

Power
generation

Distribution

H₂

Storage

HYDROGEN POWER
COMBUSTION ENGINE



Hydrogen Factory

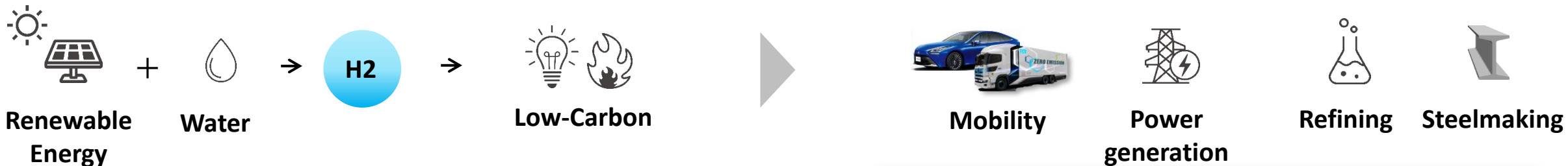
Now Is the Time to Stand Together

Toyota Motor Corporation
Hydrogen Factory President
Mitsumasa Yamagata

March 17, 2026

Decarbonize
end uses

H₂ Future

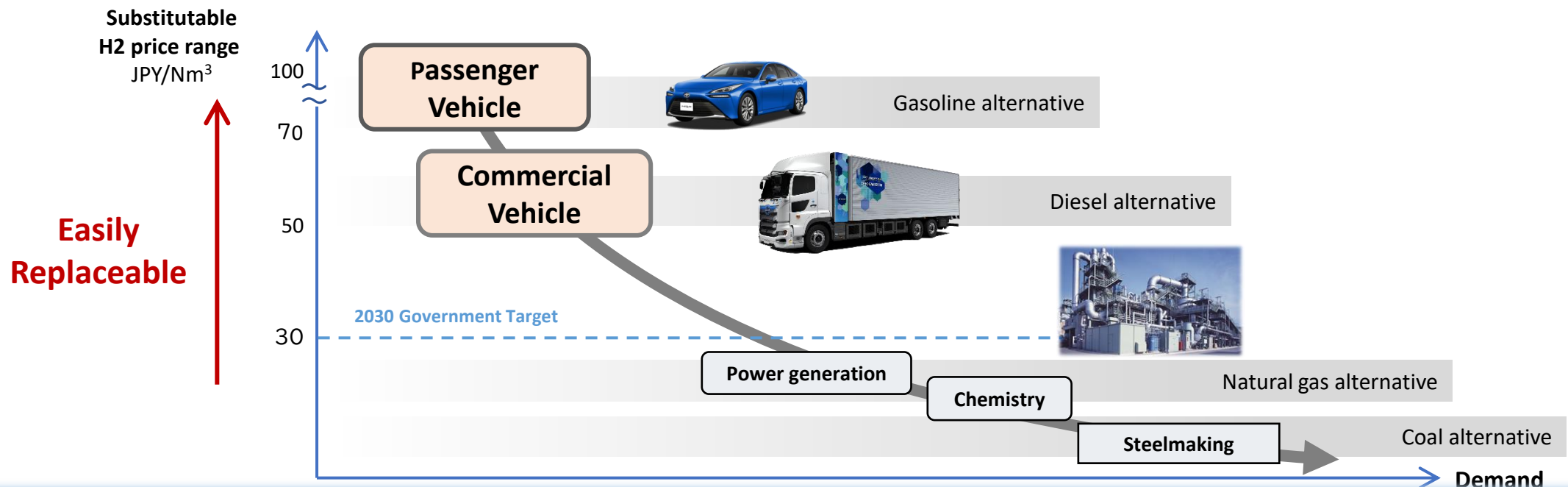


Wide range of applications

Cost Remains the Key Challenge

Cost Comparison: Conventional Fuels vs. Hydrogen

Source: Kyushu University, Professor Sasaki



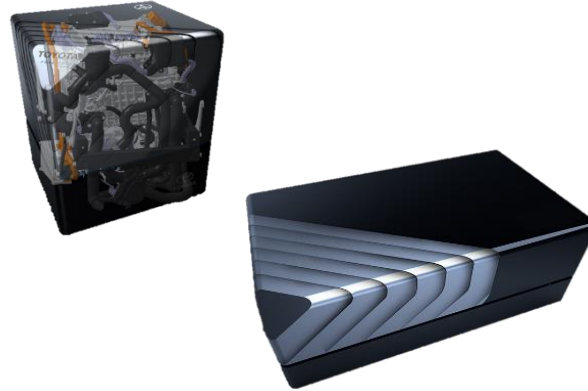
Lead hydrogen adoption through commercialized mobility.

Grand totals



28,700 vehicles

(Cumulative global production)



FC Module

3,500 units

(Adopted by over 100 companies)



200 vehicles

Across Japan:
Miyagi, Fukushima, Tokyo,
Aichi, Hyogo, Fukuoka

