



gradient



A DIFFERENT KIND OF
WATER COMPANY

SINGULARLY FOCUSED ON WATER

We are the industry’s only complete, site-wide solution.

Deploying a proprietary technology stack that combines award winning water treatment solutions with best-in-class engineering and customized chemicals.

Delivered precisely with the power of the industry’s most advanced AI to achieve lower capital and life-cycle costs, operational ease, increased reliability, and improved safety - all with a reduced environmental footprint.



HERE’S HOW WE HELP THE WORLD’S ESSENTIAL INDUSTRIES:



Reduce

Decrease the amount of freshwater withdrawn and wastewater disposed, using processes that minimize carbon emissions.



Reclaim

Recover valuable metals and resources from wastewater across a wide range of industries — unlocking these resources for beneficial reuse.



Renew

Return water to nature by engineering technologies, chemicals, and processes that transform wastewater into fresh water.



GIVE NATURE WATER BACK

Sustainability at Gradiant

Sustainability is at the core of the work we do at Gradiant. We are focused on treating, optimizing, and managing all things Water. We help our customers minimize water consumption, recycle water and wastes for beneficial reuse, eliminate contaminants that would otherwise be discharged into the environment, and recover valuable resources from wastes. Our solutions and know-how engineer out waste from your operations.

Minimizing Our Water Footprint

Our water reuse, zero liquid discharge, resource recovery, and wastewater treatment technologies enable our customers to bring sustainability to their operations and supply chain.

HOW FAR WE'VE

13

Years of Innovation

48M

People's Water Consumption Every Day

92

Countries with our Solutions

3000

Water & Wastewater Treatment Plants Built

42

Assets Owned & Operated

25

Global Offices

27

Industry Awards

302

Patents Approved & Pending

WHY WE ARE DIFFERENT



Innovation

Our award-winning commercial innovation sets us apart in the industry. We rapidly translate innovations from the bench scale to commercialization in our mission to advance water technologies and solutions that meet the evolving needs of our customers.



AI & Machine Learning

Gradiant is leading the digitalization of water with SmartOps — a digital ecosystem for the Control, Predict, and Perform of water treatment facilities. We harness the power of digital to re-imagine how facilities are designed, built and operated — based on our foundation of systems expertise learned from the delivery and operations of projects around the world.



Project Delivery

Project Delivery is at the core of how Gradiant excels. We offer a range of contract models for water & wastewater treatment facilities that are adaptable to the unique situation and needs of our customers. The responsibility of multiple parties and functions is transferred to a single entity, Gradiant, to bring efficiencies, reduce risks, and ultimately, reduce the Total Water Cost.



CURE Chemicals

CURE Chemicals completes Gradiant's site-wide solution set, offering our customers the unique advantage of a single partner for all their water treatment needs. Our comprehensive portfolio of custom chemical products with on-site expertise and world-class service ensures that our customers' water and process applications run efficiently, reliably, and at the lowest overall cost.



CURE CHEMICALS

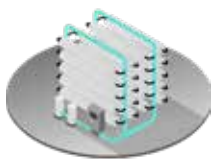
Our Application Expertise

We cannot achieve our goal of helping the world's most essential industries reduce, reclaim, and renew water with our equipment technologies alone.

Every site is a complex, integrated system of critical applications in which we maintain deep expertise to develop the most effective holistic solutions that combine engineering, chemistry, and process.



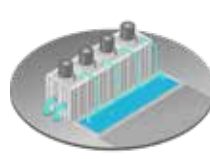
Water Clarification



Membrane Systems



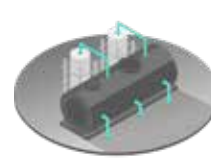
Wastewater Treatment



Cooling Systems



Process Treatment



Boiler Systems

CURE Chemicals

Corrosion Inhibitors

Safeguard critical infrastructure from rust and decay to extend equipment life, reduce maintenance costs, and ensure the reliability of site-wide water and process systems.

Scale Inhibitors

Ensure uninterrupted operation and extend equipment life by limiting the costly build-up of scale that can clog heat exchangers and pipes, leading to increased downtime and maintenance.

Process Chemicals

Custom-tailored formulations for mining, refining, chemicals, pulp & paper, and more. Solutions proven to optimize efficiency, operating costs, product quality, and process reliability.

