



OIL & GAS WASTEWATER SOLUTIONS

Resilient Performance for the World's
Most Demanding Sector

The Challenge

Wastewater from oil & gas operations is among the most complex worldwide. From produced water in upstream fields to chemical-laden effluents in downstream refineries, each stream carries:

- High levels of salinity and emulsified hydrocarbons
- Heavy metals and scale inhibitors
- Unstable volumes and shock loads

At GI Aqua Tech, we understand that operational uptime, regulatory compliance, and environmental reputation are all on the line. That's why we design systems that:

- Work in remote or harsh environments
- Require no biological processing
- Deliver zero-discharge capabilities
- **Right Side:** Vertical image strip (oil rig, separator tanks, contaminated water)
 - o Icon row: Representing oil, salinity, heavy metals, ZLD



How We Solve It

Our modular treatment platforms combine G.NANO chemistry with multi-stage chemical-physical processes. Designed for rapid deployment and minimal footprint, our systems remove up to 90% of COD and hydrocarbons with zero odor and zero sludge buildup, plus full remote control

System Highlights:



Remote
Monitoring



No Sludge
Generation



Scalable
Modular Design



Hydrocarbon
& Metal Removal



Low Energy, Harsh
-Environment Ready





Proven Benefits in Real Conditions

Our oil & gas treatment solutions have demonstrated high performance in various deployments, including:

- Up to 92% reduction in emulsified hydrocarbons
- High-efficiency removal of heavy metals and salinity
- Zero Liquid Discharge (ZLD) readiness with full reuse capability
- Seamless operation in remote, high-temperature, and safety-sensitive environments
- Reduction of odor, sludge, and chemical handling requirements

