



Company Registration Number: 196300098Z

Seatrium Delivers Brassavola, Singapore's First Membrane LNG Bunker Vessel

Singapore, 29 January 2024 – Seatrium Limited (Seatrium or the Group) is pleased to announce the successful delivery of Brassavola, Singapore's first membrane LNG bunker vessel built locally by the Group, to owner Indah Singa Maritime Pte. Ltd, a wholly-owned subsidiary of Mitsui O.S.K Lines (MOL).

Following delivery, Brassavola will be chartered by Pavilion Energy to supply LNG bunker in the Port of Singapore. The vessel, which is expected to commence operations in February 2024, will also be deployed by TotalEnergies Marine Fuels to serve its customers under a long-term agreement with Pavilion Energy.

Brassavola, constructed based on a proprietary design by LMG Marin, a wholly-owned subsidiary of Seatrium, adds to the Group's portfolio of proven LNG bunker vessel designs of various capacities. Measuring 116.5 metres in length and 22.0 metres in width, the vessel incorporates state-of-the-art technology, including superior loading and faster bunkering rate of up to 2,000m³ per hour, mass flow metering and online gas chromatograph systems, for improved bunkering turnover and enhanced operational efficiency.

Brassavola utilises dual-fuel engines, allowing the vessel to run on marine LNG for cleaner and lower-carbon operation. The vessel's advanced reliquefaction technology also enables more efficient boil-off gas management, which reduces carbon emissions.

The LNG bunker vessel also features two GTT Mark III Flex membrane tanks with superior characteristics which include lower internal pressure, temperature and boil-off rate, enabling greater tank durability, safer fuel transfer operations and reduced cargo loss through evaporation. The twin membrane tanks are optimised to be lighter and space-saving to allow for a larger cargo carrying capacity and greater fuel efficiency during transportation.

Mr Kazuya Hamazaki, Managing Executive Officer of MOL, said, "We are delighted to achieve the successful delivery of Brassavola with our strategic partners at Pavilion Energy and Seatrium. This achievement would not have been possible without the unwavering dedication and collaboration of our partners. The completion of the Brassavola is a significant step forward in transitioning towards the use of cleaner and decarbonised fuels like LNG in Singapore. We look forward to seeing Brassavola in operations very soon, setting new standards in LNG bunkering and further strengthening Singapore's position as a global LNG bunkering hub."

"The delivery of Singapore's first membrane LNG Bunker Vessel, Brassavola, represents a transformative step for Pavilion Energy's decarbonisation journey, and paves the way for a more sustainable maritime industry. We are pleased to be working with our strategic partners to reach this milestone and look forward to commencing the vessel's operations," said Mr Malcolm Lim, Division Head of Singapore Hub at Pavilion Energy. "Brassavola complements our global LNG bunker supply network and reinforces our commitment to provide customers with cleaner marine bunkering solutions."

Ms Louise Tricoire, Vice President of TotalEnergies Marine Fuels, said, "We are thrilled to receive the Brassavola, which will enable us to commence the supply of marine LNG to our customers in Singapore. The Brassavola plays an important part in our global LNG bunker strategy and in our ambition to help the shipping industry decarbonise using a range of low-carbon fuels. Her arrival will complement our current LNG bunker services in the European hubs of Rotterdam and Marseille, as we take our LNG bunker expertise into new markets."

Mr William Gu, Executive Vice President of Seatrium Oil & Gas (International), said, “We are pleased to mark the delivery of Brassavola, the first membrane LNG bunker vessel that is designed and built in Singapore by Seatrium, embodying our core values of innovation, safety and environmental sustainability. The completion of this LNG bunker vessel with zero loss-time incident reinforces our track record in cleaner energy solutions that support the global energy transition. We are proud to play a significant role in advancing Singapore’s maritime decarbonisation ambitions and look forward to the Brassavola contributing to this cause.”

-End -



Brassavola, Seatrium’s newbuild dual-fuel LNG bunker vessel based on a proprietary design by the Group’s wholly-owned subsidiary LMG Marin, incorporates state-of-the-art technology for enhanced performance, operational flexibility and cleaner operations. *(Photo: Seatrium, All Rights Reserved)*

About Mitsui O.S.K. Lines, Ltd.

Mitsui O.S.K. Lines, Ltd. (MOL) is a global leading shipping company operating over 800 ships across the world, headquartered in Japan. MOL develops various social infrastructure businesses centering on ocean shipping, technologies and services to meet ever-changing social needs including environmental protection. MOL fleet includes dry cargo ships, liquefied natural gas carriers, Ro-Ro Car Carrier ships, oil tankers, etc. In addition to the traditional shipping businesses, MOL offers social infrastructure businesses such as real estate, terminal and logistics, offshore wind power, and associated businesses. With one of the largest merchant fleet, almost 140 years of history, experience, and technology, MOL group aims to be a strong and resilient corporate group that provides new value to all stakeholders.

For more information about MOL, please visit www.mol.co.jp/en/index.html

About Pavilion Energy Pte Ltd

Pavilion Energy is a wholly-owned subsidiary of Temasek. Headquartered in Singapore, its global energy business encompasses natural gas supply and marketing activities in South-East Asia and Europe; and global LNG trading, shipping and optimisation; as well as energy hedging and financial solutions.

An advocate for LNG and natural gas as the transition fuel of choice, Pavilion Energy is driving energy transition efforts towards a more sustainable future through the development of LNG bunkering for the maritime industry, promoting accurate greenhouse gas emissions measurement, and helping customers meet their emission targets with the trading of voluntary carbon credits.

For more information about Pavilion Energy, please visit www.pavilionenergy.com.

About TotalEnergies Marine Fuels

With over three decades of market experience, TotalEnergies Marine Fuels is TotalEnergies' dedicated business unit in charge of worldwide bunkering activities. A long-term partner to the global shipping industry, TotalEnergies Marine Fuels serves more than 200 shipping customers across over 130 ports in Europe, Asia Pacific and Africa. Its headquarters is located in Singapore, with two satellite offices in Paris and Geneva. In order to help its shipping customers adopt the cleanest available marine fuels today, TotalEnergies Marine Fuels has made key investments to supply marine LNG, bioLNG and biofuels at strategic bunker hubs. As part of its ongoing work in various maritime coalitions and cross-industry R&D initiatives, TotalEnergies Marine Fuels is also helping to shape the production of decarbonized future fuels for shipping.

About Seatrium Limited

Seatrium Limited (formerly Sembcorp Marine Ltd and renamed as Seatrium Limited following its combination with Keppel Offshore & Marine Ltd) 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.

For more information, please contact:

Ms Judy Tan
Head, Investor Relations and Corporate Communications
Tel No: +65 9710 9784
Email: judy.tan@seatrium.com

Ms Clarissa Ho
Senior Manager, Investor Relations and Corporate Communications
Tel No: +65 9632 1253
Email: shufang.ho@seatrium.com