

CASE STUDY

Surface Water Treatment for Oil Refinery Processing Plant



Background

An oil refinery plant located in Zhanazhol, Kazakhstan that treating the nearby river water source using ultrafiltration (UF) membranes as a pre-treatment to the brackish water RO system for the production water usage that has been in operation for years and the existing ultrafiltration membranes life are due for replacement.

After a rigorous technical clarification and carefully evaluation, EuroTec ultrafiltration (UF) membranes have successfully been selected to replace the previous ultrafiltration membranes.

Solution

EuroTec ultrafiltration (UF) membranes assured a high-quality purified water for its downstream process (BWRO) system acting as a final barrier with effective removal of suspended solids and microorganisms that reduces fouling as well as the frequency of maintenance and prolongs the RO membranes' lifetime.

Plant Location: Kazakhstan
Water Source: Surface Water
Application: Process Water for Industrial Use
UF Replacement Date: 2021
UF Capacity: 1,920 m³/d
ETUF Module: ETUF-9060R
No. of Modules: 36

EUROTEC WATER PTE LTD

57 Ubi Ave 1, #07-11 Ubi Centre, Singapore 408936
Tel: +65 6721 9707 | Email: sales@eurotec.sg | Website: www.eurotec.sg

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