FLYGT
a xylem brand

Case study
Söderhamn Nära

Swedish municipality gains total overview of water and wastewater operations

Importing 50 pump stations into AquaView 7 in less than one day

In less than a day, the District Operations Manager at Söderhamn Nära single-handedly installed the new AquavView 7 and imported 50 pump stations from AquaView 1.6, adding customized graphical overviews of the majority of his operations within just over a week.

The challenge:
Surrounding a deep bay on the Baltic coast, Söderhamn municipality lies some 250 km north of Stockholm, Sweden. At the heart of the region's wastewater treatment is a sensitive wetlands area, which helps to further reduce the content of organic substances, phosphorous and nitrogen in the 2.5 million cubic meters of treated wastewater that is discharged annually from one of the municipality's largest wastewater plants. This places strict environmental demands on the facility and makes intelligent wastewater treatment critical to the health of the local ecosystem.

Söderhamn Nära's water and wastewater operations serve 25,000 local inhabitants across an area of more than 2,000 km^2. The operations include five water purification plants, six treatment plants, 96 wastewater pump stations and ten water booster stations. Together, they treat as much as 4 million cubic meters of municipal and industrial wastewater and produce 2.3 million cubic meters of drinking water annually. For Gunnar Ericsson, District Operations Manager at Söderhamn Nära, an advanced SCADA system is crucial to effective management and planning of such a complex and geographically diverse water and wastewater treatment system.

"AquaView 1.6 has served us well for a number of years, but we were in need of an upgrade to a more modern system. One that gives a more complete overview of our operations and is easier to use for all our staff."

The Xylem solution:
According to Mr. Ericsson, upgrading to AquaView 7 could hardly have been simpler. In less than a day, with some assistance from Xylem's telephone support, he was easily able to import 50 pump stations from AquaView 1.6. "I'm convinced that anyone could set up and customize this

"It was very simple to get up and running. It was intuitive, and there were quite a few 'wow' moments compared to the old system" says Mr. Ericsson, pictured here at Granskär wastewater treatment works.

Customer: Söderhamn Nära
Challenge: To upgrade to a more intuitive, customizable system with a comprehensive operational overview
Product: AquaView 7
Result: Installation in less than one day by a single person, with fully customized real-time overviews implemented in just over a week.

system with only Flygt's telephone support," he explains. The remainder of the company's facilities will be imported shortly, following an internal hardware installation that the company had previously prioritized.

Walking us through the system, Mr. Ericsson demonstrates some of the customized graphical overviews he and his staff have added over the past week, showing the actual water levels in each pump, a real-time cross-section of the water tower, and animated trucks transporting sludge and compost. "All I have to do is scroll over the truck to see where it's headed," he adds with a smile.

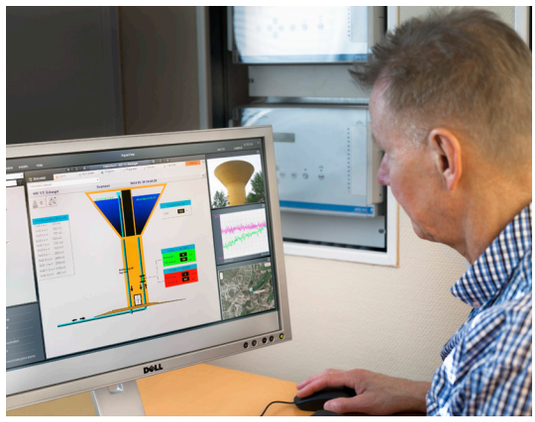
"From a graphical standpoint the system is greatly improved, and it is much easier to create your own overviews exactly as you want them."

Among the new features he appreciates most, Mr. Ericsson singles out three in particular: the system's Google maps functionality, linked pump stations, and the ability to generate customized reports from nearly any data in his system. "Two of the most positive experiences," he says, "were the new integrated map handling and the linking of wastewater pump stations, especially when you consider future employees who might lack specific local geographic knowledge." The ability to link pump stations and see their specific locations, he explains, makes it possible to see the entire pumping chain from start to finish, "all the way to the treatment plant."

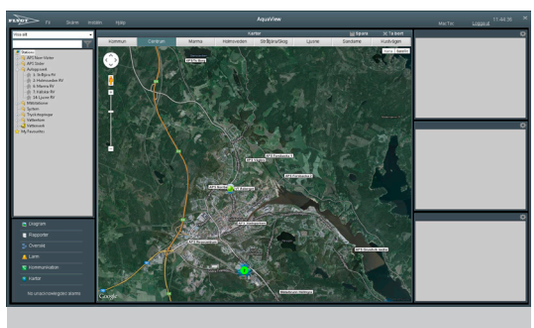
Söderhamn Nära agreed to install AquaView 7 as part of a trial period, which allows them to install and experiment with the software before fully implementing it into their operations. Having only run the system in parallel with their still-operational AquaView 1.6, Mr. Ericsson nonetheless sees great potential for the upgrade, during which they plan to transfer over to the new system. "Because the new system is so simple and user-friendly, the idea is that in the future as many people as possible will be able to use it – both administrative and operations staff." The ability to use AquaView 7 on mobile devices is an added benefit, he says, making it even more useful in the field. "The system is much more adapted for usage with iPads, which especially suits the younger generation."

The result:

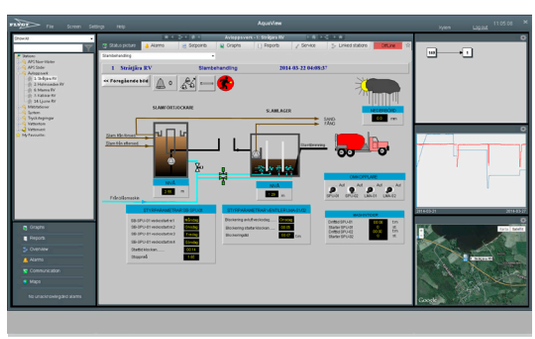
After less than two weeks running in parallel with their existing AquaView 1.6 system, Söderhamn Nära has used AquaView 7 to create fully customized real-time overviews of 50 pump stations, six wastewater treatment plants, five water purification plants, one water tower and a fleet of sludge transport trucks. The company now plans to import its remaining facilities and implement AquaView 7 throughout its operations.



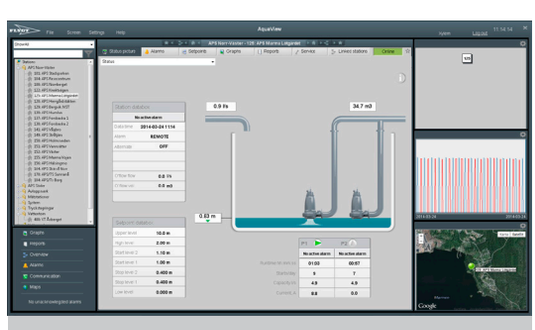
Mr. Ericsson monitors the performance of his water tower with a customized graphical interface.



The new Google maps function, shown here linking to ten local pump stations surrounding the town of Söderhamn.



A customized overview showing real-time performance statistics for Stråtjära wastewater treatment plant, departure times for sludge transport vehicles, weather conditions and more.



A click on each pump station reveals its location, real-time performance figures and current water levels.

XYLEM
Gesällvägen 33
174 87 Sundbyberg, Sweden
Tel +46 8-475 60 00
www.flygt.com

xyleminc.com