

Press release

13 June 2017

Scandlines applies APATEQ's innovative scrub water treatment system in Gedser, Denmark

Scandlines uses a brand new scrub water treatment system, produced by the Luxembourgish clean-tech company APATEQ. The treatment system MarinePaq cleans scrub water from the ferry's closed-loop exhaust gas cleaner (scrubber). It produces an effluent according to the most stringent environmental legislation and achieves substantial savings on operation costs and flexibility gains for the fleet.

Scandlines' two recently launched ferries for the Rostock-Gedser route are driven by Scandlines' hybrid propulsion system which combines traditional fuel with electric battery power. The hybrid propulsion system optimises consumption by adjusting the engine output. Together with other optimisation initiatives, the fuel consumption has been reduced to almost one-third per crossing per car compared to the former ferries operating the route.

The two new ferries have also both been fitted with an exhaust gas cleaner, a so-called closed-loop scrubber. In short, a mixture of water and sodium carbonate in powder form, which is pumped aboard the ferries, scrubs the exhaust gas. Contaminated water from the scrubber is channelled to an on board separator for purification. When the solution cannot absorb more waste products, the scrub water is pumped into the shore based scrub water treatment system MarinePaq from the Luxembourgish clean-tech company APATEQ.

The system has been installed in two containers stacked one on top of the other at the harbour in Gedser. In a five-step process, the scrub water treatment system cleans the scrub water so effectively, that the cleaned water can be discharged into the harbour according to the most stringent environmental legislation, being substantially beneficial for the environment.

By operating the MarinePaq on shore, Scandlines may save expensive water disposal costs for hauling the scrub water to the nearest industrial wastewater treatment facility. The shipping company is also not dependent on the availability of external water disposal providers, thereby saving time and gaining flexibility.

The onshore treatment of the MarinePaq also achieves a much higher quality of purification than any other existing scrub water treatment system, such as the ones offered for on board applications. Heavy metals, COD, nitrite, sulphites and nitrates are being reduced to much lower levels than any other solution currently implemented. As a result, Scandlines may count on an infrastructure that is capable of facing toughening and constantly evolving regulations.



Photo (originator: APATEQ): Installation of the MarinePaq facility for Scandlines at the port of Gedser (Denmark).

Scandlines took over the facility 31 May 2017.

About Scandlines

Scandlines stands as a symbol of a historical and close cooperation between Denmark, Germany and Sweden since 1872. Under the names Scandlines and Scandlines Helsingør-Helsingborg three short ferry routes are marketed with high capacity and frequency and with a green vision for the future.

The core business is to provide an efficient and reliable transport service for both passengers and freight customers. The main focus for all activities in Scandlines is to create value for our customers on board the ferries as well as in the shops of Scandlines.

With more than 90,000 departures on 12 ferries, in 2016 Scandlines transported 15 million passengers, 3.2 million cars, 1 million freight units and 64,000 busses on the routes Puttgarden-Rødby, Rostock-Gedser and Helsingør-Helsingborg.

Read more about Scandlines at www.scandlines.com

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High-resolution **press photos** can be downloaded [here](#).

About APATEQ

APATEQ – PWT S.A. develops and manufactures turnkey, custom designed flowback and produced water treatment systems for oil and gas field operators, compact wastewater treatment plants for demanding applications and full solution systems for the treatment of industrial wastewater. With decades of experience in the water and wastewater business and global industrial product manufacturing and commercialization, APATEQ's corporate and technical team is comprised of dedicated experts whose focused goal is client satisfaction, environmental protection and water conservation. APATEQ is, among others, winner of the Frost & Sullivan Best Practices Award, the Red Herring Global 100 Award and has been selected Technology Pioneer by the World Economic Forum.

Read more about APATEQ at www.apateq.com

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