



GDI

www.Greenindustry.ae

Water and Wastewater Treatment



About

Based in Dubai, JAWHARA ALKHADRA WATER TREATMENT EQUIPMENT TRADING CO. L.L.C, which is known by the brand name GREEN INDUSTRY is a leading manufacturer of water & wastewater treatment equipment. We are also a design and manufacturing company of automation and instrumentation packages, such as PLC and DCS systems, Sampling and Analyzer packages, CEMS packages, Mittering packages, HIPPS systems, and more.

We've gathered 60 years experience of our co-founders and have a team of experienced professionals who are dedicated to providing our customers with the best possible products and services. We are committed to quality and innovation, and we are always looking for new ways to improve our products and services.

Our products are used in a variety of industries, including manufacturing, oil and gas, power generation, and water treatment. We are a global company with offices in the United States, Europe, Asia, and South America.

We are proud to be a part of the Green family. We are committed to providing our customers with the best possible products and services, and we are always looking for new ways to improve.

Here is a more detailed description of our products and services:

- **Field Instruments:** We manufacture a wide range of field instruments, including pressure gauges, pressure transmitters, temperature gauges, temperature transmitters, level transmitters, flow transmitters, and more. Our field instruments are used in a variety of industries, including manufacturing, oil and gas, power generation, and water treatment.
- **Water Treatment Packages:** We design and manufacture water treatment packages that are used to remove contaminants from water. Our water treatment packages are used in a variety of industries, including manufacturing, oil and gas, power generation, and water treatment.
- **Automation and Instrumentation Packages:** We design and manufacture automation and instrumentation packages, such as PLC and DCS systems, Sampling and Analyzer packages, CEMS packages, Mittering packages, HIPPS systems, and more. Our automation and instrumentation packages are used in a variety of industries, including manufacturing, oil and gas, power generation, and water treatment.

We are committed to providing our customers with the best possible products and services. We are always looking for new ways to improve, and we are always looking for new ways to help our customers succeed.

Sea Water Desalination Packages



BEW-SC12

Capacity:	432 ~ 192 TPD (18 ~ 8 m3/h)
Feed:	Sea Water – TDS up to 42,000 mg/l
Product:	Potable Water – TDS<500
Recovery:	%45
Pre filter:	Multi Media Sand Filter
Flushing System:	Automatic
Pressure Class:	600#
Power Consumption:	< 6KWh/m3
Estimated Weight:	13 ~ 9 tons
Dimension:	1 x 40' HQ Container



