



## **MAN to Equip World's First LNG-Powered Fishing Trawler**

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### **Delivery of cryogenic fuel system showcases MAN Diesel & Turbo as full propulsion-system provider**

MAN Diesel & Turbo has been selected to provide a complete propulsion package and fuel-gas system for the world's first fishing vessel with LNG propulsion. A 86-metre newbuilding purse-seiner, the 'Libas' will be built by Cemre Shipyard in Istanbul. It will feature a MAN 6L51/60DF main engine, Renk gearbox, MAN Alpha propeller system and MAN Cryo LNG fuel-gas system with a 350 m<sup>3</sup> tank. Liegruppen, the Norwegian fishing group, has ordered the vessel, while compatriot, Salt Ship Design, has provided the design.

Wayne Jones, Chief Sales Officer with MAN Diesel & Turbo, said: "This is a pioneering project. At MAN we are convinced that low-emission gas fuels are the silver bullet to decarbonising the shipping industry and we have made it our mission to guide our customers through that transition."

Lex Nijsen, Head of Four-Stroke Marine, MAN Diesel & Turbo: "This is a very noteworthy win. Our ability to provide this efficient, low-emission, proven LNG-fuelled propulsion package – a world's first for this environmentally sensitive segment – really puts our credentials as a system provider on display."

The delivery of the new LNG-propulsion package is part of MAN's wide ranging engagement for the establishment of LNG as a shipping fuel. Calling for a 'Maritime Energy Transition' the company considers the use of natural gases as the fuels of choice in global shipping as the most promising way to supporting the goal of a climate-neutral shipping industry. Launched in 2016 after COP 21, MAN's initiative has since found broad support within the shipping industry and politics.

MAN Diesel & Turbo customers benefit from an industry leading portfolio of solutions and products to help make that fuel-switch. "We offer a full system approach with regards to gas propulsion", Nijsen adds. "This includes new builds as much as retrofits of existing vessels. In 2017 MAN has retrofitted the world's first container vessel to LNG and more projects are being realised as we speak."

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In 2015 MAN Diesel & Turbo has purchased and fully integrated the fuel gas specialist Cryo AB. Under the brand MAN Cryo, the company has since then offered systems for the storage, distribution and handling of liquefied gases.

**Fuel-gas system:**

The scope of the MAN Cryo fuel-gas system covers:

- 350 m<sup>3</sup> vacuum insulated cylindrical type C tank
- TCS/coldbox with process equipment, manifold and instrumentation
- emergency shut-down system
- bunker station for supply of LNG to tank.

The system is designed for a net tank volume of 330 m<sup>3</sup> of LNG and temperatures down to minus 163 °C. The tank stores LNG at the lowest possible temperature and pressure until it is evaporated and supplied to the dual-fuel MAN 6L51/60DF main engine, as consumption demands.

**The updated MAN L51/60DF**

MAN Diesel & Turbo's updated MAN L51/60DF engine successfully passed its Type Approval Test at the end of 2017 where a nine-cylinder test engine had an output of 1,150 kW/cylinder at a nominal speed of 500/514 rpm. The engine can be employed both as marine main-engine and auxiliary engine and ran on both fuel-oil (DMA) and natural gas on the testbed.



*Illustration of the purse seiner newbuilding (Copyright Salt Ship Design)*



*Rendering of the MAN Cryo 350 m<sup>3</sup> vacuum-insulated, cylindrical type C tank and coldbox*

**About MAN Diesel & Turbo**

MAN Diesel & Turbo SE, based in Augsburg, Germany, is the world's leading provider of large-bore diesel and gas engines and turbomachinery. The company employs around 15,000 staff at more than 100 international sites, primarily in Germany, Denmark, France, Switzerland, the Czech Republic, India and China. The company's product portfolio includes two-stroke and four-stroke engines for marine and stationary applications, turbochargers and propellers as well as gas and steam turbines, compressors and chemical reactors. The range of services and supplies is rounded off by complete solutions like ship propulsion systems, engine-based power plants and turbomachinery trains for the oil & gas as well as the process industries. Customers receive worldwide after-sales services marketed under the MAN PrimeServ brand.