

Hyundai Heavy Industries and GE Receive AIP for the World's First Gas Turbine-Powered LNG Carrier

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Hyundai Heavy Industries, the world's biggest shipbuilder, announced today that the company has jointly developed world's first gas turbine-powered 174,000 m³ LNG carrier with GE Aviation and Marine (GE), a leading industrial gas turbine maker, and has secured Approval in Principle (AIP) on the vessel from the UK-based Lloyd's Register.

The IMO Tier III-compliant 174,000 m³ LNG carrier is equipped with GE's gas turbine-based Combined Gas turbine Electric and Steam system (COGES 2.0). The vessel is expected to save shipowners or operators an estimated 20 billion Korean won (\$17.83 million) on the assumption that the LNG carrier operates for 20 years with an annual operating cost of \$720,000, since it does not need additional equipment to handle exhaust emissions.

The gas turbine-powered engine is 60 percent lighter than conventional engines and will lower operating and maintenance costs accordingly. Durability and low vibration/noise of the engine are also test-proven over 70 million hours of application on offshore platforms, onshore power plants, and high-speed ferryboats.

Mr. Brien Bolsinger, vice president of GE Aviation and Marine, said, "We have put enormous efforts into developing the world's first turbine-powered LNG carrier in close cooperation with HHI. With the AIP, we are proud to introduce the eco-friendly and fuel-efficient gas turbine-powered LNG carriers to the market."

Mr. Shin Hyun-soo, CTO of HHI, added, "The LNG carrier we introduce today is a culmination of the seamless teamwork of GE and HHI. We will continue to enhance our competitiveness through ongoing technological cooperation including the application of the gas turbine engine to large containerships."

Source: Wienäber GmbH & Co. Baumaschinen KG