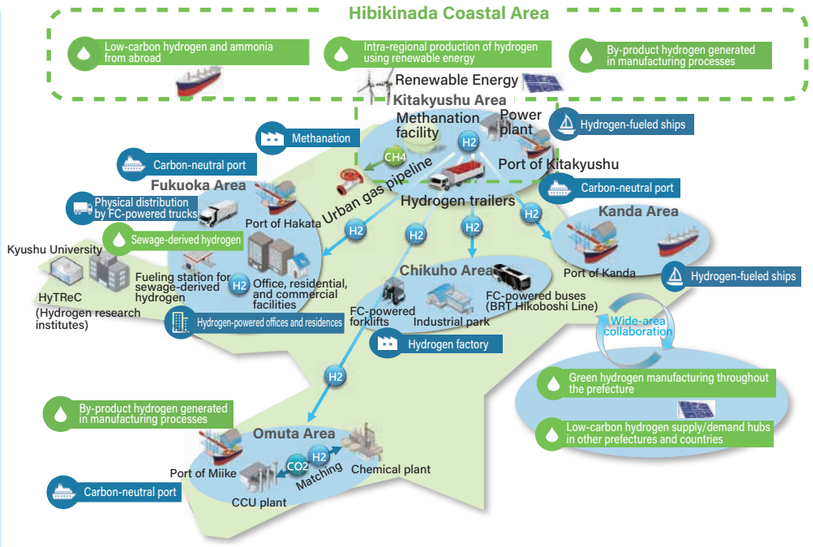
## Construction of a Large-scale Hydrogen Supply Site in the Kitakyushu Hibikinada Coastal Area

### Fukuoka Prefecture's Advantages

1. The establishment of a hydrogen site of the largest scale on the Sea of Japan side will contribute to energy security
2. A diverse mix of hydrogen sources will ensure a steady supply of hydroge
3. The area has strong potential for large hydrogen demand
4. A framework that includes Kyushu University can be established to provide integral support from information collection to business development




### Fukuoka Prefecture selected as a "core local government" in a priority area for FC commercial vehicle promotion!

- Among local governments nationwide, Fukuoka Prefecture promotes the spread of FC mobility by providing top-level support for both vehicles and hydrogen stations.
- In recognition of its efforts, in May 2025, Fukuoka was selected as one of six prefectures designated as "core local governments" in priority areas for FC commercial vehicle promotion.

### Major achievements in FC mobility

- Introduction of 18 FC trucks (including 3 school lunch delivery trucks and 3 garbage collection trucks)
- Demonstration introduction of 1 ambulance
- Introduction of FC buses to Hitahikosan Line BRT
- Commencement of the commercial operation of hybrid FC vessels for the first time in Japan
- Development of 8 hydrogen stations, including at the prefectural office (4th largest number of hydrogen stations nationwide)

(As of September 2025)

### Land acquisition support

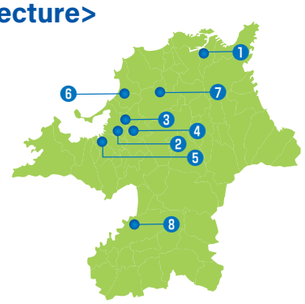
Consistent support, from the introduction of candidate sites to negotiations with land owners

### Financial support

Support by means of prefectural subsidies in addition to national subsidies

### <Hydrogen stations in Fukuoka prefecture>

1. Iwatani Hydrogen Station Kokura
2. Iwatani Hydrogen Station Fukuoka Government Office
3. Dr. Drive Self Fukuoka Airport SS Hydrogen Station
4. Dr. Drive Self Dazaifu Interchange SS Hydrogen Station
5. Fukuoka City Chubu Sewage Treatment Center Hydrogen Station
6. Dr. Drive Self Koga SS Hydrogen Station
7. Fukuoka-Miyata Hydrogen Station
8. Hydrogen Station Kurume




福岡県 水素グリーン成長戦略会議

**Fukuoka Prefecture Hydrogen Green Growth Strategy Conference**
(Secretariat: Automotive and Hydrogen Industry Promotion Division, Department of Commerce and Industry, Fukuoka Prefectural Government)
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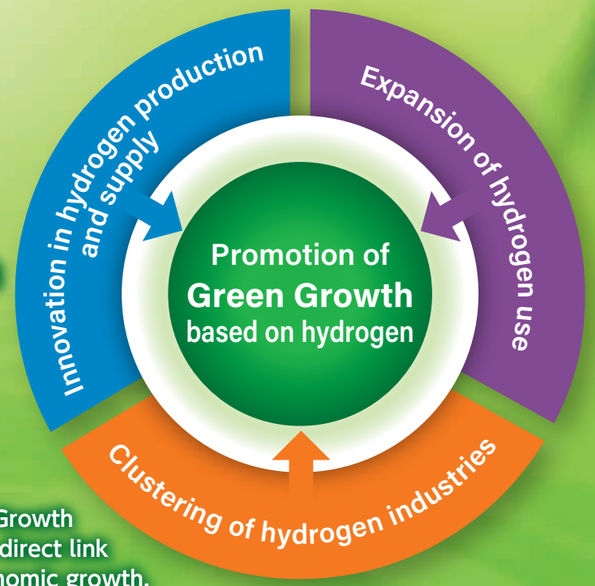
# Fukuoka Prefecture Hydrogen Green Growth Strategy Conference

