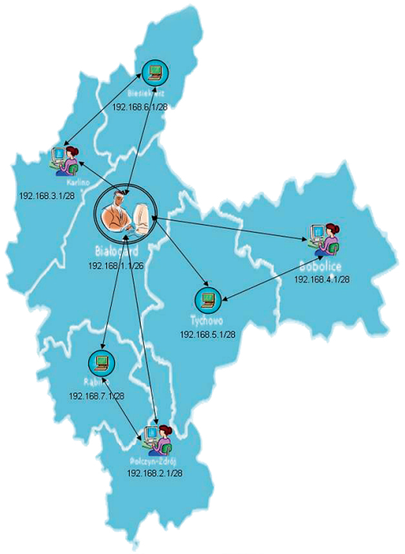
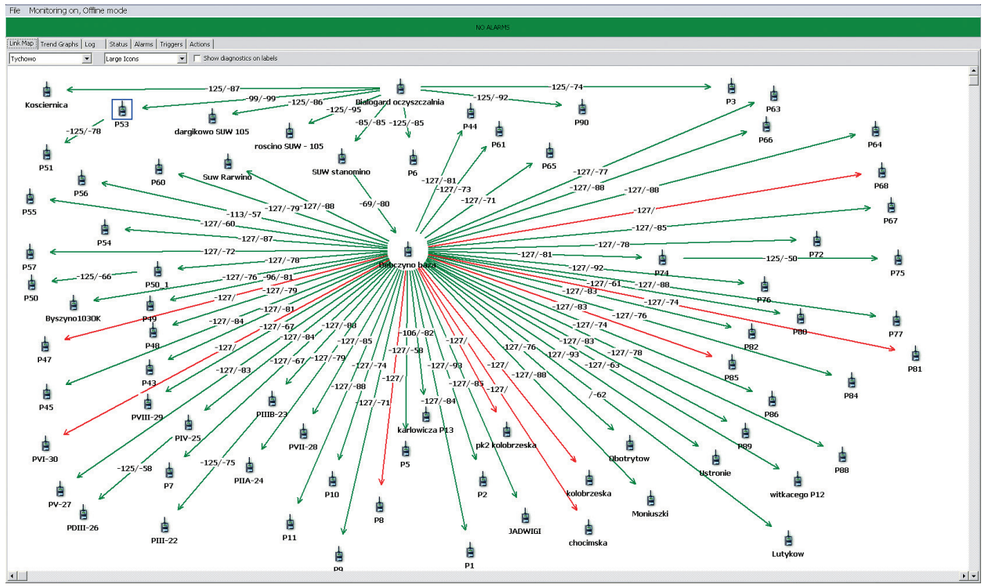
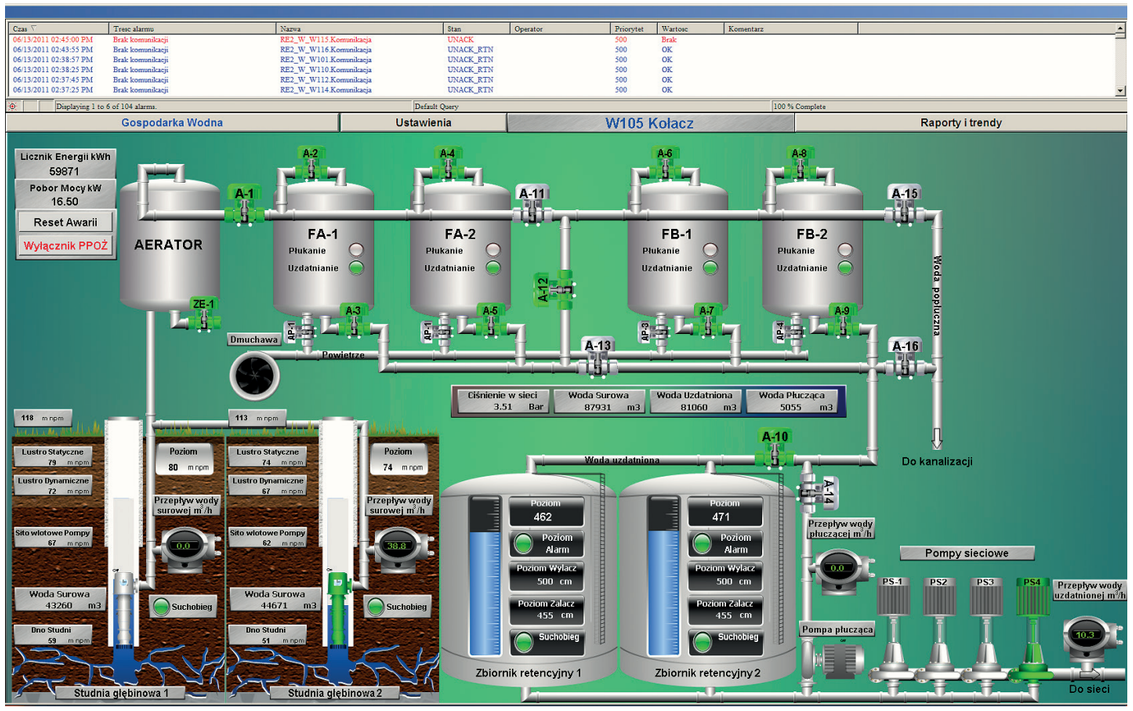


