

Canada–Japan Collaboration Launched to Explore Liquefied Hydrogen Supply Chain

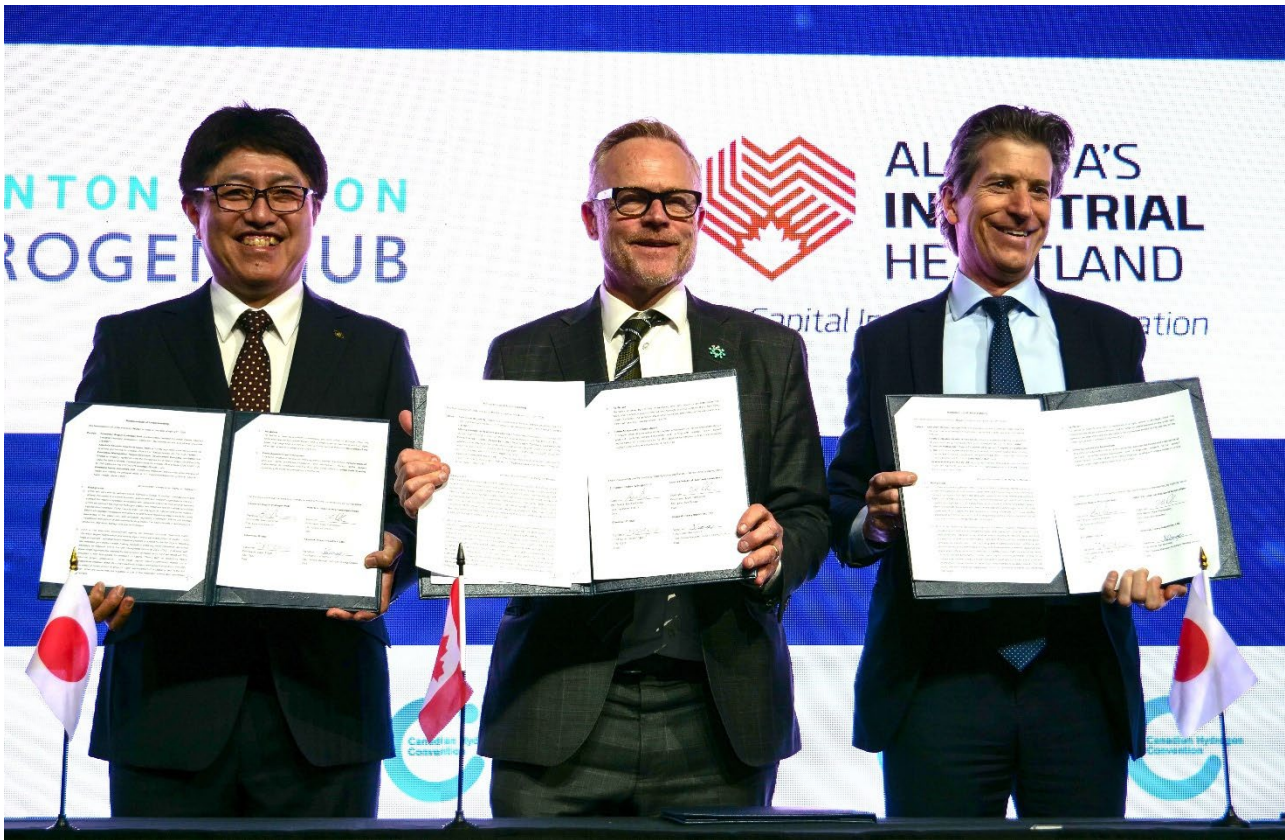
Edmonton, 21 April 2026 | Edmonton Region Hydrogen Hub (ERHH), Alberta's Industrial Heartland Association (AIHA), Edmonton Global, and Kawasaki Heavy Industries, Ltd. (KHI) have signed a Memorandum of Understanding (MOU) at the international exhibition "Canadian Hydrogen Convention 2026" held in Edmonton, Canada, to explore the potential for building a liquefied hydrogen supply chain.

This partnership aims to investigate the feasibility of establishing both international and domestic liquefied hydrogen supply chains in Canada, and to seek collaboration with potential stakeholders in this field.

Through this collaboration, the feasibility of exporting liquefied hydrogen from Canada—a hydrogen-producing country—to hydrogen-importing countries including Japan is expected to increase. At the same time, the partnership is anticipated to enhance Canada's role as a hub for sustainable energy logistics, while strengthening energy security on the demand-side in hydrogen-importing countries.

The Edmonton region is home to Canada's largest hydrogen production cluster with the world's largest low carbon hydrogen production facilities currently under construction. The region's access to low-cost feedstock such as natural gas, combined with a proven track record in CO₂ capture and storage and commercial-scale low carbon hydrogen production make the region a potential safe and secure provider of hydrogen to international markets such as Japan. Canada's Hydrogen Strategy and the Government of Alberta's Hydrogen Roadmap highlight the region's potential for hydrogen exports, and liquid hydrogen provides an important pathway for further investigation. Under the MOU, technologies for the transport of liquid hydrogen by rail and ship will be explored.

The four parties will proceed with studies on the development of a liquefied hydrogen supply chain in Canada, and will actively promote participation by other companies, research institutions, and government/public organizations, with a view to forming a consortium that covers the entire hydrogen value chain from production, transportation, storage, to utilization.



Edmonton Region Hydrogen Hub

This MOU with Kawasaki Heavy Industries reflects the Edmonton Region Hydrogen Hub's role in connecting partners across the hydrogen value chain and advancing real, market focused opportunities for hydrogen adoption. The Edmonton region's ability to attract the attention of global companies like KHI is a demonstration of our collaborative ecosystem, industrial leadership, and long standing expertise in clean energy. We are pleased to continue this strong partnership with KHI as we work together to drive momentum in our hydrogen economy.

Brent Lakeman, Executive Director, Edmonton Region Hydrogen Hub

Alberta's Industrial Heartland Association

Alberta's Industrial Heartland (AIH) is Canada's largest hydrocarbon processing region and Canada's most advanced carbon sequestration hub—with more than \$50 billion in existing capital investment—the Heartland offers the scale, low-cost feedstock, infrastructure, and carbon management capabilities required for competitive, low carbon hydrogen production. This MOU reflects AIHA's readiness to work with global companies to advance heavy industrial developments in AIH and to support internationally integrated hydrogen supply chains for the advancement of global decarbonization efforts.

Mark Plamondon, Executive Director, AIHA

Edmonton Global

This collaboration sends a strong message that the Edmonton region is ready to play a leading role in the global energy transition. By bringing together international expertise with regional strengths, we are laying the groundwork for future clean energy investments that connect Canadian innovation and production with growing demand in Asian markets. This type of partnership is exactly what's needed to build resilient, globally integrated hydrogen value chains.

Daryn Edgar, CEO, Edmonton Global

Kawasaki Heavy Industries

Liquefied hydrogen is a key to realizing a sustainable energy society, and we have been working for many years to build the technological foundation for it. We are delighted to be able to explore the feasibility of constructing a liquefied hydrogen supply chain starting from Canada together with ERHH, AIHA, and Edmonton Global through this MOU.

Kawasaki Heavy Industries possesses technologies and experience in the production, storage, transportation, and receiving of liquefied hydrogen, and will contribute to the formation of a liquefied hydrogen supply chain in Canada by leveraging our accumulated expertise. We will continue to promote the expansion of liquefied hydrogen utilization through global partnerships to accelerate the transition to a decarbonized society.

Kei Nomura, Executive Officer, General Manager, Hydrogen Strategy Division, Kawasaki Heavy Industries, Ltd.