



WAAS PROFILE.

Innovating Water & Wastewater Solutions for a Sustainable Future



Water as a Service, we strive to create a better future by providing innovative solutions that provide clean water to everyone and reduce the environmental impact of wastewater.

WAAS PROFILE

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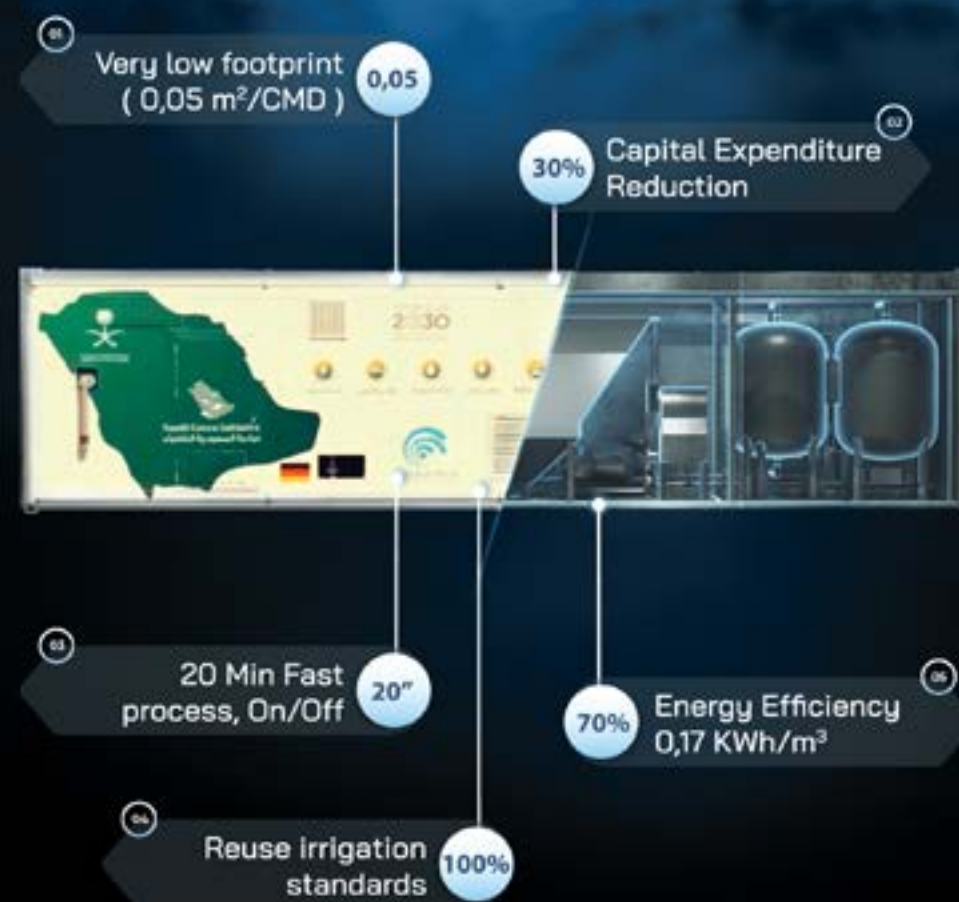




COMPANY OVERVIEW

GI WAAS delivers cutting-edge water and wastewater solutions using advanced nanotechnology and zero total discharge solution sets industry standards. Our mission is to provide smart, sustainable, and decentralized treatment systems. We are committed to circular economy principles and reducing environmental impact. Our holistic approach provides comprehensive, tailor-made solutions that are designed to meet the specific needs of each client

WINNERS!



NanoParticle
Material

Innovative
Additive

A forward-thinking
solution designed
for today's needs
and tomorrow's
possibilities.

POWERED BY GI AQUA TECH

G.NANO
TECHNOLOGY

G-NANO TECHNOLOGY

Smart, Sustainable, and Scalable Wastewater Treatment

At the core of our solutions lies G-NANO, a proprietary nanotechnology-based treatment system engineered to transform wastewater management. The system is designed to achieve up to 90% pollutant removal, while significantly reducing capital costs by 30% and operational expenses by 40%.

G-NANO is modular, energy-efficient, and adaptable across diverse environmental and operational conditions. It offers multiple control levels—Semi, Full, and Fully Automated—equipped with real-time monitoring and smart management tools.

Key Treatment Processes

G-NANO utilizes an advanced, multi-stage treatment sequence optimized for various wastewater types with high organic content, nutrients, pathogens, and pollutants:



Flow Equalization: Balances inflow to ensure stable treatment conditions.



Capsulation and Adsorption: Isolates contaminants for easier and safer removal.



Coagulation and Flocculation: Targets suspended solids, fats, oils, and greases for efficient separation.



Primary & Secondary Treatment: Removes up to 90% of Biochemical Oxygen Demand (BOD) and organic impurities.



Tertiary Treatment: Uses activated carbon filters to eliminate **metals, phosphorus, nitrogen**, and other residuals.

How G-NANO Works



- 1 PH Buffering & Optimization.
- 2 Organic Compounds Oxidation.
- 3 Positive Charge Cloud.
- 4 Double Layer Formation.
- 5 Increase in Particle Size.
- 6 Flocculation.
- 7 Sludge Formation.
- 8 Compact Sludge.

