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Mass Transportation of Hydrogen, Realized with Kawasaki Technology.

Stable supply of hydrogen is essential for our future hydrogen economy.

How do we secure large quantities of hydrogen?

In answer to this question, Kawasaki is promoting the idea of transporting hydrogen in liquid form.

A large amount of hydrogen produced from untapped resources overseas is liquefied by being cooled to -253°C.

This reduces the volume to about 1/800 of hydrogen in a gaseous state, making it possible to transport it to Japan efficiently.

Thus, Kawasaki is currently developing the world's first liquefied hydrogen carrier, building on the know-how and technologies it acquired through the construction of Japan's first liquefied natural gas (LNG) carrier.

Kawasaki is working to develop the technological foundation of a hydrogen energy supply chain—production, transportation, storage, and use.

We believe that by handling hydrogen in a manner that is safe, stable, and affordable, we will be able to achieve an abundant life.

The road to that future is what we call the Kawasaki Hydrogen Road.

Production



Utilization of unused resources



Production of liquefied hydrogen

Transportation & Storage



Mass transport of liquefied hydrogen



Long-term storage of liquefied hydrogen

Use



Hydrogen gas turbine power generation



Fuel for fuel cell vehicles

Kawasaki Hydrogen Road