

High-quality measurements and analyses guarantee cleaner wastewater

Mikkeli Waterworks



The construction of the new Mikkeli wastewater treatment plant is part of the wider EcoSairila 2020+ project, which involves creating a new type of business, research and development environment related to the circular economy near the existing waste center. The new wastewater treatment plant is one of the most modern wastewater treatment plants in Europe and the whole world. The plant is excavated into rock to minimize the hazards to the environment.

Endress+Hauser supplied the new wastewater treatment plant in Mikkeli with a broad set of instruments and a customized sample processing solution. As the service contract partner of the Mikkeli plant, which was put into service in summer 2021, Endress+Hauser also maximizes the functionality of measurement during plant operation.

The Mikkeli wastewater treatment plant was relocated from its previous location near the downtown area of Mikkeli to the new Metsä-Sairila waste treatment plant. Excavated into rock, this water treatment plant is one of the most modern waste treatment plants in the Nordic countries.

“With the relocation of the wastewater treatment plant from the Kenkävero area to Sairila, the entire water purification process was made even more efficient and environmentally friendly. The ambitious objectives for the new plant also affected the requirements

set for the project and the partners responsible for its implementation,” says Director of Mikkeli Waterworks **Reijo Turkki**, who commissioned the project.

Mipro Oy, an expert in water and energy services, was in charge of process automation for the new plant, and Endress+Hauser supplied the complete instrumentation as part of this process automation. Endress+Hauser was selected as the equipment supplier based on its experience, wide range of products and comprehensive solution.

“Endress+Hauser is one of the few equipment suppliers in Finland that specialize in such broad solutions and water services. We supplied the new plant with hundreds of measuring devices for such things as critical flow, pressure, temperature and level measurement, as well as analyses that will be connected to the automation system supplied by Mipro,” says Sales Manager **Martti Ikonen** from Endress+Hauser.



Cooperation will continue from commissioning to maintenance

For Endress+Hauser, project planning started in 2019, and the first deliveries were made in spring 2020. The instrumentation primarily utilized Endress+Hauser's ready-made solutions, but the sample processing solution was customized to meet the client's needs.

"We saw room for development in the plant's sample processing process. Fortunately, the client also accepted our proposal, as now the sampling system offers a more functional solution for the client," Ikonen says.

"The close cooperation in the design phase also ensured that there was no

need to order the equipment until the positions were decided. Despite the pandemic, we were able to deliver all of the equipment on schedule," states Head of Projects and Service **Ville Ahokas** from Endress+Hauser.

The wastewater treatment plant was successfully put into service in early summer 2021. Both Reijo Turkki from Mikkeli Waterworks and Aki Muinonen from Mipro Oy commend the cooperation model between Mipro, Endress+Hauser and maintenance. Cooperation with Endress+Hauser will also continue in the form of service and support contracts once the plant is put into service.

"Smart Support and the comprehensive service contract

for the analysis equipment and analyzers ensure efficient support for equipment maintenance and, through it, maximize the functionality of measurement. From the client's perspective, this is an easy solution that guarantees quick service and support throughout the device's life cycle," Ikonen says.

"Our role as an equipment supplier naturally expanded into a comprehensive partnership, covering everything from design to commissioning and maintenance. In fact, the project took advantage of almost the full range of expertise offered by Endress+Hauser," Ahokas adds.

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