Balance Systems

Comprehensive solutions for the energy industry, industrial enterprises and energy traders

→ **consumption and supply under your control**
→ **efficient management of all types of energy**
→ **trading support**

A comprehensive solution for monitoring, regulating and balance applications for energy use and supply. Processing electricity, gas, heat and water measurement. A modular application with a broad range of functions for those involved in the energy market. Easy extension with applications for supervisory control and distribution network management.
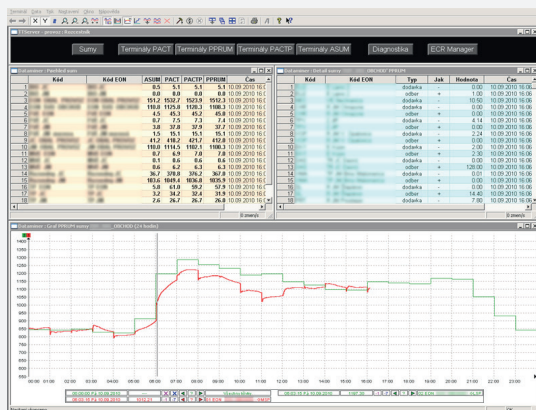
→ Basic Characteristics

- Distributed collection of meters data (electricity, gas, water, heat)
- Real-time on-line processing and visualization of measurements and signals
- Consumption diagram checks, regulation of production and consumption
- Prediction for diagram management
- Data processing for regulatory authorities and market operators
- Data warehouse (archiving of all types of quantities, parameters and regulatory interventions)
- Data exchange with external systems (SAP, Energy market operator, property records, etc.)
- System diagnostics and management (journals, logs, alarms)
- Transmission of status and error signals
- Remote control of breakers, disconnectors, and power factor controllers
- Measurement of P, Q, U, I, frequency, power factor

→ Typical Uses

- Acquisition and processing of power consumption and production data
- Energy management - optimization of energy and media use
- Support of Energy Management processes
- Regulation automation - quarter-hour maximum and power factor regulation
- Transfer point terminals
- Monitoring of production by contracted electricity suppliers
- Support for control centres of distribution companies, local DSO operators, large industrial companies, logistics companies
- Support and a base for trading control centre functions

→ Application Examples

- Balance system for a local distributor
- Industrial enterprise balance system
- Trading control centre with an extensive network of energy measurement terminals
- Terminals for regulating renewable energy production in the distribution network

→ TECHSYS Products and Solutions Used

- Energy Measurement Terminal (EMT) - Storm-00 and Storm-01 terminals
- Data Concentrator - Twister Software
- Visualization – SW TechSight, WebSight, MobilSight