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## Kawasaki's Technology Achieves Zero CO<sub>2</sub> 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 CO<sub>2</sub>.

Because hydrogen combusts seven times faster than natural gas, stable combustion that emits low NO<sub>x</sub> (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<sub>x</sub> and zero-CO<sub>2</sub> 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



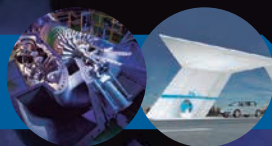
Utilization of unused resources  
Production of liquefied hydrogen

### 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.