Both product evolution and ecosystem development — from hydrogen supply to demand creation — are essential.

Product Evolution

Customer Feedback

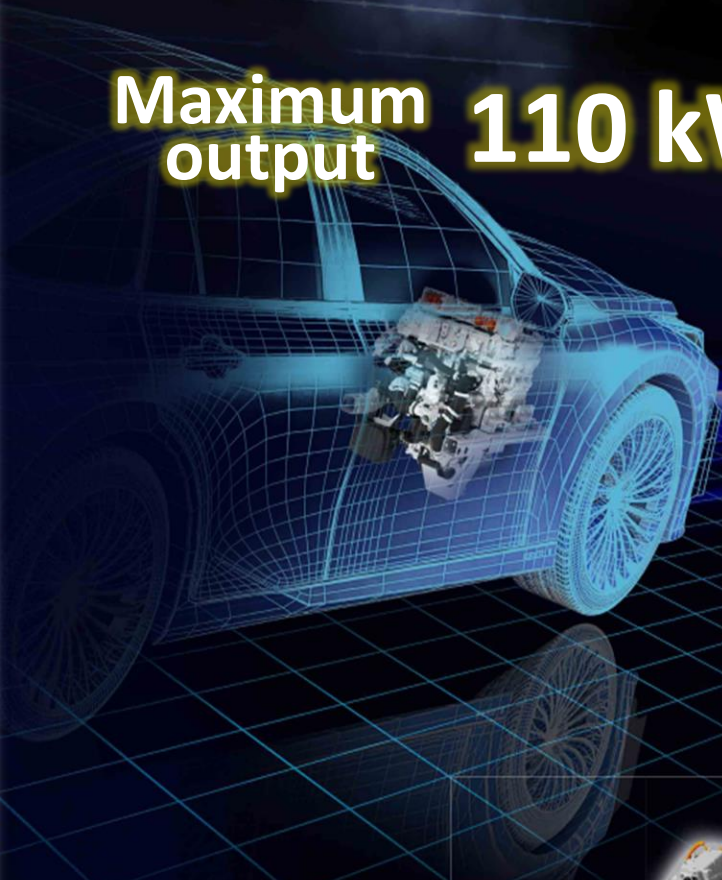


- Smooth acceleration, **less fatigue!**
- Minimal vibration **keeps cargo intact!**
- **Hydrogen fueling is quick and convenient!**
- **Maintenance is a concern.**

FC products are well-received,
but further product development to **meet commercial needs** is required.

For passenger vehicles

Maximum output **110 kW**



For general-purpose applications

Maximum output **150 kW**



For large commercial vehicles⁶

Maximum output **300 kW**



■ **2x output at the same size**

Improved Power Efficiency

■ **1.2x better fuel efficiency**

Lower hydrogen consumption and extended range

Compared to
[our previous model]

