Legend:

User

Program

INPUT DATA

coordinates = (45.014, 11.357)

tilt = 30

azimuth = 0 # deg (South=0, East=-90, 180=North, 90=West)

nominal\_power = 1 # kWp

real\_energy\_last\_year = 1230.3 # kWh

Ready to get the PV data.

PVGIS request done.

Downloaded PV data.

PV data ready.

Estimated yearly energy generation: 1356.1 kWh.

The system is performing well compared with expected data.

Let's proceed with an additional test: monthly clearsky day comparison.

1) Select the month you want to use for comparison.

Selected month is February

2) For the selected month, highest expected energy generation is 5.10023 kWh

3) From your PV system monitoring app compare the daily generation and the shape of the generation profile.

4) Are them similar to the one shown?  
# Show the selected month only  
A graph of energy production

Description automatically generated

The shown curve represents the hourly generation of the highest generation day for your location. Compare it with the data of your monitoring app.

False

If the curves are different, you may have one of the following issues:

# show example plot for each case

- close shading

- far shading (e.g. mountains)

- soiling

- modules broken/disconnected

- overheating

- snow

- inverter failure

Click the icon to show some suggestions.

Soiling

Please consider contacting a solar expert to evaluate modules cleaning. Don’t do it by yourself, it can be dangerous for you and for the modules.