

Press Release | February 28, 2024

Kawasaki Heavy Industries and Symbio Sign Memorandum of Understanding on Joint Development of Fuel Cell Systems

Tokyo (Japan) / Saint-Fons (France) – **Kawasaki Heavy Industries (Kawasaki) and Symbio concluded a Memorandum of Understanding (MOU) on the joint development of fuel cell systems for mobilities including construction machinery.**

Through this MOU, Kawasaki and Symbio aim to integrate and leverage Kawasaki's network in construction machinery and its development & manufacturing experience for high-pressure hydrogen gas valves with Symbio's expertise in fuel cell technology for automobiles. Both companies will explore the application of fuel cell systems to mobilities including construction machinery solutions planned by potential customers. The extensive experience and technology of both leverages to further advance the development of more efficient low-carbon fuel cell systems.

Kawasaki's hydraulic products for construction machinery have been adopted by numerous construction machine manufacturers since the development and delivery of hydraulic equipment for the first domestic hydraulic excavator in the 1960s. Kawasaki has also developed high-pressure hydrogen gas valves for fuel cell vehicles, mass-producing them for industrial vehicles and major overseas automakers.

Symbio is a leading company in hydrogen fuel cell systems for commercial light duty, medium and heavy-duty vehicles supplied to major automotive OEMs and other mobility applications. The group enjoys over 30 years of experience in fuel cell system development and a solid track record of more than 8 million kilometers driven by its solutions.

Through this MOU, Kawasaki and Symbio will further accelerate their hydrogen business initiatives and contribute to the achievement of global carbon neutrality goals and global decarbonization, giving the world a sustainable future.

About Kawasaki Heavy Industries

Kawasaki Heavy Industries, Ltd. is general engineering manufacturer with over 125 years of experience manufacturing products spanning land, sea and air.

Kawasaki established the Kawasaki Group's new vision statement, "Group Vision 2030: Trustworthy Solutions for the Future," and is focusing on three fields, "A Safe and Secure Remotely-Connected Society," "Near-Future Mobility," and "Energy and Environmental Solutions" in order to provide solutions for social issues. For "Energy and Environmental Solutions" in particular, by securing the technology necessary for the entire supply chain (for production, transportation, storage and utilization) ahead of the rest of the world, Kawasaki aims to bring about a society that utilizes hydrogen, the ultimate clean energy that emits no carbon dioxide when used.

To learn more, visit <https://global.kawasaki.com/en/>

About Symbio

Symbio is a leading technology and industrial partner for sustainable mobility pioneers. A front-runner in zero-emission hydrogen mobility, Symbio combines industrial leadership, breakthrough innovation, and entrepreneurial agility to create tailor-made solutions and support its clients in the deployment of their clean mobility roadmaps. Symbio designs and manufactures a wide range of StackPacks (pre-

integrated and pre-validated fuel cell systems) that meet all power, durability, and autonomy needs of on-road and off-road hydrogen mobility.

In 2023, Symbio inaugurated SymphonHy, the largest integrated fuel cells Gigafactory in Europe, with a capacity of 50,000 fuel cell systems per year. The Group ambitions to manufacture 200,000 StackPacks annually by 2030 to accelerate the deployment of clean mobility that is respectful of both the environment and health.

An equally-owned joint venture between Forvia, Michelin, and Stellantis, Symbio combines 30 years' experience, and has a track record of more than 8 million kilometers driven by its solutions. To learn more, visit www.symbio.one.