## Promoting Fukuoka Prefecture as a Front Runner in Realizing a Hydrogen Society via Industry-Academia-Government Collaboration




Fukuoka is the first prefecture nationwide to launch hydrogen initiatives through an industry-academia-government consortium established in 2004.
To realize carbon neutrality across the industrial sectors and throughout society, we will pursue initiatives to achieve Green Growth based on the use of hydrogen and create a direct link between environmental measures and economic growth.

### Fukuoka Prefecture Hydrogen Green Growth Strategy Conference

**Establishment**
August 2, 2022 (establishment of the predecessor organization on August 3, 2004)

**Chairman**
Naoki Sato <Nippon Steel Corporation>

**Vice Chairmen**
Manabu Tsuyoshi <Iwatani Corporation>
Yuichiro Fujiyama <ENEOS Corporation>
Atsushi Souda <Kyushu Electric Power Co., Inc.>
Nobutaka Iwahara <Toyota Motor Kyushu Co., Ltd.>
Kazunari Sasaki <Kyushu University>

**Advisors**
Seitaro Hattori <Governor of Fukuoka Prefecture>
Mitsuaki Hoshino <Director, Kyushu Bureau of Economy, Trade and Industry>
Katsuji Bansho <Director, Kyushu Regional Environmental Office>
Kazuhisa Takeuchi <Mayor of Kitakyushu City>
Soichiro Takashima <Mayor of Fukuoka City>
Tatsuro Ishibashi <President of Kyushu University>

**Chief Secretary**
- Nippon Steel Engineering Co., Ltd.

**Deputy Secretary**
- Hydrogen Energy Test and Research Center

**Secretaries**
- Iwatani Corporation
- Kyushu Electric Power Co., Inc.
- Saibu Gas Co., Ltd.
- Shimizu Corporation
- ENEOS Co., Ltd.
- Electric Power Development Co., Ltd.
- Toyota Motor Kyushu Co., Ltd.
- Honda R&D Co., Ltd.
- Mitsubishi Heavy Industries, Ltd.
- Panasonic Corporation
- Kyushu University International Research Center for Hydrogen Energy
- Kyushu University Research Center for Hydrogen Industrial Use and Storage
- Saga University
- Kyushu Bureau of Economy, Trade and Industry
- Kyushu Regional Environmental Office
- Fukuoka Prefecture
- Kitakyushu City
- Fukuoka City

**Members**
950 companies and institutions

(As of October 2025)

# 2 Visions of the New Strategy

## 1 Roll out industrial policies in response to the creation of an enormous hydrogen market and the trend toward decarbonization

- An enormous hydrogen market has emerged that is worth 160 trillion yen. Measures are needed to support entry into this potential growth industry.
- Manufacturing industries in Fukuoka are also pressed to respond to the decarbonization trend and require support for introducing hydrogen technologies.

## 2 Transition from gray hydrogen to blue hydrogen and further to green hydrogen

- The 2050 Carbon Neutrality Declaration will hereafter promote a shift from gray hydrogen to blue hydrogen and further to green hydrogen.
- Emphasis will be placed on initiatives in the green hydrogen sector by leveraging our strengths as an advanced renewable energy region.

# Fukuoka Prefecture Hydrogen Green Growth Strategy

# 3 Pillars of the New Strategy

## 1 Innovation in hydrogen production and supply

The dissemination of green hydrogen requires a cost reduction and diversification of hydrogen production and supply

[Example initiatives]

**Construction of a large-scale hydrogen center in the Kitakyushu Hibikinada coastal area**

Diverse hydrogen sources will be promoted, including hydrogen from abroad, green hydrogen produced from renewable energy sources, and by-product hydrogen generated in manufacturing processes.

**Expansion of a hydrogen supply chain to all areas of the prefecture**

To produce and supply hydrogen in local demand areas, wide-ranging support will be provided for thefeasibility study of a "hydrogen local production and consumption project," from its launch to basic design.

**Promotion of industry-government-academia exchanges with foreign countries in the hydrogen sector**

The trade fair scheduled to be held in New South Wales, Australia as a counterpart party to an MOU, will be promoted by supporting the participation of Japanese companies and organizing business discussions with local companies.


## 2 Expansion of hydrogen use

Hydrogen use will be expanded to new applications, including trucks, buses, and government vehicles.

[Example initiatives]

**Development of large-scale hydrogen stations**

Support will be provided for the development of large-scale hydrogen stations for use by large trucks and buses.

