

## **Development of Large Flow Rate, High Pressure, High-Efficiency Liquefied Hydrogen Boosting Pump**

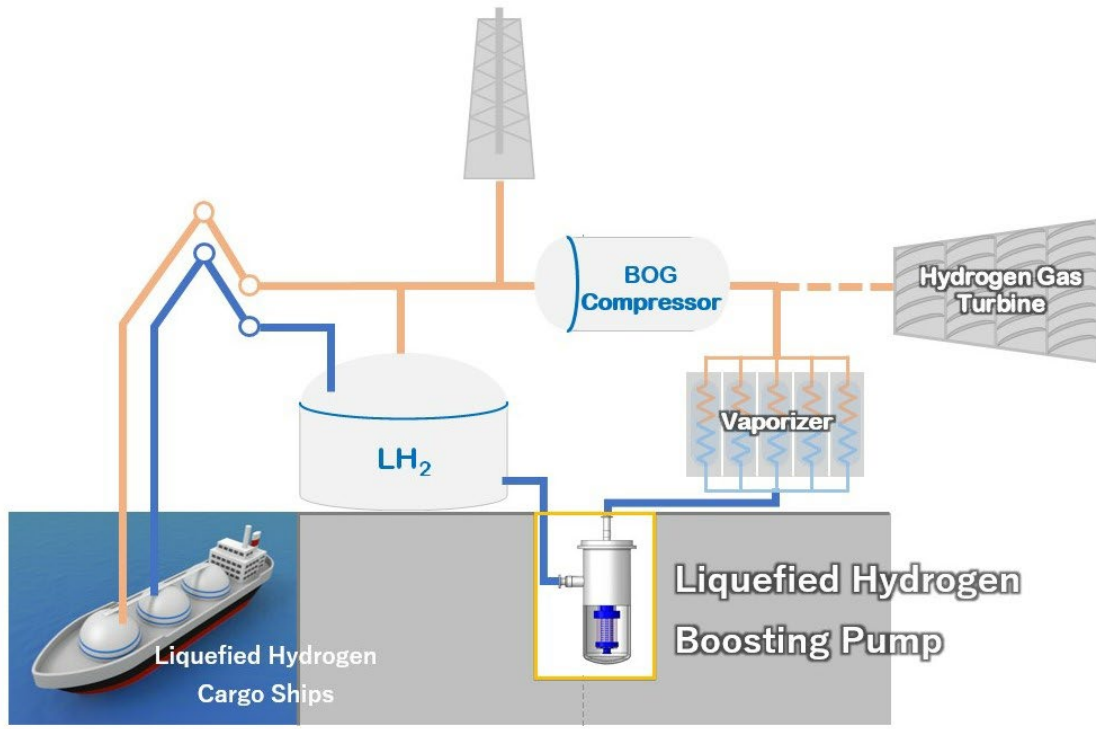
- **Torishima is selected for NEDO "Development of Technologies for Building a Competitive Hydrogen Supply Chain" -**

Torishima Pump Mfg. Co., Ltd. (hereinafter referred to as "Torishima") proposal for the "Development of large flow, high pressure, and high-efficiency liquefied hydrogen boosting pumps" to the New Energy and Industrial Technology Development Organization (hereinafter referred to as "NEDO") under R&D item I "Development of Technologies for Large-scale Hydrogen Supply Chain Establishment" of the "Development of Technologies for Building a Competitive Hydrogen Supply Chain" has been accepted.

This development project is part of the "Project for Establishment of a Large-Scale Hydrogen Supply Chain". This is a Green Innovation Fund project that supports the "Green Growth Strategy for Carbon Neutrality in 2050", aiming to develop a virtuous cycle between the economy and the environment. The project aims to play a role in securing the stable and inexpensive supply of hydrogen.

In order to use hydrogen in a variety of applications, including large-scale power plants, household and industrial applications, transportation equipment such as automobiles and railroads, and heat supply for factories and communities, it is necessary to transport and store large quantities of hydrogen. To realize this, hydrogen must be liquefied by cooling it to cryogenic temperatures of  $-253\text{ }^{\circ}\text{C}$ . However, pumps that can transport large volumes of liquefied hydrogen do not yet exist, therefore the development of such pumps is extremely challenging.

Torishima will use our technology and knowledge accumulated from more than 100 years of pump manufacturing and collaborate with external organizations to create state-of-the-art cryogenic pumping technology. Torishima is committed to contributing to the establishment of a large-scale hydrogen supply chain and to providing pumps which are indispensable to society.



Overview of hydrogen receiving station equipment

■ NEDO Official Website (Japanese)

[Nedo.gov.jp Link](https://nedo.gov.jp)