



## **MAN Diesel & Turbo to Cooperate with Gas-Tank System Specialist**

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Agreement with TGE Marine Gas Engineering will offer tailor-made solutions for gas-fuelled ships

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**MAN Diesel & Turbo has reached agreement with TGE Marine Gas Engineering, market leader and specialist in the design and construction of cargo-handling systems for cryogenic gases, regarding their future cooperation. In particular, the agreement centres on MAN Diesel & Turbo's highly efficient and flexible, medium-speed, dual-fuel engines and the mutual benefits arising from a collaboration with TGE's gas systems to offer optimum customer solutions for gas-fuelled ships.**

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With the imminent arrival of the strict IMO NO<sub>x</sub> and SO<sub>x</sub> emission regulations, gas has great potential as a solution to marine fuel requirements. Another factor is the expected, favourable, future trend in gas prices. Aboard ships, natural gas is stored at very low temperatures in liquid state before delivery in gaseous form to the engine for combustion.

The new collaboration targets the technical and commercial adaptation of the sub-systems engine, gas storage & supply plant and control systems. This paves the way for MAN Diesel & Turbo to offer tailor-made solutions that meet customers' specific requirements, guaranteeing maximum performance and avoiding unnecessary investment.

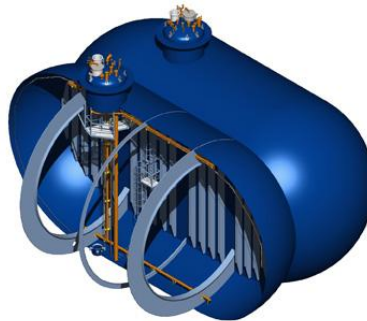
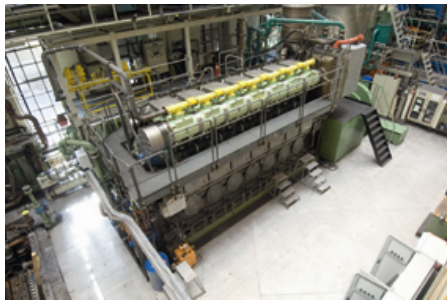
### **Benefits**

The MAN Diesel & Turbo/TGE Marine Gas Engineering agreement offers many benefits for customers, especially optimum system dynamics through integrated control systems. Another significant advantage of the collaboration is the integrated safety systems it brings. The agreement also caters for the takeover of total responsibility by one contract partner, if desired. Overall, the agreement aims to realise economically friendly and competitive propulsion systems, developed by technology leaders within DF-engine and gas-storage and supply systems.



**About TGE Marine Gas Engineering**

TGE Marine Gas Engineering has 30 years' experience in the engineering and production of cargo-handling and tank systems for LNG, LPG, Ethylene and other gas carriers, as well as FPSOs (Floating Production Storage and Offloading units). To date, the company has manufactured over 160 tank systems.



*A 7L51/60DF engine pictured at MAN Diesel & Turbo's Augsburg works(left); and an LNG bilobe tank (support design patented by TGE)*

**About MAN Diesel & Turbo**

MAN Diesel & Turbo SE, based in Augsburg, Germany, is the world's leading provider of large-bore diesel engines and turbomachinery for marine and stationary applications. It designs two-stroke and four-stroke engines that are manufactured both by the company and by its licensees. The engines have power outputs ranging from 450 kW to 87 MW. MAN Diesel & Turbo also designs and manufactures gas turbines of up to 50 MW, steam turbines of up to 150 MW and compressors with volume flows of up to 1.5 million m<sup>3</sup>/h and pressures of up to 1,000 bar. The product range is rounded off by turbochargers, CP propellers, gas engines and chemical reactors. MAN Diesel & Turbo's range of goods includes complete marine propulsion systems, turbomachinery units for the oil & gas as well as the process industries and turnkey power plants. Customers receive worldwide after-sales services marketed under the MAN PrimeServ brand. The company employs around 12,700 staff at more than 100 international sites, primarily in Germany, Denmark, France, Switzerland, the Czech Republic, Italy, India and China. MAN Diesel & Turbo is a company of the Power Engineering business area of MAN SE, which is listed on the DAX share index of the 30 leading companies in Germany.

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