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Technologies to use carbon free ammonia in power plant

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Abstract

Hydrogen is one of the promising energy carriers to reduce CO2 emission from power plant. IHI is focusing on ammonia as a carbon free energy carrier because it is already used widely in the world as a fertilizer, and social cost to establish supply chain would be rather cheaper. IHI is developing technologies to use ammonia directly as a fuel in gas turbine, coal fired boiler and SOFC(Solid Oxide Fuel Cell) with the support from Japanese government.