Customer Success Story

Location: Mexico

AMI system purifies water for company in energy sector

ESCOs that face water quality and scarcity challenges need energy and water efficient strategies.

Challenge

A leading Energy Service Company (ESCO) specializes in implementation of energy efficiency projects in Mexico and Latin America.

Their projects include optimizing energy consumption and reducing costs for municipalities.

The company needed a seawater desalination system designed to fit inside a building with limited footprint space, with a stringent timeline for completion.

The system had to be compact enough to fit within the designated space. The urgency of the project demanded efficient design and construction. Feedwater exceeds 20,000 ppm.

Applied Membranes was selected for the project.

Solution

Applied Membranes custom-engineered, built, and commissioned a **30 GPM (7 m3/h)** Seawater Reverse Osmosis (SWRO) desalination system.

Applied Membranes worked closely with the client to understand their requirements and constraints.

The AMI SWRO system is fully skid-mounted and custom designed to fit inside the available footprint.

AMI system incorporates advanced technologies to convert seawater into non-potable water for energy application and potable water for human consumption.

Key Features:

- Antiscalant
- Media filter
- Carbon filter
- Clean-in-place skid
- Chemical injection system
- Programmable Logic Controller

Results

Custom engineering: Applied Membranes developed a customized seawater desalination system that meets the client's space limitations and provides optimal performance and energy efficiency.

Rapid deployment: AMI completed rigorous testing and quality checks prior to shipment and shipped the system within the required timelines.

Energy efficiency: The desalination system provided a reliable source of potable water and incorporated The client achieved additional savings in electricity and water consumption. energy efficiency technologies.

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