

Iwatani



Iwatani's Hydrogen Activities



WHO WE ARE

Core business "Gas & Energy"



Energy Division

- LPG
- Electric power sales and city gas safety service
- Gas equipment and lifestyle products
- Portable gas cooking stoves and cassette gas canisters



Industrial Gases & Machinery Division

- Industrial gasses
- Gas facilities and industrial machinery



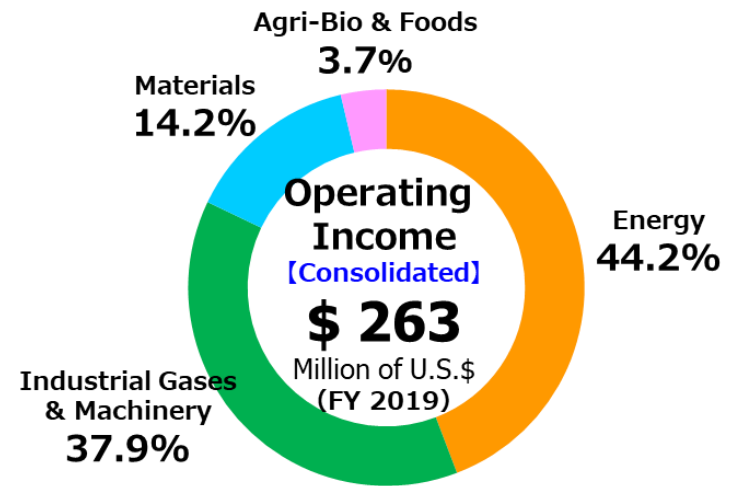
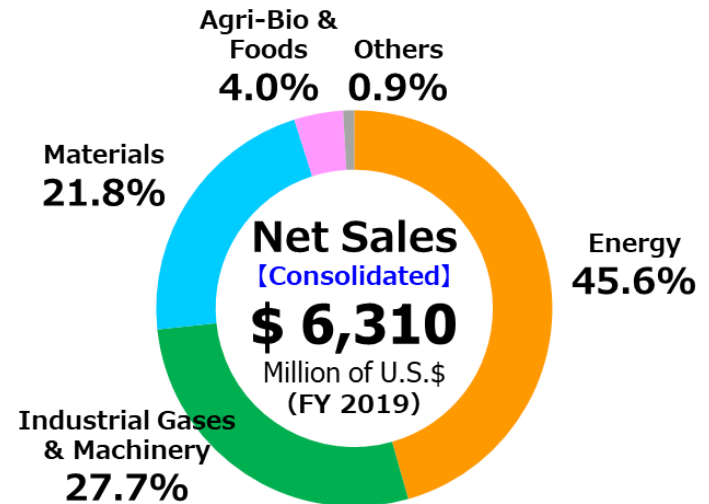
Materials Division

- Functional plastic products
- Resources and advanced materials
- Metals
- Electronic Materials



Agri-Bio & Foods Division

- Frozen foods and health foods
- Equipment for Agriculture
- Seed pigs and equipment for livestock



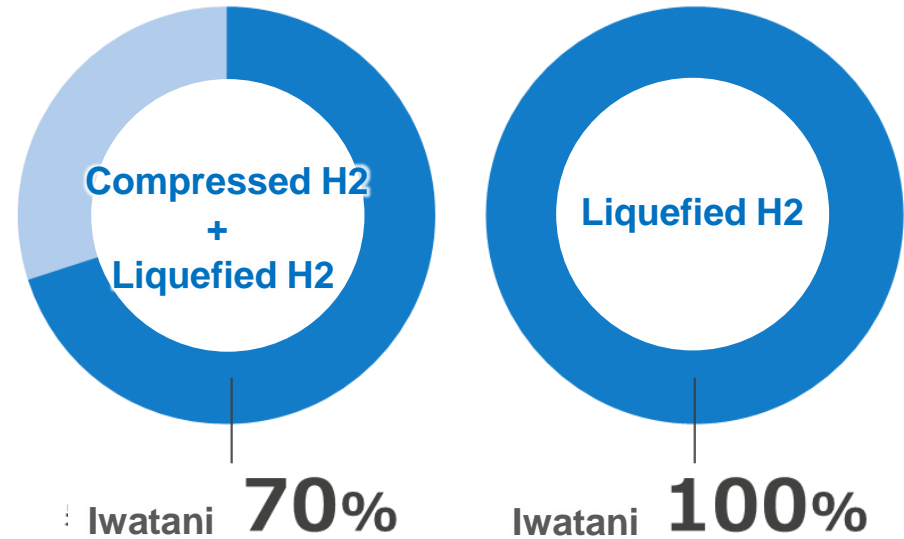
Note) Others and adjustments are excluded.

