



GREENCHAIN
GROUP

WATER
4
YOUR
FACILITY

WATER
4
THE
PLANET

FOOD & BEVERAGE

The Food and Beverage industry stands to grow significantly across Africa, with **South Africa currently the largest and most advanced industry player on the continent.**

Water is integral to this industry, yet across the globe, intense water quality and supply issues threaten expansion, financial sustainability, and operational stability in this sector. By adopting **innovative** water and wastewater treatment **technology**, and implementing novel water management plans, the industry can **safeguard** its access to **high quality water** at affordable prices.

At Greenchain Group, we design and manufacture **purpose-built advanced water and wastewater treatment solutions** for Food and Beverage applications. With our diverse range of membrane solutions, we provide our customers with a number of options which they can deploy to extract more value, enhance quality control, enhance product quality and shelf life, **comply with hygiene and sanitation standards**, and manage their water supply and reuse potential to **achieve overall cleaner production and sustainability goals.**

FOOD AND BEVERAGE INDUSTRY WATER TREATMENT SYSTEMS
GUARANTEE WATER QUALITY FOR PRODUCTION AND CREATE
OPPORTUNITIES FOR RETICULATION AND WASTE RECOVERY.

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SCAN ME



WHAT WE DO FOR YOUR FACILITY

Greenchain Group offers a wide range of water treatment solutions and technologies suited to the Food and Beverage industry. We take a **holistic approach during our evaluation** of each facility. This involves a detailed investigation of the water streams, water usage, wastewater production, and **potential for process optimization**. With this understanding in place, a scientific characterization of the water streams can be made. This information collectively decides the technology that will be **proposed, engineered, and maintained at the facility**.

Greenchain's multi-barrier treatment solutions incorporate leading technologies including: **Ultrafiltration (UF), Nanofiltration (NF), Reverse Osmosis (RO - low pressure to high-pressure desalination), MBR's (Membrane Bioreactor), and UASB Reactors (Upflow Anaerobic Sludge Blanket)**.



— HIGH QUALITY WATER SOLUTIONS:



Multi-barrier systems that safeguard against water quality fluctuations, contaminants, and unwanted components.



Upgrade and optimize process water in line with production requirements to improve quality control, overall product quality & product shelf life.



Advanced automated solutions with remote monitoring that operate robustly, efficiently, and effectively ensuring maximum CapEx returns on investment.



Targeted removal for adjusting pH, removing hardness, correcting for EC, removing iron, controlled sterilization, and more.



Alternative source integration/supplementation: safeguard water availability by treating surface water, groundwater, seawater, or effluent.



Cost Savings: reticulation, reuse, or the incorporation of alternative water streams can bring significant cost savings by reducing municipal consumption.



Zero Discharge: reduce costs and improve the sustainability of operations by treating and reusing wastewater.



Skid-based systems or containerized solutions for any site location.



Servicing Optimization: Extend servicing intervals and improve equipment longevity with high-purity water (e.g. boilers and steam retorts).



Reduce sanitizing costs and associated chemical usage (eg. CIP chemicals).



Comprehensive maintenance and SLA options that also assist in meeting industry standards and compliance.



Strategic partnerships: We can manage the project and bring in trusted specialists to tackle project aspects outside our expertise.