BEW-SC24

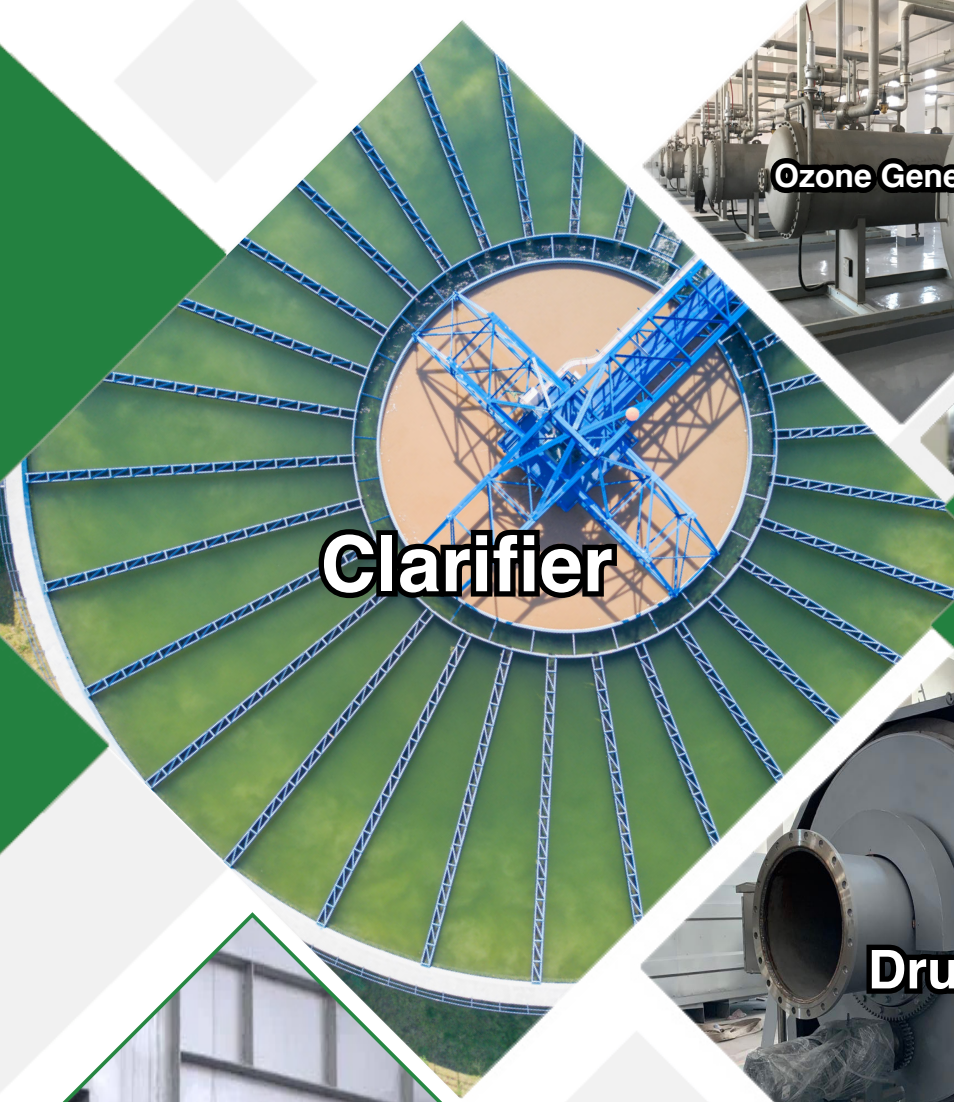
Capacity:	1440 ~ 432 TPD (60 ~ 18 m3/h)
Feed:	Sea Water – TDS up to 42,000 mg/l
Product:	Potable Water – TDS<500
Recovery:	%45
Pre filter:	Multi Media Sand Filter with Automatic Backwash System
Flushing System:	Automatic
Pressure Class:	High Pressure: 600# – Low Pressure: PN10
Power Consumption:	< 6KWh/m3
Estimated Weight:	48 ~ 24 tons
Dimension:	2 x 40' HQ Container



BEW-SC36

Capacity:	3600 ~ 1440 TPD (150 ~ 65 m3/h)
Feed:	Sea Water – TDS up to 42,000 mg/l
Product:	Potable Water – TDS<500
Recovery:	%45
Pre filter:	Multi Media Sand Filter with Automatic Backwash System
Flushing System:	Automatic
Pressure Class:	High Pressure: 600# – Low Pressure: PN10
Power Consumption:	< 6KWh/m3
Estimated Weight:	86 ~ 52 tons
Dimension:	3 x 40' HQ Container

Green Industry Company, leveraging the technical expertise of its engineers and management, has cultivated robust collaborations with global leaders in the water and wastewater treatment sector. This synergy, coupled with extensive networks of engineers and specialists worldwide, has empowered the company to excel in the design, procurement, fabrication, installation, and commissioning of industrial wastewater treatment systems. The company has a proven track record of successful project execution in this domain.



Clarifier



Ozone Generator



Ultra Filter



Drum Filter



**Dissolved Air Flotation
(DAF)**

Industrial Wastewater Management and Reclamation Systems

Subsequently, the equipment and methods commonly employed in wastewater treatment systems will be introduced. At the outset of each project, the company's engineers conduct a thorough analysis of the wastewater in question. By considering the constituent components of the wastewater and taking into account the specific needs and priorities of the client, the wastewater treatment system is designed in the most optimal manner, utilizing a combination of the following equipment and methods.

