GREENCHAIN
GROUP

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LEADERS IN
SUSTAINABLE & INNOVATIVE
WATER TREATMENT SOLUTIONS



GREENCHAIN GROUP

Greenchain Group is a trusted partner in designing, manufacturing, & delivering bespoke water treatment systems that help organisations gain control over water supply, quality, & operational performance.

With a focus on membrane-based technologies, practical engineering, & integrated control systems, we deliver solutions that ensure reliability, efficiency, & sustainability across a wide range of industries.



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Who We Are

TURNKEY PROVIDER

Greenchain Group combines engineering precision, operational insight, & holistic system thinking to solve complex water challenges. Our integrated approach allows us to manage the entire lifecycle of a water treatment system, from concept & design through manufacturing, installation, automation, monitoring, & ongoing maintenance.

As a turnkey provider, we design each system from the ground up using a blend of high-quality, cost-effective local & international components. This ensures performance continuity, operational reliability, & long-term efficiency, tailored to the unique requirements of each client.



LEADERS IN WATER TREATMENT SOLUTIONS

Our team comprises engineers, scientists, technicians, & project managers with deep experience in both technical design & operational realities. Together, we ensure that every system we deliver not only meets stringent quality standards but also aligns with client-specific goals & sustainability objectives.

OUR MISSION & VISION

To lead the water treatment industry by setting the standard for innovation & sustainability, delivering membrane-based solutions that secure water for generations to come.

Greenchain Group delivers bespoke water treatment systems that address complex operational challenges. By controlling every stage, from system design, quoting, & manufacturing to installation, monitoring, & maintenance, we provide reliable, high-performance solutions that align with both operational & environmental objectives.

> ***“Experts in water treatment & go the extra mile to help you find a solution to almost any water related issue.”***

OUR PHILOSOPHY

Our work is guided by a clear philosophy built on four core pillars.

These principles form the foundation of every decision we make, ensuring that our solutions deliver lasting performance & meaningful impact. For your business & for the planet.



KNOWLEDGE

We are driven to constantly improve within the membrane treatment space, through dedicated research, problem solving & troubleshooting.



INTEGRITY

Building ethical relations with our clients through clear, transparent feedback & by standing firmly behind the solutions we provide.



VALUE

Our value is generated by delivering high quality & reliable solutions by means of integrated solutions developed for the water treatment space.



SUSTAINABILITY

We apply strict quality control with a holistic, sustainable view, considering the impact of every decision to ensure long-term system longevity.

Technologies

REVERSE OSMOSIS (RO)

High-pressure membrane filtration that removes up to 99% of dissolved solids, producing high-purity water with guaranteed quality that is suitable for a wide range of industries.

ULTRAFILTRATION (UF)

Low-pressure membrane filtration that removes suspended solids, pathogens, bacteria, viruses and organic matter. Ideal for pre-treatment in multi-stage processes or as a standalone solution, offering high water recovery with reduced wastage.

NANOFILTRATION (NF)

Low-pressure Reverse Osmosis (RO) membrane filtration that softens water by removing divalent and larger ions, reducing hardness and other target pollutants. Lower energy consumption for reduced long-term costs.

MEMBRANE BIOREACTORS (MBR)

Advanced wastewater treatment combining biological treatment & membrane filtration, delivering high-quality effluent suitable for reuse or special discharge requirements.

DEIONISATION (DI)

Multi-pass Reverse Osmosis (RO) membrane, electrochemical, or resin-based polishing systems used as the final step in producing ultra-pure water for critical applications, including pharmaceuticals, electronics, and steam generation.

DESALINATION

Very high-pressure membrane filtration that converts brackish or seawater into fresh, potable water suitable for drinking across a range of applications, including industrial, municipal, and remote sites.

OZONE & ADVANCED OXIDATION PROCESSES

Powerful oxidation technologies that disinfect, remove odours, degrade organics, & treat Chemicals of Emerging Concern (CECs), ensuring high-quality water for complex operational needs.

SMART CONTROL SYSTEMS

Bespoke automation platforms developed specifically for water treatment, providing real-time monitoring, remote management, and actionable operational insights to improve reliability, efficiency, and compliance.

