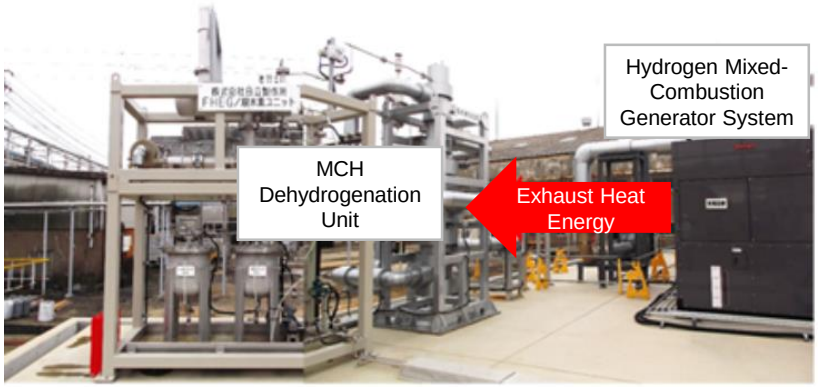
Demonstration projects of hydrogen power generation using gas turbines to burn hydrogen is underway

Main Demonstration Projects of Hydrogen Power Generation

	Hydrogen Cogeneration System (CGS) Smart Community Technology Development Project (Ministry of Economy, Trade and Industry, New Energy and Industrial Technology Development Organization)	Demonstration of Hydrogen Mixed-Combustion Generator System (National Institute of Advanced Industrial Science and Technology)
Business Summary	➢ A 1MW class hydrogen CGS will be installed, and demonstrations will be conducted using an integrated energy management system that aims for efficient operation of electricity, heat, and hydrogen. ➢ In April 2018, the project achieved the world's first thermoelectric supply by gas turbine power generation with 100% hydrogen fuel in urban areas.	➢ Demonstrating the technology of the supply chain that produces hydrogen from renewable energy power, undergoes chemical conversion, storage, and transportation, and then generates electricity with the hydrogen co-firing generator system. Conducted technical demonstration of supply chain. ➢ Achieve a total of more than 1000 hours of hydrogen co-firing generator system operation with a power output of 300-500kW.
Entity Business Operator	Obayashi Corporation and Kawasaki Heavy Industries, Ltd.	Hitachi, Ltd. and Denyo Kosan Co., Ltd.
Location	Port Island (Kobe City, Hyogo)	Fukushima Institute of Renewable Energy, etc. (Koriyama City, Fukushima)



Source:
New Energy and Industrial Technology Development Organization official website, National Institute of Advanced Industrial Science and Technology official website