



## **MEDIA RELEASE**

25 July 2024

### **EMA and MPA shortlist two consortia to further study viability of ammonia for power generation and bunkering**

The Energy Market Authority (EMA) and the Maritime and Port Authority of Singapore (MPA) have shortlisted two consortia that will proceed to the next round of evaluations of proposals to provide a low- or zero-carbon ammonia solution on Jurong Island for power generation and bunkering.

2 The two consortia were selected from a total of six that were earlier shortlisted in 2023 to participate in a restricted Request for Proposal (RFP), following an Expression of Interest (EOI) called in 2022. The bids were assessed based on the technical, safety and commercial aspects of their proposals. The two consortium leads are Keppel's Infrastructure Division and Sembcorp-SLNG, and the bunkering players in these consortia are Itochu Corporation, Nippon Yusen Kabushiki Kaisha (NYK Line) and Sumitomo Corporation. The two consortia will proceed to conduct engineering, safety and emergency response studies for the proposed Project.

3 At the next phase, we will select one of the two bidders as the lead developer of the Project. The lead developer will develop the end-to-end ammonia solution comprising (i) generating 55 to 65 MW of electricity from imported low- or zero-carbon ammonia via direct combustion in a Combined Cycle Gas Turbine; and (ii) facilitating ammonia bunkering at a capacity of at least 0.1 million tons per annum (MTPA), starting with shore-to-ship bunkering followed by ship-to-ship bunkering. Given the nascency of the technology and global supply chains, the Government will work closely with the appointed lead developer to implement the Project. We aim to announce the lead developer by Q1 2025.

4 The Project is part of Singapore's National Hydrogen Strategy launched in 2022, which outlines Singapore's approach to develop low-carbon hydrogen as a major decarbonisation pathway as part of the nation's commitment to achieve net zero emissions by 2050. A key thrust of this strategy is to experiment with the use of advanced hydrogen technologies that are on the cusp of commercial readiness. Ammonia is currently one of the most technologically-ready hydrogen carriers with an established international supply chain for industrial use.

5 If successful, the Project will position Singapore as one of the first countries in the world to deploy a direct ammonia combustion power plant and support the development of ammonia bunkering for international shipping. This will help to unlock the potential of low-carbon ammonia as a low-carbon fuel.

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### **About the Energy Market Authority**

The Energy Market Authority (EMA) is a statutory board under the Singapore Ministry of Trade and Industry. Through our work, we seek to build a clean energy future that is resilient, sustainable and competitive. We aim to ensure a reliable and secure energy supply, promote effective competition in the energy market and develop a dynamic energy sector in Singapore. Visit [www.ema.gov.sg](http://www.ema.gov.sg) for more information.

### **About the Maritime and Port Authority of Singapore (MPA)**

MPA was established on 2 February 1996 with the mission to develop Singapore as a premier global hub port and international maritime centre, and to advance and safeguard Singapore's strategic maritime interests. MPA is the driving force behind Singapore's port and maritime development, taking on the roles of port authority, maritime and port regulator and planner, international maritime centre champion, national maritime representative and a champion of digitalisation and decarbonisation efforts at regional and international fora such as at the International Maritime Organization. MPA partners industry, research community and other agencies to enhance safety, security and environmental protection in our waters, facilitate maritime and port operations and growth, expand the cluster of maritime ancillary services, and develops maritime digitalisation and decarbonisation policies and plans, R&D and manpower development. MPA is responsible for the overall development and growth of the maritime domain and Port of Singapore. In 2023, Singapore's annual vessel arrival tonnage crossed 3 billion Gross Tonnage and remains the world's busiest transshipment hub, with a total container throughput of 39.0 million 20-foot equivalent units (TEUs).