■ **2x durability**

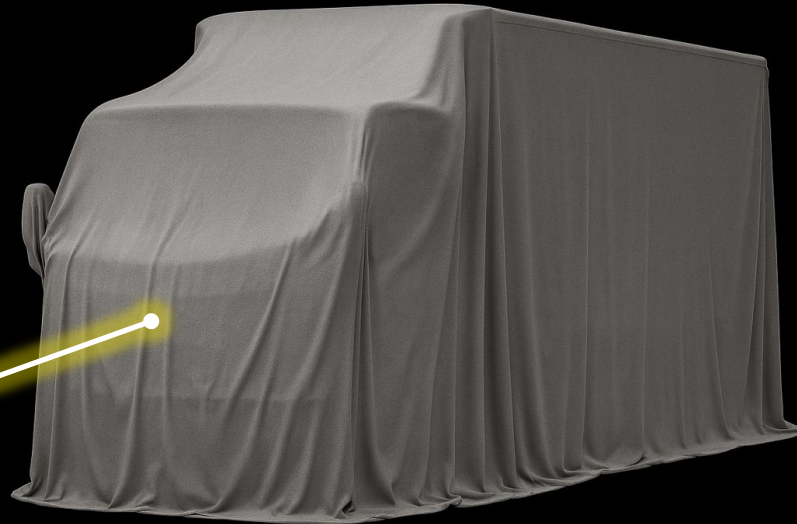
Compared to
[our previous model]

Delivers maintenance-free operation with diesel-equivalent performance

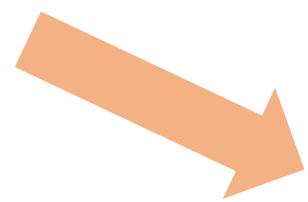
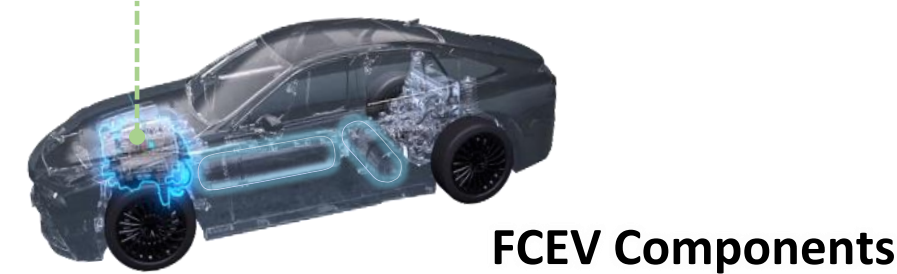
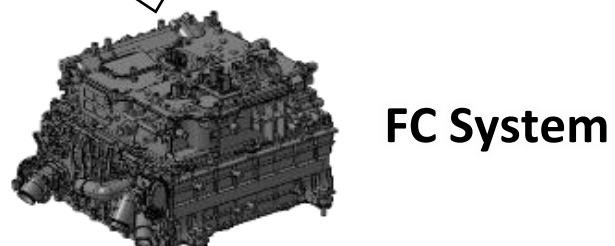
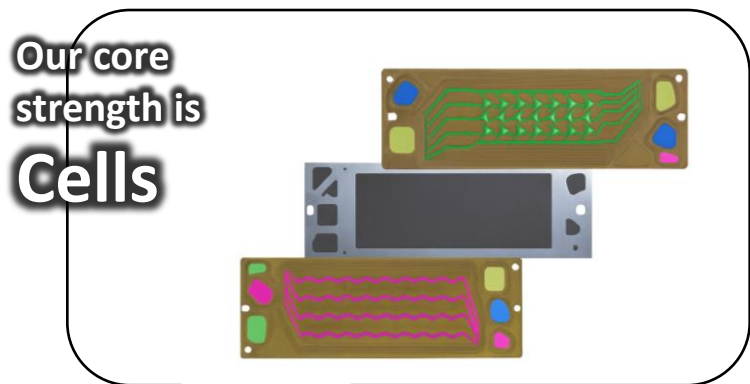
■ **Significant cost reduction**

