

20 °

-45 °

939269.16 kWh

1411.95 kWh/m²

41764.77 kWh

-3.15 %

1.16 %

-7.11 %

-21.74 %

Anexa nr. 1

Performance of grid-connected PV

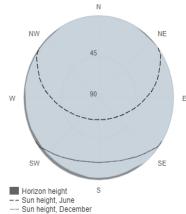
PVGIS-5 estimates of solar electricity generation:

Provided inputs:

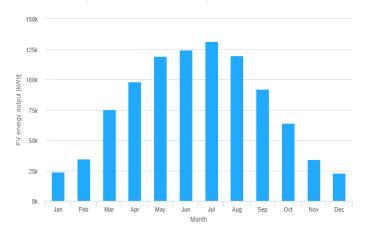
Latitude/Longitude:	46.983,28.877
Horizon:	Calculated
Database used:	PVGIS-SARAH
PV technology:	Crystalline silicon
PV installed:	850 kWp
System loss:	14 %

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:

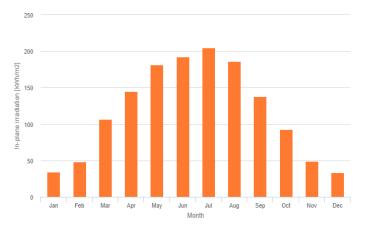
Outline of horizon at chosen location:



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	23935.	734.0	6059.3
February	34398.	148.2	8824.5
March	75399.	3106.9	9952.6
April	98325.	3145.1	10462.6
May	118928	3. 5 81.2	8708.1
June	124378	3. 3 92.3	9870.5
July	131336	6. 8 05.0	8194.4
August	119483	3. 3 85.8	8836.5
September	92170.	0138.1	12117.3
October	63860.	092.7	7844.8
November	34113.	849.2	4296.1
December	22940.	133.3	8779.7

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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