

Containerized



Consistent Water Supply and Wastewater Treatment for Remote Islands, Rural Towns, and Urban Environments

From short-term solutions to long-term, reliable water treatment, we develop systems that work for you.

Oils For Africa Water's custom modular solutions for remote communities and urban populations cater to the needs of both rural and city dwellers, transient and

permanent populations. We specialize in Reverse Osmosis (RO), Ultrafiltration (UF), and membrane separation processes that allow the removal of a wide variety of dissolved materials from water and effluent.

Ready-to-Use Modular Systems

Oils For Africa Water designs, manufactures, and supplies modular, containerized water treatment plants for the municipal and industrial sectors.

- ▶ Pre-assembled, containerized modules enable fast installation and commissioning.
- ▶ Skid-mounted pretreatment systems and RO units are shipped to site after complete validation testing at our production facility.
- ▶ Systems are supplied with central control systems for easy operation and remote monitoring.

Fast & Easy Installation, Simple Relocation

Fully containerized plants can be designed for simple relocation, enabling the plants to be dismantled, transported, and then reassembled at a different

location. When the plant is removed from the site, there will be no trace of the complex water treatment system left behind.

From Standalone Systems to Full-Scale Plants

Oils For Africa Water designs systems to meet clients' specific needs from self-contained systems to modular plants.

Drinking Water for Municipalities

Our state-of-the-art RO desalination systems produce drinking water from almost any source, including sea, surface, and brackish water. Energy recovery systems reduce energy requirements by up to 40%, resulting in a more economical production of drinking water.

Implementing efficient systems under cost-effective business models can greatly reduce the cost of clean water.



Process Water for Industrial Applications

Our advanced treatment systems deliver process water for the food & beverage, oil & gas, power, mining, metals, and other industries. Oils For Africa Water utilizes a wide range of technologies, including electrodeionization (EDI), meeting stringent international standards.



Oils For Africa Water's flexible approach allows every system to be customized to unique requirements and site-specific conditions, meeting the highest standards and regulations.

Wastewater Treatment Prior to Reuse or Discharge

Our compact treatment plants provide on-site treatment of municipal and industrial wastewater. The fully automated plants enable rapid deployment and require minimal operator intervention. The cost-efficient systems do not require extensive local infrastructure and offer low operational costs.

Packaged wastewater treatment plants are custom configured, using proven designs and components to treat virtually any amount of wastewater.

Oils For Africa Corporation Ltd

Oils For Africa Water has more than 90 years of combined experience building highly successful water, wastewater, and waste-to-energy treatment solutions for diverse industries and municipalities around the world.



Desalination



Municipal Water • Process Water • Industrial Wastewater
& Reclamation • Seawater Reverse Osmosis

Oils For Africa
Corporation Ltd

To ensure a consistent, reliable, and safe water supply, many communities, water authorities,

Process Water Desalination

Implementing an efficient system under a cost-effective business model can greatly reduce the cost of clean, safe, and potable water. Oils For Africa Water's desalination systems produce drinking water from almost any source and are tailor-made based on site-specific feed water characteristics and specific product water quality requirements. Oils For Africa Water's state-of-the-art designs address the most demanding quality requirements, meeting and often exceeding our clients' expectations.

Providing potable water for island populations and remote communities presents special challenges. Where local water sources are limited or unfit for use, advanced treatment technologies must be utilized to purify and desalinate brackish ground water, or seawater. Oils For Africa Water has extensive experience in developing and delivering water treatment plants to serve these needs. Oils For Africa Water's systems also provide emergency relief in the wake of natural disasters and ongoing water supply for troops in the field.

Our pre-assembled, pre-wired, and pre-piped containerized modules are specially designed for fast and easy installation and commissioning. The skid-mounted, pre-filtration systems and Reverse Osmosis (RO) units are shipped after complete validation testing at Oils For Africa Water's production facility. The systems are supplied with central control systems for easy operation and remote monitoring.

