



Company Registration Number: 196300098Z

Sembcorp Marine Completes Fabrication of First of Three Zero-emission Battery-powered Ropax Ferries

The design and construction of zero-emission Ropax ferries – a proprietary design from Sembcorp Marine’s wholly-owned subsidiary LMG Marin – marks the Group’s entry into the Ropax niche market

The successful execution of this project broadens Sembcorp Marine’s proven capabilities in innovative and sustainable engineering solutions

Singapore, 15 March 2022 – Sembcorp Marine Ltd (the “**Company**”, together with its subsidiaries, the “**Group**”) has completed fabrication of the first of three identical battery-operated roll-on/roll-off passenger (“**Ropax**”) ferries for Norled AS (“**Norled**”), a Norwegian ferry operator.

The Group was awarded a contract by Norled to design and construct three identical battery-powered Ropax ferries, based on the proprietary design of LMG Marin AS (“**LMG Marin**”), a wholly-owned subsidiary of the Company.

The vessels’ design is optimised according to Norled operational requirements incorporating energy-efficient solutions throughout the ferries. These include quick-connection shore charging plugs; auto-mooring; auto-cross; efficient hull, propulsion and heat recovery systems; as well as minimised hotel and auxiliary loads. The vessels will operate normally on zero-emission, powered by lithium-ion batteries at a service speed of 10 knots. When required, they can run on combined battery-diesel hybrid backup modes. The batteries will be charged and recharged using green hydro-electric power.

The design of the 82.4-metre long multi-deck, double-ended ferries, each with a capacity for 300 passengers and crew, as well as 80 cars or a combination of up to 10 cars and 10 trailer trucks, also took into consideration passengers’ comfort and working conditions for the crew.

When launched into operation for Norled’s shortsea Hella-Vangsnes-Dragsvik connections in Norway, it is expected to fulfil Norled’s objective to contribute to emission reductions through the introduction of innovative new vessels equipped with zero-emission technology.

LMG Marin Managing Director Mr Torbjorn Bringedal said, “LMG Marin offers a wide range of designs and technologies for sustainable ship operations, including LNG, battery, hydrogen, ammonia and hybrid propulsion systems. We are very pleased to be able to use our proprietary design to support Norled’s green objectives with specific customisation for the vessels’ operating environments.”

Mr Tan Heng Jack, the Company's Head of Specialised Shipbuilding, said: "To serve efficiently as a ferry vessel, the design took into consideration the vessel's operational profile and schedule, as well as design imperatives of passenger safety and comfort, and conducive working conditions for ferry staff. The first of the three vessels will soon be part of Norled's service fleet in Norway."

Mr Wong Weng Sun, Sembcorp Marine President & CEO, said, "The demand for passenger ferries is anticipated to increase owing to a wide range of factors including the emerging trend of ferries as a viable alternative transport, development in marine fuel technologies, and inclination of consumers towards luxury marine travel."

Mr Wong added, "Sembcorp Marine, with its extensive track record and suite of proprietary designs for various types of ships and offshore engineering solutions, will continue to strategically position the Group strongly to support the maritime industry's transition towards renewable energy and the adoption of green technologies. This latest project marks our commitment to our customer and their pursuit of green solutions for the industry."

The remaining two Ropax ferries are expected to be ready in 2022.



The first of three Norled zero-emission battery-powered Ropax ferries ready for the sailaway to Norway for deployment in the Hella-Vangsnes-Dragsvik service route
(Photo: SCM, all Rights reserved)



The first Ropax ferry ready for loading onboard dry tow transport at Tuas Boulevard Yard
(Photo: Norled, all Rights reserved)



Successful loading and sailaway of the first Ropax ferry via dry tow transport to Norway
(Photos: SCM, all Rights reserved)

Notes to Editors

For the high-resolution version of the above images, please [click here](#).

About Sembcorp Marine

Sembcorp Marine Ltd provides innovative engineering solutions to the global offshore, marine and energy industries. Headquartered in Singapore, the Group has close to 60 years of track record in the design and construction of rigs, floaters, offshore platforms and specialised vessels, as well as in the repair, upgrading and conversion of different ship types. Sembcorp Marine's solutions focus on the following areas: Renewables, Process, Gas, Ocean Living and Advanced Drilling Rigs.

Sembcorp Marine's customers include major energy companies, owners of floating production units, shipping companies and cruise and ferry operators. They are supported by four commercial units: Rigs & Floaters; Repairs & Upgrades; Offshore Platforms and Specialised Shipbuilding.

Sembcorp Marine operates shipyards and other facilities in Singapore, Indonesia, the United Kingdom, Norway and Brazil.

Discover more at www.sembmarine.com.

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