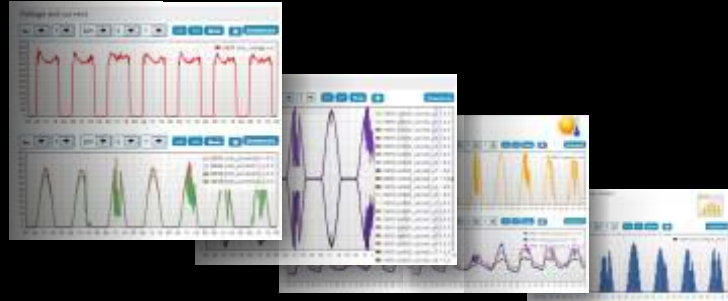


## PROFILE

A complete and integrated modular system designed for monitoring and control of solar power plants. Based on highly reliable industrial controllers using best industrial communication technology and providing complete vertical integration, this system offers local malfunction detection, remote monitoring over internet, data logging and connection to control centers over internet. Even the slightest deviation in operation is detected enabling efficient operation and maintenance of the power plant in the complete life time. Return on the investment will be guaranteed.



## FEATURES

- Consulting and system design of PV plants, small to large scale
- Complete vertical solution for PV plant monitoring and management
- Design and manufacturing of products for DC and AC side
- Customizable hardware and software
- SaaS - Software as a service
- OEM services
- EPC services
- O&M support solutions



## SOLAR PLANT MANAGEMENT SYSTEM

### CASE STUDIES



Assure the highest possible reliability  
and yield of your solar power plant



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### Thailand - Extra large PV power plant (84 MW)



In the middle of hot and humid central Thailand, sitting on the area of more than 2 square kms, 640,000 thin-film solar panels are installed. Our SPMS supervisory system has been chosen by the global leading photovoltaic company to supervise this extra large number of panels, organized into strings, branches, sectors and connected to PV inverters and finally to the grid. Additionally, powerful O&M tools have also been provided to effectively handle such an extensive power plant.

100MW

### India - Large PV power plant (15 MW)



Gujarat, the sunniest state of India, is the place of many photovoltaic plants that operate in this very hot and mostly dry environment. Moreover, there is a lot of sand dust flying during one half of the year and intensive monsoon storms during the other half. Our SPMS supervisory system is there to monitor the output of every single string of PV panels and to detect and log any unexpected behavior of the photovoltaic system as the whole.

15MW

### Taiwan - Medium PV plant (12 MW)



Taiwan is yet another place in the world with demanding weather conditions. Scorching sun periods are followed by beating typhoon season. For these reasons, an efficient PV plant monitoring system with reliable detecting features is a must. Our SPMS supervisory system has been chosen to monitor the PV panels and the inverters through the comprehensive SCADA package.

2MW

### Japan - Rooftop PV plants in the industrial areas (500kW)



The rooftops of industrial objects are mostly the ideal places for mounting the solar panels. If in off-grid configuration, such a PV plant can deliver part of the needed electrical energy for self-consumption. Our SPMS supervisory system coupled with Power IQ energy storage unit can be configured to different operating modes, depending on different usage conditions. Integration into the factory's building energy management automation working on the same platform is also an important functionality.

200kW

### Croatia - Small Rooftop PV plants (17kW)



Example of so many small PV plants with a series of string inverters connected in parallel. Compact version of the SPMS supervisory system communicates directly with any number of PV inverters to acquire and log measurement and operation data, status information, error history, etc. Integration into the general building automation (air conditioning, lighting, security, safety) permits the building to become "intelligent" and self-sustained.

50kW

### Germany – Residential PV plants with energy storage (10 kW)



Energy independent is a long dreamt dream of any house owner. Our Power IQ system not only supervises the energy production of the PV plant but also manages the energy consumption according to the priorities and house residents' needs. The energy storage batteries with system management add the functional capabilities during the less sunny or rainy days or during the nights. The house becomes energy smart, comfortable and safe.

10kW