Cost reduction achieved through design and manufacturing innovation

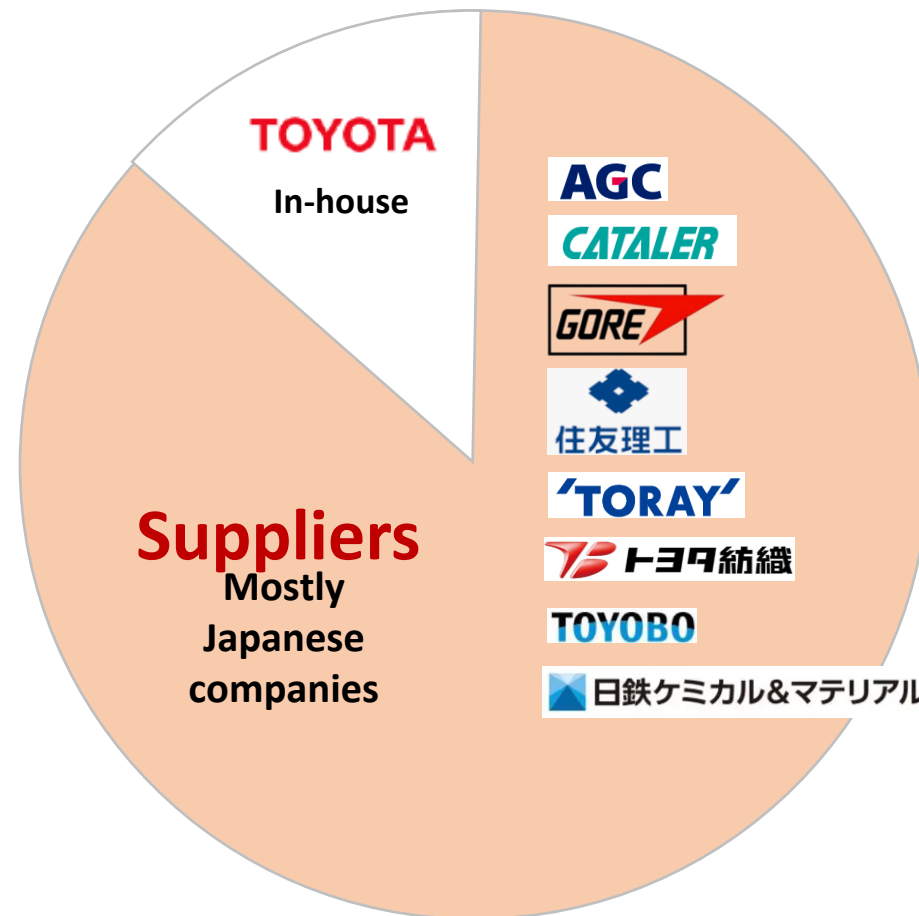
The 3rd-Generation FC system was developed with commercial use in mind.



**Development of the 3rd-Generation FC System continues to advance steadily.
We are currently in discussions with Japanese OEM partners on its deployment
in light-duty trucks.**



FC Cell Cost Breakdown



Cell technology developed through Japan's collective R&D is central to FC systems.



Building a Hydrogen Ecosystem
Expanding Hydrogen Infrastructure
Driving Large-scale Hydrogen Demand

