



Making Desalination Affordable

BIG BREAKTHROUGH TECHNOLOGY REDUCING ENERGY AND OVERALL COSTS



North Africa Regional SWRO Desalination Project

The Industry Standard Solution

The efficiency of a plant's energy recovery technology is critical to both winning big SWRO projects and achieving maximum plant profitability. Leading industry firms, including GE Infrastructure, Water & Process Technologies, Suez Degremont and Aqua Engineering, have selected ERI's PX-220 modular technology because it has proven to be the most efficient energy recovery solution commercially available today. In addition, at the core of the PX device is a non-corrosive highly engineered ceramic rotor that requires no periodic maintenance. Furthermore, the PX technology energy recovery solution has a proven, successful operating track record – running at over 95% efficiency in 10,000 m³/day lines globally. These projects include the longest running trains operating with isobaric energy recovery devices for over 30 months.

Energy Recovery, Inc. (ERI), has built a team that has developed energy efficient recovery products and technology, specifically the ERI Pressure Exchanger™ (PX) device, that are among the enabling technologies driving the rapid growth in desalination, and are helping to make desalination affordable world-wide.

Please contact ERI today at sales@energy-recovery.com to learn more about how PX technology can help you make money.

In 2005, ERI's Pressure Exchanger™ Technology (PX) was selected as the energy recovery solution for one of the largest membrane desalination plants in Northern Africa.

Reducing energy and overall costs, the build-own-operate project will lessen water scarcity issues, providing an adequate portion of the area's desperately needed drinking water.

ERI was chosen for this project based on the OEM's direct operating experience with PX Technology, as well as its experience in operating and installing PX units in projects around the world. The decision was also supported by the fact that ERI PX-220 modular technology, the most efficient seawater reverse osmosis energy recovery device commercially available today, is a proven, successful, energy saving solution in large projects located in Cyprus, United Arab Emirates, Dutch Antilles and other countries.

ERI PX technology has rapidly become the desalination industry standard energy recovery solution and is considered by industry engineers to be the simplest and most advanced energy recovery option. For this reason, PX technology has been specified in the great majority of all SWRO projects awarded or under negotiation over the last 18 months.

Project Facts

- **PLANT: GREATER THAN 150,000 m³/day**
- **TRAINS: LARGEST IN THE WORLD - OVER 25,000 m³/day**
- **95% ENERGY RECOVERY EFFICIENCY**
- **MODULAR DESIGN VERSATILITY WITH MULTIPLE PX's PER TRAIN**