Chemical Dosing Systems



Chemical dosing systems are widely used in various industries such as oil and gas, petrochemical, energy, water and wastewater treatment, and steel. Applications include acid dosing, base dosing, scale inhibitor injection, corrosion inhibitor injection, water and wastewater treatment, flocculation, disinfection, and more. Given the specific requirements of each application, these systems require customized design and are manufactured under stringent quality standards.

In a typical chemical dosing system, chemicals are mixed with water or other solvents in a preparation tank to achieve the desired concentration. The prepared solution is then dosed into the process stream using a dosing pump.

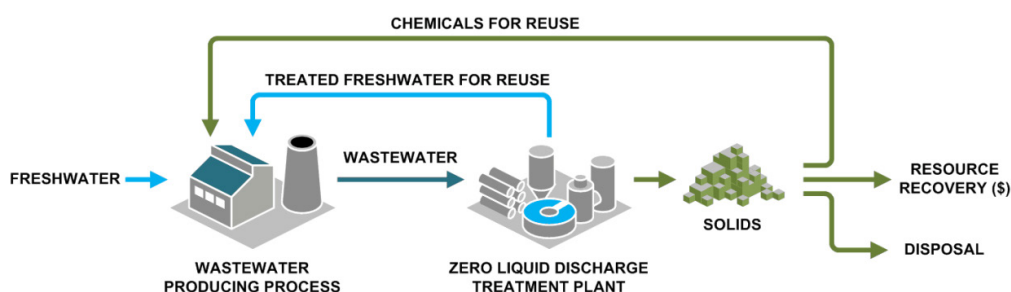
Given the continuous nature of most industrial processes, our company's packages are typically designed with fully automated, online control systems. In addition to prioritizing efficiency and utilizing the latest global technologies, Green Industry Company places significant emphasis on aesthetic design in its products.



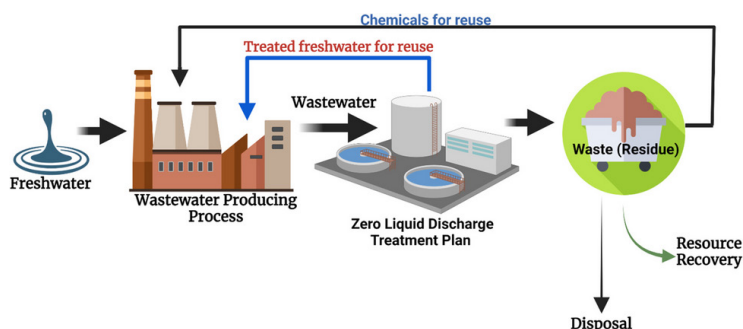


Zero Liquid Discharge (ZLD) Wastewater Management Systems

Zero Liquid Discharge (ZLD) is an advanced, technology-driven approach to wastewater management aimed at minimizing water consumption, reducing reliance on natural water sources, and maximizing water reuse in industrial processes. Given the scarcity of water resources and the growing need for environmental protection, ZLD systems have gained significant attention in various industries, including chemical, petrochemical, textile, food, and other water-intensive sectors.



Employing a sophisticated combination of technologies, including water treatment, evaporation, and crystallization, membrane filtration (using semi-permeable membranes), flash evaporation, and multi-effect evaporation, these systems can effectively recover up to %99 of wastewater, rendering it reusable. Consequently, industries can directly utilize the recovered water, significantly reducing their reliance on natural water sources. Furthermore, ZLD systems mitigate the presence of pollutants in wastewater and facilitate the recovery of valuable materials. By focusing on the reuse of salts, minerals, and organic compounds, these systems ensure the recovery of usable materials and the preservation of natural resources.



Green Industry Company leverages its expertise and experience in wastewater treatment systems to offer tailored solutions for industries seeking to optimize water consumption and reduce wastewater discharge through Zero Liquid Discharge (ZLD) approaches. The company possesses the capability to design, implement, and maintain ZLD systems, customized to meet the specific needs and conditions of each client, thereby enhancing environmental performance and industrial productivity.