Sustainable Business Model

Example: Hydrogen Station in Heiwajima, Tokyo



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出典: 岩谷コスモ水素ステーション平和島

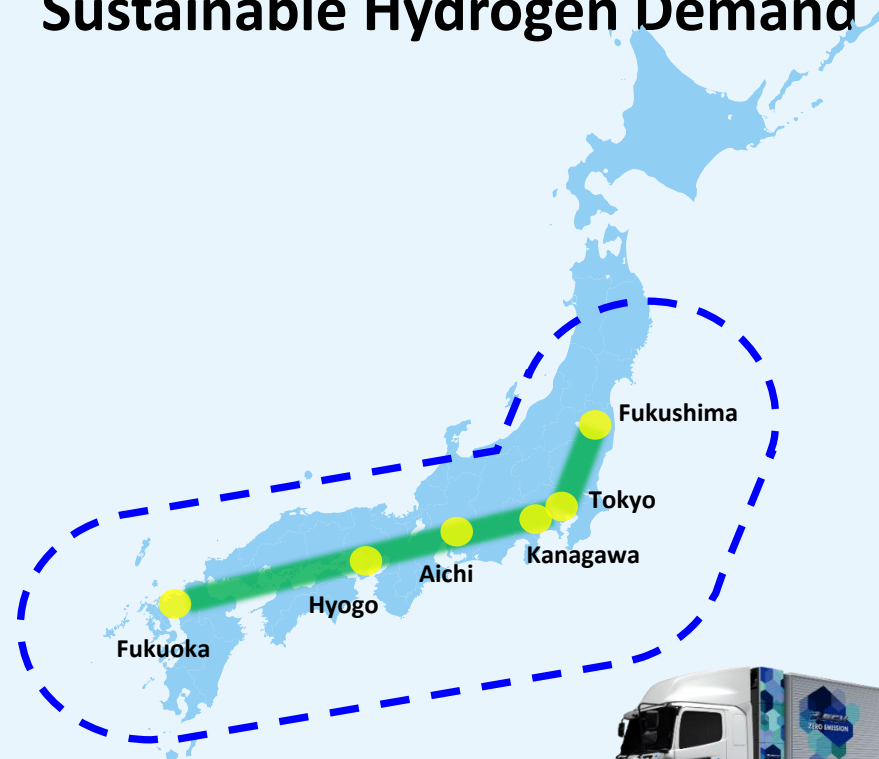


**Projected deployment: approx. 80 vehicles;
hydrogen demand of 250 tons/year**

With public subsidies,

**hydrogen prices are expected to become
comparable to existing fuels.**

Connecting Key Areas via Major Arterial Routes to Build Sustainable Hydrogen Demand



Connecting key regions via major arterial routes will create sustainable hydrogen demand and help overcome the chicken-and-egg dilemma.

Accelerating Hydrogen Adoption Initiatives in Tokyo Public-Private Partnership Project “TOKYO H2” Launched

Securing Stable Demand



Expanding from
Tokyo to Aichi

FC Taxi Purchase Support
Launches in
Aichi Prefecture
(April 2026)

Customer Feedback



- ✓ Extremely quiet, helping you forget the hustle and bustle of the city
- ✓ Low vibration reduces driver fatigue
- ✓ It offers the refined comfort expected of a premium sedan and is ideal for VIP transportation.

Crown FCEV taxi operations begin in Tokyo → expanding to Aichi.

Passenger Vehicles



Government Hydrogen Corridor Initiative



Commercial Vehicles



Next-Generation FC System Collaboration



Fuel Cell Supply Network



Steadily advancing in Europe with major OEM partners to shape the market.




Hydrogen highway development for heavy trucks is accelerating through public-private partnerships and cross-industry collaboration.

Sichuan (FC Plant)

 蜀道丰田氢能科技(四川)有限公司




 蜀道投資集團有限責任會社
四川蜀道裝備科技株式會社



Total fleet mileage: 26 million km

Beijing (FC Plant)

 华丰燃料电池有限公司



 亿华通
SinoHytec

Promoting the Adoption of FC on Major Logistics Routes

GLP 



Strengthening partnerships and product capabilities in the largest FC market, and feeding those learnings back into Japan.

Building a Hydrogen Ecosystem

Developing User-Friendly Hydrogen Stations

Internalizing Equipment Inspection and Maintenance

With expert support, we are gradually shifting inspection and maintenance in-house. Enhanced on-site response capabilities allow minor issues to be resolved internally.

