

Tapping the World's Largest Reservoir

Seawater Desalting Experience



Providing Solutions to the World's Water Challenges.

Over 70% of the planet is covered by water. The Pacific Ocean alone covers half the globe yet abundant, clean, safe drinking water is something that we cannot take for granted. In March 2002, EPA Administrator Christie Whitman referred to water quantity and water quality as "the biggest environmental issue that we face in the 21st century." Drought conditions in many parts of the world, coupled with increasing concerns about waterborne contaminants, have made it abundantly clear that innovative water management solutions are necessary to protect the quantity and quality of our most precious and vital resource.

At GE Water & Process Technologies, we are continually striving to provide solutions to the challenges of supplying the world with quality drinking water. Through our expertise in membrane-based water treatment, GE has been purifying water from

a wide variety of sources in virtually every geography around the world. GE is an industry leader in establishing economic desalination solutions for our clients and their customers.

As a pioneer in privatization, we offer a variety of project structures to suit your needs including Design/Build, Design/Build/Operate (DBO), Build/Own/Operate (BOO) and Build/Own/Operate/Transfer (BOOT).

GE—A Global Leader in Desalination

Founded in 1948, GE has over 50 years of experience in the design, installation, operation and maintenance of membrane-based water treatment systems. GE is the world leader in membrane-based water desalination, having built more desalination plants than any other company in the world.

Tapping the world's largest reservoir—the ocean—is one of GE's core areas of expertise. GE designed, financed, and constructed the first large-scale seawater reverse osmosis (SWRO) facility in the US for the City of Santa Barbara and continues to operate the 1992 installation at Diablo Canyon. GE is a fully integrated company that can deliver a wide range of service options:

Site Selection	Process Design
Design	Construction
Project Development	Performance Testing
Procurement	Installation and Commissioning
Project Management	Long Term Operation and Maintenance
Financing	Environmental and Regulatory Permitting



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Seawater References (partial list)

Project	Location	Capacity m ³ /day
Trinidad SWRO Plant <i>Operational 2002</i>	Pt. Lisas Industrial Estate, Trinidad	110,000
City of Santa Barbara <i>Operational 1992 (presently on standby)</i>	California, USA	25,000
Aqualectra <i>Operational 1996 Expansions 2000, 2002</i>	Curaçao, W.I.	17,000
Electricia Maspalomas (ELMASA) <i>Operational 1988 Expansions 1993, 1995</i>	Gran Canaria, Spain	24,000
Gov't of the UAE Floating Mobile Desalination Plant <i>Operational 2002</i>	United Arab Emirates	4,000
Diablo Canyon Nuclear Station <i>Operational 1992</i>	California, USA	2,500

Trinidad

In early 2002, the Point Lisas Industrial Park Desalination Facility was successfully started up. This facility is the largest seawater reverse osmosis system in the Western Hemisphere. The 110,000 m³/day capacity plant is located on the western shore of Trinidad in the southern Caribbean, only 10 miles from the Venezuelan coast. The commissioning of the plant was the culmination of nearly four years of planning by the Water and Sewerage Authority of Trinidad and Tobago (WASA) to secure both a low cost water for the general public, and a high quality water for the Point Lisas Industrial site.

This groundbreaking facility couples proven pretreatment technology with cutting edge desalination design to provide reliable and affordable water under the Water Authority's 23-year take-or-pay contract.

Consistent with a BOOT contract structure, GE (through the heritage business Ionics) was responsible for securing all permits and financing, as well as acting as the turnkey EPC Contractor. The desalination facility is being operated and maintained by Desalcott, a project company in which GE has a 40% equity interest.

Attention to environmental, health, and safety issues is an integral part of the way we do business. The Trinidad desalination facility was

constructed with over three million work-hours of labor without a lost-time accident.

Curaçao

In 1996, GE contracted with Aqualectra, the municipal supplier of potable water and electricity on this Caribbean island, to upgrade and expand their desalination facilities. Since then, GE has expanded the system twice, with the third stage successfully commissioned in November of 2002. Total installed capacity exceeds 17,000 m³/day.

By building the facility in stages, Aqualectra was able to phase out the aging evaporative processes as they neared the end of their life cycle.

Gran Canaria, Spain

GE's unique partnership with the Spanish island of Gran Canaria began over ten years ago when a 11,400 m³/day SWRO system was installed for the city of Maspalomas. The facility is now producing 24,000 m³/day and GE is constantly expanding and improving upon the design of the system under a 15-year BOO contract.



Gran Canaria, Spain