

EMPURON

Providing Smart Integration Solutions

Solutions for new services and efficiency increase in the energy market

EMPURON AG is a German company which provides technical solutions in high quality for Monitoring and Reporting of your Plants and Energy Efficiency increase. **EMPURON** provides using modern programming techniques customer- and market-oriented state-of-the-art software, which is appreciated by a lot of customers.

We adapt our approach of integration to any existing system. **EMPURON SUPERVISE** as an universal application including e. g. a reporting module, modules for integration of technical interfaces, web capability, an user group concept and charting function. Besides time series capabilities also spontaneous values recording is provided.

This combination of the functions is uniquely developed for the energy market. **EMPURON** solutions are part of modern concepts for smart grid and smart metering, as well as conceived for energy efficiency solutions.

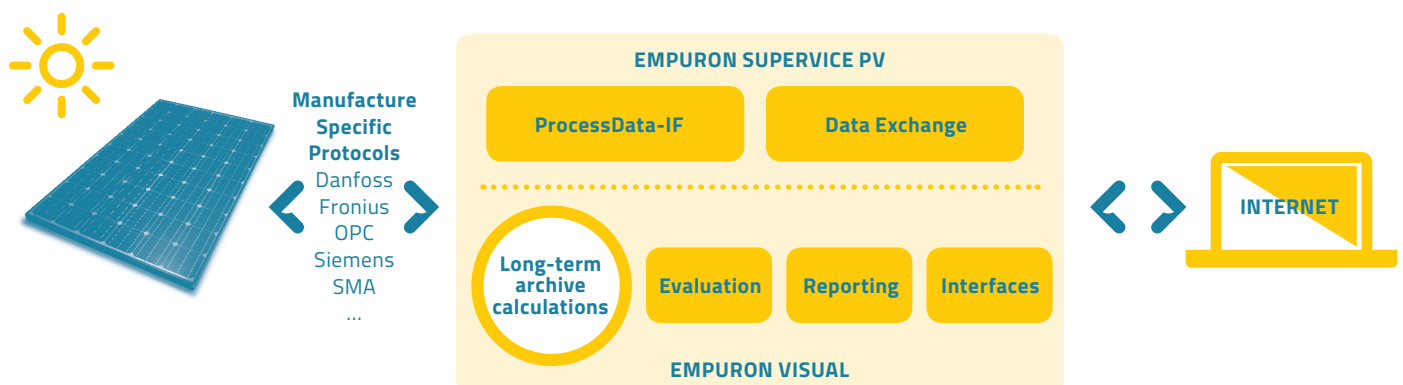
Application categories of the EMPURON portfolio

Solar, Wind, CHP, Green Buildings, Geothermal, Clean Transport, Fuel Cells

That are our skills

- Data analysis for Photo Voltaic Plants, Wind Plants and other decentralized energy systems
- Structured data collection for plant overall data operation
- Long-term data storage and Reporting
- Provision of big Historical Information Systems „HIS“ based on relational databases
- Monitoring and disturbance detection for plants
- Flexible integration frameworks for plant access
- Energy Efficiency Monitoring
- Provision of Business Intelligence functions for control systems

Example: EMPURON supervise PV for Solar plants





EMPURON VISUAL is a tool for a system-independent visualization and evaluation of messages, values and states of legacy systems, in distributed infrastructures (control systems, automation systems, ...) and in databases (archive, Data-Warehouses, ...). Standard workplace is e. g. a PC, connected to the Internet or Intranet.

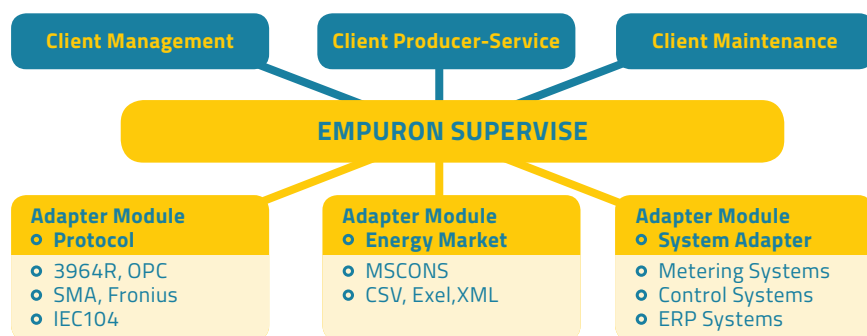


EMPURON HIS – Historical Information-System

With the Database-Solution **EMPURON HIS** (Historical Information System) **EMPURON** provides a scalable database in the terabyte dimension. Time series of large enterprises can be hold in access over several years online.

EMPURON SUPERVISE is a Monitoring-Solution, which automatically and manufacturer independent collects plant data and so the service and the working process supports.

EMPURON SUPERVISE saves your operating data and notifies the user respectively the service provider e. g. per E-Mail, SMS or voice as soon as deviations from the optimal plant parameters exist.



ADVANCED ISV PARTNER

JBoss components

The JBoss SOA Platform provides open and standards-based integration for energy data and applications. Together with the **EMPURON VISUAL**, **EMPURON SUPERVISE** and **EMPURON REPORTING**, the **EMPURON MIDDLEWARE SOLUTION** provides flexible, secure and customizable communication and data access.