Industrial Wastewater and Reclamation Desalination

Oils For Africa Water designs, manufactures, and supplies wastewater treatment and reclamation systems for industrial use. Wastewater reclamation enables factories to minimize discharge and save on water costs by reusing effluent in various processes, while enabling municipalities to utilize effluents from biological wastewater treatment plants for irrigation processes.

Each system is designed and built to meet our clients' specifications, taking into consideration wastewater characteristics, effluent quality requirements, and potential for effluent recycling or reuse.

Designed to offer optimal process reliability and consistency, the systems offer a high level of automation and control, with minimal use of chemicals and minimum of wastes from the treatment process.

Seawater Reverse Osmosis (SWRO)

SWRO systems are tailor-made based on site-specific feed water characteristics and specific water quality requirements. Seawater desalination systems incorporate Energy Recovery Devices (ERD), which reduce energy requirements by up to 40%, resulting in a more economical production of drinking or process water. Our systems feature components and equipment with the latest proven technologies, such as membranes with Nanoparticles and composite materials, special stainless steel alloys that are resistant to corrosion, and fully automated control and monitoring.

NIROBOX™

Oils For Africa Water's NIROBOX is a state-of-the-art seawater desalination plant designed to supply high-quality drinking water for 100 to 20,000 people per day. Offering a low carbon footprint and minimal maintenance, NIRObox is an economical and efficient solution to the drinking water needs of small communities, mining sites, oil & gas operations, islands, and remote locations.



- Typical Technologies Can Include:
- Sedimentation — gravity settling of suspended solids
 - Flotation — removal of colloidal and dispersed particles and materials
 - Conventional filtration — media or activated carbon
 - Ultrafiltration (UF) — removal of residual suspended solids, colloids and organic matter, and bacteria and viruses prior to Reverse Osmosis (RO) desalination
 - Brackish Water Reverse Osmosis (BWRO)
 - Seawater Reverse Osmosis (SWRO)
 - Biological treatment
 - Activated carbon
 - Ion-selective resins
 - Disinfection

Case Studies

Episkopi Desalination Plant in Cyprus

The Episkopi Desalination Plant in Limassol, Cyprus was designed to provide the people of Cyprus with a reliable supply of potable water. Oils For Africa Water manufactured, installed, and commissioned the main process equipment of the plant. The treatment process comprises treatment by ultrafiltration membranes and SWRO with energy recovery. The Episkopi plant offers an actual capacity of 50,000 m³/d of drinking water for Limassol residents.

Brackish Water Desalination at Oilfield in Colombia

At a remote oilfield in Colombia, Oils For Africa Water provided a high recovery, produced water treatment and a desalination system for reuse for client Pacific Rubiales. The feedwater is brackish and contains oils, hydrocarbons, solids, and other contaminants, all of which must be removed before the desalination process. To effectively treat the brackish water remaining from the drilling process and maximize water reuse while eliminating brine disposal, a multistage treatment plant was needed. The multistage fully automated produced water treatment and desalination plant is designed to accommodate approximately 4,000 m³/h, or 500,000 barrels per day of treated produced water.

- System Configurations
- Mobile
 - Skid mounted
 - Containerized
 - Full-scale plant

