Strengthening Global Ties Through International Collaboration; The role of JH2A

JAPAN HYDROGEN ASSOCIATION

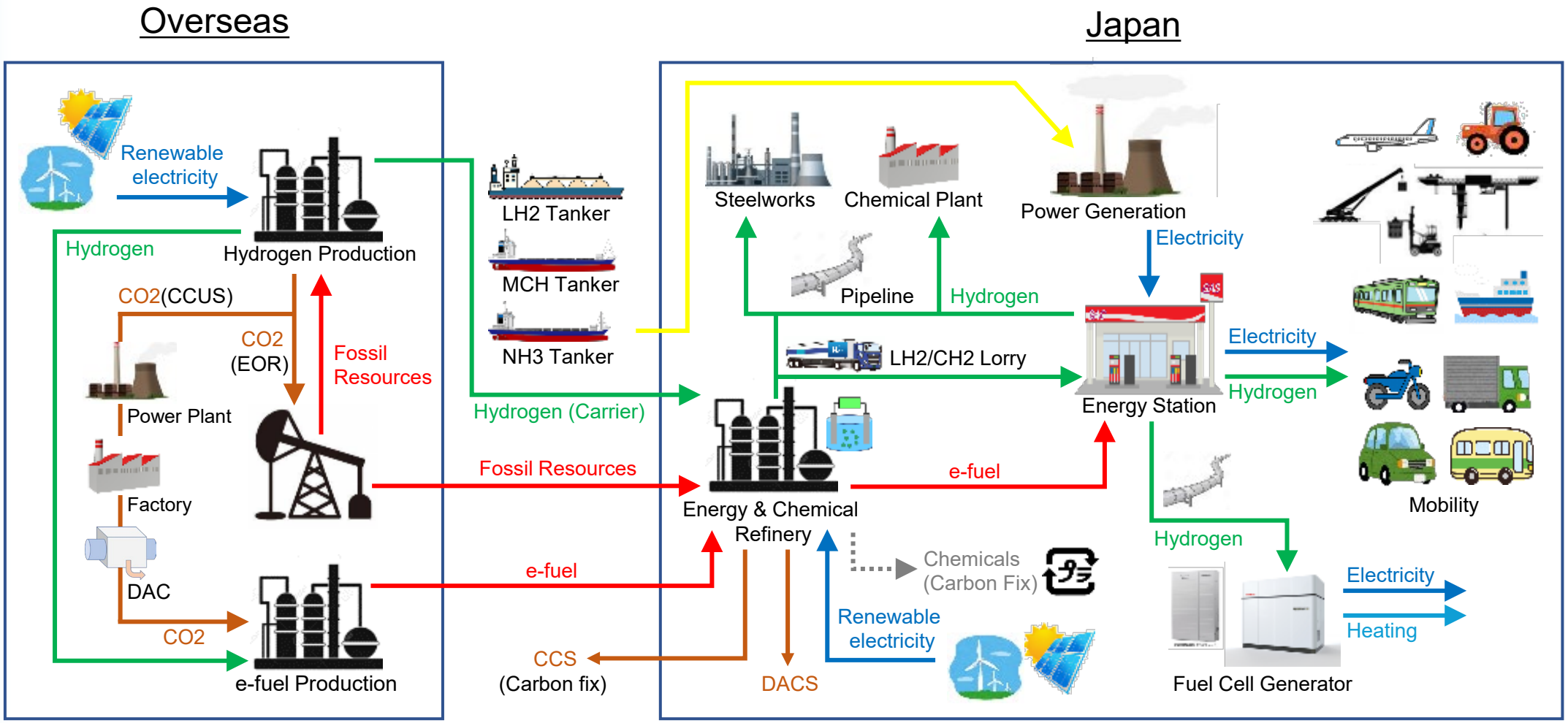
JH2A Basic Info. & Organization Profile

With a membership of ~500 members across Japan, JH2A unites diverse stakeholders to overcome the key challenges facing hydrogen deployment and drive the hydrogen future forward together.

