

A Comprehensive Approach to

Industrial Water & Wastewater Treatment



► *Newterra empowers industry to navigate sustainability goals, control costs, meet growing demands, and deliver high-quality industrial water*



Every day around the world thousands of industries and municipalities rely on Newterra equipment systems and services to help them successfully meet their water and wastewater challenges.

As a **vertically integrated company**, Newterra provides a full-service solution including design, engineering, manufacturing, and servicing of a broad range of water and wastewater technologies for industrial and municipal customers.

Our brand history spans 150+ years with system installations across the globe. Newterra's wide ranging expertise includes **end-to-end water reuse solutions** to meet the world's urgent sustainability needs, to solving challenges with PFAS and other emerging contaminants, to a wide variety of other critical water applications.

Newterra specializes in applying customer-focused and effective solutions in a prompt and economical manner, followed by standing by our customers providing optimal support.



Newterra Deaerators are built for reliability in large-capacity industrial applications like this leading steel and mining company.

Get Industrial Water-Smarter!

Understanding Newterra Industrial Water Technology

Our Markets

Newterra solutions excel globally, from **Pulp & Paper reuse** in Northern Saskatchewan to high purity water for **Hydrogen Production** in the US Southwest. We have met stormwater regulatory demands for West Coast shippers and supported Food and Beverage facilities for three decades with our packaged plants. Regardless of the challenge, Newterra delivers solutions to the following industries, among others.

Food & Beverage
Meat & Poultry
Advanced Manufacturing
Controlled Environment
Agriculture
Chemical Processing

Energy & Renewables
Oil & Gas
Mining & Exploration
Construction & Remediation
Shipping & Transportation
Pulp & Paper

Recycling & Landfill
Hydrogen Production
Aquaculture
Military/Government
Steel Production
Automotive

Industrial Water

Newterra, building on a **150-year boiler feedwater legacy**, delivers unmatched water treatment solutions. Today, Newterra's expanded technology portfolio meets any industrial demand for process or utility water purity at any volume or flow rate, backed by our responsive and focused customer service.

Industrial Wastewater

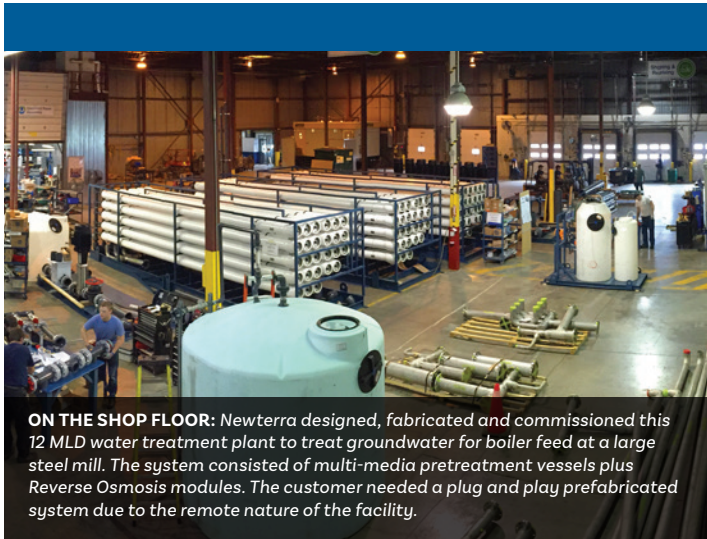
From robust **Aeration systems** to state-of-the-art modular **Membrane Bioreactor (MBR)** technologies to treating **PFAS and emerging contaminants**, Newterra's offerings are designed for efficiency, compliance and the customer's needs first. Newterra customers can expect to meet regulatory standards and cost-of-ownership goals.

Water Reuse

At the forefront of **sustainable industrial practices**, Newterra is redefining water reuse with cutting-edge solutions designed to **maximize operational efficiency**. Leveraging all available technologies, we transform wastewater streams into high-quality water suitable for reuse. Newterra embraces a circular economy approach, conserving resources and enhancing environmental stewardship.