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Our Hydrogen Business

- 1941 Started hydrogen business
- 1958 Established Osaka Hydrogen industries (Now Iwatani industrial gasses corporation)
- 1978 Constructed Japan's first liquefied hydrogen commercial plant
- 2006 Launched largest liquefied hydrogen production plant in Japan "Hydro Edge" in Osaka
- 2014 Opened the country's first commercial hydrogen refueling station
- 2019 Entered the hydrogen station business in the United States

Market Share (JAPAN)



Iwatani started hydrogen business in 1941.

Iwatani has 70% of the hydrogen market share in Japan.

Our Hydrogen Business

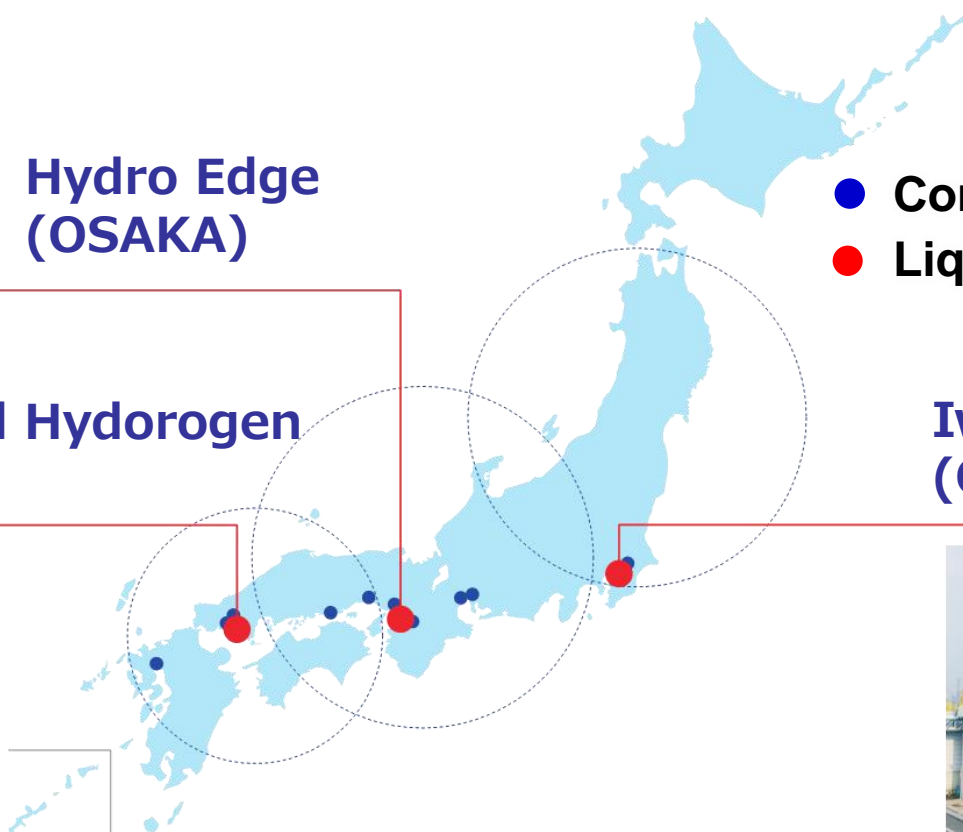
Iwatani has 3 plants of LH2 in Japan.

