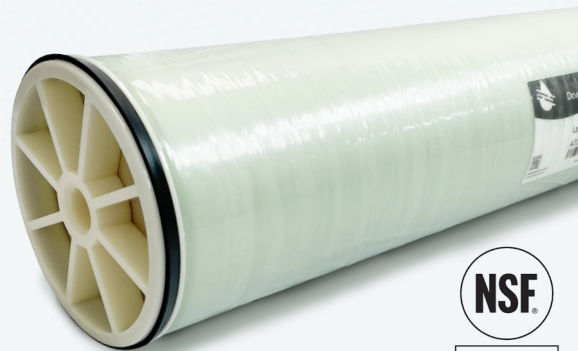


Run Better, Run Longer With ZwitterCo RO

The First RO Membranes that Reduce Cleaning Frequency by up to 90%

Frustrated by short membrane life? Tired of cleaning your RO system so frequently? ZwitterCo pioneered **revolutionary fouling-resistant RO membranes** that greatly reduce operating costs.



Fouling-Immune Technology

ZwitterCo developed a breakthrough membrane technology **immune to irreversible organic fouling** based on the extreme hydrophilicity of zwitterions. Integrating zwitterionic technology with proven, commercial polyamide RO membranes results in unprecedented fouling resistance. A simple drop-in replacement can lower operating costs by **reducing cleaning frequency by up to 90%** and **double membrane life**.

An industrial water treatment system using 150 x 8040 RO elements could reduce annual cleaning costs by \$464 per element when switching to ZwitterCo RO (calculations assume cleaning costs ~\$43 per cleaning per element).

The Solution to Organic Fouling

ZwitterCo RO is the industry's most fouling-resistant brackish water RO membrane. Our elements offer the most stable performance on high-fouling streams and can be fully restored with less frequent cleaning, resulting in longer membrane life.

You deserve:

- Longer membrane life
- Reduced operating costs
- Significantly longer run-time between required maintenance
- Full performance restoration

Save 50% OPEX
over 4 years by switching
to ZwitterCo RO

Do you have issues with fouling?
Do you clean frequently?

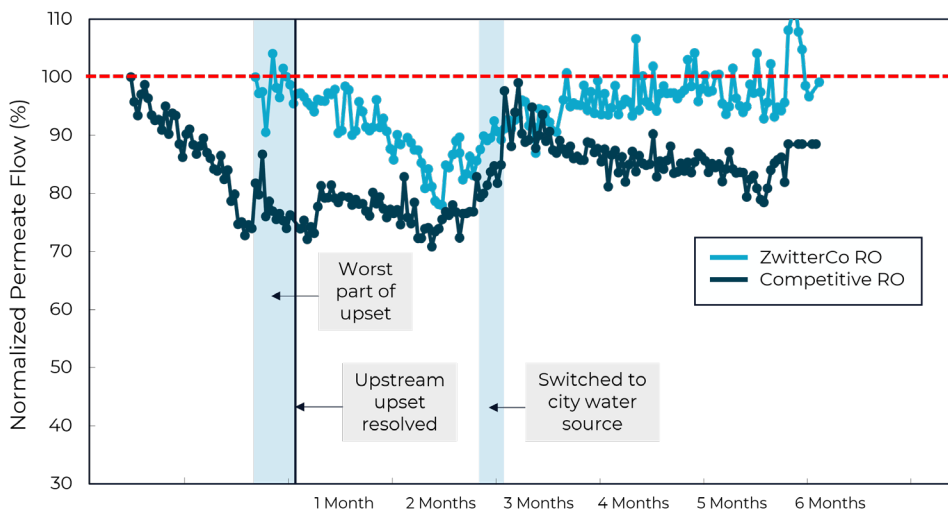
ZwitterCo can help you reduce:

- Downtime
- Cleaning costs
- Element replacement
- Energy
- Labor costs
- Wastewater generated

Fast Facts:

- Easy drop-in replacement
- No CAPEX
- No system modifications
- Patented, zwitterionic chemistry

Too Good to be True?



A United States-based power plant treating river water for boiler make-up was cleaning their two-train RO system once a month and replacing elements every 1-1.5 years due to persistent organic fouling challenges.

Over the first six months of operation, the conventional RO elements fouled, requiring four chemical cleans to restore membrane performance. The ZwitterCo RO elements did not require chemical cleaning to maintain their performance.

Benefits of ZwitterCo RO



Reduced OPEX

- Reduced system downtime
- Lower cleaning costs
- Reduced labor & energy costs



No CAPEX Required

- No system modifications
- Drop-in replacement
- Fast & easy to implement



ESG & Safety

- Decreased chemical use
- Reduced water requirements
- Less wastewater to treat

Other ZwitterCo RO Installations

- Power Gen - MT, USA
- Dairy Water Polisher - MN, USA
- Landfill Leachate - LA, USA
- Process Water - TX, USA
- Mining Pond - AK, USA
- Power Gen - TX, USA
- Landfill Leachate - France
- Distillery Wastewater - Scotland
- Ethanol Production - NE, USA
- Refinery Wastewater - Spain
- Power Gen - CA, USA
- Distillery Wastewater - KY, USA

Lowest total cost of ownership

Put us to the test against your current fouling-resistant RO membranes.
Learn about our First Install Discounts **today**.

Talk with a ZwitterCo RO Technical Expert

zwitterco.com
info@zwitterco.com

12 Cabot Road, Suite B
Woburn, MA 01801

