YOUR PARTNERS IN
REVERSE OSMOSIS
DESALINATION (RO)

Proven Expertise | Leading Technology | Lowest Cost

IDE
Technologies
Your
Water
Partners
Delivering Excellence Through Partnership

www.ide-tech.com
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, increase 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 facilities, industrial water treatment and water reuse plants. Over 5 decades, IDE has installed more than 400 plants of various types and capacities, in over 40 countries worldwide.

Recognized for developing some of the most advanced thermal and membrane technology, IDE has designed, built and currently operates some of the world’s largest desalination facilities, (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 – oil & gas, mining, refineries, power stations and municipalities – on all aspects of water projects, IDE delivers over 3 million m³/day of high quality water worldwide.

We listen first so we can create the best solutions for your needs. We then bring technological leadership, proven reliability and consistent delivery to all our projects. Our highly experienced and dedicated team builds strong partnerships that lead to success and growth.

IDE has teams in the US, Canada, China, India, Australia and Chile, as well as our headquarters in Israel, enabling full client partnership all over the globe.

IDE is jointly owned by two of Israel’s largest industrial enterprise groups: ICL - one of the world’s leading fertilizer and specialty chemical companies, and Delek - a leading energy and infrastructure group.