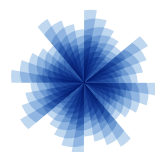




Eco-Reuse Safer, Better Water

Cost effective
Eco-friendly



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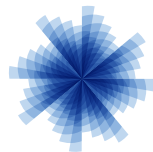


IDE Proven Experience - 50 Years of Delivering Water Treatment Solutions in Over 40 Countries

IDE Technologies is a world leader in advanced water treatment solutions, specializing in the development, engineering, construction and operation of seawater and brackish water desalination facilities, industrial water treatment plants and advanced municipal wastewater reuse facilities. IDE's leading water treatment solutions includes IDE PROGREEN™, a chemical free reverse osmosis 'plant in a box'. For over 50 years of operation, IDE has installed over 400 water treatment plants, in over 40 countries worldwide.

IDE proudly works in partnership with a range of public customers- state governments, water districts and municipal utilities, as well as the industrial sector upstream and downstream oil & gas, mining, refineries and power.

IDE has a global operation with offices in the US, Canada, China, India, Australia and Chile, as well as the headquarters in Israel, enable full partnership all over the globe.



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The Story of Central Coast Blue - Advanced Water Purification Demo Facility

Central Coast Blue (CCB) is a regional recycled water project that is developing a sustainable water supply to protect the Santa Maria Groundwater Basin. The recent drought led to an implementation of the Regional Groundwater Sustainability Project and highlighted the need for a sustainable, drought-proof reliable source of water supply for future extended droughts.

In April 2017, IDE offered CCB a unique opportunity for partnership to demonstrate a new Eco-Reuse process able to provide a safer purifying process, more eco-friendly and cost effective. The process has been successfully running since early 2018, demonstrating production of safer and higher quality water.

Eco-Friendly, Cost Effective Process

IDE's Eco-Reuse process uses a safe preventive maintenance approach that maintains the system constantly clean, eliminating the need for chloramine dosage and increasing the intervals between CIP. This increases the system efficiency, as well as minimizes its environmental impact.



**Safer product -
no NDMA formation**



**Lower
chemical
consumption**



**High
availability**



**Lower energy
consumption**



CAPEX & OPEX Savings

Implementing 2 Core Technology Processes

1. Direct Osmosis High Salinity (DOHS)

Injection of a short pulse of concentrated salt causes bacteria dehydration

Backwash of the membrane surface by forward osmosis

Rapid increase in cross flow velocity

2. Conservation – periodic flushing of the membrane with permeate to dissolve scaling



Eco-Reuse Safer, Eco-Friendly Water Reuse Technology

Addressing the world growing water demand by reusing municipal wastewater, IDE Eco-Reuse offers safer process for producing high quality potable water for either indirect potable reuse (IPR - aquifer recharge, irrigation or industrial supply) or direct potable reuse (DPR).

IDE Eco-Reuse process implementation guarantees safer and cost effective reuse process by implementing IDE's unique proprietary technologies.

IDE Eco-Reuse process can be implemented in new reuse facilities, or for retrofitting existing water reuse facilities to improve process sustainability and produce safer product water.

IDE's Eco-Reuse Water Purifying Process