Compressor Maintenance

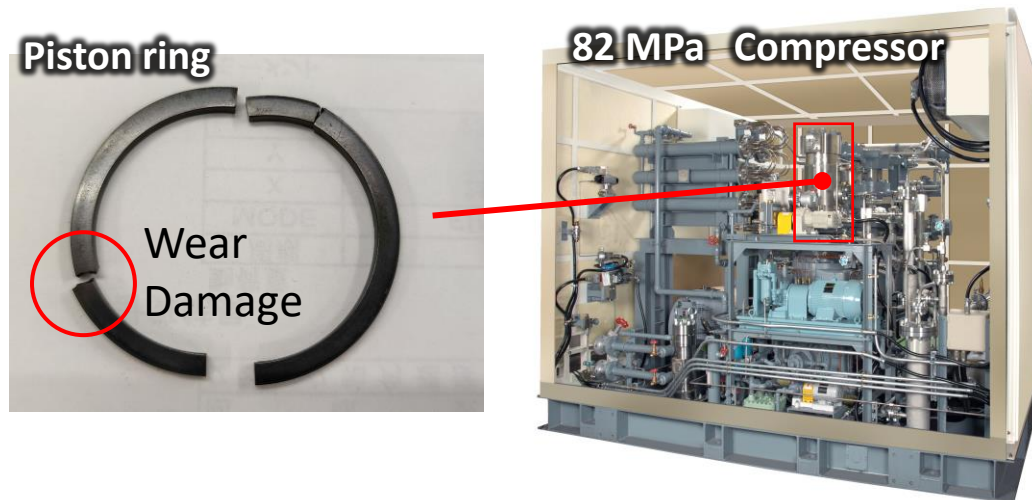


Annual Mandatory Inspections

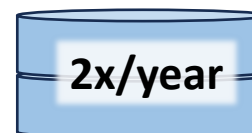


Extending Compressor Lifespan

Field testing and root-cause analysis have led to improved sliding components.