Total Supply Capacity: **30**ton/d



Hydro Edge
(OSAKA)

Yamaguchi Liquid Hydrogen
(YAMAGUCHI)



- Compressed H2 Plant
- Liquefied H2 Plant

Iwatani Gas Chiba
(CHIBA)



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Hydrogen Market in Japan

October 2020

Prime Minister Suga declared

“Carbon Neutral by 2050”

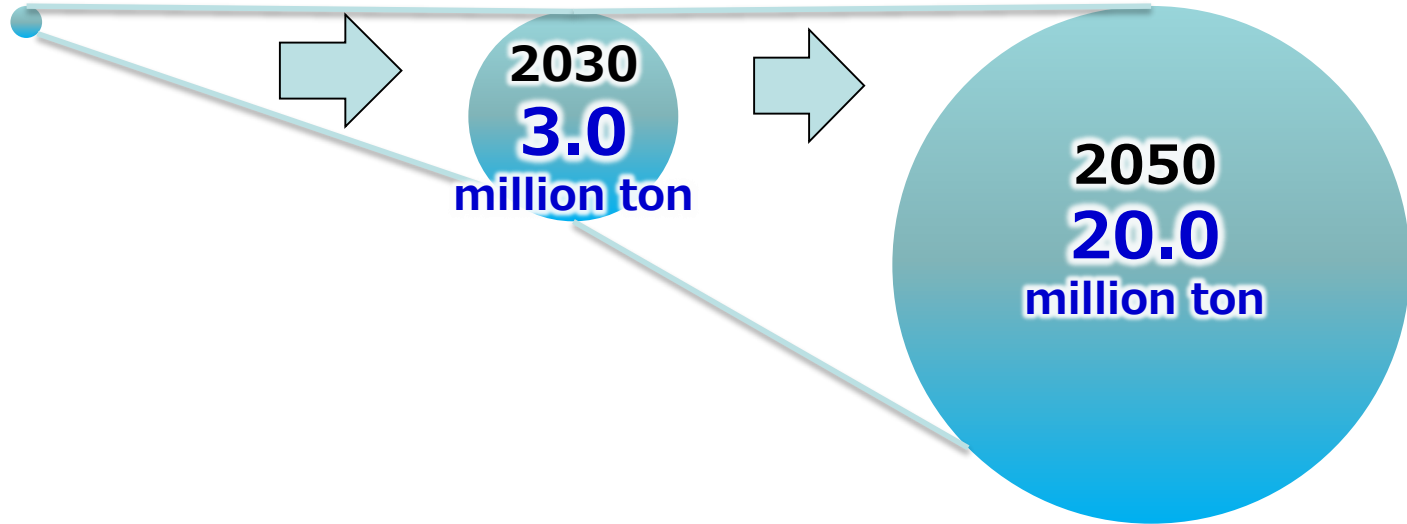
December 2020

“Green Growth Strategy

Through Achieving Carbon Neutrality”

Target for hydrogen demand

At Present
0.02
million ton
(For Sales)



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Iwatani's Issue

for the creation of a hydrogen society

1 Generating hydrogen demand

2 Production of CO₂-free hydrogen
(Overseas)

3 Production of CO₂-free hydrogen
(Japan)

Expansion of hydrogen refueling stations

Establishment and operation of **53** Hydrogen stations in Japan
(15 sites are under construction)

