



# Hadera - 127 million m<sup>3</sup>/year

## *The World's Largest SWRO Desalination Plant*

### Overview

- Capacity:** 127M m<sup>3</sup>/year
- Technology:** RO (Reverse Osmosis)
- Project Type:** BOT (Build-Operate-Transfer)
- Water Price:** \$0.57 per m<sup>3</sup>
- Location:** Orot Rabin Power Station, Hadera, Israel
- Commission Date:** 2009
- Footprint:** 1,000m (length) x 50-150m (width)

### Differentiating Features

- SIZE:** the world's largest operating SWRO plant to date.
- COST LEADERSHIP:** sets a new benchmark for desalinated water cost.
- TECHNOLOGY LEADERSHIP:** use of IDE's proprietary technology and know-how have minimized energy consumption and increased efficiency.
- GLOBAL RECOGNITION:** recognized by the global industry as one of the world's leading desalination plants.
- CUSTOMIZED APPROACH:** every element of the plant was customized to maximize performance and minimize costs in the local environment.
- FINANCE:** project financed by a prestigious consortium of international banks (EIB, Credit Agricole and BES) marking the first-ever large scale infrastructure project in Israel to receive such support. Awarded the Euromoney 2007 prize for major international finance.



## Success Story

In May 2010, IDE completed the Hadera plant, the world's largest operating SWRO desalination facility, thereby confirming its clear leadership of the mega-sized desalination market.

The completion of the Hadera plant was a milestone event for the desalination industry. To date it is the world's largest operating SWRO mega-size desalination plant - as the natural continuation of IDE's Ashkelon plant, which, after completion of the Hadera plant, became the world's second largest SWRO plant. At the order of the Israeli government, the Hadera plant was expanded from 100M m<sup>3</sup>/year to 127M m<sup>3</sup>/year.

### Cutting Edge Technologies Drive Down the Price of Water

IDE's design for the Hadera plant utilizes proprietary 3-Center (pumping center, membrane center and energy recovery center), Cascade Boron Treatment and other technologies to decrease energy requirements and increase overall efficiency. These technologies have enabled Hadera to achieve one of the lowest-ever costs for high-quality desalinated water.

### Leadership in Project Financing

The Hadera project demonstrates IDE's leadership in the area of project financing. To fund the \$425 million undertaking, IDE assembled a consortium of international financial institutions (including an EIB bank), the first time in Israel's history that such a large-scale project was financed by non-domestic banks. In recognition of the scale of this accomplishment, the project was awarded "Euromoney's Project Finance Deal of the Year" for 2007.



### A Trusted Partner

The success of the Hadera joint venture (through the project company - H2ID) and IDE's numerous other desalination joint ventures demonstrate IDE's reliability as a trusted source of technology, project management, engineering and construction know-how and financial capabilities.

## About Us

IDE Technologies is a world leading desalination company. Since 1965, we have built 400 desalination plants throughout the world with a cumulative capacity of over 2,000,000 m<sup>3</sup>/day. Both our thermal distillation and SWRO desalination technologies are recognized as the most advanced in the world. IDE is jointly owned by two of Israel's largest industrial enterprises: ICL Group (50%), one of the world's leading fertilizer and specialty chemicals companies, and Delek (50%), the leading energy & infrastructure group based out of Israel.