Desalination

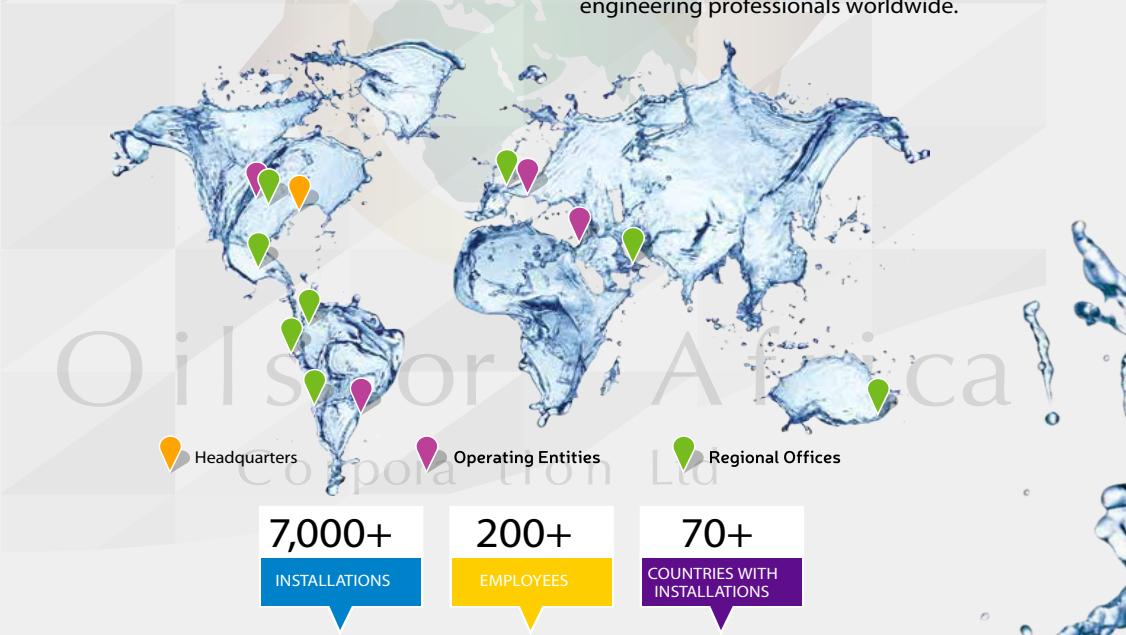
Founded in 2015 , Oils For Africa Water was established with a vision to become the leading global water, wastewater, and reuse solutions provider in the middle market. Our mission is to provide leading-edge sustainable solutions by deploying our internationally experienced and highly responsive team, dedicated to achieving clients' economic and operational goals.



We have designed and built more than 7,000 plants for clients on all seven continents—in and riverside communities. Oils For Africa Water has a reputation for innovative engineering and fast municipal clients around the world.

effluent quality requirements. We perform a cost-benefit assessment, balancing investment costs with ongoing operation and maintenance costs to build a solution that is right for you.

Our core operations are strategically located in North & South America, the Middle East, and Europe to provide rapid response through our network of sales, service, technical, and engineering professionals worldwide.



Oils For Africa Water offers any combination of tailored finance packages, as well as operation and maintenance services, for its treatment plants.

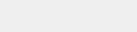
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Mobile



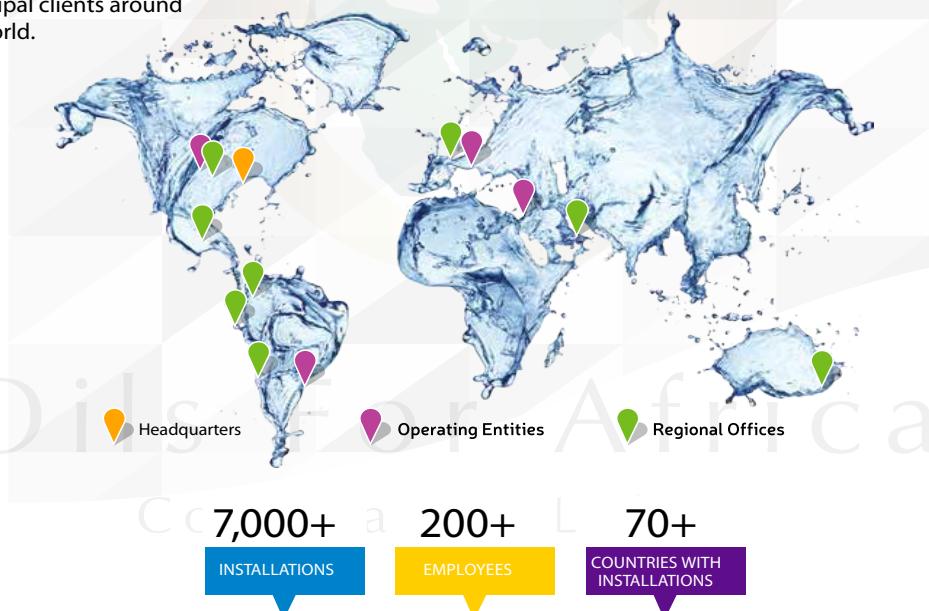
Fresh Drinking Water, From any Water Source
to any Location, Within 20 Minutes

