

Press release

19 August 2020

Ferry Operator & Passengers are Moved by the Wind

Passengers aboard the Scandlines ferry, the MV Copenhagen have been getting a little extra experience for their standard ticket price as people start to emerge from lockdown and start to stretch their legs and commence travelling again. The EU Green Deal aims to lower pollution and carbon levels across Europe and the experience of taking a ferry in part powered by the wind is something quite out of the ordinary, but hopefully not for much longer.

The end of May saw the key installation of a new Norsepower Rotor Sail on the MV Copenhagen, the Scandlines hybrid ferry operating on the Rostock-Gedser route between Germany and Denmark. The installation was undertaken as part of the EU funded Wind Assisted Ship Propulsion (WASP) project that was launched in late 2019 with the aim to install five wind assisted propulsion units on to a series of different vessels operating in the North Sea and Baltic Sea to test, validate and help facilitate the uptake of wind-assisted propulsion technologies. These systems are expected to deliver between 4 – 5% fuel savings - corresponding to the same amount of CO₂ – in average, and more than 20% in optimal wind conditions.

A couple of months of daily operations on the MV Copenhagen have been completed since this wind-assisted system was installed and initial impressions of the technology from the crew, the captain and the passengers are already in.

The necessary steel foundation (21 tons) for the Rotor Sail (42 tons) was put in place during an ordinary yard stay back in November 2019. The installation of the Norsepower supplied Rotor Sail itself, the 30 metre rotor was installed on the vessel during an overnight stay in the port of Rostock.

This is key as the senior captain of the MV Copenhagen Alan Bach explains: “We were able to complete almost everything within the limited time of just a few hours. This was key as we are operating on a 24/7 basis, every loss of service or revenue is naturally critical for ferry operations.”

Another key part of the WASP project is the monitoring and validation of the equipment and performance itself, the Scandlines COO Michael Guldmann Petersen spoke to this: “We're expecting 4-5% reduction in CO₂ emissions which is not an insignificant amount and if everything goes well, we are considering further installations in the future.” He continued, “We are very happy that the system is fully automated and we're expecting little in the way of technical problems, the last month of operations has been quite smooth and we see that continuing throughout the test period.”

Also the German environmental association NABU (Nature and Biodiversity Conservation Union), that has a long-term partnership with Scandlines focussing on the improvement of the companies' environmental footprint, is very satisfied with the steps taken: “This is great news for climate and environment. NABU is happy to see real change following the ambitious announcements made by Scandlines. Scandlines is driving forward the way to decarbonise shipping and pioneering green technologies” says Sönke Diesener, Transport Policy Officer at NABU headquarters in Berlin. What makes this installation particularly interesting and important for the region is that it is installed on a ferry, one of the few places that shipping connects or interfaces with the wider public, and it is at this nexus point that a whole different conversation takes place: What is this cylinder used for? How does it work? Why is it here?

Tuomas Riski, CEO, Norsepower, said: “Scandlines has a strong track record of investing in new clean technologies to reduce emissions across its fleet. The ability to harness the wind through Norsepower's Rotor Sail - alongside hydrodynamic hull optimisation, and hybrid electric propulsion system with a battery powered energy storage - makes the M/V Copenhagen one of the world's most energy-efficient ferries.”

Shipping for the most part is hidden away and an opportunity to showcase one of its most important technology developments in the drive to decarbonise is really important, especially with the IMO initial decarbonization strategy of at least 50% GHG reduction across the fleet by 2050 based on a 2008 baseline, the first global industry to set such a target. Wind propulsion technologies are a very visible statement from a shipping company about their commitment to decarbonise their vessels.

About Scandlines

Scandlines stands as a symbol of a historical and close cooperation between Denmark and Germany. Scandlines runs two ferry routes with high capacity and frequency as well as 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 our shops. With more than 41,500 departures on 8 ferries, in 2019 Scandlines transported 7.2 million passengers, 1.7 million cars and around 700,000 freight units on the routes Puttgarden-Rødby and Rostock-Gedser.

Read more about Scandlines at www.scandlines.com and about Scandlines' Green Agenda that goes hand in hand with the United Nations' Sustainable Development Goals (SDGs) at <https://www.scandlines.com/about-scandlines/greenagenda>

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About Wind Assisted Ship Propulsion (WASP) project

The WASP (Wind Assisted Ship Propulsion) project, funded by the Interreg North Sea Europe programme, part of the European Regional Development Fund (ERDF) to the tune of €5.4 million. The project brings together universities, wind-assisted technology providers with ship owners to research, trial and validate the operational performance of a selection of wind propulsion solutions thus enabling wind propulsion technology market penetration and contributing to a greener North Sea transport system through harvesting the regions abundant wind potential. This fully aligns with the wider programmes' objective of promoting the development and adoption of products, services and processes to accelerate the greening of the North Sea Region.

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About Norsepower

Norsepower Oy Ltd is a Finnish clean technology and engineering company pioneering modern auxiliary wind propulsion for the global maritime industry. Norsepower's Rotor Sail Solution is a proven, low-maintenance, easy to use, and reliable fuel saving technology, supporting the decarbonisation of the shipping industry.

Since its establishment in 2012, Norsepower has generated more than €20 million of funding and has now installed Rotor Sails onboard four vessels, including the latest installation on the Scandlines M/V Copenhagen. Each installation has made significant reductions to fuel costs and emissions, confirmed by independent verifiers such as ABB, NAPA and Lloyd's Register. Other



shipowners, charterers, and shipyards have been convinced of Rotor Sail technology's benefits and are taking steps to study the technical and economic feasibility of wind propulsion on their fleet based on these positive results.

For more information on the Norsepower Rotor Sail Solution, please visit www.norsepower.com

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