G.NANO Mechanism
How G.NANO
Works



SECTORS

At Water as a Service, we deliver customized wastewater treatment solutions across a diverse range of sectors



DOMESTIC WASTEWATER

Municipalities and
Household Wastewater



POULTRY, DAIRY AND BEVERAGE WASTEWATER

Wastewater Generated
from Poultry Farms



SLAUGHTERHOUSES WASTEWATER

Wastewater with Blood &
high Protein Content



CONCRETE WASTEWATER

Wastewater Treatment for
Concrete Washing

VALUE PROPOSITION



LONG STARTUP TIME
(weeks/months)



PLUG & PLAY
Starts immediately

SLOW TREATMENT
8-48 hours



FAST TREATMENT
3-5 mins

HIGH ENERGY CONSUMPTION
often >1 KWh/m²



ENERGY EFFICIENT
0.2 KWh/m³

LARGE FOOTPRINT
>500-1000 m² for similar capacity



SMALL FOOTPRINT
50 m²/1000 m³

ODOR
biological degradation processes



ODOR-FREE
Non-biological

LIMITED TO FLUCTUATIONS
Requires steady flow and load



ADOPTIVE TO FLUCTUATIONS
No limitation to fluctuations

WE OFFER CUSTOMIZED SOLUTIONS

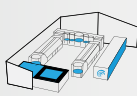
We are committed to pioneering the future of wastewater management through our advanced and customized treatment solutions. Each solution prioritizes optimal performance, sustainability, and adaptability to various operational needs.



MOBILE
Unit



PORTABLE
Unit



CAPACITY
UPGRADE
Unit

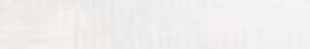
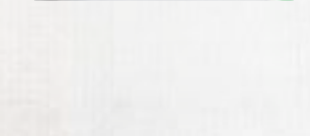


Our Projects



RCMC-Slaughter House For Haji-Adahi(Makkah)

As part of WAAS (Water as a Service), GI Aqua Tech successfully delivered a rapid-response solution during Hajj, treating over 80,000 m³ of slaughterhouse wastewater in just 84 hours. Using mobile G.NANO-powered units, the system achieved 90% BOD reduction, zero odor, and full water reuse — without the need for evaporation ponds. This award-winning WAAS deployment set a new global standard for emergency, high-load wastewater treatment.



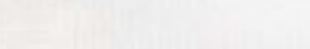
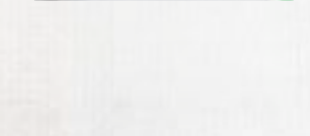
Neom The Line Concrete Wastewater Treatment Plant

Through WAAS, GI Aqua Tech supported NEOM's sustainability vision by deploying modular G.NANO treatment units for diverse industrial wastewater. These systems tackled oils, metals, and salinity with 90% pollutant reduction and enabled safe reuse. As a flexible, service-based solution, WAAS helped NEOM scale its wastewater management without infrastructure delays or CAPEX burdens.



DGDA- Samhan Heritage Hotel Project

Under the WAAS model, GI Aqua Tech installed a compact 250 m³/day containerized unit at the Bab Samhan Hotel CTO camp in Diriyah. The non-biological, G.NANO-based system provided tertiary treatment with zero noise or odor, operating discreetly within a limited urban space. The treated water was fully reused for landscaping — a key WAAS success in heritage and hospitality environments.



ARASCO KFM

To support its sustainability goals and Vision 2030, ARASCO partnered with WAAS to deploy a portable 500 m³/day wastewater treatment unit at one of its agro-industrial facilities. The fully containerized system treats high-load effluent on-site, enabling complete water reuse and eliminating external disposal costs. Under this model, the client covered both the CAPEX and the O&M contract, ensuring long-term operational reliability and predictable lifecycle costs. This project demonstrates how WAAS provides fast, flexible, and sustainable water solutions that enhance efficiency and support national industrial growth.





International Water
Distribution Co. (Tawzea)

Rüsselsheim
am main



Royal Commission for Makkah
City & Holy Sites



Diriyah Gate Development
Authority



Islamic Development
Bank (IsDB)

DUZCE
UNIVERSITESI



National Center for Waste
Management

موان
المركز الوطني لإدارة النفايات
National Center for Waste Management

Saudi Investment Recycling
Company (SIRC)



CERTIFICATIONS



Approved by MWAN
Environmental Authority

Form of approval from the Ministry of Environment, Water and Climate Change, Kingdom of Saudi Arabia, for the project: "Water Treatment Plant for the Diriyah Gate Development Authority". The form includes details about the project location, the responsible company, and the approval status.



Certified by the National Water
Company (NWC) –Saudi Arabia

Form of certification from the National Water Company (NWC) for the project: "Water Treatment Plant for the Diriyah Gate Development Authority". The form includes details about the project location, the responsible company, and the certification status.



الهيئة السعودية للمياه
Saudi Water Authority

Certified by
the Saudi Water Authority

Certificate of Evaluation from the Saudi Water Authority for the project: "Water Treatment Plant for the Diriyah Gate Development Authority". The certificate includes details about the project location, the responsible company, and the evaluation results.



Water & Wastewater
Technologies

Innovating for
A Sustainable Tomorrow

صناعة
سعودية



SAUDI
MADE

GERMAN
TECHNOLOGY



تكنولوجيا
ألمانية