



MES TECHNOSERVICE CO., LTD.

Subsidiary of Mitsui Engineering & Shipbuilding Co., Ltd. Japan



Successful Demonstration of the ME-LGI Concept

Our principals Mitsui Engineering & Shipbuilding Co., Ltd. (MES) – the MAN Diesel & Turbo licensee – has successfully demonstrated the liquid-gas-injection concept in Japan last month.

The Methane Engine – Liquid Gas Injection (ME-LGI), which can be fitted to a newbuilding or as a retrofit to existing ships, is the first to ever be commercially produced, marking a significant milestone in the development of diesel technology. The methane gas engine is a new concept which can be applied to all MAN low-speed engines and has two injection concepts, the ME-GI and the ME-LGI, which enable the exploitation of more low-flashpoint fuels.



Furthermore, the engine benefits from electronic controls that allows the fuel to be injected by a Fuel Booster Injection Valve which has been specifically developed for the ME-LGI engine to ensure a low pressure fuel gas supply. This enables a reduction in first-time costs and increased reliability.

Regular heavy fuel oil (HFO) engines will also be introduced to the Fuel Booster Injection Valve eventually, according to our Principals.

The event took place at our principals' Tamano works, near Okayama. Approximately 60 guests from the marine industry in Japan attended. The demonstration involved four separate stages, including changes to methanol running, methanol running at 50-75%, load variation, and changes to the fuel-oil running.