> *"Great company to deal with. Very knowledgeable personnel and very efficient. Would recommend for your water filtrations systems."*



Solutions By Sector

Agriculture & Farming

HOW GREENCHAIN SUPPORTS YOUR FARM

Greenchain Group takes a system-level view of your water resources. We design, install, & maintain water treatment systems that support:

Irrigation & fertigation
Maintain precise nutrient dosing & flow control

Livestock health & hygiene
Safe, consistent water quality for animals

Food & beverage operations
Reliable water for processing & cleaning

Water reuse & recycling
improving sustainability & reducing costs



Optimised water quality
Ensures safe, reliable water for irrigation, livestock, & on-site processing.

Enhanced operational efficiency & water security
Automated monitoring & process controls reduce manual oversight & minimise downtime.

Tailored system design
Customised solutions built locally to meet the unique requirements of each farm.

Sustainable practices
Holistic system design considers water use, energy efficiency, & reuse potential.

Measurable impact
Improved crop yields, livestock performance, & overall profitability through data-driven operations.

Smarter water, stronger yields

Food & Beverage

HOW GREENCHAIN SUPPORTS YOUR OPERATIONS

Greenchain Group takes a system-level view of water in food & beverage operations. We design, install, & maintain water treatment systems that support:

Product quality & consistence
Water purity that protects taste, texture, & safety

Hygiene & compliance
Meeting food safety standards such as HACCP & ISO 22000

Process efficiency
Reducing downtime, chemical use, & operational risk

Sustainability & reuse
Lowering water consumption & operational costs



Supporting quality, safety, & compliance

Consistent water quality
Ensures the safety, taste, & consistency of your products across all production lines.

Operational efficiency
Automated monitoring & controls reduce downtime & minimise the risk of process disruptions.

Compliance & safety
Water treatment solutions designed to meet food safety standards & regulatory requirements.

Scalable & flexible systems
Modular & skid-based systems allow for easy integration into new or existing facilities.

Reduced waste & sustainable operations
Optimised water & energy use, plus opportunities for reuse, contribute to environmentally responsible operations.

Solutions By Sector

Hospitality & Tourism

HOW GREENCHAIN SUPPORTS YOUR BUSINESS

Greenchain Group takes a system-level view of water in hospitality environments. We design, install, & maintain water treatment systems that support:

Guest water quality & safety
Ensuring clean, safe water for drinking, bathing, & overall guest experience

Water security
Reliable water supply for kitchens, laundries, & back-of-house systems

Wastewater management
Efficient wastewater treatment for compliant discharge & water reuse

Sustainability & reuse
Reducing water consumption & supporting environmentally responsible operations



Keeping your guest experiences flowing

Consistent, high-quality water
Supports guest areas, kitchens, laundries, pools, & irrigation, ensuring operational continuity & safety.

Reduced operational risk
Smart monitoring & preventative maintenance minimise downtime & operational disruptions.

Scalable & flexible solutions
Skid-based or packaged systems that adapt to expansions, renovations, or seasonal demand changes.

Sustainable operations
Holistic system design considers water & energy use, operational efficiency, & opportunities for water reuse or reclamation.

Tailored for accommodation
Custom solutions for boutique lodges, luxury resorts, multi-building estates, or remote stays.

Solutions By Sector

Healthcare & Pharmaceuticals

HOW GREENCHAIN SUPPORTS YOUR LABORATORY

Greenchain Group takes a holistic view of water in healthcare & pharmaceutical facilities. We design, install, & maintain water treatment systems that support:

Clinical & laboratory quality
Ensuring safe, high-purity water for medical & research use

Regulatory compliance
Meeting stringent healthcare & pharmaceutical standards

Equipment protection
Preventing scaling, contamination, & damage to sensitive equipment

Operational continuity
Ensuring uninterrupted water supply for critical processes



Regulatory compliance
Systems designed to meet WHO, SANS, & industry-specific standards for clinical, laboratory, & pharmaceutical water.

Operational reliability & water security
Remote monitoring & automated alerts ensure a continuous, uninterrupted water supply for critical processes.

Scalable & flexible solutions
Skid-based or modular systems that can grow with your facility or adapt to process changes.

Sustainable operations
Optimised water use & energy efficiency reduce operational waste & environmental footprint.

Tailored for sensitive environments
Custom solutions for hospitals, laboratories, pharmaceutical production, & research facilities.

