



August 30, 2023

Launch of joint study on establishment of hydrogen and ammonia supply chain based in the Osaka coastal industrial zone

Mitsui & Co., Ltd.
Mitsui Chemicals, Inc.
IHI Corporation
The Kansai Electric Power Co., Inc.

Mitsui & Co., Ltd. ("Mitsui"), Mitsui Chemicals, Inc. ("Mitsui Chemicals"), IHI Corporation ("IHI"), and The Kansai Electric Power Co., Inc. ("Kansai") today signed a Memorandum of Understanding ("MOU") regarding a joint study to establish a hydrogen* and ammonia supply chain based in the Osaka coastal industrial zone.

Hydrogen and ammonia are energy sources that can be used to achieve carbon neutrality, as they do not emit CO₂ during combustion.

Given that the technologies for production, transportation, and storage of ammonia for fertilizer and industrial applications have already been established, ammonia is expected to be utilized across a wide range of fields, including as a fuel for power generation, and for heat generation in the industrial sector.

Based on the MOU, the four companies will study the development of bases for receiving, storing, and supplying ammonia in the Osaka coastal industrial zone, and conduct surveys to expand the use of ammonia in the Kansai and Setouchi regions.

Discussions have already begun with Kobe Steel, Ltd., which is a potential candidate that could benefit from the utilization of ammonia as it has announced a commitment to achieving carbon neutrality in the electric power business.

Through this initiative, Mitsui, which holds the top share of ammonia imports to Japan, Mitsui Chemicals, which owns chemical plants in the Sakai-Senboku Coastal Industrial Zone of Osaka, IHI, which is building a value chain with its extensive ammonia-related technologies, and Kansai, which operates energy businesses in the Kansai region, will combine their experience and knowledge to contribute to the realization of a zero carbon society.

*Hydrogen that is extracted via ammonia cracking.

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[REFERENCE MATERIALS—company overviews]

Outline of Mitsui & Co., Ltd. (As of March 31, 2023)

Company name	MITSUI & CO., LTD.
Head Office	2-1, Otemachi 1-chome, Chiyoda-ku, Tokyo, Japan
Representative	Kenichi Hori, President and Chief Executive Officer
Major Business Areas	Utilizing our global operating locations, network and information resources, we are multilaterally pursuing business that ranges from product sales, worldwide logistics and financing, through to the development of major international infrastructure and other projects in the following segments: Mineral & Metal Resources, Energy, Machinery & Infrastructure, Chemicals, Iron & Steel Products, Lifestyle, Innovation & Corporate Development.
Common Stock	¥342.6 billion
Date of Establishment	July 25, 1947
Number of Employees	5,449 (Consolidated employees: 46,811)

Outline of Mitsui Chemicals, Inc. (As of March 31, 2023)

Company name	Mitsui Chemicals, Inc.
Head Office	2-2-1 Yaesu, Chuo-ku, Tokyo, Japan
Representative	Osamu Hashimoto
Major Business Areas	Manufacturing and sales in the areas of Life & Healthcare Solutions, Mobility Solutions, ICT Solutions, Basic & Green Materials, and other services related to each business area.
Paid-in Capital	¥125.6 billion
Date of Establishment	July 1, 1955
Number of Employees	18,933 (consolidated)

Outline of IHI Corporation (As of March 31, 2023)

Company name	IHI Corporation
Head Office	1-1, Toyosu 3-chome, Koto-ku, Tokyo, Japan
Representative	Hiroshi Ide
Major Business Areas	Manufacturing, sales, and provision of services in the following four main business areas: Resources, Energy & Environment Business Area, Social Infrastructure Business Area, Industrial Systems & General Purpose Machinery Business Area, and the Aero Engine, Space & Defense Business Area
Capital	¥107.1 billion
Date of	January 17, 1889

Establishment	
Number of Employees	28,486 (consolidated)

Outline of Kansai Electric Power Co., Inc. (As of March 31, 2023)

Company name	The Kansai Electric Power Company, Incorporated
Head Office	3-6-16 Nakanoshima, Kita-ku, Osaka, Japan
Representative	Nozomu Mori
Major Business Areas	Electric power, heat supply, telecommunications, gas supply
Paid-in Capital	¥489.3 billion
Date of Establishment	May 1, 1951
Number of Employees	8,474 (31,628 in entire group)