

Hydrogen World Firsts

In the spring of 2022, Kawasaki and six other companies completed the world's first maritime transport of liquefied hydrogen between Japan and Australia, using a liquefied hydrogen carrier. The successful completion of the pilot project demonstrated the feasibility of establishing an international liquefied hydrogen supply chain.

With over 40 years of cryogenic technology, Kawasaki developed and constructed the world's first liquefied hydrogen carrier *SUIISO FRONTIER* and the world's first liquefied hydrogen cargo handling demonstration terminal "Hy touch Kobe." Going forward, we will accelerate our efforts toward commercialization.

Liquefied hydrogen cargo handling demonstration terminal, Hy touch Kobe



Hydrogen Road

The Hydrogen-based Society Is Fast Approaching

Hydrogen can be produced in different ways in different parts of the world and can be stored as energy. With these advantages, hydrogen is growing in significance from the standpoint of energy security, beyond its contribution to carbon neutrality.

Kawasaki is developing and commercializing integrated technology for all stages of the hydrogen supply chain, including liquefied hydrogen carriers, large-scale liquefied hydrogen storage tanks, and gas turbines that generate electricity using 100% hydrogen as fuel.

Kawasaki plans to use its accumulated expertise and advanced technology, in cooperation with other companies, to create a hydrogen-based society.

The liquefied hydrogen carrier *SUIISO FRONTIER* returning to the port in Japan, carrying hydrogen produced in Australia. The *SUIISO FRONTIER* received two awards: "Ship of the Year 2021" Award, presented by the Japan Society of Naval Architects and Ocean Engineers, and the Prime Minister's Award, the top prize among the 51st Japan Industrial Technology Grand Prize presented by Nikkan Kogyo Shimbun.



ANSWERS
Kawasaki's Challenge: Lead the world toward the realization of a hydrogen-based society



Press Release
HySTRA celebrates the completion of the world's first liquefied hydrogen vessel voyage in Japan

Kawasaki Achieves the World's First Cogeneration System in an Urban Area Using a Gas Turbine Fueled by Pure Hydrogen and Successfully Delivered Heat and Electricity

In 2018 Kawasaki and its partner company installed a cogeneration system on Port Island in Kobe, and achieved the world's first cogeneration system in an urban area using a gas turbine fueled by pure hydrogen and successfully delivered heat and electricity.

Leveraging our proprietary technologies cultivated in the industrial gas turbine field, Kawasaki is developing a line of products that use hydrogen as fuel, including hydrogen gas turbine power generation systems.

The hydrogen-based society is fast approaching.



Demonstration Project of Hydrogen Cogeneration System (Port Island in Kobe city)

