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Solar-PV-Meter.com

-Analyzes the efficiency of your Solar PV + 48 hours forecast for AC-production

Solar-PV-Meter provides

- Cloud-service to upload, visualize and store your power production, solar and weather data
- 'Big Data' analysis of the efficiency of your Solar PV including effects of local shadows
- Forecast for expected AC hour-production 48 hours ahead, and
- Full data access for users by Web & smartphone and monthly reports (see example above)

Data protection, public data and spam

- Your data is your own property, secured with login function and personal password
- Solar-PV-Meter has only access to use your data to produce *statistics* - not to view or share with other
- You can 'publish' your data on the Web demo-site making them visible for other users - Please do so!
- No spam – Solar-PV-Meter do not distribute commercial information's to the its users

Upload of data from your solar-PV-panels or inverter

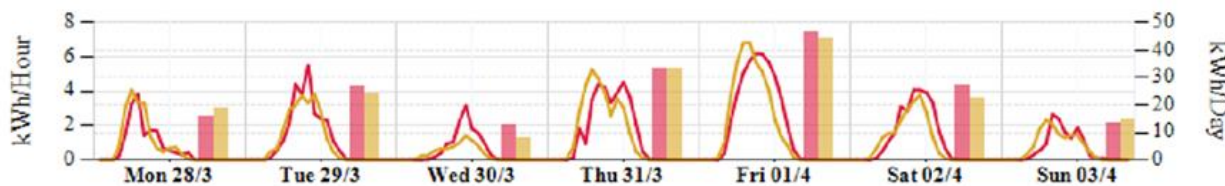
The Cloud service is open for solar panel systems in Northern Europe. The technical requirement is that your panels or inverter automatically can upload DC/AC-production data with at least one measurement per hour – optimum with 5. Minute data. Solar-PV-Meter introduces standard upload procedures for the most common inverters and Cloud-services.

Scientific background

Solar panels produces electricity when the sun is shining. The amount of energy produced is a result of the energy in the solar radiation, the angle that the radiation hits the solar panels, local shadings and reflections, panel temperature and the efficiency of panels and inverter. Shadings from buildings, trees flagpoles etc. may only shade a small area of the panels, but can reduce AC-production with up to 50 – 70%.

The Solar-PV-Meter Cloud-services uses 'Big Data' statistic methods to analyze the energy transformations and the effect of local shadows and reflections. The result is a number of internal matrix's that characterizes the solar plant, and an algorithm to calculate the AC hour-production, 48 hours ahead, based on the key figures and local weather forecasts.

The concept has received grants for EUDP, the Danish Energy Agency.



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