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38sites



2021
53sites

Chukyo 9sites

Kansai 11sites

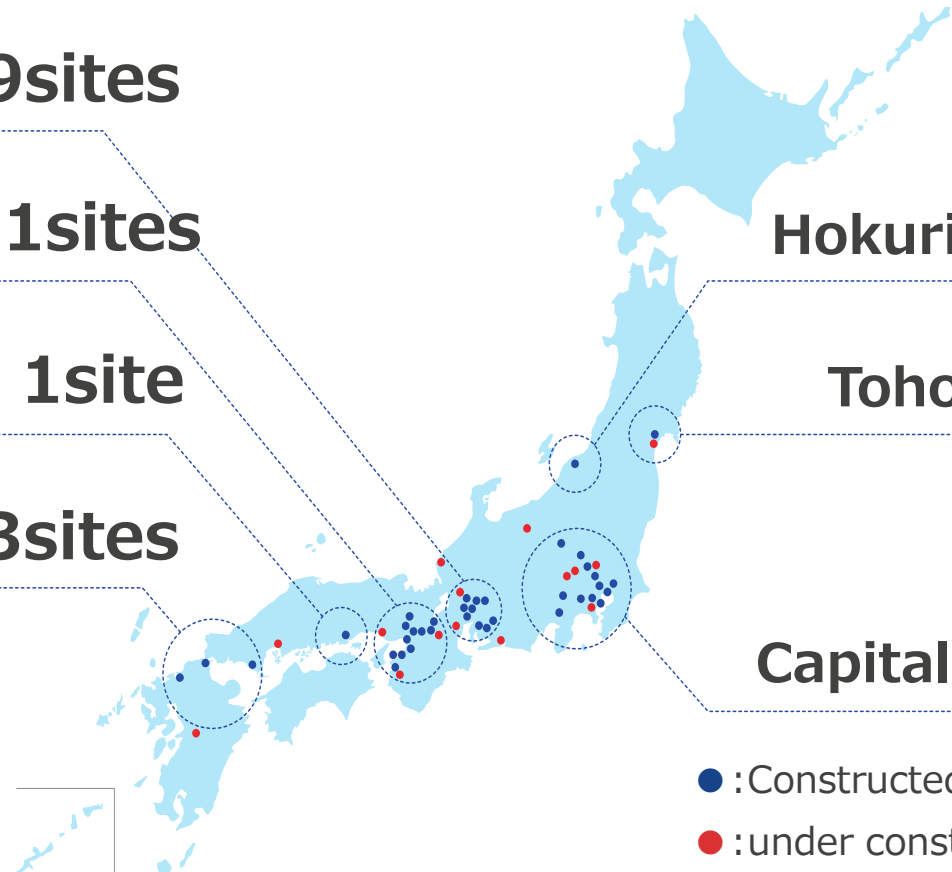
Chugoku 1site

Kyushu 3sites

Hokuriku 1site

Tohoku 1site

Capital 12sites

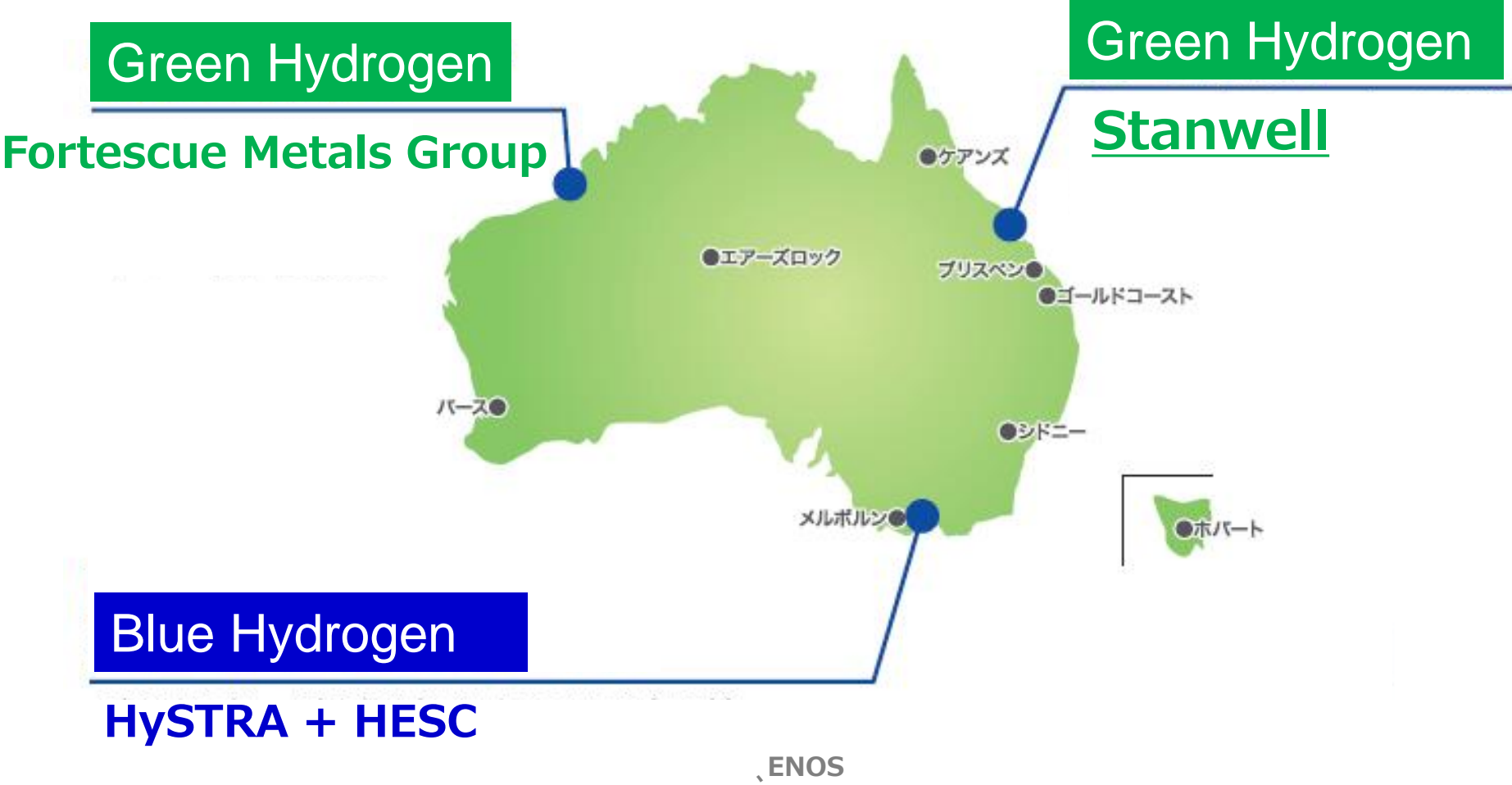


● :Constructed
● :under construction

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(December,2020)

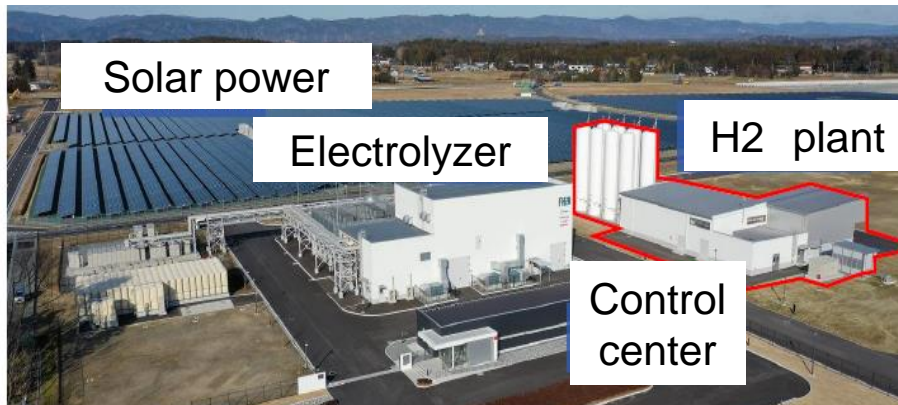
CO2-free Hydrogen Supply-Chain Project



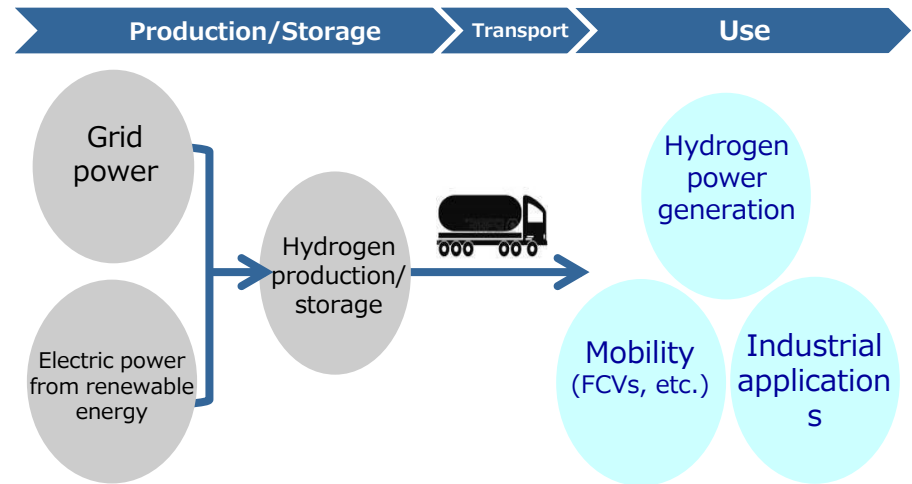
FH2R (Fukushima Hydrogen Energy Research Field)

- Demonstration operation of one of the world's largest (10,000kW) Hydrogen systems using renewable energy

Member :  **TOSHIBA**  東北電力 **Iwatani**



CO₂-free hydrogen production using renewable energy



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Launch of the Japan Hydrogen Association



Issues

1. Generating hydrogen demand
2. Cutting costs through technological innovation
3. Providing funds to businesses

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人工衛星

Thanks for your attention



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