

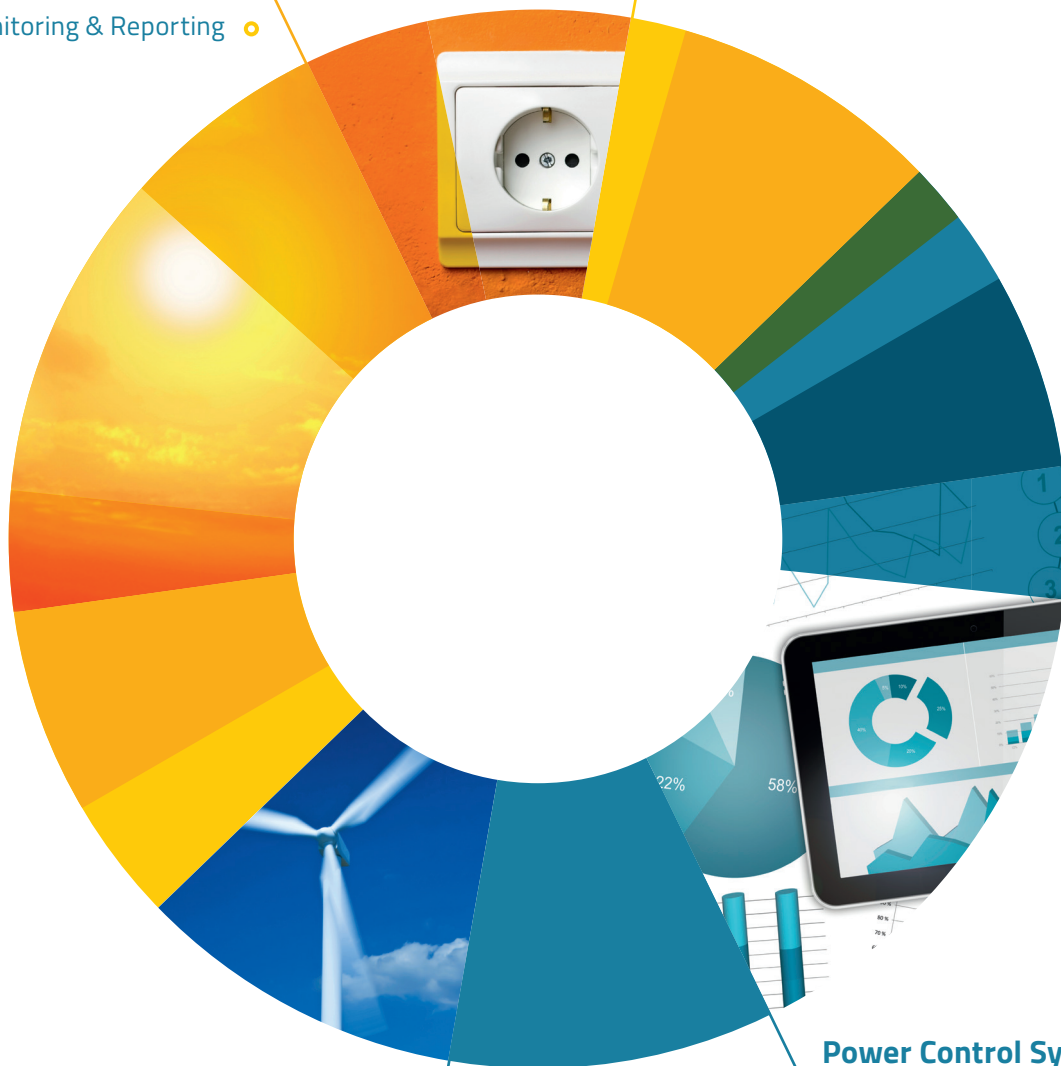
EMPURON PRODUCTS

Monitoring of Renewable Energy Plants

- PV Monitoring & Reporting
- WP Monitoring & Reporting

Support in network operations

- Metering applications for utilities
- Regulation tasks documentation for power generators and urban grids to calculate paybacks
- Monitoring of primary/secondary reserve energy
- SCADA system for Renewables



Next generation grid applications

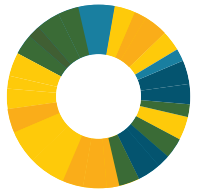
- Energy management using Renewables for Energy Plus companies
- Load shifting between different companies optimizing their system operation
- Control of Renewables – optimizing network operation and ensuring system stability (EEG)
- Simulation and optimization of energy networks of the future

Power Control System functions for network operation

- Archive and Reporting for Power Control Systems
- Supervision of control systems via SNMP



EMPURON



Providing
**smart energy
management
solutions**



Modernize, utilize and complete evolved energy markets – motor for the energy turnaround

Just nowadays many organizations in the energy market are confronted with adapting existing systems within given strategies and regulatory framework, to increase the efficiency of the processes. At EMPURON, the expertise and tools are available, which raise the execution of integration, management and controlling tasks to a new level. Technology and experiences of EMPURON provide the possibilities for integration both at the enterprise location and over Internet. Hosting solutions supplied by EMPURON create flexibility and save operating expense.