Lifecycle Solutions

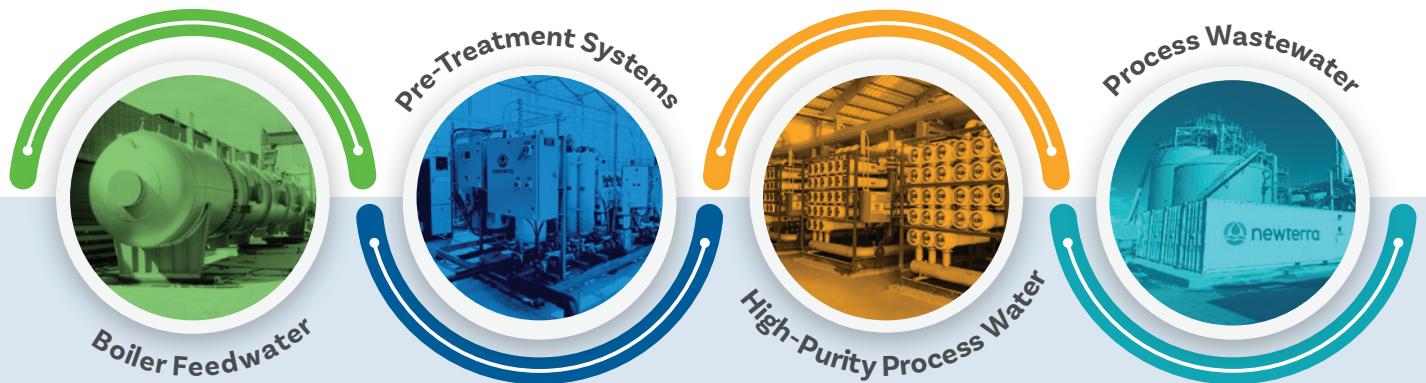
Newterra's Lifecycle Solutions **support the efficiency and longevity** of our water treatment systems. Our offerings include replacement parts for all systems, membrane replacement, media exchange services, service contracts, rental solutions, and more to ensure reliable operation and cost control. **With Newterra, experience comprehensive support tailored to your needs.**



Advanced Water Treatment Solutions for a Sustainable Future

Newterra Water and Wastewater Treatment Solutions Are Continually Transforming Industry

Newterra offer a diverse range of technologies and processes to meet the needs of various industries. These solutions include advanced filtration systems and chemical treatments to purify water sources, manage pollutants, and ensure compliance with regulations. Our tailored treatment processes cater to specific industry requirements, promoting sustainability and efficiency and contribute to a more responsible industrial landscape by protecting natural resources and optimizing operational processes.



Applications

Aeration/Mixing
Air Stripping
BOD/COD
Boiler Feed
Carbon Filtration
Chemical Feed
Chlorination/Dechlorination
Clarification
Containerized Systems
Color
Cooling Tower
Deaeration
Dealkalization
Decarbonization
Degassification
Deionization
Demineralization
Dissolved Air Flotation (DAF)
Electrodeionization (EDI/CEDI)
General Process Water
Greensand

Heavy Metals Removal
Ion Exchange
Iron
Microfiltration (MF)
Multi-Media Filtration
Nanofiltration (NF)
Nutrient Removal
Ozonation
PFAS
Radium
Remediation
Reverse Osmosis (RO)
Solids Reduction
Sludge Treatment/Dewatering
Softening
Stormwater
Sustainability/Recycle/Re-use/
Ultrafiltration (UF)
Ultraviolet Disinfection
Uranium

Markets

Advanced Manufacturing
Aerospace
Aquaculture
Automotive
Chemical Processing
Construction & Remediation
Controlled Environment
Agriculture
Energy
Food & Beverage
Government/Military
Hydrogen Production
Meat & Poultry
Mining
Oil & Gas
Pharmaceutical
Pulp & Paper
Recycling & Landfill
Renewable Energy
Steel
Textile & Dye

Lifecycle Services

Modernizations
Project Management,
Startup & Commissioning
Technical Support
& Service Contracts
Operations Consultation
Digital Solutions
Carbon & Media Exchange
Services Parts & Consumable
Support
Rental Solutions

Hundreds of Installations Worldwide

A robust installation base servicing diverse industries with reliable performance and comprehensive support for global clients.

