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Kawasaki's Technology Achieves Zero CO₂ Emissions

Striving toward realization of a hydrogen-based society, Kawasaki has been devoting itself to the development of a hydrogen gas turbine power generation system that runs completely on hydrogen and emits no CO₂.

Because hydrogen combusts seven times faster than natural gas, stable combustion that emits low NO_x (another air pollutant) has been a challenge. To address this, Kawasaki successfully developed an unprecedented combustion technology that allows for stable combustion, as well as low-NO_x and zero-CO₂ emissions. The advent of heat- and power- supplying energy systems using hydrogen gas turbines: a great step towards realization of the future's environmentally-friendly, "clean" society.

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 enhance the quality of 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

Kawasaki Heavy Industries, Ltd.