



PRESS RELEASE

5.5.2017

Aboa Mare and Norsepower start cooperation regarding the installation of Rotor Sails aboard Viking Line's ship Viking Grace

Aboa Mare's state of the art simulation technology is used to simulate the Norsepower Rotor Sail Solution for the first time on a ship of Viking Grace's size. Before the actual Rotor Sail Solution is installed onboard Viking Grace, scientific analyses and simulator studies are carried out on how the Rotor Sail is effecting the operation of the vessel in the most critical parts of the Turku and Stockholm archipelago.

In the first stage, the simulation of the Norsepower Rotor Sail Solution effect on Viking Grace is going to be carried out on the Aboa Mare R&D simulator. The simulations are focusing on the Turku – Mariehamn – Stockholm route with its challenging archipelago. Our objective is to verify how the Rotor Sail Solution is effecting the operation of Viking Grace. Focus areas are safety, passenger comfort and maneuverability.

"We are especially looking at some critical points of the route and measuring what effects the added Rotor Sail Solution will impose on the vessel."

Norsepower CEO, Tuomas Riski

Second stage is planned to be the modelling of the Norsepower Rotor Sail to the actual Viking Grace ship model in the Aboa Mare Navigation simulator. This would enable also training for the officers on Viking Grace in a simulated environment including the effects of the Rotor Sail. A natural continuation would then be to also create models of the future new buildings for the Viking Line fleet. Discussions on this matter have been already started by Aboa Mare, Norsepower and Viking Line. A huge advantage here is that we test and analyze scenarios with a newbuilding to come and avoid any surprises when a new ship is entering into service.

Groundbreaking methodology and testing sequence

The methodology and the testing sequence, as a whole, is groundbreaking in the maritime simulation world. Simulation technology has never been used in this way and in these conditions before. This is the first time a Rotor Sail is being simulated on a ship of this size in these very challenging conditions.

"At Aboa Mare we are very enthusiastic about this opportunity to utilize our knowledge and technology in new ways. Our aim is to be in the forefront of the development and use of simulation technology for training, research and development purposes. This is again a step forward."

Aboa Mare Simulator Manager Anton Westerlund

Norsepower Ltd is a Finnish clean technology and engineering company pioneering the generation of renewable wind energy for the global maritime industry. Norsepower is the leading provider of auxiliary wind propulsion systems for large ships. Aboa Mare Ltd is providing training, research and development services through state of the art simulators.



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Aboa Mare offers degree and continuing education for the maritime industry. The maritime education and training centre in Turku was founded in 1813. At Aboa Mare you can study for a sea captain's or marine engineer's degree as well as for a watchkeeping officer's or watchkeeping engineer's degree. Aboa Mare offers Bachelor and Master level education at Novia UAS and secondary education at Axxell vocational institute. In addition Aboa Mare offers continuing education for both professional seafarers and boaters. In the education and training, the top-notch simulators developed by Aboa Mare are utilised. Training for safe and environmentally sustainable seafaring is provided at the training centre. Apart from the training, the simulators are used for different R&D projects within the maritime industry. www.aboamare.fi