	231.8	286.1	11.0	
September	175.6	210.8	11.8	
October	131.3	152.2	12.9	
November	82.1	93.2	11.5	
December	72.7	81.7	7.4	

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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