

November 12, 2021  
Kaji Technology Corporation

Kaji Technology Corporation Reaches Basic Agreement with  
the Dare Group of China and the Mitsui & Co. Group Concerning  
a Feasibility Study for Hydrogen Compressors in the Chinese Market

Kaji Technology Corporation (“Kaji”, Head Office: Sakai City, Osaka Prefecture, Representative Director and President: Hiroshi Suzuki) has reached a basic agreement with Shanghai Dare Industrial Group Co., Ltd. (“Dare Group”, President: Li Yi), Mitsui Plastics Trading Shanghai Co., Ltd. (“Mitsui Plastics Shanghai”, President: Jun Hiyama), and Mitsui & Co. Plastics Ltd. (“Mitsui & Co. Plastics”, Representative Director & President: Katsunori Mori), both members of the Mitsui & Co. group, concerning the conclusion of a partnership agreement in relation to market research and a business feasibility study to be conducted jointly by the four companies. The purpose of the initiative is to develop a business, based on hydrogen compressors manufactured by Kaji, in China, which is moving toward the creation of a decarbonized society as signified by the construction of hydrogen fueling stations and the increasing use of fuel cell vehicles at a speed unequalled anywhere else in the world.

Hydrogen compressors are essential devices for the creation of a carbon-neutral society. As Japan’s leading manufacturer of hydrogen compressors, Kaji combines an extensive sales track record with advanced technology. It aims to use this expertise in collaboration with the Dare Group, which is a Tier I manufacturer and supplier of pumps, electric motors, and other parts for commercial buses and trucks, to start up a vertically integrated hydrogen compressor business based on the use of the Dare Group’s nationwide network of sales bases, and to establish a market presence in China, which is the world’s biggest producer of hydrogen. As a first step, Kaji will start selling hydrogen compressors for use within the Dare Group to supply hydrogen used to refuel the fuel cells in forklifts.

Kaji develops, manufactures, and sells a wide range of products for use in the hydrogen supply chain, including hydrogen production and shipment, power generation, and forklift refueling, as well as for the hydrogen mobility domain. A

major advantage of Kaji is its ability to meet the needs of a wide variety of customers, as evidenced by its extensive track record as a supplier of products ranging from low-pressure devices (0.5–0.7 MPa) to ultra-high-pressure systems (82 MPa). Its flagship products are high-pressure and ultra-high-pressure compressors for hydrogen and other gases. Successes made possible by its advanced technology include the development of an air-cooled oil-less compressor capable of compressing hydrogen gas up to 110 MPa. Since its founding in 1905, it has earned an excellent reputation among users in a range of industries, including oil, petrochemicals, and gas, and as an integrated engineering manufacturer focused on the development of compressors.

The Dare Group has a business relationship with Mitsui & Co. Plastics, and through the group's core company, Dare Auto (listed on the Shenzhen Stock Exchange), the Dare Group manufactures and supplies automotive parts, including pumps, electric motors, automotive electronic parts, and vehicle-mounted sensors. In recent years, it has positioned the new energy vehicles business as a new core business, which spans from the development, manufacture, and sales of fuel cell systems for fuel cell vehicles, to the development of fully solid-state batteries. As a development-driven Tier I manufacturer, it has established manufacturing, sales, and R&D operation bases around the world.

Mitsui & Co., Ltd. has been actively engaged in the development of hydrogen-related business, especially in the mobility domain, and already invested in the Norwegian company Hexagon Composites, which is the world's biggest manufacturer of low-weight, high-pressure cylinders, and the American company FirstElement Fuel, which is building a hydrogen station business in California. As members of the Mitsui & Co. group, Mitsui & Co. Plastics and Mitsui Plastics Shanghai are working with Mitsui & Co., Ltd., in the prioritized area of the hydrogen infrastructure business, including hydrogen compression and storage equipment, for the realization of a decarbonized society.

Hydrogen compressors are essential devices for the production of hydrogen through electrolysis, as well as for hydrogen transportation, and will play a key role in efforts to accelerate China's rapid transition to a decarbonized hydrogen-based society. The four companies decided to form a partnership because of their shared commitment to the achievement of zero emissions in China through the

creation of a new business based on collaboration between Kaji, as Japan's top manufacturer of hydrogen compressors, and the Dare Group, as a Tier I manufacturer in China.

Kaji has previously been involved in the hydrogen energy business mainly in the Japanese market. However, the four-company agreement will enable it to contribute to the realization of a hydrogen-based society by accelerating the expansion of its compressor business into China, as a starter, as well as in other overseas markets.



Left: Hiroshi Suzuki, Representative Director and President of Kaji, Right: Katsunori Mori, Representative Director & President of Mitsui & Co. Plastics



Left: Hiroshi Suzuki, Representative Director and President of Kaji, Right: Katsunori Mori, Representative Director & President of Mitsui & Co. Plastics



Hiroshi Suzuki (left) and Katsunori Mori (right front) look at a compressor.



Online Signing Ceremony

(from left to Right) Katsunori Mori, Jun Hiyama, Li Yi and Hiroshi Suzuki



A hydrogen station compressor for charging fuel cells in forklifts

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