

VEOLIA SUPPORTS MAJOR PHARMACEUTICAL MANUFACTURER AT ITS FACILITY IN BELGIUM

CASE STUDY | Pharma, Belgium



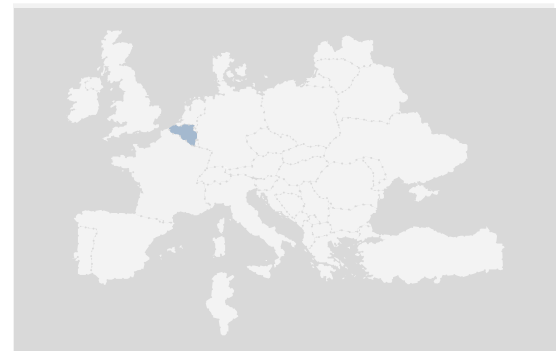
| The client's needs

For more than a decade Veolia has worked in partnership with a multinational pharmaceutical manufacturer at its vaccine manufacturing site in Belgium. Veolia has supplied leading water treatment solutions specifically designed for the industry as well as delivering on-going service and support

| The solution

The site is home to a major vaccine production facility and has undergone significant investment to increase its capabilities. Veolia first worked with the team at this site in 2013, supplying its multi-technology Orion™ water treatment solution for the generation of pharmaceutical grade purified water. The Orion™ unit has been designed specifically to meet the needs of pharmaceutical, healthcare and biotechnology clients. Since the initial project in 2013, the manufacturer has invested in a total of 16 Orion-based treatment solutions, tailored to the needs of each application within the site. These new units have been used to expand purified water capacity by working in parallel with existing units; as part of new developments to increase the site's capacity; and for the upgrade or replacement of older equipment. Veolia has also provided water softening pre-treatment equipment and water treatment solutions for the site's cooling water requirements.

The skid-mounted Orion™ water treatment unit includes softening, reverse osmosis (RO) and continuous electrodeionisation (CEDI) as its core technologies with a range of additional pre- and post-treatment steps. Importantly, the Orion™ units are fully heat-sanitisable at over 80°C, ensuring complete and reliable sanitisation without the need for chemicals. Orion also features automatic sanitisation functionality, meaning the on-site technicians do not need to be physically present, helping to maximise resource availability.



Belgium

A leading global pharmaceutical and healthcare company operating multiple manufacturing facilities across Europe. With a strong commitment to sustainability and operational excellence, this organization maintains stringent quality standards while managing complex water treatment requirements across its production sites. Its site in Belgium required a solution to expand its purified water capacity.

Key Figures

Over 10 years of collaboration

16 Orion™
units installed

90%
Water recovery

At over 80°C
Orion™ units are fully heat-sanitisable



| Results

Furthermore, Orion™ meets the quality standards outlined in the European Pharmacopoeia (Ph Eur), US Pharmacopoeia (USP) and Japanese Pharmacopoeia (JP), and is fully compliant with FDA, cGMP and GAMP requirements. To ensure compliance, the Orion™ includes full monitoring of water quality parameters.

Importantly for the client, the Orion™ also helps the manufacturer to achieve its sustainability goals. Orion™ can achieve up to 90% water recovery meaning less water to drain from the production of purified water, helping to minimise the water footprint of the site. It is also designed to be energy efficient, offering long-term operational cost savings and reduced environmental impact.

Additionally, Veolia has provided ongoing servicing and maintenance for the water treatment systems on the site. This includes replacement of parts as required as well as scheduled maintenance, such as the replacement of the membranes valves every 2 years as specified by the client. Veolia has also delivered 24-hour service support, giving the manufacturer's team peace of mind that any issue can be addressed swiftly to minimise potential downtime.

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