**Promotion of the introduction of fuel cell (FC) trucks with costs comparable to diesel**

Initiatives for the introduction of FC trucks and subsidies for fuel costs will be implemented at a leading level in Japan.

**Conversion of regional transport and garbage collection vehicles to fuel cell (FC)**

The introduction of hydrogen to community-based mobility will be promoted.

## 3 Clustering of hydrogen industries

High-growth hydrogen industries need to be clustered for maximum benefit

[Example initiatives]

**Operation of the Fukuoka Hydrogen Green Innovation Support Center**

Fukuoka and Kyushu University will work together to provide one-stop support for inquiries related to the hydrogen sector, including inquiries about (1) entering the hydrogen industry, (2) introducing hydrogen technologies, and (3) planning and arranging social demonstration projects via industry-academia-government collaboration.

**Support for the development of new green hydrogen products by companies in Fukuoka**

Subsidies will help cover the development costs of hydrogen products, and support will be provided to expand market opportunities through exhibitions at trade fairs.

Examples of subsidized product development (among others)


Precision plating of GFRP parts <Kyushu Denka Co., Ltd.>

Emergency release system for high-pressure hydrogen gas and liquid hydrogen <Toki Engineering Co., Ltd.>

**Enhancement and reinforcement of the Hydrogen Energy Human Resources Center**

To promote the creation of new entrant companies and develop engineers, on-demand courses will be offered and curricula related to hydrogen and ammonia will be expanded.

# Fukuoka is an advanced region in the use of hydrogen and renewable energy

## Kyushu University

Provides an integrated approach, from basic research to applied and empirical research. A world-class center for education and research in hydrogen energy, bringing together industry, academia, government, and the local community. Leverages the strengths of its research institutions to contribute to the realization of a low-carbon society.

**HYDROGENIUS**
(Research Center for Hydrogen Industrial Use and Storage)

**NEXT-FC**
(Next-Generation Fuel Cell Research Center)

**I²CNER**
(International Institute for Carbon-Neutral Energy Research)

## HyTReC

～World's highest-performance hydrogen product testing facility～

**Hydrogen Energy Test and Research Center**

HyTReC supports small and medium venture companies in their R&D and product testing activities as a third-party institution that evaluates the performance and reliability of hydrogen products.

- Public testing institution for hydrogen products
- Prototypes, etc.

○Gas cycle tests ○Burst tests
○Hydraulic cycle tests ○Expansion measurement, etc.

Conducting a durability test using hydrogen gas

Measuring the expansion of a large hydrogen cylinder

## Advanced Initiatives


Operation of the world's first hydrogen station that produces hydrogen from sewage biogas and supplies it to FCVs, etc. (Fukuoka City)


Demonstration of a local production and consumption model of methanation, using electrolytic hydrogen produced from surplus renewable electricity and recovered $CO_2$ as feedstock (Saibu Gas)

## Support provided by the Strategy Conference

### Hydrogen production and utilization

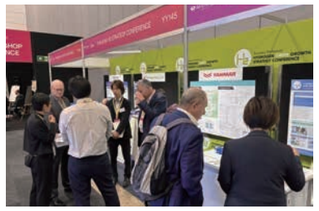
**Support for hydrogen production within the prefecture**

Support is provided for cost estimation and surveys of hydrogen demand and other factors needed to develop hydrogen projects for local production and consumption.
Up to 10 million yen (50% subsidy rate)

### Business matching with overseas companies

**Support for participation in trade fairs overseas**

Support is provided for participating in hydrogen-related trade fairs held in New South Wales.



### Introduction of FC mobility

**Vehicle introduction subsidies**

Subsidies are provided for the introduction costs of FC trucks.
Up to 31 million yen/vehicle

**Fuel cost subsidies**

Subsidies are provided for the fuel costs of operating FC commercial vehicles (covering the price difference between hydrogen and diesel).
Up to 4.8 million yen

### Hydrogen stations

**Development subsidies**

Subsidies are provided for the development costs and land lease fees of large-scale hydrogen stations.
Up to 322 million yen

**Subsidies for operating costs**

Subsidies are provided for the cost of operating hydrogen stations in proportion to the number of FC commercial vehicles served.

### Market entry support

**Dispatch of advisors**

Advice on entering the hydrogen sector and utilizing hydrogen is provided by former and current professionals of major manufacturing companies.
<Advisors>
Mr. Noboru Hashimoto (former employee of Panasonic Corporation)
Mr. Hidemi Onaka (former employee of Toyota Motor Corporation)
Mr. Hideo Shigekiyo (Kawasaki Heavy Industries, Ltd.)

**Product development support**

Support is provided for feasibility studies of seeds studies and full-fledged production development by industry-government-academia collaboration teams.
[Feasibility studies]
Up to 5 million yen (50% subsidy rate)
[Commercialization research (three years)]
Up to 25 million yen (50% subsidy rate)

**Support for participation in trade fairs**

Support is provided for participating in trade fairs in Japan such as the FC EXPO, to expand market opportunities for hydrogen products.