

Mar 30, 2020

## **Chiyoda Corporation agree MOU with Singaporean companies toward a sustainable hydrogen economy in Singapore**

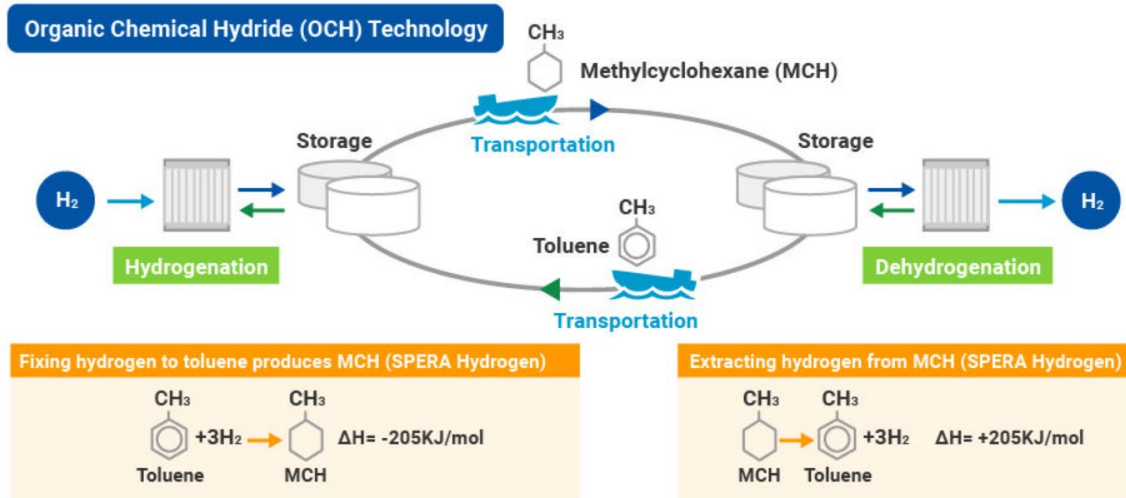
On 30 March 2020, Chiyoda Corporation is pleased to announce that it has entered into an MOU with 5 Singaporean companies, City Gas Pte Ltd, Jurong Port Pte Ltd, PSA International Pte Ltd, Sembcorp Industries Ltd, Singapore LNG Corporation Pte Ltd, together with Mitsubishi Corporation, under the witness of Singapore government, to collaborate toward a sustainable hydrogen economy in Singapore.

Singapore's government has announced its Long-Term Low-Emissions Development Strategy (LEDS), which aspires to halve emissions from 2030 peak, to 33 Million tonnes of carbon dioxide equivalent by 2050, with a view to achieving net-zero emissions as soon as viable in the second half of the century. One of the key thrust to realise the LEDS is drawing on emerging low-carbon technologies, such as low-carbon hydrogen. This also forms a key switch in the Singapore's Energy Story towards a clean, affordable and more reliable energy future.

Chiyoda's hydrogen storage and transportation technology (hereinafter referred to as "SPERA Hydrogen") could play an important role. Parties, which have strong interests and would like to contribute to the idea, have been invited to discuss the commercial and technical opportunities to utilize SPERA Hydrogen from October 2019.

Working closely with Chiyoda, a key technology and supply chain solution partner, the companies will identify and demonstrate use cases using Chiyoda's SPERA Hydrogen, Liquid Organic Hydrogen Carrier (LOHC) technology to allow hydrogen to be safely transported in chemical tankers at normal atmospheric temperature and pressure. Mitsubishi will support this development as the main shareholder of Chiyoda. The five local companies will collaborate closely with these two key partners to evaluate the technical and commercial feasibility of hydrogen usage, to develop business for hydrogen import and utilization in Singapore.

<Chiyoda's SPERA Hydrogen>



<Reference Information>

1. About Chiyoda Corporation

Headquarters: 4-6-2, Minatomirai, Nishi-ku, Yokohama, Japan

Established: 1948

Main Business: Integrated engineering business including consulting, planning, engineering, procurement, construction, commissioning and maintenance for facilities related to gas, electricity, petroleum, petrochemical, chemical, pharmaceutical, antipollution, environment, preservation, and other services. Exploration of oil, gas and other mineral resources, and investment and financing to such exploration activities.

Representative: Kazushi Okawa, Chairman of the Board & CEO

2. About Mitsubishi Corporation

Headquarters: 3-1 Marunouchi 2-Chome, Chiyoda-ku, Tokyo, Japan

Established: 1954

Main Business: MC is a global integrated business enterprise that is comprised of 10

Business Groups: Natural Gas, Industrial Materials, Petroleum & Chemicals, Mineral Resources, Industrial Infrastructure, Automotive & Mobility, Food Industry, Consumer Industry, Power Solution, and Urban Development.

Representative: Takehiko Kakiuchi, President and CEO

3. About City Gas

Headquarters: 26 Senoko Avenue, Singapore 758312, Singapore

Established: 1861

Main Business: Production of town gas distributed island-wide to residents and commercial and industrial customers

Representative: Tan Chuan Huat Kenny, Chief Executive Officer

#### 4. About Jurong Port

Headquarters: 37 Jurong Port Road, Singapore 619110, Singapore

Established: 1965

Main Business: Jurong Port is a world-class multipurpose port operator serving as Singapore's premier gateway for general and bulk cargo.

Representative: Ooi Boon Hoe, Director and Chief Executive Officer

#### 5. About PSA Corporation Limited

Headquarters: SEAO, 1 Harbour Drive, #17-01, Singapore 117352, Singapore

Established: 1863

Main Business: PSA is a leading global port group and a trusted partner to cargo stakeholders around the world.

Representative: Ong Kim Pong, Regional CEO Southeast Asia

#### 6. About Sembcorp Industries

Headquarters: 30 Hill Street, #05-04, Singapore 179360, Singapore

Established: 1962

Main Business: Sembcorp Industries is a leading energy, marine and urban development group, operating across multiple markets worldwide.

Representative: Neil McGregor, Group President & CEO

#### 7. About Singapore LNG Corporation

Headquarters: 991G Alexandra Road, #03-29C Singapore 119975

Established: 2009

Main Business: SLNGs main business model is one of providing terminal services to the LNG Aggregators and their end users.

Representative: Tang Kin Fei, Chairman of Singapore LNG Corporation Pte Ltd

[Please refer to this file for joint press release by 7 companies](#)

For more information, please contact:

Chiyoda Corporation

IR, PR & CSR Department

URL: <https://www.chiyodacorp.com/en/contact/index.php>