

10.03.21

Complex system solution installed in Russia despite pandemic

The aim is for wastewater from the animal rendering plant in Russia, which is part of an internationally operating service provider and manufacturer of products for the agricultural and food industries, to be treated to comply with the required discharge parameters. The site mainly produces pre-treated process wastewater from cleaning processes and condensates from the recycling plant. These flows are characterised above all by their high organic load (COD up to 17,000 mg/l and total nitrogen up to 2,500 mg/l).

A proven concept, which has already been used at the customer in Europe, consists of a Biomar® OMB aerobic wastewater treatment system with intermittent denitrification/nitrification followed by sludge separation in a membrane bioreactor. Large tanks were designed due to the high organic loads and the high demands on the effluent parameters (which are comparable with European direct discharge limits). Both bioreactors have a net volume of approximately 5,800 m³ each, which leads to a wastewater retention time in these tanks of more than two weeks.

Despite the Covid lockdown, it was possible to lead the project to success with the help of the Russian EnviroChemie subsidiary. German colleagues assisted and supported the Russian team on site via remote access during commissioning.

EnviroChemie's scope of services included the mechanical and electrical equipment for the wastewater treatment system.

Further projects have since been acquired at the customer, including a Flomar® Flotation system in the EnviModul for another site in Russia and a design contract for a complete wastewater treatment system in Poland which is to be implemented in 2021.

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