Biocides

Combat microbiological threats with oxidizing and non-oxidizing biocides that limit bacterial growth and biofilm formation, ensuring the safety and performance of water treatment systems.

Antiscalants & Cleaners

Prevent mineral scaling and precipitation by inhibiting the formation of insoluble salts, thereby maximizing membrane system performance and reducing total water costs.

Coagulants & Flocculants

Optimize solids-liquids separation in a range of membrane, settling, and dewatering operations. Isolate contaminants, organic matter, and pathogens to meet performance goals and discharge standards.

BENEFITS OF GRADIANT TECHNOLOGIES



Lowest Total Water Costs

Gradiant's leading-edge water technologies allow our customers to achieve the lowest total water costs. Our DBO and DBOOM models ensure the highest levels of innovation and expertise to reduce operational costs. Supplemented by our first-in-class AI, with real-time monitoring of performance and wear, and chemical dosing, to optimize plant operations, predict maintenance and maximize uptime.



Operational Ease & Reliability

Focus on what matters — let us manage and operate your water treatment facilities with our range of award-winning technologies, CURE Chemicals, project delivery models, and industry's best process and operations experts. We combine industry-leading technologies and the power of AI to ensure the highest levels of operational reliability and safety, delivering certainty and continuity to your business.



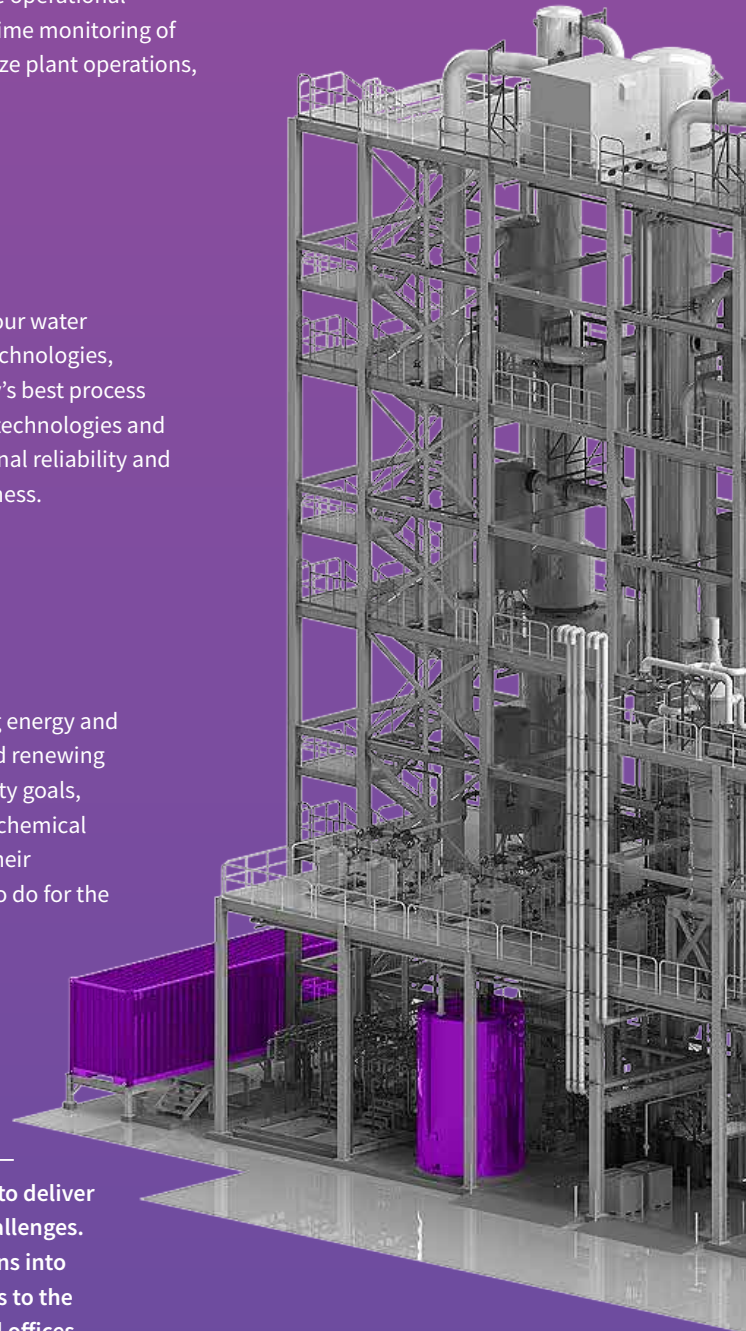
Sustainability & Performance

Minimize your carbon and water footprints by reducing energy and water consumption, reclaiming valuable resources, and renewing wastewater. Meet discharge limits, achieve sustainability goals, and reach zero liquid discharge. Our technologies and chemical solutions enable industries to become sustainable in their operations and supply chains — this is the right thing to do for the people and the planet, and it's also good for business.