Precision water for life critical environments

Solutions By Sector

Industrial & Manufacturing

HOW GREENCHAIN SUPPORTS YOUR OPERATIONS

Greenchain Group takes a system-level view of industrial water management. We design, install, & maintain water treatment systems that support:

Process water reliability
Ensuring consistent water quality for production & manufacturing

Equipment protection
Reducing scaling, corrosion, & fouling in machinery

Regulatory compliance
Meeting SANS, ISO, & sector-specific standards

Operational efficiency
Minimising downtime, chemical use, & operational risk



Reliable water for complex operations

Regulatory compliance & safety
Ensure your water meets SANS, ISO, & sector-specific standards, reducing regulatory risk.

Water security
Smart monitoring & proactive maintenance minimise unplanned downtime & production interruptions.

Scalable & modular solutions
Skid-based or modular designs allow expansion or adaptation as production needs evolve.

Cost efficient operations
Optimised energy & water use, reduced chemical dosing, & low maintenance lower operational costs.

Versatile industrial applications
Suitable for manufacturing, food & beverage production, chemical processing, electronics, & multi-site operations.

Sustainable & holistic design
Greenchain considers total water system performance, supporting efficiency, reuse, & minimal environmental impact.

Property Developments

HOW GREENCHAIN SUPPORTS YOUR WATER INFRASTRUCTURE

Greenchain Group takes a system-level view of water across property developments. We design, install, & maintain water treatment systems that support:

Reliable water supply
Ensuring consistent, high-quality water for residents & tenants

Irrigation & landscaping
Maintaining green spaces efficiently

Wastewater reuse
Reducing water consumption through recycling systems

Compliance
Meeting municipal & environmental standards



Reliable water supply
Ensures consistent water quality for residents, tenants, & facilities, supporting operational continuity.

Cost-efficient operations
Optimised energy & water use, minimal chemical dosing, & low maintenance reduce operational expenditure.

Scalable & flexible solutions
Modular systems can grow with the development or adapt to different phases of construction.

Holistic sustainability
Greenchain systems are designed with a total water cycle perspective, promoting reuse, energy efficiency, & reduced environmental impact.

Smart control & monitoring
Automation & remote monitoring allow developers & facility managers to track performance & respond quickly to potential issues.

Making the most of your water

Solutions By Sector

Education & Schools

HOW GREENCHAIN SUPPORTS YOUR LEARNING SPACE

Greenchain Group takes a system-level view of water across educational environments. We design, install, & maintain water treatment systems that support:

Safe drinking water
Ensuring clean, compliant water for students & staff

Laboratory & research
High-quality water for academic use

Campus operations
Reliable supply for cafeterias, hostels, & facilities

Sustainable water use
Reducing waste & improving efficiency



Safe water for students & teachers

Safe & compliant water
Meets local & international standards for potable water & laboratory use, supporting student health & regulatory compliance.

Operational continuity
Smart controls & proactive maintenance reduce downtime, ensuring uninterrupted access to safe water for students & staff.

Scalable solutions
Skid-based or modular designs allow schools to expand or adjust capacity as enrolment grows or facilities change.

Cost effective water management
Optimised energy & water use, minimal chemical dosing, & reduced maintenance lower operational costs.

Versatile applications
Applicable to drinking water, laboratories, cafeterias, sports facilities, hostels, & staff accommodation.

Holistic sustainability
Greenchain designs systems with a total water cycle perspective, supporting efficiency, reuse, & minimal environmental impact.

Solutions By Sector

Energy & Utilities

HOW GREENCHAIN SUPPORTS YOUR OPERATIONS

Greenchain Group takes a system-level view of water in energy & utility operations. We design, install, & maintain water treatment systems that support:

Cooling & boiler systems
Ensuring efficient thermal performance

Process water supply
Maintaining consistent quality for operations

Wastewater reuse
Reducing environmental impact & water costs

Regulatory compliance
Meeting industry & environmental standards



Water security
Ensures continuous water supply for critical energy processes, reducing downtime & risk.

Cost efficient operations
Optimised water & energy use, low maintenance, & minimal chemical dosing reduce operating expenses.

Scalable & modular systems
Flexible solutions that grow with your facility, adapting to phased expansions or changing water demand.

Sustainability & compliance
Greenchain systems take a holistic approach to water management, promoting efficiency, reuse, & reduced environmental impact.

Smart monitoring & automation
Real-time performance tracking, remote diagnostics, & predictive maintenance improve operational control & efficiency.

