

This Singapore Marine Service Company Is At the Forefront of Making “Decarbonisation” More Than Just a Buzzword for the Industry

There are many words associated with sustainability and climate change. Among those, “decarbonisation” is one that you’d hear very often but has it become more than just a buzzword? In the context of shipping, there has been a greater push for the electrification of marine vessels over the past years. Yet, the International Energy Agency (IEA) has predicted that the global maritime industry will miss the net zero greenhouse gas emissions target by 2050 due to a “lack of available low-carbon options on the market”. So how can we move forward to make better progress in creating a greener maritime industry?

Enter Sea Forrest, a Singapore marine company that offers green technology and solutions for the maritime industry. As an alternative to conventional oil products, Sea Forrest’s Green Cabin, Parallel Hybrid Design and a flagship Full Electric Ready (FER) propulsion solution contribute to a reduction in carbon emissions of up to 20% compared to current solutions in the market. What’s more, Sea Forrest incorporates the Energy Storage System (ESS) to a vessel’s power system, allowing it to store energy for later use. But due to the serious lack of charging solutions in Singapore, many are hesitant to own a full electric vessel. In order to meet market needs and fully support a greener maritime industry, Sea Forrest

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introduced its unique charging solutions that replaces the traditional cable connection method and allows marine vessels to easily transfer power from shore to ship. Just like how Tesla is revolutionising the automobile industry, Sea Forrest aims to initiate the push towards sustainability in an industry known to be behind the curve. With that, Sea Forrest has successfully developed its own electric design which allows hybrid vessels to easily convert to full electric ones, reducing carbon emissions and creating a smoother, scentless marine experience for crew members. Sea Forrest has also successfully commissioned Singapore’s first hybrid-powered ship, Penguin Tenaga. The electric-hybrid propulsion system was designed and built locally by the company, allowing the vessel to easily switch its propulsion mode from diesel to hybrid or pure electric.

Other notable products Sea Forrest has developed include a remote AI pilotage, which will push the boundaries of decarbonisation to the next level through the use of Machine Learning and Artificial Intelligence to boost the incorporation of propulsion systems.