



MEDIA RELEASE

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Consortium appointed for next phase of study on low- or zero-carbon ammonia power generation and bunkering solution

The Energy Market Authority of Singapore (EMA) and the Maritime and Port Authority of Singapore (MPA) have appointed the consortium led by Keppel Ltd to conduct the next phase of the project to provide a low- or zero-carbon ammonia solution on Jurong Island for power generation and bunkering.

2 In the next phase of the project, Keppel Ltd and partners will conduct a Front-End Engineering Design (FEED) study to advance the power generation proposal. Sumitomo Corporation, Keppel Ltd's bunkering partner, will also conduct a FEED study to advance the bunkering proposal.

3 The project has yet to reach Final Investment Decision to formally proceed. Subject to the findings of the FEED studies, the project seeks to develop the end-to-end ammonia solution to (i) generate 55 to 65 MW of electricity from imported low- or zero-carbon ammonia via direct combustion in a Combined Cycle Gas Turbine; and (ii) facilitate ammonia bunkering at a capacity of at least 0.1 million tons per annum.

4 Given the early development and evolving applications of ammonia for power generation and bunkering, the Government will work closely with Keppel Ltd to ensure that the potential project is designed for safe and effective operation.

5 The consortium was selected from a total of six consortia shortlisted in 2023 to participate in a multi-phase restricted Request for Proposal process, following an Expression of Interest called in 2022.

6 The project is part of Singapore's National Hydrogen Strategy launched in 2022, which outlines Singapore's approach to explore low-carbon hydrogen as a 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. Ammonia, which does not produce carbon emissions when combusted, is a ready and available hydrogen carrier with an

established international supply chain for industrial use and can be stored and transported over long distances.

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About the Energy Market Authority of Singapore (EMA)

The Energy Market Authority of Singapore (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 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 global hub port and international maritime centre, and to advance and safeguard Singapore's strategic maritime interests. MPA takes on multiple roles as Singapore's maritime and port regulator and planner, international maritime centre champion, national maritime representative, and champion of maritime digitalisation and decarbonisation efforts. MPA partners industry, research community and other agencies to enhance safety, security and environmental protection, facilitate maritime and port operations and growth, expand multi-domain capabilities, and support the cluster of maritime services and manpower development. Visit www.mpa.gov.sg for more information.

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