More efficient, more sustainable

Solutions By Sector

Mining & Resources

HOW GREENCHAIN SUPPORTS YOUR MINE

Greenchain Group takes a system-level view of water in mining operations. We design, install, & maintain water treatment systems that support:

Process water for extraction
Ensuring consistent quality for mineral processing

Potable water for staff
Safe drinking water in remote locations

Wastewater management
Treatment & reuse of effluent & tailings water

Environmental compliance
Meeting strict mining & environmental regulations



Operational continuity & water security
Maintains uninterrupted water supply for critical processes, reducing downtime & production risk.

Cost-Efficient operation
Optimises water & energy use, reduces chemical dosing, & lowers operating costs.

Modular & scalable systems
Flexible solutions designed to scale with mining site expansions or fluctuating production volumes.

Holistic water management
Systems consider the entire water cycle, including water sourcing, treatment, reuse, & discharge, promoting sustainability.

Smart monitoring & automation
Real-time system performance tracking & predictive maintenance for proactive management & reduced operational risk.

Simplifying your water and wastewater management

Solutions By Sector

Government & Municipalities

HOW GREENCHAIN SUPPORTS YOUR INFRASTRUCTURE

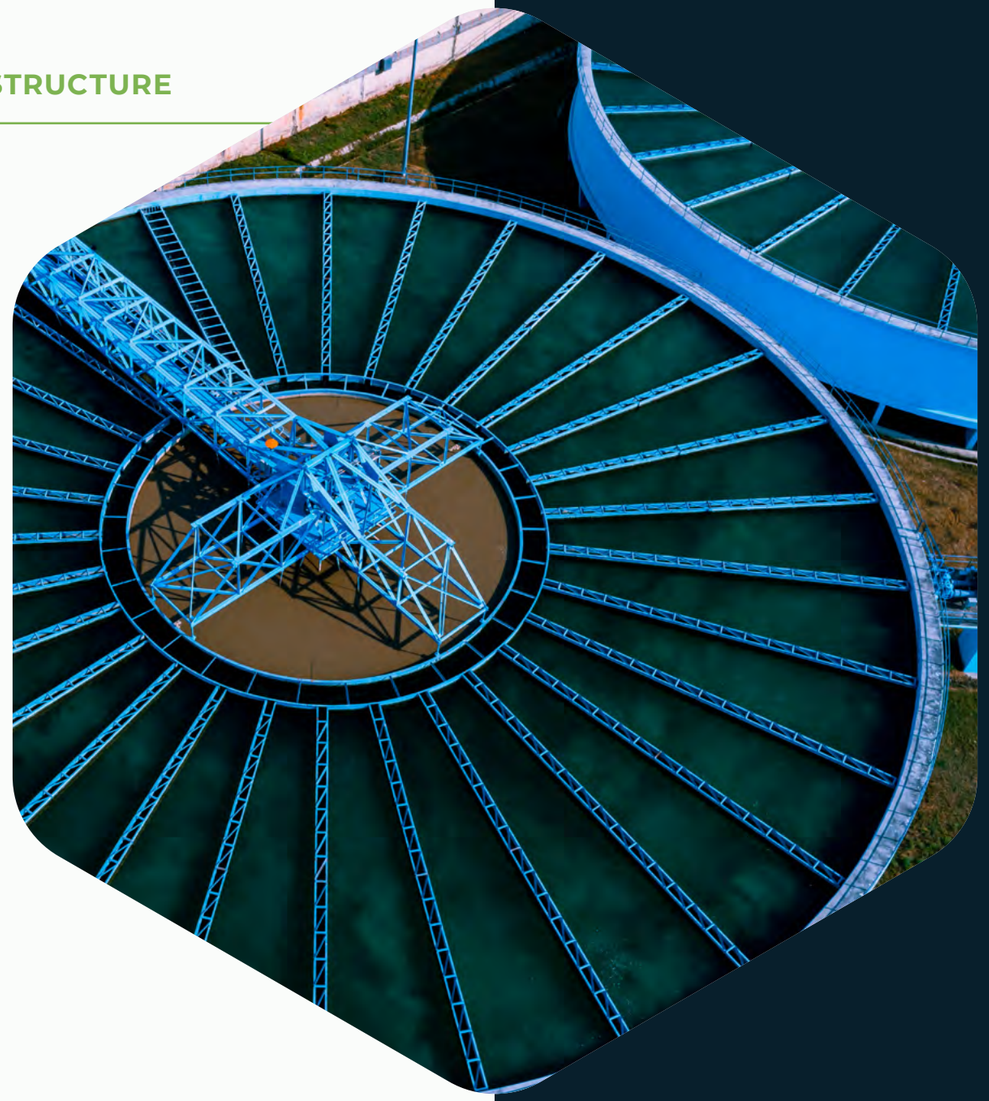
Greenchain Group takes a system-level view of public water systems. We design, install, & maintain water treatment systems that support:

