

Penttilänranta Pumping Station Joensuu

Application market	Wastewater
Market segment	Wastewater Collection Wastewater Treatment
Pumped medium	Raw, unscreened wastewater
Pump product	Immersible
Country	Finland



Challenge

Equipping one of the two inlet pumping stations to the sewage treatment plant of the city of Joensuu. The pumping station, which is in operation since 2013, is very clean and well maintained.

Solution

Installation of four Immersible, Screw Centrifugal pumps. The pumps are operated with frequency converters to regulate the flow rate. Supply from pumping station to the sewage treatment plant is provided with two separate flow lines.

Benefits

Improved pump performance and higher reliability of the entire pumping station:

- In parallel operation with separate supply line, large flow fluctuations can be absorbed and
- Risk of debris and sedimentation in the pipelines is considerably reduced.
- Reduction of energy consumption through speed-controlled flow rate regulation

Quantity of units sold	4
Pump type	F06G-EMN3R
Motor data	30 kW Immersible Motor
Material combination	Stainless steel impeller with Hidrohard wear parts
Duty point	Flow : 40 – 83 litres per second
In operation since	2013