Swedish Wastewater Company Reduces Energy Consumption

Xylem reduces energy consumption of wastewater pumping station in Sweden by 50 percent with Flygt products.

Xylem Inc., a leading global water technology company focused on addressing the world's most challenging water issues, has reduced the energy consumption of a wastewater pumping station in Sweden by 50 percent using its award-winning Flygt Experior solution. At a second station also in Sweden, Xylem's Flygt SmartRun control system — one component of the Flygt Experior solution — has cut the energy use of the station by 30 percent.

Built in the early 1970s and serving approximately 450 households, Dalarna station is located in central Sweden. The station connects to a 300 meter long pipe, pumping wastewater from one side of a lake to the other. Melting snow, as well as heavy rainfall during spring, dramatically increases the inflow to the station. To prevent flooding, oversized pumps were installed that consumed more energy than necessary when running at normal inflow. The challenge to Xylem was to install a system that could handle severe variations in flow more efficiently.

Xylem's Flygt Experior system, including the Flygt SmartRun control and a Flygt N-pump were installed at the station in July 2012. Flygt SmartRun is one of the three key components of Flygt Experior which combines state-of-the-art hydraulics, premium efficiency motors and intelligent controls to deliver the ultimate in reliability, efficiency and simplicity.

Anders Fredriksen, head of wastewater transport with Xylem said, "Flygt SmartRun is optimised to achieve maximum energy savings and cleaning within wastewater pumping systems. A key feature is the patented energy minimiser function which reduces energy consumption compared to conventional on/off systems. This makes

SmartRun especially suitable for use in a pump station where the inflow varies considerably and the friction losses are greater than the losses of the static head."

At another pump station in Sigtuna, Sweden, outside Stockholm, Xylem installed a Flygt SmartRun pump controller on each pump in the station. The Sigtuna station was built in 2006 and has an inflow of approximately 65,000m3 annually. Since being installed in 2011, the SmartRun controller has reduced the energy consumption of the station by 30 percent according to tests.

Xylem is a leading global water technology provider, enabling customers to transport, treat, test and efficiently use water in public utility, residential and commercial building services, industrial and agricultural settings. The company does business in more than 150 countries through a number of market-leading product brands, and its people bring broad applications expertise with a strong focus on finding local solutions to the world's most challenging water and wastewater problems. Launched in 2011 from the spinoff of the water-related businesses of ITT Corporation, Xylem is headquartered in White Plains, N.Y., with 2011 revenues of $3.8 billion and 12,500 employees worldwide. In 2012, Xylem was named to the Dow Jones Sustainability World Index for advancing sustainable business practices and solutions worldwide.

The name Xylem is derived from classical Greek and is the tissue that transports water in plants, highlighting the engineering efficiency of our water-centric business by linking it with the best water transportation of all - that which occurs in nature. For more information, please visit us at www.xyleminc.com [1].

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