

# Press release



Paris, April 24, 2026

## **SUEZ and Salinity Solutions launch the first industrial pilot of Hybrid Batch Reverse Osmosis for municipal wastewater reuse in Béziers**

- **SUEZ and UK-based company Salinity Solutions announce the launch of the first Hybrid Batch Reverse Osmosis (HBRO) pilot dedicated to municipal wastewater reuse at the Béziers wastewater treatment plant in southern France.**
- **The pilot based on Salinity Solutions' HyBatch™ technology and SUEZ's expertise in wastewater treatment enables the recovery of 90% to 95% of treated water, while limiting the volumes of brine produced as well as the use of chemical reagents and energy consumption.**

### **The Hybrid Batch Reverse Osmosis solution, a new benchmark for water reuse efficiency**

Supported by **ADEME**, this first industrial pilot of the **Hybrid Batch Reverse Osmosis** solution, with a treatment capacity of 100 m<sup>3</sup> per day, operates under real operating conditions at the Béziers wastewater treatment plant. It is based on **HyBatch™ technology**, a piston-driven pressure exchange process developed and patented by Salinity Solutions, which recycles the brine multiple times until the targeted recovery rate is achieved.

This approach increases treated water recovery to 90–95% (compared with up to 85% for conventional reverse osmosis systems), limits scaling in the processes, and reduces the frequency of chemical cleanings, thereby extending membrane lifespan. Thanks to significantly lower operating costs, HyBatch™ helps expand the use of reverse osmosis technology in both municipal and industrial wastewater treatment plants.

### **Accelerating Sustainable Water Reuse**

The development of large-scale, energy-efficient wastewater reuse solutions provides an answer to growing challenges linked to water scarcity, driven by disruption of the water cycle. The results of the Béziers pilot make Hybrid Batch Reverse Osmosis a promising technology for wastewater reuse, as well as for the treatment of surface and brackish water.

*"The Hybrid Batch Reverse Osmosis technology we are deploying in Béziers with Salinity Solutions provides substantial benefits for wastewater reuse in terms of water, energy and chemical savings. Our objective is to reduce operating costs for the treatment processes, enabling local authorities and industrial players to deploy technologies that are essential to preserving water resources."*, said **Gregory Tesse, Infrastructure and Innovation Director of the Engineering & Construction activities of SUEZ.**

*"This collaboration with SUEZ marks a major step towards transforming water reuse economics and sustainability. By proving that high recovery can be achieved reliably and efficiently, at a large scale, with increased energy efficiency, we aim to set a new benchmark for advanced wastewater treatment worldwide."*, added **Richard Bruges, CEO, Salinity Solutions.**

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## **About SUEZ:**

*Faced with growing environmental challenges, SUEZ has been delivering essential services that protect and improve our quality of life for more than 160 years. SUEZ provides its customers with innovative and resilient solutions for water and waste services. With 40,000 employees across 40 countries, the Group works with customers to create value over the full lifecycle of their assets and services, and to drive their low carbon transition. In 2025, SUEZ provided drinking water for 67 million people worldwide and sanitation services for 36 million people. The Group generated 8.7 TWh of energy from waste and wastewater. In 2025, SUEZ generated revenues of 9.5 billion euros.*

For more information: [www.suez.com](http://www.suez.com)

## **About Salinity Solutions:**

*Salinity Solutions addresses two of the biggest challenges facing humanity: water and energy. Born from the University of Birmingham in 2021, the company has developed HyBatch a groundbreaking batch purification technology that delivers water recovery up to 98%, uses up to 50% less energy than traditional methods, without the use of chemical pre-treatment. Its patented, commercially scalable system has been described as the most significant advance in RO water treatment in 50 years, with applications ranging from industrial wastewater treatment and resource recovery to rural drinking water supply. Salinity Solutions was voted Breakthrough Technology of the Year at the 2025 Global Water Awards.*

More information: [www.salinitysolutions.co.uk](http://www.salinitysolutions.co.uk)

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