![EMPURON logo]

EMPURON **Renewables SCADA**

Supervision and control of power plants and grids

Remote and local supervision, control and visualization of local and geographically distributed facilities

The **EMPURON Renewables SCADA** System is an integrated system for process monitoring and process control, optimized for large and complex distributed power plants like PV power systems, hydro-electric power systems, wind power systems, cogeneration plants.

EMPURON Renewables SCADA consists of hardware and software components.

Overview of EMPURON Renewables SCADA Software

- **Acquisition of process data**.
- **Visualization and presentation of acquired process data**.
- **Provision of an interactive HMI (Human Machine Interface) for system monitoring and control**.
- **Online real-time data processing**.
- **Data Warehouse and Application Server**.
- **System Maintenance**.

EMPURON Renewables SCADA

- Data Warehouse
- Calculation Engine
- SCADA hardware
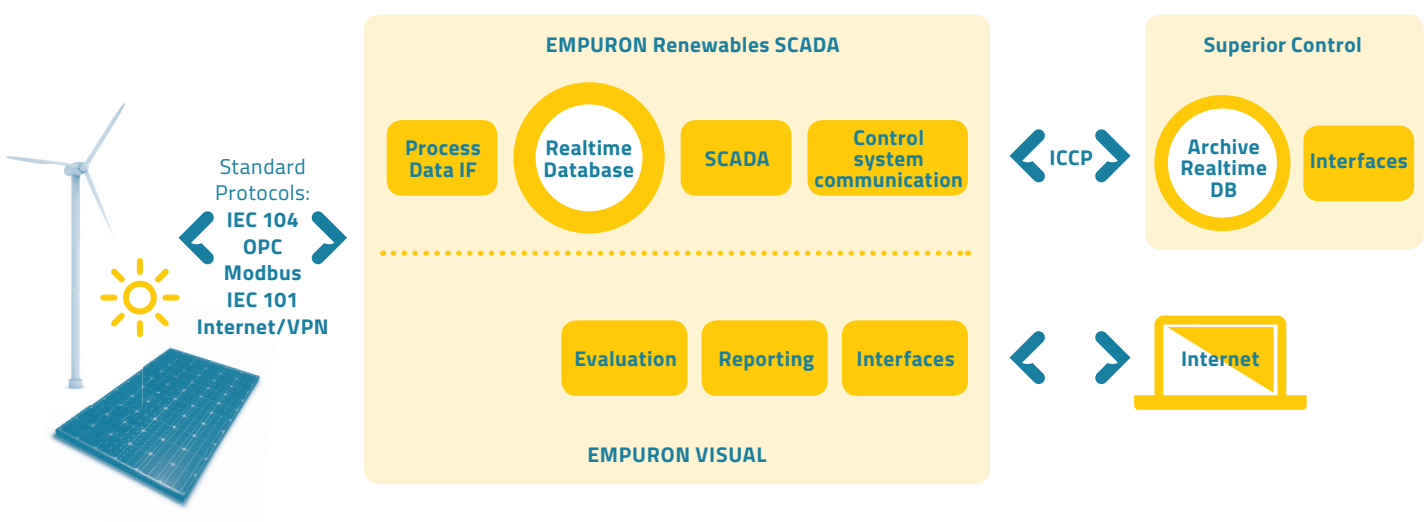
Process Data Acquisition

Automatic process data acquisition (various input process data) is provided periodically with either fixed or variable cycle.

The acquired data are stored in the internal memory-resident input process database and they are subject to local data processing in accordance with the implemented processing algorithms for the corresponding data types

Overview of EMPURON Renewables SCADA Hardware

- ○ **Local online real-time data processing.**
- ○ **RTU and PLC process control.**
- ○ **Remote data transfer and networking.**
- ○ **Data visualization and presentation.**
- ○ **Data processing and archiving.**
- ○ **Self diagnostics and system maintenance.**
- ○ **Interactive programming.**
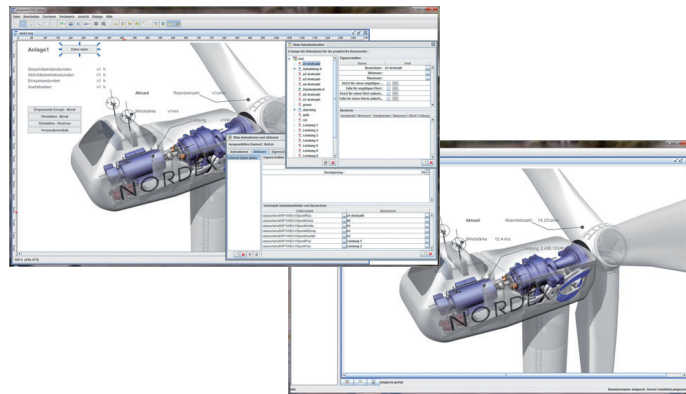
Plant overview with status and layout
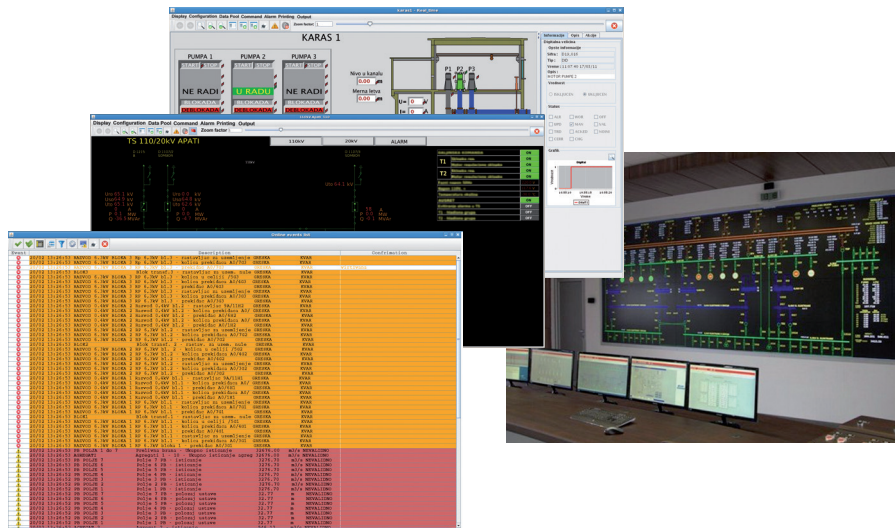
SCADA displays, message displays and control center