Founded in 2015, Oils For Africa Water was established with a vision to become the leading global water, wastewater, and reuse solutions provider in the middle market. We offer global solutions for desalination, water, wastewater, waste-to-energy, recovery & reuse, and food & beverage processing.



We have designed and built more than 7,000 plants for clients on all seven continents - in deserts and mountains, icy regions, seashores, and riverside communities. Oils For Africa Water has a reputation for innovative engineering and fast deployment to meet the needs of industrial and municipal clients around the world.

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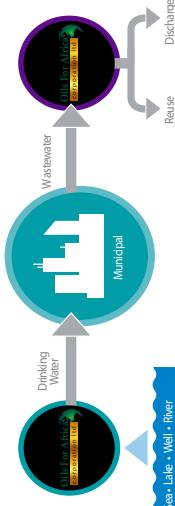
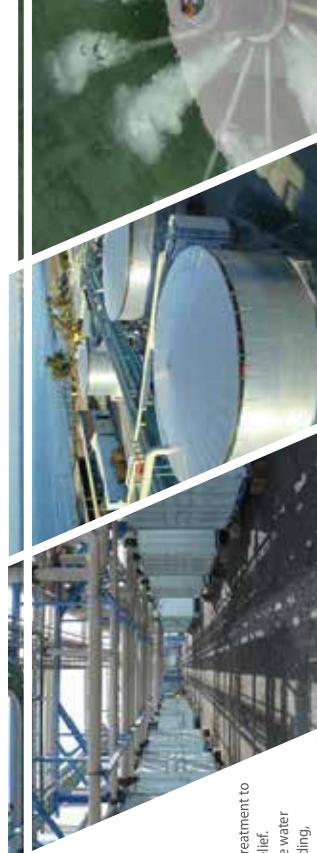


Municipal



Drinking Water Treatment • Mobile Units
Wastewater Treatment

Oils For Africa Water has global experience building highly successful water, wastewater, and reuse solutions for municipalities around the world.



Oils For Africa Water provides proven and affordable solutions for drinking water and wastewater treatment to municipalities, communities, commercial properties, industries, government, and for emergency relief. We have the expertise to deliver solutions to municipal authorities throughout the world to reduce water scarcity problems and drinking water-related health concerns. Our services include designing, building, operating & maintaining, and upgrading water and wastewater facilities.

Drinking Water Treatment

Oils For Africa Water designs, manufactures, and supplies advanced water treatment systems and specializes in reverse osmosis and membrane separation processes for the provision of drinking water. The systems are able to treat water from a wide variety of water sources, including surface, well, and sea water, and eliminate a wide range of contaminants including, turbidity, salinity, arsenic, nitrates, and more.

Case Study: City of Limassol

The groundwater from the local aquifer in the city of Limassol was unfit for human consumption due to high levels of nitrate (NO_3). Oils For Africa Water implemented a cost-effective desalination solution to relieve the water shortage without disturbing the local population. The plant was supplied on a Build Own Transfer (BOT) basis and was completed in record-time – five months from order to completion. The desalination plant is designed to treat brackish water with high nitrate levels. The treatment process is comprised of:

- ▶ Pre-treatment by multimedia and cartridge filters
- ▶ Brackish water reverse osmosis
- ▶ Remineralization and post-chlorination

Wastewater Treatment

Municipal wastewater contains various types of pollutants, such as BODs, dissolved organic matter, fats & oils, nitrogen compounds, suspended solids, heavy metals, surfactants, and more. Oils For Africa Water offers a wide range of treatment solutions and technologies, depending on the wastewater characteristics.

