



Water Desalination Plant



THE SITUATION: Italian multinational oil and gas company headquartered in Rome contributed towards a social development project as a part of their customer commitment. The project required a water desalination plant to provide potable water to a specialist hospital in Libya.

LOCATION: Libya

PURCHASER: Oil and Gas

END USER: Hospital

THE CHALLENGE: Our customer required a water treatment solution for a hospital with a deteriorating utility system. They were looking for a continuous potable and reliable water source to replace the interrupted potable water provided by the national network.

THE SOLUTION: CECO Peerless provided a containerized water desalination plant to reduce the beach well water salinity to the desired level. CECO selected seawater reverse osmosis membrane technology in addition to remineralization chemicals to adjust RO Permeate water pH level.

The total package included:

- Multimedia & Micron Filtration
- Chemical Dosing Stations
- Reverse Osmosis Plant
- Remineralization



THE RESULTS:

- a. Durable potable water source
- b. Availability of potable water source

ENVIRONMENTAL BENEFITS:

- a. CECO Peerless used reverse osmosis technology which is one of the greenest solutions to treat contaminated water.
- b. SWRO brine water was routed to the sea without causing any negative environmental impact.

"CECO Peerless optimized the design of the potable water package using reverse osmosis simulation software before construction. CECO selected Seawater membrane to achieve the required potable water quality."

CECO
ENVIRONMENTAL

