



Clearway Community Energy Models Sustainability with DuPont's Closed Circuit Reverse Osmosis (CCRO) Technology

The Challenge

For over a century, the Clearway Community Energy Plant in San Francisco has provided steam for the city's downtown area including 180 buildings nearby. The main need in this application was to ease pressure on municipal water supplies in order to help alleviate the water crisis in the city and across the wider state. Given the plant's tight site constraints within a high-profile downtown location, it was imperative that the proposed solution utilize the smallest footprint.

The Solution

Now, the plant has implemented DesaliTec™ Closed Circuit Reverse Osmosis (CCRO) technology to repurpose groundwater that was gathering at the nearby Powell Street BART station, reducing the volume of water demanded from municipal supplies. This solution, which utilizes containerized systems to reduce footprint, resulted in a savings of 30 million gallons of drinking water per year.

The Benefit

Since the CCRO system is versatile enough to handle a variety of feed water sources, flexibility is one of its major benefits. The recovery setting can be automatically adjusted depending upon the incoming water, ensuring peak efficiency is maintained in real time. Thus far, the system consistently demonstrates excellence in operating performance, reliability and durability.

Fast Facts

Location:

San Francisco, California United States

Technology:

DuPont™ DesaliTec™ Closed Circuit Reverse Osmosis

Application:

Process water

End-user:

Clearway Community Energy

Total # of elements:

160

Plant capacity:

1 MGD

Start-up date:

September 2018

Feed water quality:

Groundwater and Stormwater

Product water quality:

<30 uS/cm

Temperature range:

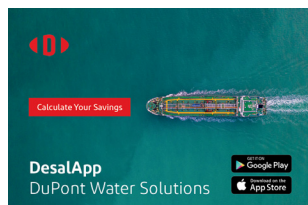
5-30 C

Pretreatment:

Microfiltration (MF)

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Form No. 45-D03903-en CDP, Rev. 0
January 2022