

# Aichi Prefectural Government Hydrogen Society Public Awareness Zone

(Aichi Prefectural Government Mobile Hydrogen Station)  
~ Hydrogen Society Led by Fuel Cell Vehicles ~



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Governor  
Aichi Prefecture

Widespread use of fuel cell vehicles (FCVs), which are fueled by hydrogen, the ultimate form of clean energy, can contribute to future sustainable development of the automobile industry, and can lead to rapid development of the hydrogen industry. It is anticipated that such widespread use will eventually lead to the realization of a hydrogen society in which hydrogen is utilized as a form of energy.

In this regard, in Aichi Prefecture we have established the Aichi Prefectural Government Hydrogen Society Public Awareness Zone in the parking lot of the West Annex of the Aichi Prefectural Government Office. This is one of our measures to raise public awareness of realizing a hydrogen society. In this zone, as part of our efforts to promote widespread use of FCVs and hydrogen stations and to raise public awareness of a hydrogen society, a mobile hydrogen station is operating with cooperation from a private business. We hope that this effort will not only contribute to awareness of FCVs and hydrogen stations, but also spread throughout and even outside the prefecture as a model for installing hydrogen stations in urban areas, thereby leading to many more hydrogen stations being installed nationwide.

As the base of many world-leading automobile-related manufacturers, Aichi Prefecture will continue taking the lead in promoting the widespread use of FCVs and the installation of hydrogen stations throughout Japan, as well as actively promoting the significance of a hydrogen society.



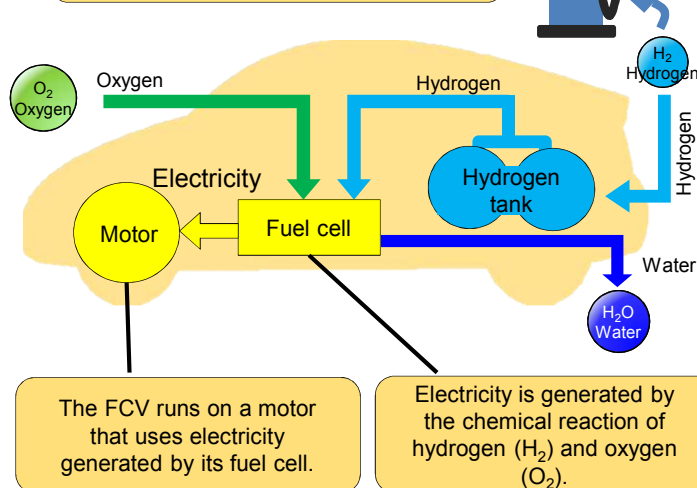


# Aichi Prefectural Government Hydrogen Society Public Awareness Zone (Aichi Prefectural Government Mobile Hydrogen Station)

## What Are Fuel Cell Vehicles (FCVs)?

Fuel cell vehicles are the ultimate form of eco-friendly cars. Fueled by hydrogen, these vehicles emit only water while driving.

An FCV is filled with hydrogen at a hydrogen station.



The FCV runs on a motor that uses electricity generated by its fuel cell.

Electricity is generated by the chemical reaction of hydrogen (H<sub>2</sub>) and oxygen (O<sub>2</sub>).

### Characteristics

- (1) FCVs emit no carbon dioxide (CO<sub>2</sub>) while driving.
- (2) Max cruising range: More than 500 km (same level as gasoline-fueled cars)
- (3) Hydrogen fill time: About 3 mins. (same level as gasoline-fueled cars)
- (4) FCVs can be used as emergency power sources (Equivalent to the amount of electricity consumed by an ordinary household in about one week).
- (5) Hydrogen serves as the fuel for FCVs and can be produced from a wide variety of primary energy types, such as natural energy and biomass.

## Station Services Available

- (1) Explanation of fuel cell vehicles (FCVs), hydrogen stations, and hydrogen society
- (2) Display of a model for installing mobile hydrogen stations
- (3) Filling of FCVs (For operation information, please check the backside of this leaflet.)

Overall View of the Hydrogen Society Public Awareness Zone



The High Pressure Gas Safety Act requires measures marked with “\*” to be taken in a Class 2 Storage Place. Since high pressure gas (hydrogen) of not less than 300 m<sup>3</sup> but less than 1,000 m<sup>3</sup> in volume is stored in this mobile hydrogen station, the facility is regarded as a Class 2 Storage Place.

