

SYSTEM 800XA CASE STUDY

ABB Ability System 800xA solution specially adapted for water management

ABB's Water and Wastewater management offering is helping municipalities across Sweden cope with mounting challenges by leveraging digitalization to enhance system security, development and maintenance. Utility company TEMAB in the Uppland municipality of Tierp is just one local services provider that has been able to future-proof control and monitoring of its water processes thanks to System 800xA.



Many municipal water management companies in Sweden are grappling with major challenges. Outdated systems, an uncertain economic climate and increased safety requirements are putting increasing pressure on local administrations especially those covering wide geographical areas with few inhabitants. Tierps Energi & Miljö AB (TEMAB), which is responsible for wastewater and stormwater management, as well as supplying drinking water to around 20,000 residents, was previously struggling with an outdated water management system that was neither maintained nor developed at a satisfactory pace.

“What we needed was a reliable water management system with sufficient resources to enable continuous development. It's very important for us to have a secure and stable system that's easy to manage and where you can easily expand the functionality as the system grows,”

Klas Jakobsson, System Administrator at TEMAB.

01 JOB WELL DONE: Klas Jakobsson (left), System Administrator at TEMAB with Staffan Zakrisson, System Engineer at GP Engineering AB.



Investing in System 800xA was the right choice
TEMAB chose to invest in a new DCS system for monitoring and controlling water processes, and with System 800xA the company's operating conditions have dramatically improved.

"We've now got a system that's maintained and developed in a completely new way. It's a new experience for our operators to work in a real-time environment. We can create objects tailored to our business needs and operators' needs, and we will continue to develop the system with more communication options," says Jakobsson.

An eagle eye on engineering costs
Water management is a socially critical function with high demands for efficient operation and safety. TEMAB therefore conducted detailed studies prior to its purchase of a new system, with a strong focus on lifecycle costs in addition to accessibility and functionality.

"We looked a lot at the engineering time required to build and maintain the system. Many systems on the market require a relatively large amount of engineering time, so a key factor with System 800xA was that so much is included in the delivery,"

Staffan Zachrisson, System Engineer at system integrator GP Engineering.

Competitive 'starter package' for water management plants

ABB's specially adapted water management solution based on System 800xA addresses exactly the challenges that municipal utilities are facing. The starter package for small and medium-sized plants corresponds to 4,000 signals, but can also be scaled up for larger operations.

"ABB's starter package is an industry-customized, flexible DCS system that's easy to maintain, make changes to, and expand over time. It increases availability, safety, efficiency and productivity, and because we invest a lot in developing the digital platform, System 800xA can effectively secure optimal control and monitoring of water management processes now and in the future," says ABB Sales Engineer Joachim Niss.