

Hydrogen Transported from Australia Used for Hydrogen Power Generation

- The hydrogen production, transportation, storage, and utilization are seamlessly connected into an integrated supply chain -

June 20, 2022 - CO₂-free Hydrogen Energy Supply-chain Technology Research Association (HySTRA), Kawasaki Heavy Industries, Ltd., Obayashi Corporation, The Kansai Electric Power Co., Inc. and the City of Kobe have successfully used hydrogen transported from Australia in an electricity power generation demonstration at the Hydrogen CGS Demonstration Plant on Port Island in Kobe City. The CGS Demonstration Plant is a 1 MW class hydrogen gas turbine power generation facility.

The consortium successfully demonstrated a model case in which a supply chain of producing, transporting, storing, and using hydrogen for energy utilization is linked in one supply chain.

In Japan, with the aim of achieving carbon neutrality by 2050, various initiatives have been underway to demonstrate the utilization of hydrogen, which emits no carbon dioxide when used as energy.

This demonstration is one of many major achievements alongside our respective efforts to achieve carbon neutrality with the use of hydrogen transported from overseas as a fuel for power generation in Japan.

The consortium aims to continuously work towards widespread use and social implementation of hydrogen through a virtuous cycle of hydrogen supply and demand creation by utilizing the experience gained through this demonstration project and technological development.



Hydrogen is transported from the LH2 Loading & Unloading Terminal



Filling a storage tank with hydrogen at the demonstration site



Hydrogen Power Generation Plant