

A Commitment to a Greener Future

At H₂O Innovation, sustainability is embedded in our business strategy. We integrate innovative technologies, eco-friendly chemical solutions, and durable components to minimize environmental impact while optimizing water treatment performance. As global water scarcity and pollution challenges grow, we are dedicated to providing solutions that promote water reuse, efficiency, and longterm sustainability.

Sustainable Innovation Across Our Product Lines



WATER TECHNOLOGIES & SERVICES



SPECIALTY CHEMICALS, CONSUMABLES, AND COMPONENTS



OPERATIONS & MAINTENANCE



WATER INFRASTRUCTURE DEVELOPMENT



MAPLE & AGRIFOOD



H₂O INNOVATION CHEMICALS

Reducing Chemical Consumption and Waste

Our advanced line of specialty chemicals is designed to optimize membrane system performance while reducing chemical waste and environmental impact.

- High-Efficiency Antiscalants & Cleaners Reduce scaling and fouling, extending membrane lifespan and decreasing replacement frequency.
- Lower Chemical Footprint Precise dosing software ensures optimal chemical use, reducing excess discharge into the environment.
- Eco-Optimized & Sustainable Chemistry Development of eco-friendly formulations that maintain high-performance standards without compromising sustainability.
- **SpectraGuard™ Range** Highly concentrated antiscalants (mostly based on dendrimer chemistry) that lower freight and storage needs, reducing shipping emissions by over 90%, while remaining phosphate-free.

Sustainable Packaging Solutions - Woven Bags

At H2O Innovation, we are committed to reducing plastic waste and optimizing packaging efficiency. That's why we now offer our concentrated membrane cleaners in powder form, packaged in durable, twin-lined woven bags. This sustainable alternative significantly **reduces plastic** consumption while maintaining the integrity and performance of our products.



By switching to woven bags, we can ship 55% more product per pallet compared to traditional plastic pails, **improving transportation efficiency** and **lowering CO₂ emissions**. This packaging solution supports our mission to offer high-performance water treatment chemicals with a reduced environmental footprint.



H₂O INNOVATION CONSUMABLES AND COMPONENTS

H₂O Innovation specializes in high-quality, corrosion-resistant components that enhance sustainability through **long-term durability and reduced maintenance needs.**

- **Extended Equipment Lifespan** Constructed from durable materials like stainless steel, duplex, super duplex alloys and engineered composite to minimize the need for frequent replacements.
- **Energy Efficiency** Optimized designs reduce pressure losses, improving energy efficiency in desalination and industrial water treatment applications.
- **Sustainable Supply Chain** Commitment to responsible sourcing and manufacturing to reduce environmental impact.
- **MegaVessel** A high-capacity membrane pressure vessel that optimizes operational efficiency, extends maintenance cycles, and improves energy savings in water treatment applications.
- Energy-Saving Rod (ESR) Technology Innovative design that reduces energy consumption by optimizing water flow, contributing to system efficiency and enhancing overall plant sustainability.
- **Unique FRP Housing Designs** Designed to allow cartridge cleaning, reducing plastic waste and supporting a circular filtration approach, while being fully compatible with our sustainable cleaners.



Piedmont

GLOBAL SCIENTIFIC SERVICES

Driving Sustainability Through Innovation

H₂O Innovation provides cutting-edge laboratory and technical services to **optimize plant performance, reduce resource consumption, and maximize water recovery**, helping clients become more sustainable.

- Membrane and Cartridge Filter Autopsies Extend component lifespan by diagnosing and optimizing system performance to reduce environmental impact.
- **Pre-Treatment Optimization** Prevents unnecessary chemical use and membrane fouling, ensuring long-term efficiency.
- Energy & Cost Savings Advanced diagnostics optimize plant performance by minimizing unexpected failures, reducing resource consumption, and improving overall water recovery rates to help our clients become Water Positive.

Research & Development Leading the Way in Sustainable

Water Treatment

H₂O Innovation continuously invests in R&D to improve water treatment sustainability, focusing on:

- Developing next-generation eco-friendly membrane chemicals.
- Enhancing scaling prediction software to **optimize system efficiency**.
- Collaborating with industry leaders to **drive** sustainability initiatives.
- Genmine Project A specialized research initiative focusing on mining water treatment, acid mine drainage clean-up, and enhanced metal recovery using sustainable membrane technologies.



ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG) COMMITMENT

As a responsible corporate citizen, H₂O Innovation is committed to ESG principles that guide our sustainability efforts:

- Addressing Emerging Water Challenges Developing solutions for micropollutants, PFAS, and water reuse to ensure safe and sustainable water treatment.
- **Carbon Footprint Reduction** Super-concentrated products and optimized logistics reduce shipping emissions and overall environmental impact.
- Sustainable Water Management Water reuse is not an option but a necessity. Our technologies enable municipalities and industries to implement effective water reuse strategies.

ONE TREE PLANTED INITIATIVE

At H₂O Innovation, we actively integrate sustainability into our chemical solutions. With the SGIII super-concentrated, dendrimer-based, phosphate-free antiscalant, we not only reduce plastic waste and CO₂ emissions but also contribute to global reforestation efforts. Through our partnership with One Tree Planted, trees are planted for every purchase of SGIII, reinforcing our commitment to environmental stewardship and carbon footprint reduction.







Water Positive Commitment Transforming Water Management for a Sustainable Future

At H₂O Innovation, we are committed to making Water Positive a reality for our clients by optimizing water treatment processes to increase water production, enhance reuse, and reduce overall water footprint. Our technologies help industries and municipalities recover more water than they consume, turning sustainability into an operational advantage.

How We Help Clients Achieve Water Positivity:

- Advanced Process Optimization Maximizing water recovery in desalination, industrial, and municipal applications.
- Innovative Chemical & Membrane Solutions Extending system lifespan and efficiency while minimizing chemical waste.
- **Cutting-Edge Diagnostic Services** Identifying inefficiencies and opportunities to improve water reuse strategies.
- Sustainable Component Design Reducing material waste and enabling longer-lasting infrastructure.





Taking Water Positivity Beyond Land and Into the Oceans

Our commitment to **Water Positivity** extends beyond industrial applications reaching **the world's oceans** through our partnership with the **Be Water Positive Sailing Team**. Since 2022, H₂O Innovation has worked with skipper **Scott Shawyer** and his team to promote water conservation and sustainability on a global scale.



A Mission Beyond Racing

Competing in high-profile races like the **Rolex Fastnet Race** and the **Vendée Globe**, the team carries our message of sustainable water use worldwide. More than just a competition, this partnership helps **educate and inspire** communities, industries, and decision-makers about:

- The importance of water reuse and efficiency
- The role of technology in reducing environmental impact
- How industries can shift toward **replenishing water resources** instead of just consuming them

By supporting the Be Water Positive Sailing Team, H₂O Innovation is not only leading the way in sustainable water treatment but also advocating for a global shift toward responsible water use—on both land and sea.

JOIN THE WATER POSITIVE MOVEMENT

OUR MISSION

A Future of Sustainable Water Solutions

Sustainability is not just a goal—it's an ongoing journey. At H₂O Innovation, we remain dedicated to delivering high-quality, eco-friendly solutions that ensure **cleaner water, lower operational costs, and a healthier planet.**

Join us in shaping the future of water treatment—sustainably.

Contact us today to learn more



www.h2oinnovation.com

Linked in



Piedmont



h₂0



