

CUSTOMER CASE



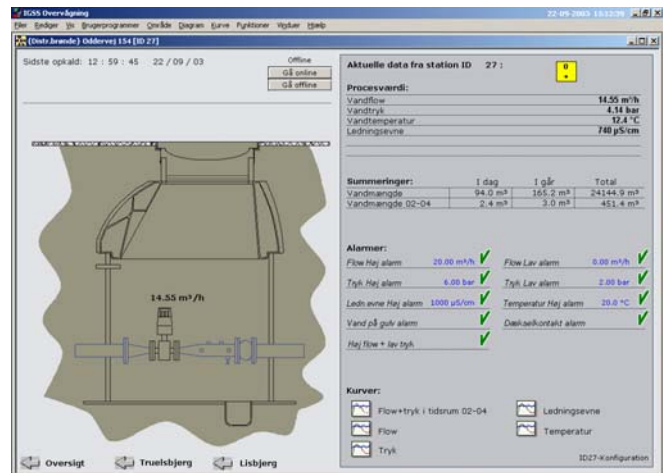
Aarhus Municipal Works

Water Supply

Denmark

Plant Description

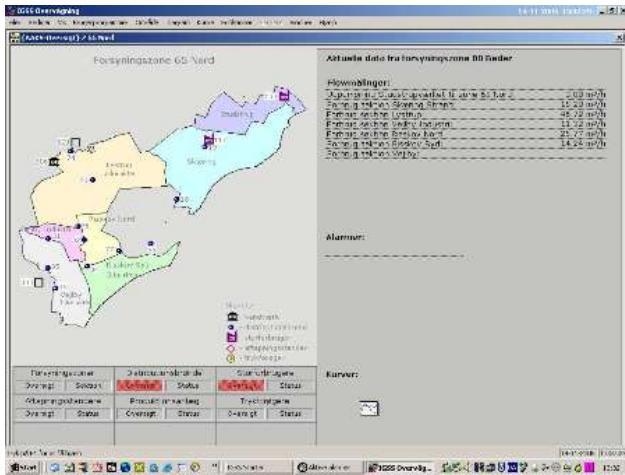
Aarhus Municipal Works (ÅKV) wanted to improve water quality and reduce water loss. This was to be achieved through optimization of performance and maintenance of the distribution network. For this reason, ÅKV launched a project under the name "Better water for Aarhus". To solve the project assignments, a quick data collection was needed. Frequent communication with each measurement well once every 10 minutes of operation was required, with the possibility of logging measurement well data down to 10 second intervals. The log data was to be transferred to the main station. A GPRS solution from MJK was chosen. This was probably the first pure GPRS/SCADA solution in Denmark – maybe in the world.



NIRAS was System Integrator on the project. Their assignment was to establish a new SCADA system with collection of data from 70 measurement wells, and data collection from large-scale consumers, drainage apparatus, and boosters. Additionally, data from the existing SCADA system was to be added. NIRAS were also used as specialized consultants regarding dataflow, data architecture, and Microsoft SQL server.

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NIRAS established an AQUIS-portal as an ASP-solution. ÅKV's requirements were to collect data from a series of measurement wells and use the data for alarms activation in case of stoppages as well as using the collected as a data source for the AQUIS model.



IGSS

The configuration at ÅKV is an IGSS multi-user version with 5,000 objects on a Windows 2003 terminal server, where both traditional operator stations and thin clients are connected.

AQUIS

AQUIS was installed concurrently with IGSS. AQUIS collects data from the IGSS system, so that the nightly consumption can be analyzed with regards to water leaks. AQUIS was installed in Aarhus by WaterTech.

Owner

Municipality of Aarhus

System Integrator

NIRAS