Access to the Best in the Industry

Working with Gradiant gives you access to top talent — process and operations experts with a singular focus to deliver the best outcomes for your water and wastewater challenges. We continuously translate proprietary R&D innovations into commercial solutions, ensuring our customers' access to the best technology available. A growing network of local offices bring our global experience and resources to bear.



AWARD-WINNING SOLUTIONS

Our solutions are end-to-end scalable, designed to integrate seamlessly with our proprietary AI platform, and proven across a broad range of industries.



Industrial Wastewater & Recycling

We have a full portfolio of technologies to reliably and cost-effectively treat wastewater generated from manufacturing, preparing it for reuse and discharge, and reducing freshwater withdrawal.

Industrial Process Water

We have end-to-end solutions designed to treat water so that it can be safely and reliably used in manufacturing - while optimizing equipment performance and ultimate product quality and yields.



Minimum & Zero Liquid Discharge

We have patented membrane and thermal evaporation technologies to achieve minimum liquid discharge and recover extra process water as the first step to the solution. If the minimal brine is too costly to dispose, or valuable minerals and chemicals can be recovered, we have solutions to achieve zero liquid discharge.

Resource Recovery & Lithium

We offer technologies to enhance Direct Lithium Extraction (DLE) and production of battery-grade compounds, and recover metals such as nickel, cobalt, graphite, and uranium. Our technologies are also used for IPA recovery in the semiconductor industry.



Ultrapure Water

We have proven methods and technical know-how to design, build, operate and maintain subsystems to reliably produce ultrapure water (UPW).

PFAS & Emerging Contaminants

We have a suite of technologies that lead to the removal and destruction of PFAS and Emerging Contaminants - forever.



INDUSTRIES WE WORK WITH

Our solutions are deployed in a wide range of the world's essential industries. We design our technologies to be modular, allowing us to quickly engineer end-to-end solutions for new challenges.



Semiconductors & AI Data Centers

Water is vital to advanced industries — from chip fabrication to hyperscale data center cooling. Gradiant partners with leading fabs and AI data centers to deliver ultrapure water for peak yields, recycle water to cut freshwater use, and treat complex wastewater to protect the environment. Our technologies help customers scale sustainably, reduce risk, and achieve reliable performance at the core of the digital economy.



Pharmaceuticals

Manufacturing pharmaceuticals demands different grades of process water. We design our solutions to suit the challenges of batch production processes that generate highly complex wastewater streams with variable composition, toxicity, biodegradability, and quantity.



Mining

Successful mine operations demand sustainable water practices, which is particularly challenging with remotely located mines where water is scarce. Our end-to-end solutions are engineered and tested to extremes. We put mining companies in control of their water supplies and protect the environment.



Food & Beverage

Large quantities of process water are used throughout the manufacturing process and as an ingredient in finished products - where compliance with water quality is critical. Our technologies are proven as a primary and secondary treatment for wastewater to enable maximum reuse and minimum waste discharge.



Refining & Chemicals

Chemical processing generates wastewater with high concentrations of contaminants that can be environmentally harmful. We have the experience and expertise to engineer custom solutions for the treatment of this wastewater, all with maximum water reuse and safe disposal of waste liquids and solids.



Renewables & Power

Renewable and conventional energy production both demand complex water solutions at different stages of the process. Renewable solutions like Solar Photovoltaic panels demand ultrapure water for manufacturing and ZLD for treatment reducing waste streams. We offer technologies so industries can operate safely, reliably, and responsibly.



Textiles

Textile manufacturing generates wastewater with different contaminants and chemical or dye inclusions that are difficult to degrade biologically. We offer customized solutions to breakdown biodegradable and refractory organics, enable water reuse and minimize wastewater volume, and concentrate and recover valuable salts.

CONTACT US

Gradiant serves its clients around the world from our global headquarters in Boston, regional headquarters and Global Innovation Centers in Singapore and Abu Dhabi, and offices located in 15 countries.



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