## What Are Hydrogen Stations?

Hydrogen stations, where FCVs are filled, are mainly divided into two types: stationary (stand) type and mobile (vehicle) type.

### Stationary (Stand) Type

Since it is possible to fill many FCVs with this type of hydrogen station, it is thought that these stations will become mainstream in the future.



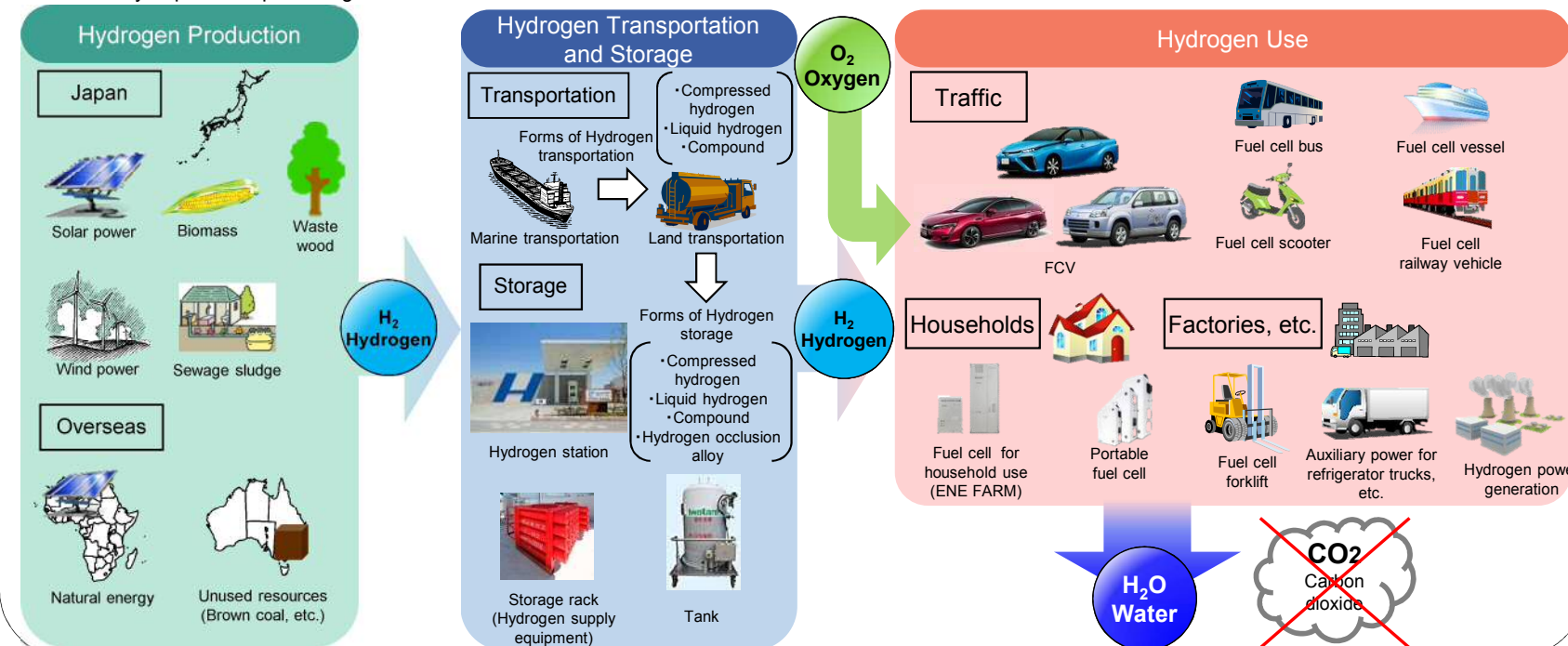
### Mobile (Vehicle) Type

Although fewer FCVs are filled using this type than the stationary type, the equipment cost is relatively low. Accordingly, it is expected that the mobile type will be utilized during the early phase of the spread of FCVs. Since only a small space is necessary to install this type, it is possible to install it even in urban areas with few wide spaces.