Potable water supply
Delivering safe drinking water to communities

Wastewater treatment
Ensuring safe discharge & reuse

Public health compliance
Meeting environmental & safety standards

Infrastructure reliability
Reducing downtime & service interruptions



Supporting long-term budgets

Public health & safety
Ensures safe, high-quality water for communities & facilities, supporting public health standards.

Operational reliability
Water security that reduces risk of service interruptions with robust, high-performance systems.

Cost effective infrastructure
Optimises water & energy use, lowers operational costs, & supports long-term municipal budgets.

Modular & scalable systems
Flexible solutions that can expand or adapt as community needs grow or regulations change.

Holistic water management
Integrated approach to water sourcing, treatment, reuse, & discharge, promoting sustainability & resilience.

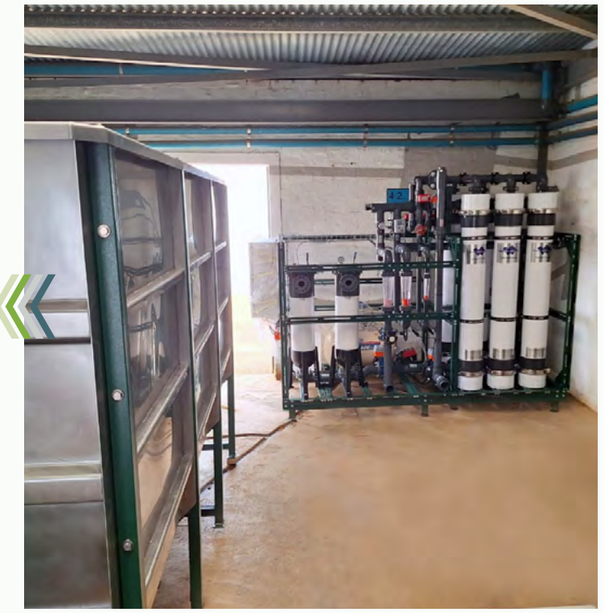
Smart monitoring & automation
Real-time performance data, predictive maintenance, & remote management reduce operational risk & support decision-making.

Showcase projects

ADVANCED ULTRAFILTRATION

Estate Water Treatment | Simondium, South Africa

Intelligent surface water treatment system for mixed-use agricultural estate, providing reliable drinking water across the estate to support agriculture, hospitality and long-term water security.



MEMBRANE BIOREACTOR (MBR)

Industrial Wastewater | Nelspruit, South Africa

Advanced wastewater treatment system for a macadamia processing facility in Nelspruit, South Africa, producing high-quality treated effluent suitable for future water reuse opportunities.





ADVANCED REVERSE OSMOSIS

Agricultural Irrigation | Sandveld, South Africa

Advanced borehole water treatment system for a commercial berry farm in the Sandveld, South Africa, producing irrigation-quality water that protects high-value crops and supports sustainable agricultural production.



MULTI-MEDIA FILTRATION

Containerised Water Treatment Plant | Ghana

Delivering a purpose-built, containerised water treatment plant for a mining operation in Ghana. Engineered to specification, manufactured on schedule, and ready for deployment.

Showcase projects

REVERSE OSMOSIS SYSTEM

Luxury Island Development | Private Island, Seychelles

Delivering safe drinking water for a private island in the Seychelles from a challenging groundwater source, including nitrate contamination caused by seabirds infiltration.



NANOFILTRATION SYSTEM

Large Solar Energy Facility | De Aar, South Africa

Integrated drinking water and panel wash water treatment system for a solar energy facility in De Aar, South Africa, improving water efficiency while protecting long-term solar panel performance.





