
Press release

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MAN Cryo to Design Hydrogen Supply for Net-Zero Norwegian Ferries

Torghatten to employ company's expertise within detail design for bunkering systems, hydrogen piping and vent masts for newbuild vessels

MAN Cryo has been contracted by Torghatten Nord A/S, the Norwegian ferry company, to work on a project encompassing the design and engineering of two hydrogen-powered newbuild RoPax ferries. The project stems from a Norwegian government initiative for major vessels operating on the challenging mainland-Lofoten Islands crossing to become emission-free.

Part of MAN Energy Solutions and a leading expert within engineering solutions for cryogenic equipment for the storage, distribution, and handling of gasses, MAN Cryo will provide the detail design for bunkering systems, hydrogen piping and vent masts for the vessels. Additionally, MAN Cryo will act as system integrator for the hydrogen process plant, coordinating with other major suppliers in the project.

Torghatten Nord A/S previously won the 'Bodø - Værøy - Røst - Moskenes' ferry tender in northern Norway. Two new vessels designed by The Norwegian Ship Design Company will be phased into the route with the hulls built by Cemre shipyard in Türkiye and towed to Myklebust shipyard in Norway for outfitting; all hydrogen equipment will also be installed in Norway. Operating on green, compressed hydrogen, both vessels are set for delivery to Torghatten Nord A/S in 2026.

Eirik Olsen, Operational Director Torghatten Nord AS, said: "We are very pleased to have signed this contract with MAN Cryo. By this contract, we have extended our cooperation from LNG to also include hydrogen."

Gjermund Johannessen, CEO The Norwegian Ship Design Company, said: "We have been working with MAN Cryo on several projects in the past, and we know it as a forward-thinking and solution-oriented company. We look forward to continuing our good collaboration with MAN Cryo and to bring their gas expertise onboard the prestigious hydrogen ferry projects for Torghatten Nord."

Henrik Malm, Managing Director MAN Energy Solutions Sweden, said: "This new order underscores MAN Energy Solutions' leadership within developing future-fuel systems for the maritime sector. With a strong focus on advanced engineering, tailored design and seamless integration capabilities, our specialist team at MAN Cryo is setting new standards in sustainable marine operations. In this way, we are contributing significantly to 'Moving Big Things to Zero,' testament to our vision for a cleaner, greener maritime future where innovation leads the way in reducing ecological footprints. Torghatten Nord is set to revolutionise ferry transportation with these vessels powered by green hydrogen, which will be a critical step towards achieving zero-emission operation."

About MAN Cryo

Based in Gothenburg, Sweden, MAN Cryo offers system design and engineering solutions for the storage, distribution and handling of liquefied gases and has a pioneering reputation within the marine sector. It supplied the world's first LNG fuel-gas system for the 'Glutra' ferry in Norway in 1999, while in 2013 it supplied the world's first LNG bunker vessel – the 'SeaGas' – with operations in Stockholm, Sweden. More recently, MAN Cryo has signed its first design contracts for methanol-supply systems and delivered the first liquid-hydrogen fuel-gas system to be installed below deck aboard a ship.

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Graphical rendering of the newbuilding RoPax (courtesy Norwegian Ship Design). The new ferries will be about 120 m long with capacity for 120 cars and 599 passengers. They will serve a close to 100 km open ocean crossing above the Arctic Circle that is considered Norway's most challenging ferry crossing

MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Addressing tomorrow's challenges within the marine, energy and industrial sectors, we improve efficiency and performance at a systemic level. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our after-sales brand, MAN PrimeServ, offers a vast network of service centres to our customers all over the world.