

CASE STUDY

Surface Water Filtration for Cement Plant Demineralized Process Water Use



Background

The Holcim Lafarge Cement Factory in Russia requires demineralized water as part of its manufacturing process. The source of the water is a nearby river. From there the factory draws about 1,300 m³/d of water for its purposes. The overall treatment involves: coagulation, sedimentation/ flocculation, UF, BWRO as well as ion exchange.

Solution

The EuroTec UF membranes are used in this plant since 2019 as an ideal replacement for the previous UF membrane after assessment that the EuroTec UF membranes would offer superior performance and durability without any need to modify on the existing UF skid and equipment. The main role of the UF in the process is for the removal of suspended solids and microorganisms present in the river water to provide the downstream process with consistently low turbidity (≤ 0.1 NTU) product water.

Plant Location: Russia

Water Source: Surface Water

Application: Demineralized Process Water

Operational Start Date: 2010

Replacement to EuroTec UF: 2019

UF Capacity: 1,200 m³/d

ETUF Module: ETUF-9060F

No. of Modules: 36

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