

## Cargill advances maritime decarbonisation with delivery of first green methanol dual-fuel vessel

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Cargill announced the maiden voyage of *Brave Pioneer*, the first of five green methanol dual-fuel dry bulk vessels chartered by the company. The deployment of the *Brave Pioneer* marks another important milestone in Cargill's broader decarbonization efforts – one focused on innovation, testing and learning as the company works with customers and partners to refine future-ready solutions for Cargill and the industry.

Built by Tsuneishi Shipbuilding Co., Ltd. and owned by Mitsui & Co. Ltd., *Brave Pioneer* is equipped to operate on both conventional marine fuels and green methanol, a lower-carbon alternative. The estimated CO<sub>2</sub> saving of using green methanol compared to conventional fuel is up to 70%.

The ship departs the Philippines today, will bunker green methanol in Singapore, then proceed to Western Australia before sailing onward to Europe. Through *Brave Pioneer*'s maiden voyage, Cargill will conduct a series of operational trials designed to evaluate green methanol bunkering readiness, understand how environmental attributes can be traced and verified through carbon accounting systems, and assess market appetite for low-carbon freight services.

“Decarbonising global shipping requires a mix of technologies and the willingness to take bold steps before the entire ecosystem is ready,” said Jan Dieleman, President of Cargill's Ocean Transportation business. “Technologies like green methanol or wind-assisted propulsion come with uncertainty. But as an industry leader, we have a responsibility to test these innovations on the water, share what we learn, and help shape the systems and standards that will enable wider

adoption.â?•

## **Setting the Stage for a New Low-Carbon Fleet**

The launch ofÂ Brave PioneerÂ paves the way for the fourÂ additionalÂ vessels that will join Cargillâ??sÂ fleetÂ over the coming years.Â The addition of theseÂ vessels strengthensÂ Cargillâ??sÂ multi-solution decarbonizationÂ approach, which includes wind-assisted propulsion, voyage optimization technologies, energy-efficiencyÂ retrofitsÂ and exploration of alternative fuels such asÂ biofuels and ethanol.Â

Each represents another step in the companyâ??s broader efforts to embed sustainability into global ocean supply chains and support customers looking for practical, lower-carbon freight options.

â??We know the road to low carbon shipping will require a mix of solutions and green methanol is one part of that portfolio,â? Dieleman continued. â??Our new fleet is about optionality and adaptability. These vessels are engineered to perform at a best-in-class level on conventional fuel today, while allowing us to switch to greener fuels as availability improves. Itâ??s a practical way to future-proof ocean transport.â?•

As one of the worldâ??s largest charterers of dry bulk freight, Cargillâ??s actions send a strong demand signal to the market and serve as an open invitation for others in the maritime sector to join in advancing the transition to sustainable shipping.

The initiative supports Cargillâ??s broader effort to reduce supply chain emissions and invest and test practical innovations that advance progress toward a more sustainable global food system. Green methanol-enabled vesselsâ??paired with the eventual expansion of renewable fuel supplyâ??are expected to play a meaningful role in reducing maritime emissions over the coming decade.