Mission	To accelerate the building of a hydrogen society
Est.	April 2022
Executive Board Members (26 companies)	AsahiKASEI, Iwatani, INPEX, ENEOS, OBAYASHI, Kawasaki, Kansai Electric Power (power with heart), Kubota, KOBELCO, SHIONOGI, Sumitomo Corporation, CHIYODA CORPORATION, J-POWER, TOSHIBA, TOYOTA, TOYOTA TSUSHO CORPORATION, Air Liquide, Panasonic, Marubeni, MS&AD Mitsui Sumitomo Insurance, MITSUBISHI KAKOKI KAISHA, LTD., MITSUBISHI GAS CHEMICAL, SMBC, MITSUI&CO., MUFG Mitsubishi UFJ Financial Group
Members	532 Companies/Organizations (as of April 2026)

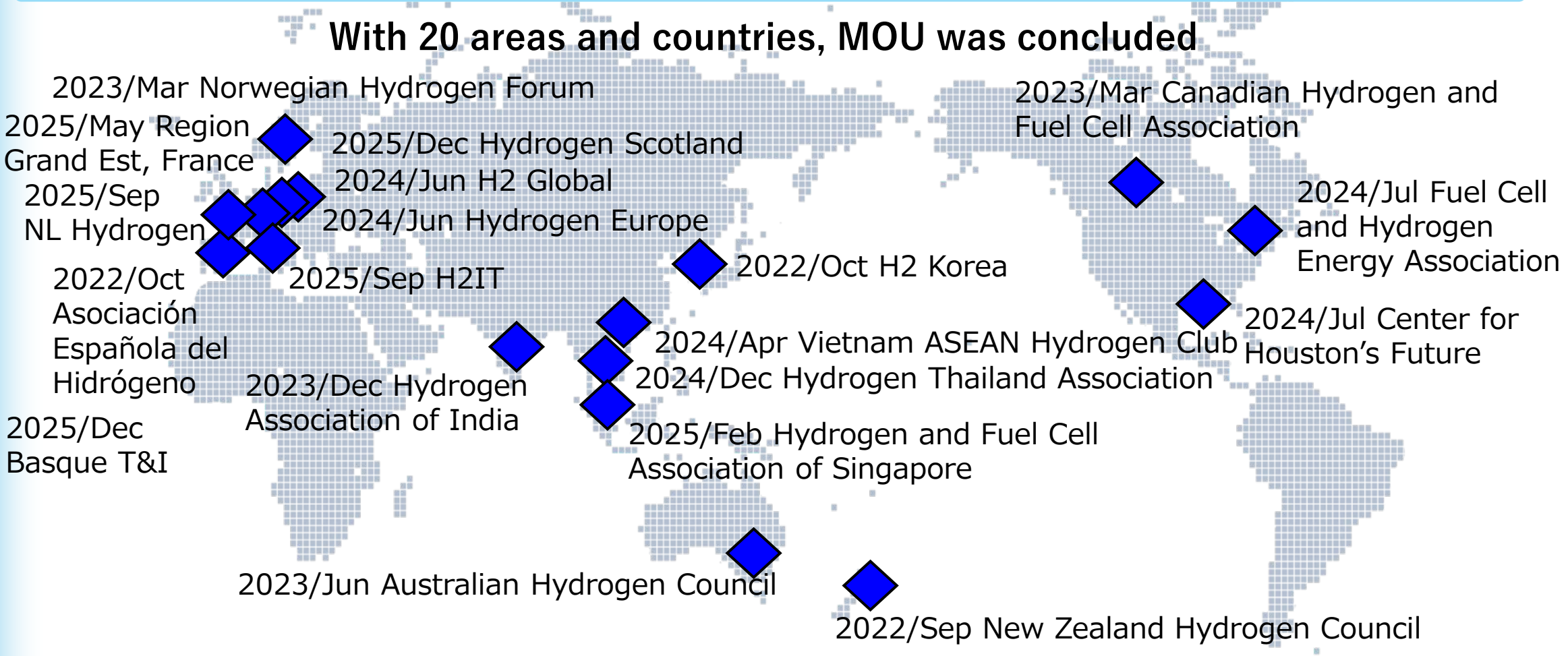
Japanese leading technologies across the Hydrogen VC

More than 500 member companies contribute to the realization of a hydrogen society by utilizing technologies from hydrogen production to its use.



Global Partnerships in Motion

Since its establishment, JH2A has advanced cross-border collaboration by signing strategic MOUs with organizations and entities worldwide.



International Collaboration Initiatives

Building global partnerships and knowledge exchange—linking partners through B2B matching, sharing technology &market insights, and providing updates on Japan’s hydrogen projects and ecosystem.

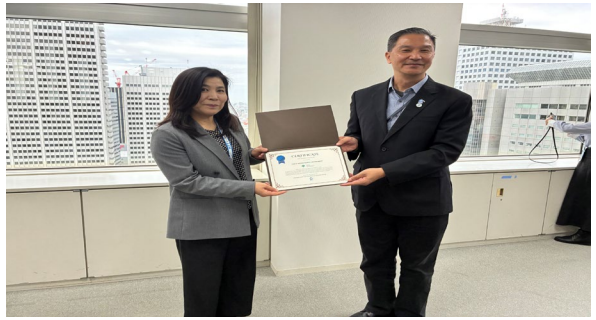
Collaboration event with HFCAS (MOU partner)

Hydrogen utilization site visit

Business Matching Event

Hydrogen Production Facility site visit

Meeting with Tokyo Metropolitan Government



Disclaimer: These activities are illustrative ideas of how JH2A may support international cooperation and do not represent binding commitments of member companies.