ULTRAFILTRATION SYSTEM

Packhouse Water Optimisation | Montagu

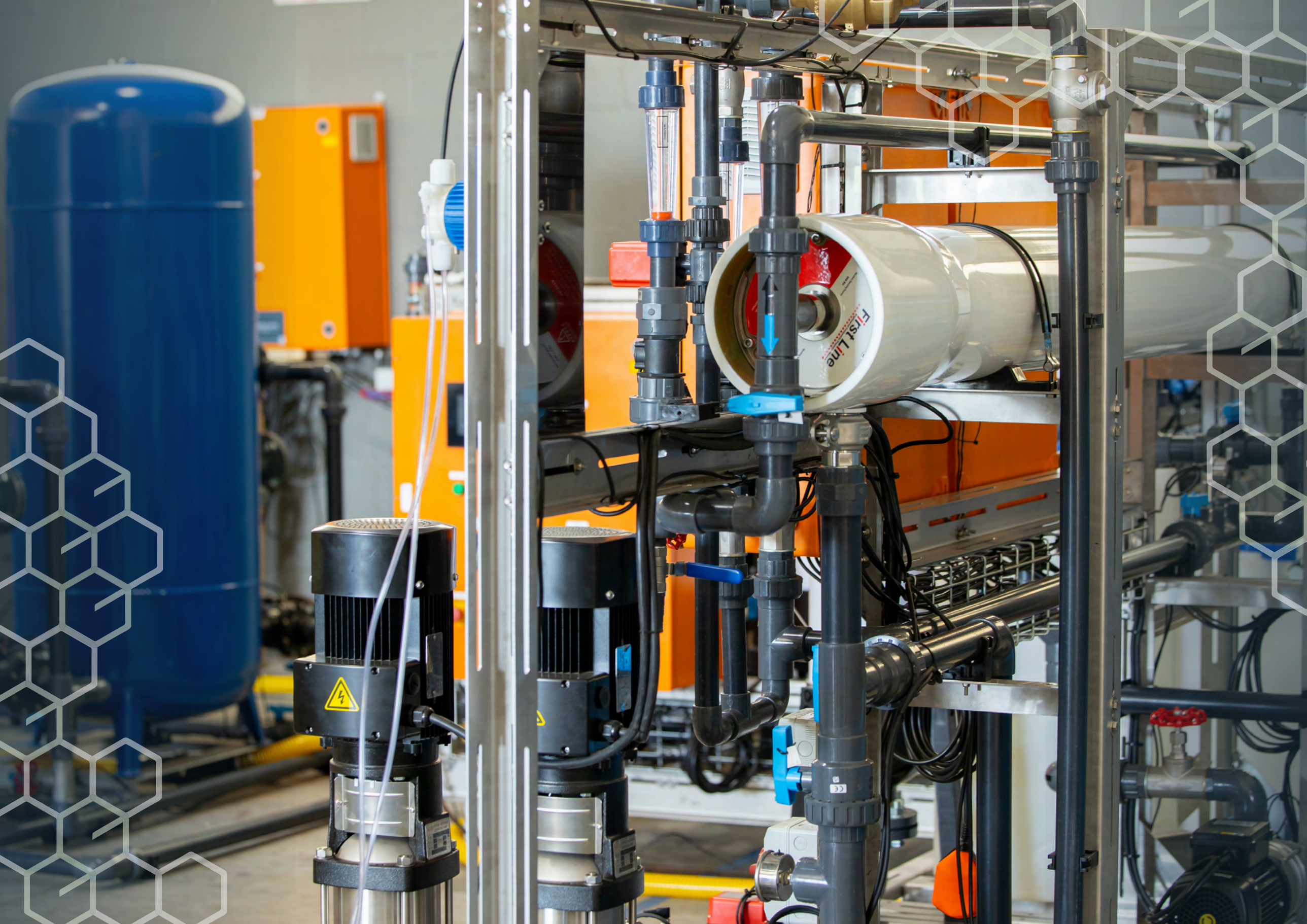
Upgrading an ultrafiltration system for a fruit packhouse in Montagu, South Africa, restoring water quality, increasing treatment capacity, and supporting continued farm expansion.



INDUSTRIAL DESALINATION

Smart seawater treatment | Walvis Bay, Namibia

Providing a seawater desalination plant in Walvis Bay, Namibia, delivering a dependable freshwater supply for cooling systems where no alternative water source existed.


First Line

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Contact Us

Our team of exceptionally skilled engineers is dedicated to promptly addressing your needs.

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