



## Water and sewage

### New SCADA system for the town of Borås

The town of Borås has a population of 100 000 people. Drinking water is produced in 8 water treatment plants that produces 8,8 million cubic meters of water every year. Nine sewage treatment works takes care of 15 million cubic meters of sewage water per year.

In addition to the water treatment works and sewage treatment works there are 37 pressure step up stations, 16 reservoirs, 97 sewage pumping stations and about 1520 km of water and sewage pipes.

It is needless to say that the operation and supervisory of the water and sewage system for an entire town is a complicated task.

– We have in total about 100 PLC-systems with a total of 20 000 signals. Novotek has delivered the supervisory system that handles our entire operation, says Lars Jonasson, responsible for the process computer system at Borås W&S.

#### CONTINUITY AND FUTURE PROOFING

The SCADA system installed by ABB in 1995 started to create problems in 2006.

– The capacity was too low according to Lars Jonasson.

– But there was another side too. The system started to get outdated

*“Novotek gave us a system that preserves old experiences and at the same time adds new technology and openness to the future.”*

Lars Jonasson, responsible for the process computer system at Borås W&S.



The water supply in Borås is safe guarded with a new SCADA system from Novotek.

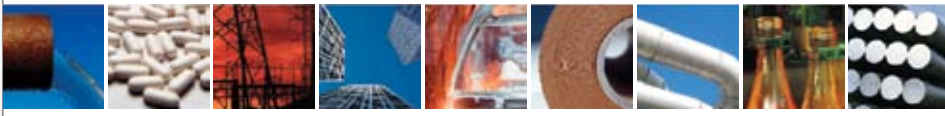
and the number of people that could master it was greatly reduced. We wanted a new system that could preserve old well working functions and at the same time add new technology and be open towards the future.

#### THE OPERATORS CARRIES ON AS NORMAL

Novotek took the challenge to bring the configuration from the old ABB system into the new iFIX operator system.

– At Novotek we have developed an efficient method to treat the old configurations and transfer them from the old system to the new. The accurate migration has among other things meant that it has not been necessary to test each and every signal; a great advantage says Magnus Linnér who was responsible for the architecture at Novotek.

– All information present in the plant was migrated into a new error free configuration. At the same time



the old base for the communication with all the control systems was replaced with a modern and easy to maintain Ethernet based communication.

The new process pictures and operator screens are very similar to the old ones. This means that the operators can work in a similar manor as they used to. All operators in the different plants can see each other's plants. They have also been able to trust the information in the pictures all from the start.

**AN EXTENSIVE PROJECT - WITH A CONTINUATION**

The new system handles a great number of different functions. It consists of the SCADA and HMI system iFIX and Proficy Historian for archiving of signals. The system



handles all start and stop of equipment, all control loops, alarm distribution via Text messages to mobiles, remote diagnostics from all connected PC's, reporting of environmental data to the authorities, logging of trends, own analysis in Excel etc etc. The personnel have become more flexible since they now can log in via Internet and web-interface where ever they are. They can see the same operator screens if they are at home on call or if they are at work.

– Novotek got the assignment since they were able to show us how they could migrate data in a secure way from the old system and because they could provide us with an open and future proof solution, says Lars Jonasson.

– We can now maintain the system much on our own. If we have an emergency we can always contact Novotek who provides us with a 24/7 service agreement. Usually if there is a problem or there is something we want to have done this can be done over an Internet VPN-connection.

*Borås W&S worked out a future proof solution that preserves past experience and combines it with new technology.*

## FACTS

### COMPANY

The municipality of Borås,  
Water & Sewage

### SOLUTIONS

- Operator and SCADA system
- Alarm distribution
- Logging of historian data
- Environmental reporting
- Remote diagnostics

### PRODUCTS

- 2 Proficy iFIX SCADA servers
- 2 Proficy iFIX main work stations with double screens
- 2 Proficy iClient Terminal servers for up to 20 simultaneous logged in users
- New fiber network

### ADVANTAGES

- An integrated operator- and information system
- Fast to learn
- Environmental reporting according to legal requirements
- Standard communication over Ethernet, easy to maintain
- Increased capacity and expansion possibilities
- Open system that gives flexibility when choosing supplier
- One of the world's largest SCADA system suppliers means future proof

For more information on our smart solutions, please visit our website [www.novotek.com](http://www.novotek.com)

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