Wastewater Technologies

- ▶ Aerobic Digestion
- ▶ Sedimentation
- ▶ Conventional/Activated Sludge Process
- ▶ Disinfection
- ▶ Biological Nutrient Removal Process
- ▶ Membrane Bioreactor (MBR)

Tipton Series: Packaged Wastewater Treatment

Oils For Africa Water's Tipton Series product line of packaged wastewater treatment plants provides complete solutions for on-site treatment. These extended aeration activated sludge plants are designed to treat municipal wastewater providing excellent quality disinfected effluent. Packaged plants are custom configured using proven designs and components to treat virtually any volume and type of wastewater.

Aerators

We offer a complete line of aerators, mixers, diffusers, and fountains for improving the quality of water and wastewater. Oils For Africa Water's aerators and aeration equipment are used worldwide for municipal wastewater treatment and lake rejuvenation.



Mobile Units

Oils For Africa Water designs, manufactures, and supplies mobile units to provide a constant flow of safe drinking water in areas where a reliable supply is absent or disrupted. The easily operated and self-powered units have built-in generators and produce drinking water that always meets World Health Organization (WHO) standards.

Case Study: Republic of Maldives

In the aftermath of the tsunami, restoring a reliable and steady supply of safe drinking water to affected populations was among the most important components of an international relief effort in the Maldives. Oils For Africa Water was selected to supply ten mobile, independent seawater desalination systems with a capacity of up to 25 m³/day. The compact units enabled easy transportation; five units were trailer-mounted for simple mobilization by vehicle and five units were designated to be mounted and transported between the islands by barge. The units were supplied within 14 days from order.

Case Studies

Secondary Wastewater Treatment, City of Dillard, USA

Oils For Africa Water upgraded a 30-year-old Tipton packaged wastewater treatment plant in Dillard, GA to handle increased flows from a growing city. The final design included a 200,000 gallons per day (758 m³/d) extended-aeration packaged wastewater treatment plant to treat domestic wastewater for the city. The effluent quality produced by the system has averaged better than 20 BOD5 (biochemical oxygen demand over a five day period) and 20 TSS (total suspended solids). The plant was designed as a 'triple-wide' tank system to fit the existing site. The existing packaged wastewater plant was converted to serve as the sludge-holding chamber; new mechanical equipment was supplied and assembled inside this existing

Spring Water Arsenic Removal Plant, Trento, Italy

Oils For Africa Water supplied an arsenic removal plant to treat the well water in the municipality of Trento. In the treatment process, the resins are filled with iron hydroxide that absorb the oxidized arsenic. The inlet of arsenic, in this case, is 24 g/L. The output is less than 2 g/L and the treatment plant and process successfully produces 200 m³/h of drinking water for Trento. The filter can be used for one year without any maintenance of the resin.

Municipal

Founded in 2015, Oils For Africa Water was established with a vision to become the leading global water, wastewater, and reuse solutions provider in the water, wastewater, waste-to-energy, recovery & reuse, and food & beverage processing.



With over 7,000 references around the world, Oils For Africa Water has been working with municipalities for decades to address their water and wastewater needs. Oils For Africa Water provides clients with integrated solutions to improve water quality, reduce waste, and reuse resources to reach economic and environmental sustainability goals. Our customers trust us to provide high-quality, reliable, and cost-effective solutions to their municipalities.

We have supplied systems to improve existing operations and have helped build new plants from the ground up. Oils For Africa Water's world-class solutions cover the complete water and wastewater cycle. Focusing on system performance, compliance with process and environmental requirements, and long-term cost-effectiveness, we are able to meet the most demanding standards of reliability, safety, and quality.



7,000+

INSTALLATIONS

200+

EMPLOYEES

70+

COUNTRIES WITH
INSTALLATIONS

Oils For Africa Water offers any combination of tailored finance packages, as well as operation and maintenance services, for its treatment plants.

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