INTEGRATED WATER SYSTEM IN BASIN OF PARSETA RIVER - POLAND

RWiK* waterworks company from Bialogard was formed by the consolidation of several local units responsible for water treatment and wastewater management in the area of 8 provinces in basin of Parseta river in Poland. New investments in automation have contributed to the dynamic development of the company. During only a few years the area the company is responsible for has doubled and the number of water stations has tripled. Currently, RWiK Bialogard is responsible for an area of nearly 1200 km^2, reaching an annual turnover of 10 million EUR. The company is also one of the three beneficiaries of the project: "Integrated Water System in basin of Parseta river", which was financed with EU co-funds.





*short for Regionalne Wodociagi i Kanalizacja Sp. z o.o.

RWiK Bialogard was responsible for the construction of the new water network and modernization of the existing water facilities and sewage networks in the municipalities of Bialogard, Biesiekierz, Bobolice, Karlino, Polczyn Zdroj, Rabino and Tychowo. The main goal of investments was cleaning up all the water in the river merging Parseta. The initiators of the project were all municipalities, located in the upstream of the river, so the process was dependent on the integrated co-operation of many entities. Due to the complexity of the system and the large size of the area, the project has been divided into 14 contracts. The value of the project was estimated to be around 100 million euros.

Pumping stations are equipped with PLC controllers produced by Horner APG and SCADA based application monitoring system was developed by Invensys Wonderware. Data from 392 objects are collected via SATELLINE-3AS NMS radio modems with Network Management System software produced by SATEL Oy. ASTOR Sp. z o.o., SATEL's local distributor in Poland, has delivered all components for project.

Significant improvements in every field

The implementation of the project made it possible to deliver water and treat wastewater in developing areas. Increasing the amount of wastewater supplied to treatment plants improved their efficiency from 40% up to 70%. Also the quality of water supplied to residents is now much better – 100% of the water meets the standards. Downtimes in water supply are now eliminated completely and losses are significantly reduced. Objects are well protected so that even the loss of the PLC controller doesn't stop the system, thanks to the double, and in some cases – triple control, and the possibility for manual control in emergency situations. Radio modem system reduced the time used in diagnosis and troubleshooting. Now, thanks to the system, it is possible to monitor 392 facilities including sewage pumping stations and networks, water treatment plants and sewage treatment plants.

Applications in a nutshell

Construction and modernization of water network

- Cleaning up the water
- Better water quality
- No more water supply downtimes
- Reduction of water supply losses
- SATELLINE-3AS NMS collects system data

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