



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.

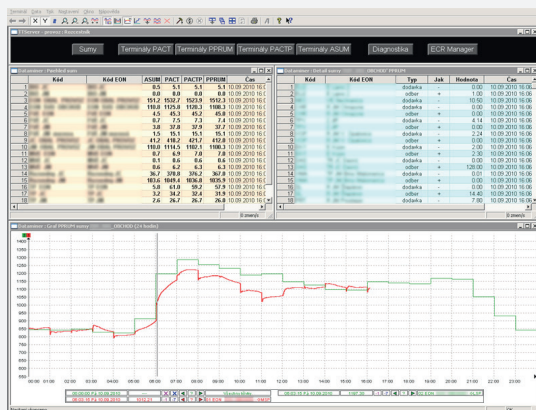
→ Basic Characteristics

- 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

Typ	1	2	3	4	5	6	7	8	9	10	11	12	13
1059.656	1032.572	999.455	991.209	1048.717	1168.889	1448.063	1542.130	1059.833	1546.981	1504.354	1440.270		
1438.213	1434.347	1406.184	1404.781	1434.184	1629.421	1950.505	2063.018	2099.621	2119.880	2110.887	2098.210		
56.135	56.396	55.941	56.390	56.591	55.396	53.988	52.249	52.290	52.463	52.789	53.057		
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.017	7.966	39.759	36.115	172.015		
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	2.626	17.104	35.369	41.084		
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.012	5.340	22.626	40.756	130.931		
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.007	3.345	14.191	38.092	82.088		
381.317	382.915	386.008	379.419	405.599	430.614	507.772	546.688	533.545	530.479	544.966	540.276		
1056.896	1051.432	1030.177	1025.362	1078.585	1198.807	1442.732	1516.330	1566.077	1589.401	1565.921	1557.335		
8.359	8.332	8.458	8.509	8.517	8.500	8.385	10.797	12.566	12.340	12.508	10.871		
1.545	1.417	1.415	1.441	1.445	1.444	1.399	1.384	3.054	3.558	3.459	3.512		
6.813	6.916	7.043	7.057	7.056	6.986	9.413	9.512	9.382	9.045	7.958			
302.380	304.976	307.884	305.940	322.393	341.178	420.232	459.102	444.544	429.622	426.795	415.193		
883.205	880.256	850.216	859.283	909.082	1016.570	1252.825	1326.187	1375.860	1377.039	1318.112	1247.990		
124.761	120.551	118.407	117.056	125.839	145.121	190.258	148.628	138.853	138.152	135.218	130.389		
26.518	26.086	26.568	28.055	32.164	38.744	38.417	37.357	34.773	34.198	33.481	32.208		
98.243	94.466	91.839	89.001	93.675	106.377	111.840	111.270	104.080	104.955	101.737	98.181		
12.500	13.438	15.136	13.622	12.165	13.302	11.137	11.237	13.008	16.943	17.573	15.130		
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		



→ 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

TECHSYS – HW a SW, a.s.

Prague Headquarters, Brezínova 640/3a, 186 00 Praha 8, Czech Republic

Branch Office České Budějovice, U Výstaviště 1485, 370 05 České Budějovice, Czech Republic

tel.: +420 222 541 896

techsys@techsys.cz

www.techsys.cz

