

Yinson GreenTech's marinEV Commences Commercial Trials with Hydromover, the First Electric Light Cargo Vessel

The Hydromover's commercial trials mark a significant milestone in the commercialisation roadmap for the fully electric vessel, accelerating industry adoption to make net zero port waters a reality.

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Yinson GreenTech's ("YGT") marinEV announced the start of commercial trials for the Hydromover, marking a critical milestone in the decarbonisation of Singapore's maritime industry. It was developed by the Goal Zero Consortium and funded by the Maritime and Port Authority of Singapore ("MPA") and Singapore Maritime Institute ("SMI"). The lightweight 18.5m Hydromover is Singapore's first fully electric cargo vessel. The zero-emission vessel is designed with swappable battery solutions and can carry up to 25 tonnes of cargo. The Hydromover will reduce operational costs compared to conventional vessels due to significant energy and maintenance cost reductions.

The commercial trials are open to industry leaders looking to reduce carbon footprint from their business activities. This will support Singapore's goal of achieving net-zero emissions in the domestic harbour craft sector by 2050 while allowing harbour craft operators to trial a fully electric lighter craft as part of their existing fleet, experiencing the operational benefits of the innovative technology first-hand.



marinEV hands over the Hydromover to OPL Services at Lita Ocean shipyard, marking the start of its commercial trials for the fully electric cargo transfer vessel in Singapore's port waters

Pictured from left to right: OPL Services – Darmadi, Engineer, Md Asyrah bin Rahim, Rigger/Deckhand, Heru One Yulianto, Captain and Md Hanif bin Norizan, Operations Manager; marinEV – Sumit Dogra, Operations Manager, Marcus Tan ZY and Marcus Tan WM, Interns and Gan Jia Hao, Operations Engineer

The inaugural commercial trial commenced with OPL Services on 26 August 2024, when the Hydromover vessel was handed over by marinEV at the Lita Ocean shipyard. Over the next few months, the

Hydromover will be available to harbour craft operators in Singapore to trial charter the vessel as part of their operational fleet of harbour crafts.

YGT acknowledged six potential partners who have provided letters of intent to charter the Hydromover for operational trials with a view to electrifying their fleets in the future. These include two Goal Zero partners, Lita Ocean and DM Sea Logistics, as well as OPL Services, Kanlian Ferry, RW Marine Services, and Tian San Shipping. The six parties' combined fleet is over 200 vessels, marking significant potential for future conversion to electric vessels.

“We are excited to take this significant step towards commercial adoption of electric vessels in the maritime industry,” said Jan-Viggo Johansen, Managing Director of marinEV. “This is a testament to our commitment to innovation and a crucial step in our mission to drive sustainable practices in maritime transport. We invite all industry leaders to partake in these historic commercial trials, taking the opportunity to have their next cargo delivered by a fully electric, zero-emission vessel. By demonstrating the real-world benefits of electric vessels, we hope to accelerate the industry’s transition to net zero.”

Mr Stanley Ong, Director of Netline Group, the parent company of OPL Services, said: “As prospective owners, we would like to further understand the capabilities and limitations of an electric vessel and what tangible benefits an EV would bring to the industry and us as business owners. Our future plans are to align with MPA's green targets by 2030. Therefore, understanding Hydromover and its future iterations is of utmost importance to us as we embark on this journey.”

To learn more about participating in the Hydromover’s commercial trials, please email marinEV (hydromover@yinson.com).

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GOAL ZERO CONSORTIUM PARTNERS

- SeaTech Solutions International (S) Pte Ltd - seatechsolutions.com
- Yinson GreenTech - ygt.yinson.com
- Shift Clean Energy – shift-cleanenergy.com
- Rina Hong Kong Limited Singapore Branch – rina.org
- Lita Ocean Pte Ltd – litaocean.com

GOAL ZERO CONSORTIUM MEMBERS

- BatamFast Ferry Pte Ltd
- Kenoil Marine Services Pte Ltd
- Marina Offshore Pte Ltd
- Jurong Port Pte Ltd

ABOUT YINSON GREENTECH

“From land to sea, with an ecosystem for all, we spark a movement we call Positively Charged.”

Yinson GreenTech energises the electric transition across diverse industries. We invest in fusing cutting-edge technologies with clean energy solutions, fostering a collaborative ecosystem that empowers businesses and communities to achieve their net-zero ambitions. At the heart of our strategy lies a robust digital backbone that seamlessly integrates our green solutions, optimises operations, and unlocks superior efficiency. This sets us apart by enabling data-driven decision-making and intelligent automation.

We put electrified transport into the hands of everyday users through our five businesses:

- marinEV – Pioneering the development of fully electric vessels for crew transfers and light cargo transfers
- drivEV – Empowering enterprises and businesses with electric fleet solutions
- rydeEV – Electrifying the micro-mobility space with electric two-wheelers (E2Ws), including battery-swapping technology and fast charging solutions
- chargEV – Leading charge point operator with an extensive EV-charging station network for public and private usage
- digitalEV – Enabling seamless software support and integration for sustainable technologies across Yinson GreenTech’s businesses

We are a business of Yinson Holdings Berhad, a global energy infrastructure and technology company active in offshore energy with Yinson Production, renewable energy with Yinson Renewables, green technologies with Yinson GreenTech, sustainable investment and asset management with Farosson, and offshore marine with Regulus Offshore.

For more information about us, please visit ygt.yinson.com.

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