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Seatrium Secures World's first full-scale, turnkey Carbon Capture and Storage (CCS) retrofit on a LPG carrier from Solvang ASA

Singapore, 16 February 2024 – Seatrium Limited (Seatrium, or the Group) is pleased to announce that it has successfully secured the world's first full-scale, turnkey Carbon Capture and Storage (CCS) retrofit from Solvang ASA, Norway, a long-term Favoured Customer Contract (FCC) partner.

The full-scale retrofit of a 7MW Wärtsilä Carbon Capture & Storage (CCS) system will be carried out on Solvang's 21,289 cubic metre ethylene carrier, *Clipper Eris*, scheduled to commence in the third quarter of this year. The project will use amine cleaning technology to capture 70 per cent of the carbon dioxide (CO₂) in the exhaust gas from the main engine, involving the entire value chain for handling CO₂, including liquefaction and storage onboard the vessel.

Seatrium's key scope of work includes basic design, detailed engineering, procurement, upgrading of electrical and automation systems, as well as the integration of a carbon capture and compression / storage system.

Mr Tor Ask, Fleet Director of Solvang ASA, said, "Solvang is pleased to partner with Seatrium for our full-scale pilot project for CO₂ capture onboard *Clipper Eris*. We have enjoyed many years of successful partnerships and Seatrium has a strong track record for decarbonisation retrofit works, including the installation of Exhaust Gas Cleaning System (EGCS) for four of our Very Large Gas Carriers (VLGCs). The selection of Seatrium aligns with our strategic direction of delivering energy efficient solutions and green energy services for a lower carbon future. The technology will be piloted onboard the vessel over a year while it is operating commercially. If the pilot project is successful, Solvang intends to install the technology on some of our vessels, including newbuilds, thereby contributing to a faster take-up of the technology."

Mr Alvin Gan, Executive Vice President of Seatrium Repairs and Upgrades, said, "We would like to thank Solvang for entrusting Seatrium with this milestone project and for taking our long existing partnership to a new level of collaboration in support of our collective energy transition goals. We are excited to be part of this game-changing world's first full-scale turnkey pilot CCS retrofit. At Seatrium, we are committed to advancing environmental sustainability through the development of industry-leading solutions and the seamless execution of our projects. Our collaboration with Solvang on *Clipper Eris* will further boost our strong track record in the areas of maritime decarbonisation upgrades and retrofits which are expected to continue to grow in the coming years."

Leveraging its deep expertise in engineering, Seatrium has built a strong track record in providing lower carbon solutions for the maritime industry. Since 2018, we have delivered over 500 sustainability-linked solutions, including low carbon, energy saving retrofits and environmental regulatory works. With a focus on maritime

decarbonisation, Seatrium is well-positioned to provide its customers with a range of low carbon and cleaner energy solutions to support a sustainable future.



Seatrium's innovative Carbon Capture and Storage (CCS) project secures world's first full-scale retrofit on Solvang's Clipper Eris ethylene carrier ship, set to capture 70% of CO₂ emissions using amine cleaning technology. Retrofit of the carrier is scheduled to begin in Q3 of this year.

Photo Credit: Solvang ASA, Norway

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About Solvang ASA

Solvang aims to be an industry-leading provider of LPG and petrochemical tonnage to our clients in the safest, cleanest and most cost-efficient manner.

From very modest beginnings, Solvang ASA has evolved into one of the world's leading transporters of LPG and petrochemicals. The company has its headquarters in Stavanger, with offices in Oslo and the Philippines.

Solvang has a fleet of modern and efficient vessels, all built in accordance with the most up-to-date specifications and fitted with new and efficient technology. Current fleet stands at 22 LPG carriers and 7 newbuildings for delivery by 2026-2027. Perhaps of greater importance than the modern technology is the way in which the vessels are operated and the people on board. Good seamanship represents the very core of our business, and we place a firm focus on this area in the form of education, attitudes and training.

On every single sailing, we are required to demonstrate our experience and expertise. Our strength lies in reliable, high-quality deliveries. It is our commitment to maintain a steady course towards the future, and at the same time make good use of the experience we have gained.

About Seatrium Limited

Seatrium Limited (formerly Sembcorp Marine Ltd and renamed as Seatrium Limited following its combination with Keppel Offshore & Marine Limited) provides innovative engineering solutions to the global offshore, marine and energy industries. Headquartered in Singapore,

the Group has over 60 years of track record in the design and construction of rigs, floaters, offshore platforms and specialised vessels, as well as in the repair, upgrading and conversion of different ship types.

The Group's key business segments include Oil & Gas Newbuilds and Conversions, Renewables and New Energies, Specialised Shipbuilding, and Repairs & Upgrades, with a growing focus on sustainable solutions to advance the global energy transition and maritime decarbonisation.

As a premier global player offering offshore renewables, new energy, and cleaner offshore & marine solutions, Seatrium is committed to delivering high standards of safety, quality, and performance to its customers which include major energy companies, vessel owners and operators, shipping companies and cruise and ferry operators.

Seatrium operates shipyards and other facilities in Singapore, Brazil, China, Indonesia, Japan, the Philippines, Norway, the United Kingdom and the United States.

Discover more at seatrium.com.

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