## Hydrogen Society – Achieving a Human-Friendly and Earth-Friendly Society

Hydrogen can be produced from natural energy (solar power, wind power, etc.), biomass and other forms of energy, and can also be transported and stored. In addition, when using hydrogen, only water is emitted, raising the expectation that hydrogen will be used for even wider purposes as an energy form friendly to the earth in every aspect and promising for the future.



## Safety of FCVs and Hydrogen Stations

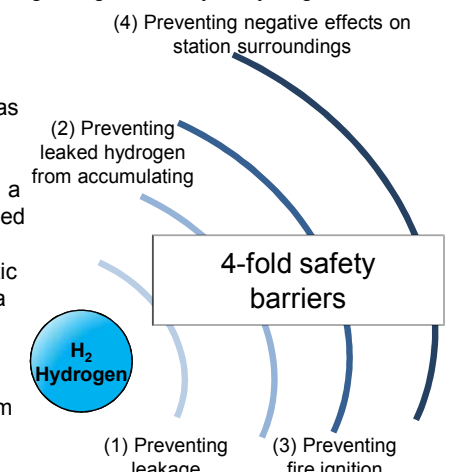
The safety of FCVs and hydrogen stations is ensured by implementing measures based on the main principles of “leaking no hydrogen” and “accumulating no leaked hydrogen,” as well as on applicable laws and regulations.

### FCVs

A safe design has been introduced for hydrogen tanks and other parts, with a high level of safety performance ensured against collision and impact. In addition, FCVs comply with the Road Transport Vehicle Act, the High Pressure Gas Safety Act, and safety criteria of global uniform standards (established in 2013) regarding the safety of hydrogen fuel cell vehicles.

### Hydrogen Stations

Based on the High Pressure Gas Safety Act, fourfold safety measures have been implemented, such as adopting a structure to ensure that no leaked hydrogen accumulates in a building; employing an automatic safety stop system linked with a seismometer; installing gas detectors, fire detectors, and other safety devices; and ensuring sufficient distance from nearby public roads and the station's property boundaries.



Widespread use of FCVs and hydrogen stations will lead to the realization of a hydrogen society, in which hydrogen is utilized as a form of energy.



## Aichi Prefectural Government Mobile Hydrogen Station

In the Aichi Prefectural Government Hydrogen Society Public Awareness Zone, a mobile hydrogen station is operating with cooperation from a private business. This is one of our measures to raise public awareness of a hydrogen society. The facility can be used by any FCV drivers, and is open to the public for observation. We truly look forward to seeing you all at the hydrogen station. Please note that the mobile hydrogen station functions only during the designated operating times on the designated operating days.

- Operation Cooperation Business  
Nippon Mobile Hydrogen Station Services, LLC (Nimohyss)
- Operating Days  
Every Monday and Friday (except holidays and the year-end and New Year period)
- Operating Times  
Monday noon – 4:00 p.m.  
Friday 10:00 a.m. – 4:00 p.m.
- Payment  
Credit card
- Direct Call to the Station  
070-3516-5578 (If on Friday, please call the station at 070-3516-5579.)



\* Although no reservation is required, an advance contact by phone will enable smoother filling of your FCV.

### ○ Notes

The operation information above may be subject to change. For the latest operation status, temporary closings, and other information, please check the Nimohyss website below:

<http://www.nimohyss.com/> (in Japanese)

## Aichi Prefectural Government Hydrogen Society Public Awareness Zone



○ Hours Open (Explanation from staff is available.)

Every Monday to Friday  
10:00 a.m. – 12:00 p.m.  
1:00 p.m. – 4:00 p.m.

Except holidays and the year-end and New Year

○ Access

< By Car >

• Approx. 3 km from Nagoya Station

< By Public Transportation >

- 1-minute walk from Shiyakusho Station on the Subway Meijo Line
- 5-minute walk from Higashiotte Station on the Meitetsu Seto Line
- 3-minute walk from Shiyakusho Bus Stop of Key Route Bus
- 1-minute walk from Kencho-mae Bus Stop of Toyoyama Town Bus

## ■ Inquiries

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Website: <http://www.pref.aichi.jp/san-kagi/shinene/suisozone/src/> (in Japanese)

\* For information on the operation of other hydrogen stations in Aichi Prefecture, please check the website above.