

CASE STUDY

INSTALLATION WITHOUT PRODUCTION DISRUPTION TO WORLD LEADING PAPERMILL IN NETHERLANDS

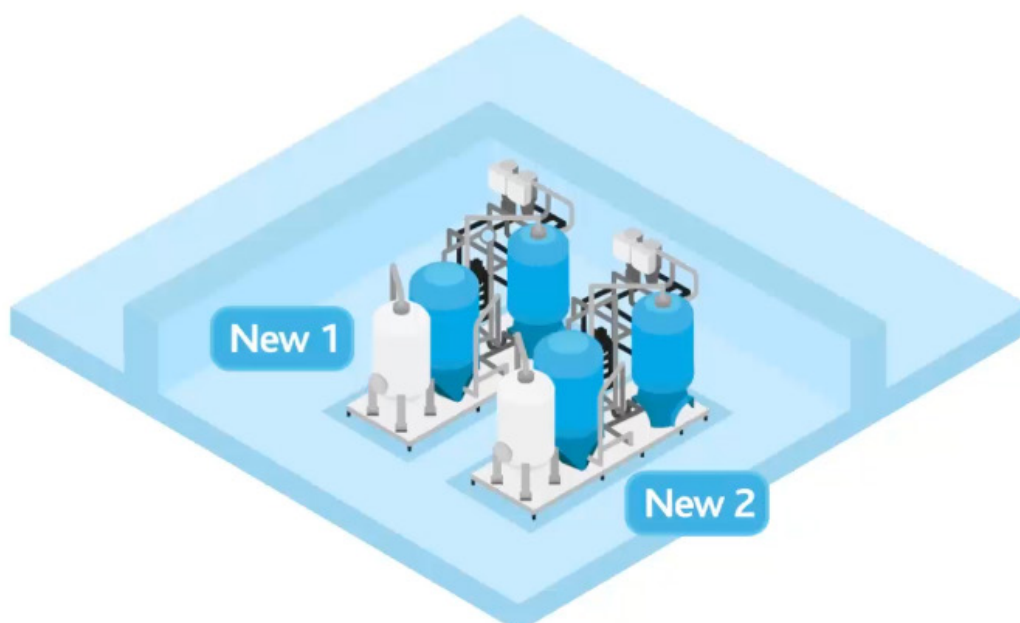


Maintaining a reliable and sustainable utilities supply is one of the key challenges for the manufacturing section. Ensuring water volumes are continuously achieving the highest specifications whilst simultaneously maintaining suitable volumes is key. A bespoke ion exchange system comprising of counter current, packed bed, ion exchange skids and mix-bed polishing has allowed our client to achieve these aims.

The manufacturer is a world leading, multi-national producer of paper and packaging. When faced with the dual issue of tightening water specification due to a high-pressure boiler upgrade, and an existing water treatment system reaching the end of its service life, they wanted to explore the best technology options to meet their changing circumstances.

Upgrades to a boiler capable of operating at a pressure greater than 40 bar meant feedwater qualities having to meet the criteria laid out in EN 12952-12. A continuous water supply with low conductivity of <0.2 microsiemens/cm and silica content <20 ppb was critical.

*In house experts were used throughout the design,
installation and commissioning phases*



WORKING TOGETHER AND MAINTAINING PRODUCTION



BILL DENYER,
UK and Europe CEO at Envirogen, states:

"The Envirogen Group has worked with process critical manufacturers for many years. As a major business in the packaging industry, it was key that our client maintained power and steam to site to maintain production. During the initial consultation, we work closely with the customer and felt the application was ideal for the EcoPure ion exchange skids.

These units offer high purity water thanks to packed bed, counter current, ion exchange columns. Market leading control software means the water output is delivered at low operating costs. We were delighted when they decided to put two EcoPure skids at the heart of their treatment process.

Our engineering team developed a phased implementation plan which removed the need for temporary mobile water treatment units. This meant installing the new EcoPure skid 1 system in a temporary location and removing the Old stream 2 system & installing/commissioning the New EcoPure skid 2, removing the Old stream 1 system and replacing it with the New EcoPure skid 1 system from the temporary location."

KEY OUTCOMES:

- To deliver water continuously the plant design consisted of two EcoPure skids linked to a central PLC control system. Siemens PLC equipment and inverter drives help to deliver robust, economic performance through every process stage of the units' design.
- Envirogen provided a full system package inclusive of bulk chemical storage solutions.
- UK manufacturing of the skids allowed for a functional FAT prior to delivery. With project management and process engineering service being provided from the UK to support the Envirogen team based in the Netherlands.
- Envirogen's expert process engineers used throughout the design, installation and commissioning phases of the project.



ABOUT THE CLIENT

The manufacturer is a world leading, multi-national producer of paper and packaging.

ABOUT ENVIROGEN

Envirogen is a leading international provider of water and wastewater treatment solutions. We solve complex challenges relating to water availability and quality, and help our customers to increase productivity, reduce costs and meet environmental and sustainability targets.

We do this through offering:

- Best in class water and wastewater treatment and process filtration technology
- Expertise in design, project management and engineering
- World class manufacturing and servicing capability



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