International Collaboration Initiatives

CEFIA 1st Hydrogen & Ammonia webinar in May 2025

1. Chiyoda Corporation

CEFIA Flagship:
The Hydrogen & Ammonia Seminar

Chiyoda's Low Carbon Technology and Engineering

26th May 2025

Mitsuharu "Mitch" Kato
Senior Lead, Commercial Strategy
Business Development Section
Hydrogen Business Department

CHIYODA CORPORATION

Distributed Use Demonstration in Singapore

Dehydrogenation Demo Plant Capacity:
Max. raw H_2 production rate of **40** Nm^3/h
Purity of H_2 > 99.97 % (i.e. ISO14687-2(2012) Grade D) with Pressure Swing Adsorption
Approx. one year (24/7) operation
Prime Mover capacity : 30kg-H2/Vehicle

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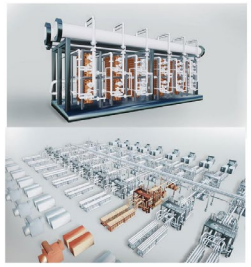
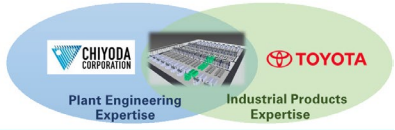
Water Electrolyzer with TOYOTA

February 2024: Signed an MOU with the aim of establishing a strategic partnership for manufacturing, sales, etc. including joint development.



Synergies of Joint Development

i. Supply capacity for the rapidly growing hydrogen market
ii. Resolution of issues with existing technologies and products
iii. Global competitiveness



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2. ENEOS Corporation

ENEOS

ENEOS's Strategic Approach to Hydrogen Society

26th May, 2025
Hydrogen Business Department
Kentaro Yamaguchi

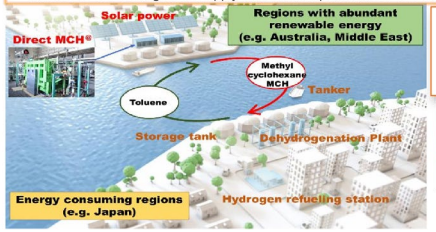
ENEOS Corporation
[E-ne-ohs]

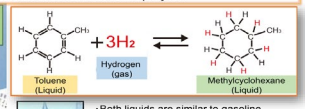
ENEOS Group Japan's Premier Energy and Materials Corporate Group

Hydrogen supply chain using toluene/MCH system

Strategy 1

- Use MCH/Toluene, one of the Liquid Organic Hydrogen Carrier (LOHC), as carrier for hydrogen supply chain.
- Hydrogen can be converted to MCH by toluene hydrogenation process, and hydrogen can be retrieved by MCH dehydrogenation process.
- MCH / toluene are liquid at room temperature, which fit ENEOS's existing refining assets.
- ENEOS is conducting MCH supply chain development as NEDO Green Innovation fund project.





・Both liquids are similar to gasoline
・Existing infrastructure available

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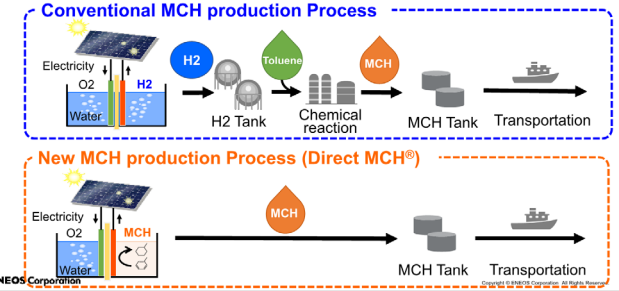
Direct MCH® Process

- Direct MCH® technology helps to reduce CAPEX cost significantly, and it makes operation easier.
- This technology helps to skip Hydrogen Storage and Toluene/MCH chemical reaction process.
- ENEOS is conducting Direct MCH® technology development as NEDO Green Innovation fund project.



