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PRESS RELEASE

15 November 2021

Award of a Grant for a 'Feasibility Study on the Construction of a Hydrogen Supply Chain using SPERA Hydrogen™' as part of METI's 'Feasibility Studies for the Overseas Deployment of High-quality Energy Infrastructure'

Chiyoda Corporation (Chiyoda) is pleased to announce that the Ministry of Economy, Trade and Industry (METI) has selected Chiyoda and Mitsubishi Corporation (Mitsubishi) to conduct a 'Feasibility Study on the Construction of a Hydrogen Supply Chain using SPERA Hydrogen', jointly proposed by Chiyoda and Mitsubishi, as part of their 'Feasibility Studies for the Overseas Deployment of High-quality Energy Infrastructure'.

The research project aims to scale-up the hydrogen supply chain and reduce prices through increased hydrogen demand in Singapore, Japan etc. Chiyoda and Mitsubishi will primarily evaluate the economic efficiencies of transporting hydrogen from supply to demand countries and verify hydrogen related technologies and legal systems. We will also construct an initial hydrogen supply chain model with partners in hydrogen supply and demand countries to identify issues and perform detailed verifications.

SPERA Hydrogen technology enables efficient hydrogen storage and transportation using MCH[*1] as a hydrogen carrier and Chiyoda's proprietary dehydrogenation catalysts. MCH is a chemically stable liquid at ambient temperature and pressure, is easy to manage and maximizes the advantages of using existing petrochemical infrastructure and international regulations and standards.

The project will facilitate the early construction of a competitive commercial-scale hydrogen supply chain utilizing SPERA hydrogen, thus contributing to realizing the world's carbon-neutral ambitions.

[*1] methylcyclohexane
A liquid produced from toluene and hydrogen that can be handled in a liquid state at ambient temperature and pressure. It is widely used as a pharmaceutical agent, solvent for agrichemical production, an admixture for jet-fuel and as a solvent in correction liquid etc.

<Reference Information>

1. About Chiyoda

I. Headquarters: 4-6-2, Minatomirai, Nishi-ku, Yohohama, Japan
II. Main Business: Integrated engineering including consulting, planning, engineering, procurement, construction, commissioning and maintenance of facilities related to gas, electricity, petroleum, petrochemical, chemical, pharmaceutical, antipollution, environment, preservation and other services. Mineral resource exploration and investment, including oil and gas.
III. Representative: Mr. Masaji Santo, President & COO

2. About Mitsubishi Corporation

I. Headquarters: 3-1 Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan
II. Main Business: Globally integrated enterprise comprised of ten (10) Business Groups: Natural Gas, Industrial Materials, Petroleum & Chemicals Solutions, Mineral Resources, Industrial Infrastructure, Automotive & Mobility, Food Industry, Consumer Industry, Power Solutions and Urban Development
III. Representative: Mr. Takehiko Kakiuchi, President & CEO

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