

Press release

Lund, Sweden — April 25, 2023

Water Technologies

Veolia to deliver world's biggest MBBR system to Käppala wastewater treatment plant in Sweden



Veolia Water Technologies subsidiary [AnoxKaldnes](#), the world leader in moving bed biofilm reactor (MBBR) based solutions, will supply its renowned space saving and capacity increasing solution to support the upgrade of Käppalaverket (Käppala wastewater treatment plant) in Lidingö, Sweden, owned by Käppalaförbundet (Käppala Association). The plant treats wastewater from more than half a million people in 11 member municipalities north and east of Stockholm.

AnoxKaldnes has signed the contract with NCC, one of the leading construction companies in the Nordic Region. NCC will utilize their complex project expertise for the execution of the construction and implementation of the new treatment works.

The Käppala wastewater treatment plant (WWTP) is facing an increased load from affiliated municipalities combined with stricter emission requirements. The Käppala Association therefore plans to expand the capacity of the plant to cope with an incoming load corresponding to 900,000 population equivalent (p.e.) in 2050 and meet the new emission permit that will enter into force in 2026.

When completed, the Käppala WWTP will be the largest MBBR system in the world. Each line of the existing system is approximately 18,000 m³ in volume and will be divided into nine individual zones in order to meet the challenging new requirements. Thanks to the efficiency of [AnoxKaldnes™ MBBR systems](#) the five MBBR lines will be treating 80% of the incoming pollutant load and the flow.

The Käppala WWTP is built underground and the activated sludge lines are blasted from the bedrock meaning that the walls of each line are exposed raw bedrock. AnoxKaldnes was able to provide its patented AnoxK5X™ carrier which is proven to be ten times more durable than competing solutions. Logistics, MBBR carrier durability and expertise were three of the key reasons why AnoxKaldnes was selected to be the delivery partner for this project.

Jacob Bruus, CEO of AnoxKaldnes, shared: “To be part of a great team working on this huge scale project to improve the environment in our own country makes me extremely proud — this is a historical win for AnoxKaldnes.”

About AnoxKaldnes

AnoxKaldnes is a world-leading supplier of biological water purification solutions for industries and municipalities. Headquartered in Lund, Sweden, the company’s approach to wastewater treatment is based on understanding nature’s microorganisms and the formation of biofilms to optimize treatment. Latest developments include new technologies to remove drug residues found in wastewater as well as minimizing energy consumption in treatment plants to generate an energy surplus that can be reused or sold. AnoxKaldnes technology is found in more than 1,200 treatment plants worldwide. www.anoxkaldnes.com

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Veolia Group aims to become the benchmark company for ecological transformation. Present on five continents with nearly 220,000 employees, the Group designs and deploys useful, practical solutions for the management of water, waste and energy that are contributing to a radical turnaround of the current situation. Through its three complementary activities, Veolia helps to develop access to resources, to preserve available resources and to renew them. In 2022, the Veolia group provided 111 million inhabitants with drinking water and 97 million with sanitation, produced 44 terawatt hours and recovered 61 million tonnes of waste. Veolia Environnement (Paris Euronext: VIE) achieved consolidated revenue of 42.885 billion euros in 2022. www.veolia.com

Contacts

AnoxKaldnes

Brandy Nussbaum

Tel. +46 72 57 70 608

brandy.nussbaum@anoxkaldnes.com

www.anoxkaldnes.com

Veolia Water Technologies Media Relations

Manon Painchaud

Tel. +1 418 573 2735

manon.painchaud@veolia.com

www.veoliawatertechnologies.com