PRESS INFORMATION

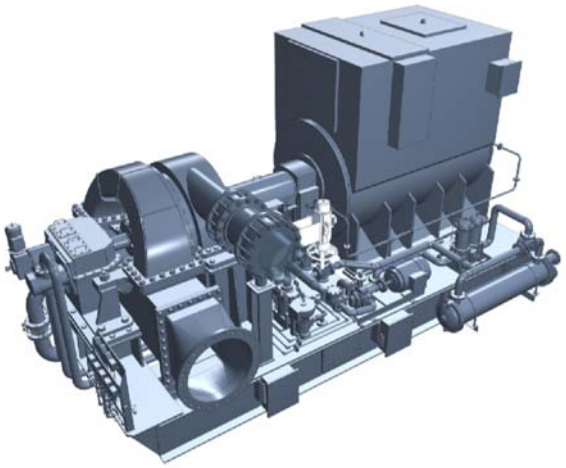
October 1, 2020
No.MME0107

MHI-MME to Supply a Turbine for Cold Power Generation

Tokyo, October 1, 2020 – Mitsubishi Heavy Industries Marine Machinery & Equipment Co., Ltd. (MHI-MME) will deliver a turbine for use with the prototype of the Cryo-Powered Regas, an LNG cold energy use regasification system currently under joint development by Mitsui O.S.K. Lines, Ltd. (MOL) and Daewoo Shipbuilding & Marine Engineering Co., Ltd. (DSME). The Cryo-Powered Regas is a new initiative that aims to reduce the environmental impact of Floating Storage and Regasification Units (FSRUs) by utilizing LNG cold energy – which up to now has been dumped into the ocean – for power generation. The new technology is expected to significantly reduce the fuel consumption and CO_2 emissions of FSRUs during regasification.

As part of development, verification tests are scheduled to take place at a small, land-based facility. In addition to supplying a power generating turbine to the facility, MHI-MME is also providing technical support toward
the future installation of the turbine on ships. This will be MHI-MME's first marine turbine for cryogenic power generation, and we will be developing a cutting-edge design while also leveraging the MHI Group's existing technology and expertise in land-based products.

MHI-MME has long been providing support for energy saving on ships, with a focus on waste heat recovery systems (WHRS) for large commercial vessels. With the sharp increase in the use of LNG by the maritime industry, MHI-MME sees the cold energy arising from LNG use as a promising, recoverable energy. The company is proactively engaged in this effort with the view that it can contribute to the achievement of a low-carbon society by expanding the range of its energy-saving solutions.



<Turbine external view>

<Cryo-Powered Regas logo>

Mitsubishi Heavy Industries Marine Machinery & Equipment Co., Ltd.

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