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Media release

Asia Pacific ports advance cross-sector hydrogen and e-fuel readiness

- Accelleron report shows Asia Pacific emerging as a proving ground for a cross-sector approach to the energy transition that increases the investment pool to stimulate e-fuel market development
- Ports are aligning energy, industry, and shipping demand in line with national decarbonization and energy security plans which include green hydrogen and e-fuels
- Cross-sector planning enables first steps in production and infrastructure, even as maritime demand and incentives remain limited

Baden, Switzerland, 30 April 2026 – Accelleron, a global technology leader in turbocharging, fuel injection, and digital solutions in the marine and energy industries, today highlights how Asia Pacific ports are building early foundations for green hydrogen-based e-fuel markets through coordinated cross-sector action. This momentum is being driven not only by decarbonization, but also by a focus on long-term energy security across the region.

The ships are ready, the fuels are missing. While vessel technology has advanced rapidly and dual-fuel ships capable of running on methanol and ammonia are setting sail, fuel production remains very slow, due to fragmented demand, high upfront costs, and the scale of infrastructure required.

“Where e-fuel projects succeed, energy and multiple hard-to-abate industries move together. Combining demand creates contracts large enough to start building, shares risk so projects become insurable, and allows developers to build infrastructure once instead of duplicating it,” says President of the Medium and Low-Speed Division at Accelleron, Christoph Rofka. “Ports can anchor that process by planning and developing bunkering infrastructure to supply inland power generation and industrial demand first, preparing the way for future maritime uptake.”

Accelleron’s report Asia Pacific as the proving ground for overcoming shipping’s carbon-neutral fuel deadlocks shows early green hydrogen and e-fuel projects advancing across major ports, including Singapore, Yokohama, Busan, and Shanghai. These pilots are being driven by national hydrogen and e-fuel strategies linked to industrial decarbonization and energy security objectives, rather than shipping demand alone.

Across the region, ports are advancing ammonia and methanol projects, developing safety frameworks, strengthening fuel-handling capabilities, and building operational readiness. At the same time, early hydrogen and e-fuel production is moving forward through cross-sector offtake in land-based industries such as power generation, chemicals, and heavy industry. This broader

 demand base allows fuel systems, infrastructure, and standards to develop ahead of anticipated larger-scale maritime uptake.

The research shows the outline of an early e-fuel market emerging in Asia Pacific, with ports taking on complementary roles based on their resource bases, industrial structures, and geographies. A supply-demand dynamic architecture for hydrogen and e-fuels is forming, with ports leveraging their strengths to serve as either producers, connectors, receivers, or export sources.

In addition, high-volume trade corridors like the Australia–Singapore–China iron ore route, are emerging as practical pathways for early fuel deployment, aligning industrial demand (iron ore conversion with hydrogen), maritime traffic, and port readiness. The research also highlights the Singapore–Rotterdam route as a developing link between Asia Pacific's emerging e-fuel system and European demand centers.

The Port of Yokohama illustrates how national policy, local government coordination, and industry collaboration are realizing this public-private cross-sector approach in practice. As one of Japan's designated Carbon Neutral Ports under the program led by the Ministry of Land, Infrastructure, Transport and Tourism, Yokohama is aligning port development with nearby industrial demand and the national energy strategy.

The Port of Yokohama's roadmap comprises 145 public-private partnership projects covering fuel-handling systems, hydrogen, ammonia, and methanol supply chains, as well as a robust program of port-area decarbonization, including shore power, electrified equipment, and financing mechanisms. It is also coordinating closely with neighboring Kawasaki City to align regional fuel supply planning and industrial energy demand.

"To achieve decarbonization in international shipping and logistics, and in heavy industries such as power generation, steelmaking, and chemicals, Japan's Ministry of Land, Infrastructure, Transport and Tourism has launched the Carbon Neutral Port initiative, which aims to broadly decarbonize port areas, where all of these converge," says Director for Carbon Neutral Port Promotion, Port and Harbor Bureau, City of Yokohama, Hitoshi Nakamura.

"Public support is critical to enabling early development, especially when we are working across multiple sectors. Through the Yokohama Port CNP Sustainable Finance Framework, we have made it easier for companies to access green loans and other financing, and in a short time have launched 145 projects spanning port decarbonization, fuel-related infrastructure, and supply chains. We see that this structured, public-private, cross-sector approach is effective in accelerating infrastructure and market development, and we are seeing very promising progress toward the goals of the CNP initiative."

Download the full report: Accelerating to Net Zero: Asia Pacific as the proving ground for overcoming shipping's carbon neutral fuel deadlocks?

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Port of Yokohama
As a designated Carbon Neutral Port under Japan's national program, Yokohama is advancing decarbonization through coordinated infrastructure development, industrial alignment, and hydrogen and e-fuel readiness initiatives.

Accelleron Industries Ltd (ACLN: SIX Swiss Ex) is accelerating sustainability in the marine and energy industries as a global technology leader in turbocharging, fuel injection, and digital solutions for heavy-duty applications. Building on a heritage of over 100 years as a trusted industry partner, the company serves customers in more than 100 locations in over 50 countries. Accelleron's more than 3,200 employees are continuously innovating to deliver best-in-class products, services, and solutions that are mission-critical for the energy transition.

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