Look to our global experience in **industrial applications** and look to us as an invaluable partner to make your job easier. Newterra's vast experience and large installation base and industry experience have historically cultivated essential relationships with our clients and suppliers, forming a relationship of collaboration and trust in new projects or partnerships.

Regional Energy Facility – New Orleans, LA

Located in the heart of New Orleans, **this crucial energy plant** serves the mission-critical **New Orleans Regional Medical Center** and nearby commercial buildings. The company's 26,000-ton chilled-water plant provides chilled water for air conditioning to more than 12 million sq ft of building space within a 15-square-block area. The company also provides steam to critical buildings in the district. The client identified Newterra as the RO System of choice to handle their immediate water treatment needs while offering a significant amount of savings in the long run.

Sugar Processing Facility – Nador, Morocco

A major sugar refinery in Morocco, faced challenges in meeting stringent Biochemical Oxygen Demand (BOD) and Chemical Oxygen Demand (COD) standards in its wastewater treatment process. Additionally, sludge accumulation from previously installed equipment was problematic.

To address these issues, the customer installed twenty Newterra Triton® systems, which effectively managed the high organic loads and **improved product reliability**. As a result, **BOD levels were reduced by 99%**, COD levels fell well below the required standards, and sludge build-up was eliminated.

Craft Brewery – Santa Rosa, CA

A forward-thinking brewery **enhanced its sustainability** with a cutting-edge water reuse system that recycles Membrane Bioreactor (MBR) effluent for Clean-In-Place (CIP) and washdown processes. The system features a 60 GPM Reverse Osmosis (RO) unit, twin carbon filters, a UV lamp, sanitary stainless steel piping, and a custom control panel, **ensuring high water quality**. Integrated with the brewery's SCADA system, it optimizes operations and maintains consistent water quality. The system achieved over 95% Total Organic Carbon (TOC) removal and **substantial water savings**, setting a benchmark for environmental stewardship in the beverage industry.

Potato Processing Plant – Western Canada

Newterra will be supplying a wastewater treatment system for a large Canadian potato processing plant, scheduled for completion in the spring of 2025. The project involves providing granular activated carbon (GAC) vessels to treat membrane bioreactor (MBR) effluent, which will then be processed through a reverse osmosis (RO) system to **produce high-quality reuse water** for potato washing. This solution is part of a \$600 million plant expansion aimed at **reducing freshwater consumption and supporting sustainable operations**. Newterra won the project due to their established technical trust, previous smaller orders, and innovative solutions. Once implemented, this system will produce high-quality reuse water, enhanced sustainability, and operational efficiency.

Automotive Manufacturing Plant – Texas, USA

Newterra implemented a wastewater treatment solution at a **well-know electric automotive manufacturing plant** by providing nine custom CP3000 vessels equipped with mixed bed resin to address the need to remove contaminants from the battery wash process. The collaboration between Newterra and the customer resulted in a tailored design that meets specific process conditions, offering significant benefits to the customer. These include **high-efficiency contaminant removal, reduced operational costs, and a return on investment in less than two years** compared to renting vessels. This project underscores Newterra's ability to deliver cost-effective, sustainable, and industry-specific wastewater treatment solutions.

Agricultural & Heavy Equipment Manufacturer – Argentina

A large, well-known agricultural and heavy equipment manufacturing company in Argentina utilized a Newterra water treatment system to **address hydrocarbon contamination** at their facility. The system, featuring a GHD Air Stripper, can treat up to 72,000 gallons per day (GPD). Newterra was chosen for this project due to its ability to expedite delivery within ten weeks. This tight deadline was met through Newterra's extensive experience and strong teamwork. By addressing hydrocarbon contamination, companies like these **contribute to a healthier environment, protect public health**, comply with regulations, and **promote sustainable industrial practices**.

