

CASE STUDY

Seawater Desalination for Power Plant Process Water Use



**Background**

The Vinh Tan 2 thermal power plant (a 1,244 MW coal-fired plant producing approximately 7.5B kWh per year) is located in the Bình Thuận province along the eastern coast of Vietnam, next to the South China Sea.

Its desalination system, one of the largest in Vietnam, was constructed along with the power plant to provide desalinated (RO) water for the plant's process needs.

Following years of operation, the previous UF membranes needed to be replaced. Consequently, after a thorough selection process, EuroTec UF membranes were chosen as a viable replacement.

**Solution**

EuroTec UF membranes are used as an effective pre-treatment to the SWRO system, providing high quality RO feed water that reduces fouling as well the frequency of maintenance and prolongs the RO membranes' lifetime.

Plant Location: Vietnam  
Water Source: Seawater  
Application: Process Water  
Operational Start Date: 2014  
Replacement to EuroTec UF: 2019  
(Online 2020)  
UF Capacity: 24,000 m<sup>3</sup>/d  
ETUF Module: ETUF-9060FT  
No. of Modules: 320

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