
Press release

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MAN Energy Solutions Wins Order for Efficient HyProp ECO system

Leading German operator of chemical tankers chooses integrated, MAN propulsion solution

Chinese, state-owned China Merchants Jinling Shipyard (CMJL) subsidiary, Dingheng shipyard, has ordered an integrated HyProp ECO propulsion solution from MAN Energy Solutions in connection with the building of 4 x dual-fuel 6,600-dwt, stainless-steel, parcel chemical-tankers for Hamburg-based tanker operator, John T. Essberger. The order includes options for an additional four vessels while the confirmed units are scheduled for delivery from mid-2023.

MAN Energy Solutions' scope of supply for each shipset certified by Finnish/Swedish 1A ice class comprises:

- 1 x MAN 6L35/44DF diesel/gas-electric propulsion system, including GVU and plant equipment
- 1 x Renk gearbox RSVL-1100 including one primary-PTO/PTH/PTI
- 1 x MAN Alpha CP propulsion system including AT 3000 propulsion controls
- 1 x MAN HyProp ECO - AKA integrated electric system consisting of shaft machine, frequency converter, bow-thruster motor and related AC switchboard enabling tailored modes of operation.

MAN Energy Solutions will provide the solution in association with Aspin Kemp & Associates (AKA), in which it has a 40% stake. AKA specialises in power supply, energy management and drive systems for marine applications.

Johan J. Isaksen, Director Ship Management, John T. Essberger, said: "As a pioneer of purpose-built parcel tankers, our business is built upon continuous investment in the business and maintaining a state-of-the-art fleet, which is what this order represents.

Dejan Golub, New Building Manager, John T. Essberger, said: "This MAN propulsion system allows for a straightforward system integration that will make these newbuildings among the most efficient and low-emission in their class."

Lex Nijsen, Vice President and Head of Marine Europe, MAN Energy Solutions, said: "We worked hard to build the case that a fully-integrated MAN solution built around the MAN HyPropECO system would better fulfill the owner's requirements in terms of increasing energy efficiency and are very glad to have won this order. The scope of supply also matches MAN Energy Solutions' desire to increasingly become a supplier of complete solutions."

Jason Aspin, CEO Aspin Kemp & Associates, said "We are very excited that the client, Essberger, has chosen this integrated solution developed through an early

supplier involvement and a collaborative design effort, leading to higher efficiency and lower emissions, which are cornerstones of AKA's design philosophy."

Project background

The order pursues a fleet renewal with newbuilds that can increase energy efficiency by 30%. The new ships will be operated by E&S Tankers, a joint venture between Essberger and Stolt Nielsen. In 2020, John T. Essberger announced plans to invest significantly in a new fleet of modern ships to trade within their core trades: Northwest Europe, Baltic and the Mediterranean.

System characteristics

The Essberger HyProp ECO system offers a tailor-made solution where the electric equipment focuses on efficiency and flexibility. Core components, like the converter unit, are designed to be used in multiple ways, such as for operating the PTO when the propeller runs on the combinator curve, but also to drive the bow-thruster or to supply the ship with shore-power. The system also offers an emergency propulsion mode with the same converter used as PTH starter. This intelligent layout enables all components to be kept as small as possible. Similarly, integrated bypasses avoid losses in the power electronics when not in use.

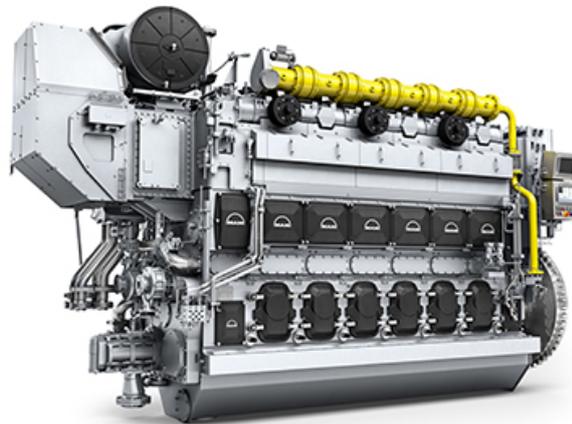
The German Maritime Energy Transition

The new vessels will be optimised in terms of hull design and equipment, resulting in a significantly improved energy efficiency of at least 30% and will have the ability to use a shore-power connection during cargo operations.

The newbuilding project is being subsidised by the German Federal Ministry of Transport and Digital Infrastructure as part of the implementation of the German government's Mobility and Fuel Strategy (MKS).

About John T. Essberger

John T. Essberger is a pioneer of purpose-built parcel tankers and is today one of Europe's leading operators of such tankers, as well as operating Dry Cargo and Ship Management Divisions.



The MAN 35/44DF engine



The AKA HyProp frequency converter

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.