Portals – a good piece of integration

Via portals different partial solutions, systems and organizational units become reachable by a uniform user interface. Portals connect each work center in the Intranet or Internet with geographically arbitrarily distributed sources of information and create thus more efficiency and flexibility at the work. EMPURON has got a well-founded know-how in the field of portal technology and extensive experience in application.

Trendsetting technology

For the operation of renewable generation and energy network operation EMPURON server solution applications offer a full range of functions. The open data-warehouse solution is based on a middleware with a scalable computing power and outage prevention (using a redundant system structure). A set of components is web-based and independent of the operating system (for customer and service provider). Even Oracle or Microsoft SQL Server can be selected freely.

The functionality includes the combination of:

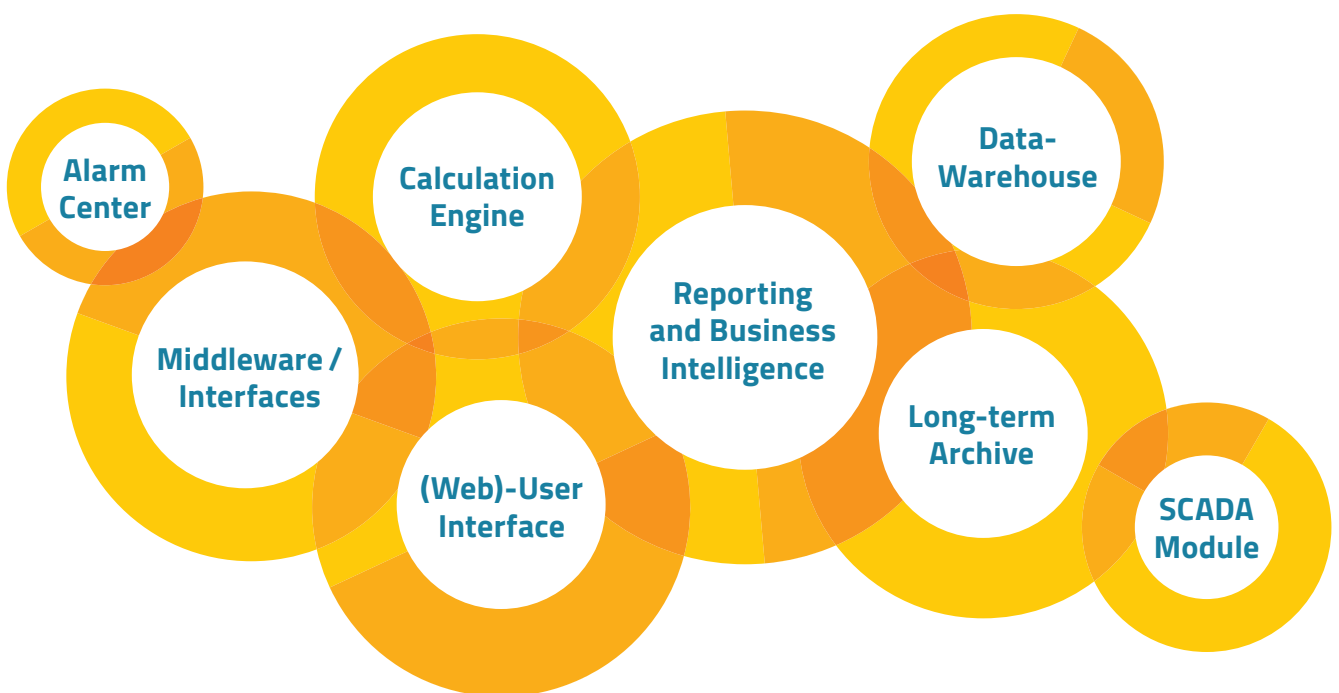
- **data-warehouse functionality**
- **SCADA**
- **reporting engine functionality / Business Intelligence**

EMPURON server solutions are able to provide the functionality for power generators of any size and network operation. The modularity and parameterization tools provide a full adaptability of the information contents.

The capabilities are:

- **Comprehensive system functions providing fitness also for future needs**
- **Integration possibilities of additional data sources e. g. metering**
- **Providing an open system platform**

Overall, the system is an intelligent platform for the equipment and energy management in the energy market of the future.



Project management – realize requirements time- and budget-faithfully

Parallel to the modern, technical challenges, the topic “project management” creates serious problems in many enterprises. More and more complex setting of tasks require a founded, methodical knowledge and experience in all disciplines of the project management. The employees of EMPURON dispose of a extensive know-how in project management and support during project planning and controlling.