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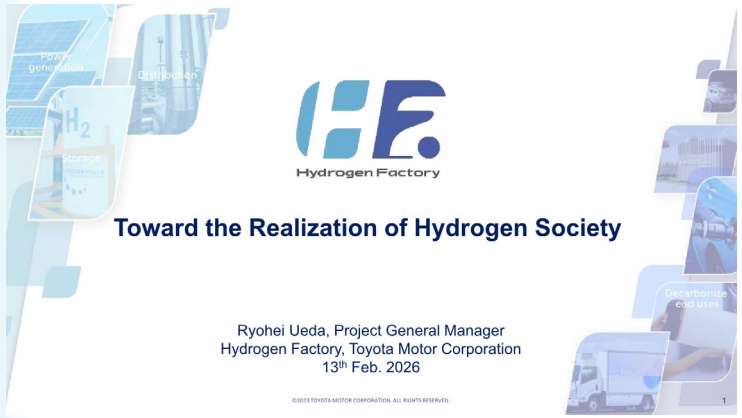
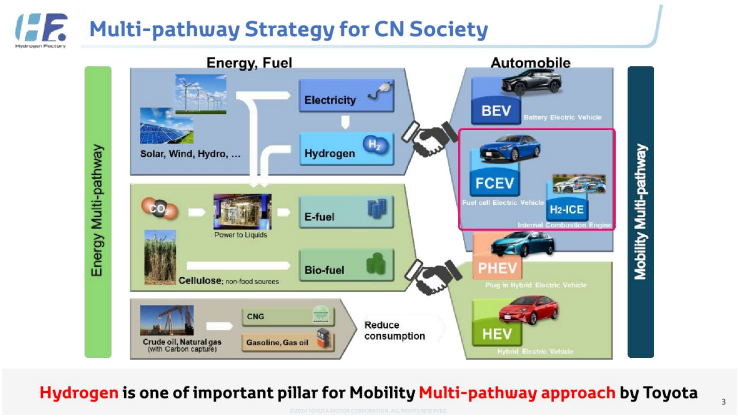
International Collaboration Initiatives

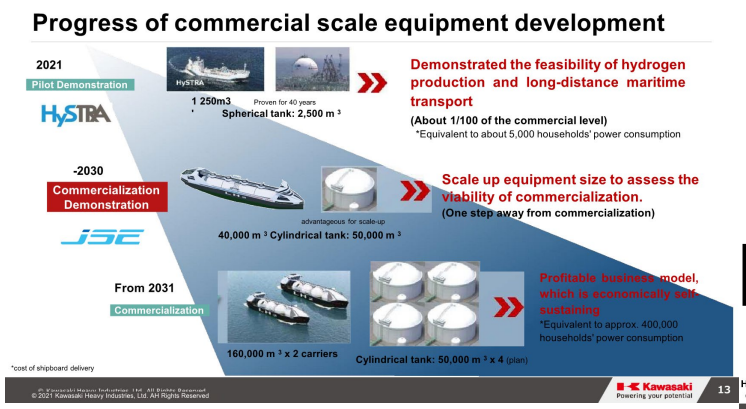
CEFIA 2nd Hydrogen & Ammonia webinar in Feb. 2026

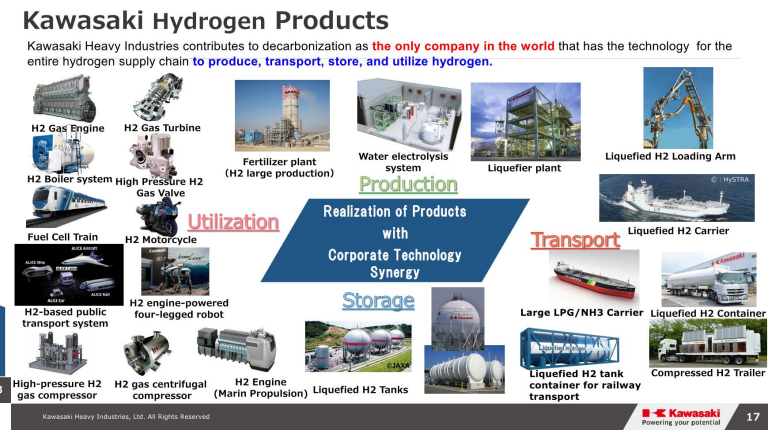
3. Toyota Motor Corporation





4. Kawasaki Heavy Industries





Our commitment to the Hydrogen Future

Globally as well as Japan, hydrogen is not stagnant. International collaboration is essential to expanding hydrogen adoption, particularly across Asia.

Through partnerships with our MOU counterparts—via webinars, business matching events, and site visits in Japan—we aim to deepen mutual understanding and strengthen long-term relationships.

As a leading organization supporting the hydrogen society in Japan, JH2A is fully committed to advancing its realization.

Together with more than 500 member organizations, we will continue moving forward toward a sustainable hydrogen society.

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