



International Partnership
for Hydrogen and Fuel Cells
in the Economy

Japan Update

34th IPHE Steering Committee Meeting
1 – 4 December 2020
Virtual Meeting

Hydrogen Energy Ministerial Meeting Special Event



Hydrogen Ministerial Meeting Special Event was held on October 14th.

- **23** representatives from countries, region and organizations participated in the event.
- Around **2800** people registered, the recorded video was viewed by **10000+** people.

<Achievement>

- Released Global Action Agenda Progress Report
- Announced next Hydrogen Energy Ministerial Meeting will be held in close cooperation with the International Energy Agency.

Examples of Lessons Learned and Impact *Japan*

Program initiative, policy, regulation or mandate	Lessons Learned/Outcomes
Basic Hydrogen Strategy	<ul style="list-style-type: none"> The first national strategy on Hydrogen. Investment will be accelerated by sharing visions with industries.
Strategic Roadmap for Hydrogen and Fuel Cells	<ul style="list-style-type: none"> In order to achieve the goals set in Basic Hydrogen Strategy, detailed targets and action plans have been set by government collaborated with industry.
Strategy for Developing Hydrogen and Fuel-Cell Technologies	<ul style="list-style-type: none"> In order to achieve the goals set in Strategic Roadmap for hydrogen and fuel cell, identified three fields and ten related priority areas for technological development.
De-regulation of HRS	<ul style="list-style-type: none"> Regulations of HRS are being revised for reducing the cost of HRS. Related regulation was revised so that self-service hydrogen refueling stations can be operated under remote monitoring.
Hydrogen Supply Chain Projects 1. Japan – Australia Pilot Project 2. Japan – Brunei Pilot Project	<ul style="list-style-type: none"> Large scale hydrogen projects will be a key to reduce hydrogen cost. Japan-Australia: Pilot demonstration projects are being conducted. Japan-Brunei: Integrated supply chain has been established.
2020 Olympic and Paralympic Games 2025 OSAKA-KANSAI JAPAN EXPO	<ul style="list-style-type: none"> Use these opportunities for hydrogen showcase by looking ahead to 5 years and more. Outreach and education



Japan – Profile December 2020

Status of Deployments

- Fuel Cell Vehicles: 3,947 as of September 2020
- FC Bus: 99 as of October 2020
- Forklifts: 250 as of October 2020
- 70MPa HRS: 135 operational as of October

Leading Government Initiatives/Goals or Focus Areas

- Hydrogen Energy Ministerial Meeting Special Event was held on October 14th, 2020.
- Released **Global Action Agenda Progress Report** that as a summary of progress made since the previous meeting.

Deployment Goals

- Fuel cell vehicles 800,000
- Hydrogen stations 320
- Fuel Cell Buses 1,200

Funding

JPY 75 billion for Hydrogen and fuel cell budget for FY2020



Thank you



International Partnership
for Hydrogen and Fuel Cells
in the Economy

●Hydrogen Ministerial Meeting Special Event was held on October 14th

23 representatives from countries, region and organizations and representatives of companies participated in the event.

At this event, Global Action Agenda (GAA) Progress Report, a report on the progress in the efforts by countries and organizations for GAA, a policy that was announced at the second meeting in 2019 outlining specific actions that countries should take toward achieving a hydrogen-based society. Moreover, it was announced that next Hydrogen Energy Ministerial Meeting will be held in close cooperation with the International Energy Agency.



Mr. Kajiyama Hiroshi, Minister of Economy, Trade and Industry, made a speech.

Status of Applications and Goals *Japan*

Application	Status (As of <i>Month, Year</i>)	Goal (For <i>Year</i>)
1) H₂ Applications		
a. Energy Storage (e.g. MW, GW of capacity)	<i>Insert number</i>	<i>Insert number</i>
b. Electrolyzers (e.g. MW, GW of capacity)	<i>Insert number</i>	<i>Insert number</i>
c. Other (e.g., Steel, Marine, Fertilizer, etc.)	<i>Insert number</i>	<i>Insert number</i>
2) Transportation		
a. Light Duty Vehicles	<i>3,947 as of September 2020</i>	<i>40,000 by 2020</i>
b. Medium and Heavy Duty Vehicles	<i>Insert number</i>	<i>Insert number</i>
c. Buses	<i>99 as of October 2020</i>	<i>100 by 2020</i>
d. Trains	<i>Insert number</i>	<i>Insert number</i>
e. Forklifts	<i>250 as of October 2020</i>	<i>500 by 2020</i>
3) Stationary		
a. Residential	<i>333,704 as of September 2020</i>	<i>5.3M by 2030</i>
b. Commercial	<i>SOFC:8 as of September 2020</i>	<i>Insert number</i>
c. Back Up Power	<i>Insert number</i>	<i>Insert number</i>
<i>4) Other (applicable to your country and not covered in the categories listed above)</i>	<i>Insert number</i>	<i>Insert number</i>

