Like many other places, California has been severely impacted by drought. As the state continues to face a shortage of groundwater, advanced water reuse is proving a sustainable alternative for a clean, efficient and safe water source. IDE Eco-Reuse technology is being used in a new wastewater reuse demo facility in California - the Central Coast Blue Advanced Water Purification Demo Facility in the City of Pismo Beach. The facility started operation in 2018, with a capacity of 30 GPM, and will allow IDE to demonstrate and test its proprietary Eco-Reuse process. Results to date show stable performance, with high RO specific flux and stable differential pressure, indicating that there is no membrane fouling.

The full-scale advanced treatment facility is currently in the design phase. While facility completion is still a few years out, anticipated 2020, Central Coast Blue Partners are currently demoing the treatment technology approaches to identify the optimal solution to achieve project goals. The Central Coast Blue Demonstration Facility has been made possible by collaborative public/private partnerships with water treatment technology leaders. The Central Coast Blue supporting communities have this unique opportunity to achieve the highest levels of performance, with reduced energy costs and limited chemical use, while testing the treatment flow and options at the Demonstration Facility over the next year. This testing phase promotes future energy savings, minimizes use of chemicals and ensures effective performance of the future full-scale facility in the future. The Demonstration Facility is open for tours, and also provides the community an opportunity to see firsthand how the process works.

**Central Coast Blue -**

**Advanced Water Purification Demo Facility**

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**Highlights of the Demo Facility**

- **Eco-Reuse process designed to optimize performance while minimizing costs**
- **Proprietary process, that eliminates chloramine dosing, thus avoiding the formation of N-Nitrosodimethylamine (NDMA) – an organic contaminant and suspected carcinogen**
- **Proprietary DOHS process maintains membranes constantly clean without chemicals and without stopping the RO train**
- **Environmentally friendly due to less use of chemicals**
- **Produced water has passed all regulatory tests for drinking water**
IDE's Eco-Reuse Process

The classic water reuse process is known as FAT (Fully Advanced Treatment). IDE offers advanced water reuse systems that produce water that is safer than that produced in the currently accepted treatment trains, and implements proprietary means to operate systems that are more cost effective.

In keeping with increasing environmental awareness, IDE believes that a process with minimal impact on the environment is a better, safer and more stable process. The Eco-Reuse process operates without any chloramine dosage. Instead it uses a proprietary chemical free cleaning method, and conservation mechanisms to control fouling formation.

Eco-Reuse process advantages:

- A safer product - no NDMA formation
- Lower chemical consumption - no chloramines
- High availability
- Lower energy consumption
- CAPEX and OPEX Savings
- Reduced carbon footprint - energy efficient process

IDE - Over 50 Years of Experience

IDE is a world leader in water treatment solutions. We specialize in the development, engineering, construction and operation of some of the world’s largest and most advanced thermal and membrane desalination, industrial and reuse water treatment plants. IDE offers a new, cost-effective Eco-Reuse process that produces high quality and safe potable water.

IDE partners with a wide range of customers – municipalities, oil & gas, mining, refineries and power stations – on all aspects of water projects, and delivers approximately 800 MGD of high quality water worldwide.

IDE brings 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.