Compressor Maintenance Frequency



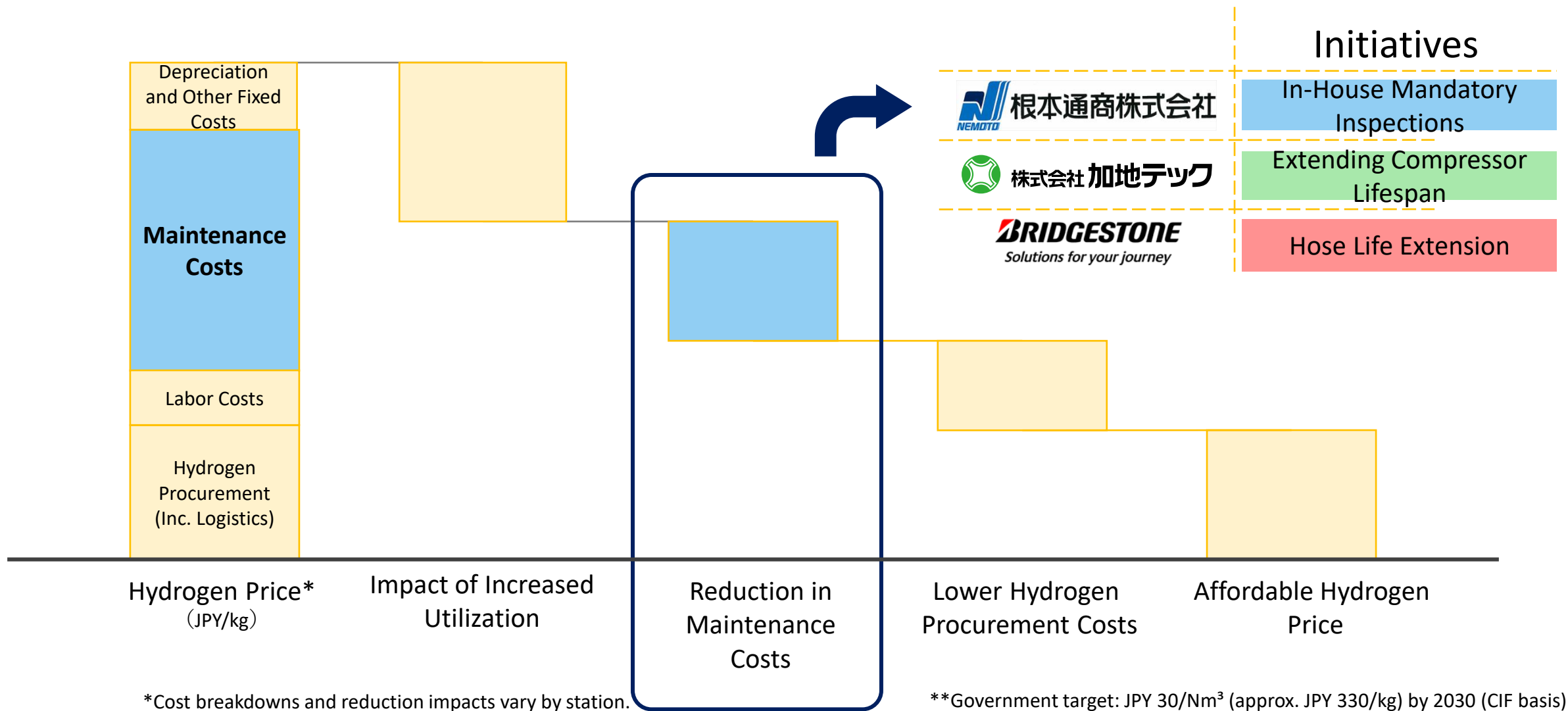
Current



Future

Working with partners to reduce downtime at hydrogen refueling stations.

Reducing Hydrogen Station Operating Costs



Reducing maintenance costs helps lower hydrogen prices.

Building a Hydrogen Ecosystem

Enhancing Hydrogen Production Efficiency

**Joint development of water electrolysis systems with Chiyoda Corporation.
Mass Production to Commence in 2029.**

<Domestic>

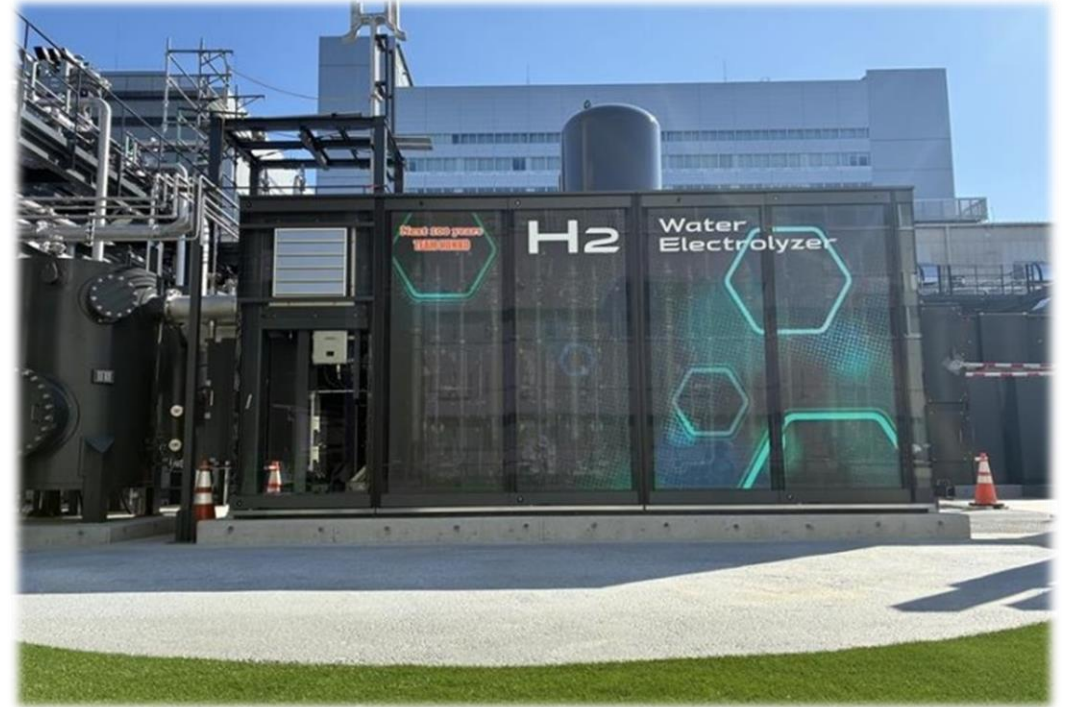
Medium-scale capacity: 5 MW

(H₂ production capacity: 100 kg/hour)

<Overseas>

Large-scale capacity: 20 MW

(H₂ production capacity: 400 kg/hour)



**Enhance hydrogen production capabilities in Japan and
expand deployment overseas.**

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Hydrogen Factory

Let's change the future with hydrogen.

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end uses