YOUR PARTNERS IN MEMBRANE DESALINATION

REVERSE OSMOSIS (RO)

Proven Expertise | Leading Technology | Lowest Cost

www.ide-tech.com

400 plants. 40 countries. 4 decades.
IDE understands that what really counts is developing plants that reliably and consistently hit performance targets and delivering on the promises we make. To achieve this, we work in close partnership with our customers to deliver success and growth.

**Leading the RO market**

- **Flexibility** - IDE provides small to large scale, as well as modular desalination solutions
- **Capacity leadership** - Having built most of the world’s largest SWRO and some of the largest MED plants, IDE leads the industry in maximizing throughput
- **Proven project management track record** - Close to 50 years of desalination success have proven IDE’s ability to deliver complex projects on time, within budget and above specifications

Through ongoing development of best-in-class technologies and working together with its partners, IDE has achieved a continuous increase in the desalination capacities of large-scale plants while dramatically reducing desalinated water costs on long-term BOT contracts.

**Lowest lifetime cost**

IDE’s plants deliver the industry’s lowest water costs over the lifetime of a plant, driven by:

- **Customized pretreatment systems** - assure maximum RO system efficiency and lifespan
- **Optimized pressure center design** - uses extremely efficient high-pressure pumps and process design to increase operational flexibility and plant availability, lowering energy consumption and reducing costs
- **The most advanced membrane selections** - increasing efficiency while minimizing investment
Breakthrough financing

IDE has a proven track record of providing tailor-made finance packages that help customers transform ambitious dreams into reality – all within accelerated deadlines and strict budgetary frameworks.

With the Sorek, Hadera and Ashkelon plants in Israel, IDE optimized BOT financial models that enabled the lowest ever costs of desalinated water. The Carlsbad Desalination project in California, undertaken with key partners, is a blueprint for the financing of large-scale desalination projects across North America.

Cutting-edge technology

IDE has a long track record of technological breakthroughs. These are some of the latest:

- **IDE PROGREEN™** - a unique, eco-friendly, modular RO solution, beginning with capacities as low as 500 m³/day. A ‘plug & play’ highly energy-efficient desalination ‘plant in a box’, IDE PROGREEN™ produces high quality water without using chemicals for pretreatment or desalination.

- **Direct Osmosis Cleaning (DOC)** - allows a patented, chemical-free cleaning of membranes without stopping the high pressure pump or interrupting the desalination process itself.

- **16” Vertical Membranes** - deliver high efficiency while reducing the plant’s footprint and related construction costs.

- **Pressure Centre Design** - allows reduced energy consumption, increased system availability and better reliability due to the efficiency of large high-pressure pumps and energy recovery devices.

- **Boron Removal System** - a patented process that removes boron ions to concentrations below 0.3ppm, thus adjusting the quality of water for agricultural needs, meeting customer requirements.
About IDE

A world leader in water treatment solutions, IDE specializes in the development, engineering, construction and operation of enhanced desalination and industrial water treatment plants.

IDE leads the water industry with some of the world’s most advanced thermal and membrane desalination plants. It has an especially well-proven track record in large-scale desalination, including some of the largest plants worldwide, (e.g. in China, India, US, Australia and Israel). IDE also provides modular solutions that allow for growth and IDE PROGREEN™, a chemical-free reverse osmosis ‘plant in a box’. In addition IDE has proven experience in ground-breaking industrial water treatment plants.

Working in partnership with a wide range of customers – municipalities, oil & gas, mining, refineries and power stations – on all aspects of water projects, IDE delivers approximately 3 million m³/day of high quality water worldwide.

IDE listens first to create the best solutions for your needs. We then bring technological leadership, proven reliability and consistent delivery to all our customers. Our highly experienced and dedicated team knows that strong partnerships lead to success and growth.

IDE has teams in the US, China, India and Chile, as well as the Israel head office, enabling full customer partnership anywhere in the world.

IDE is jointly owned by the Delek Group (50%), a leading international energy and infrastructure group, and Alfa Partners (50%), a private strategic water fund controlled by Avshalom Felber, IDE Executive Chairman, and Amir Lang, former EVP of the Delek Group.