**JOINT MEDIA RELEASE**

Australia and Singapore, 26 March 2025 | For Immediate Release

## Australia and Singapore support research projects to reduce maritime emissions

Australia and Singapore have selected eight projects for funding as part of a $20 million initiative to help reduce emissions in the maritime sector.

2. The Australia-Singapore Initiative on Low Emissions Technologies (ASLET) supports the objectives of the Singapore and Australia Green and Digital Shipping Corridor (GDSC), which will help accelerate decarbonisation and digitisation of shipping routes between Singapore and Australia.

3. It is jointly delivered by the Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia's national science agency, and the Maritime and Port Authority of Singapore (MPA) on behalf of the governments of Australia and Singapore.

4. The ASLET grant opportunity was launched in July 2024 to support projects that will help accelerate the deployment and uptake of zero or near-zero greenhouse gas (GHG) emission technologies for maritime and port operations.

5. A total of 32 applications were received from universities, research institutes and industry based in Australia and Singapore. The eight projects selected for funding cover a range of activities, including innovations in the supply, transport, storage, dispensing and maritime utilisation of hydrogen, ammonia and methanol, as well as safety and environmental monitoring, and electrification. For more detail on these projects, see the CSIRO and MPA websites.

6. The selected projects have also attracted co-contributions and are expected to be completed within the next two years.

<End of Release>

**Annex A: ASLET Grant Call Selected Proposals**

| Project title | Project lead/location | Project details |
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| Ammonia safety training program for maritime and port operations | University of Tasmania/Australia | This project will design, develop and pilot a safety and training program on the use of ammonia as a fuel for maritime and port personnel. |
| Green methanol link – A supply chain study for the maritime industry | Hyfuel Solar Refinery Pty Ltd/Australia | A pre-feasibility study that will inform the uptake of e-methanol in short-sea vessels by assessing technical, infrastructure, regulatory and commercial readiness. |
| Hydrogen fuel production from an integrated liquid organic hydrogen carrier system suitable for maritime and port applications | One H2 Australia Pty Ltd/Australia | This project will develop and demonstrate a modular hydrogen separation, purification and compression system based on liquid organic hydrocarbons. |
| Aus electric ferry project | Aus Ships Pty Ltd/Australia | This project will develop and demonstrate the viability and benefits of a fully electric 50 to 100 passenger ferry. |
| A digital environmental and safety analysis tool to support uptake of Scalable Zero Emission Fuels (SZEFs) in the Australia-Singapore shipping corridor | RightShip Pty Ltd/Australia | This project will develop a cloud-based digital analysis tool to support adoption and safe deployment of low emissions fuels in maritime and port operations. |
| Development of an AI-based integrated system for safe management of ammonia and hydrogen fuels in maritime sector | National University of Singapore/Singapore | The project involves developing an intelligent, distributed fibre optic system that will be deployed to monitor fuel pipelines for leaks, utilising real-time sensing of temperature, strain, and acoustic signatures. AI algorithms will analyse the data to identify anomalies and predict potential failures. This will also be validated in a scaled-down testbed. |
| Development of safety system to detect harmful low emission fuel leaks | National University of Singapore/Singapore | This project focuses on creating a highly sensitive and fast-responding fuel leak detection system. It will be able to detect leaks at very low levels and quickly send alerts to ensure timely response. |

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| Acceleration and adoption of hydrogen fuel cells for harbour craft by the American Bureau of Shipping (ABS). | American Bureau of Shipping (ABS)/Singapore | This project focuses on promoting hydrogen as a clean fuel for maritime use. It explores ways to produce green hydrogen from seawater to power vessels with hydrogen fuel cells, supporting the shift towards low-emission technologies in the shipping industry. |

**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 maritime and port development, taking on the roles of 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 and the International Organization for Marine Aids to Navigation. 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 ancillary services and manpower development. MPA is responsible for the overall development and growth of the maritime multi-domain and the Port of Singapore.

For more information, please visit www.mpa.gov.sg/

**About CSIRO**

CSIRO is Australia's national science agency and innovation catalyst. We solve the greatest challenges through innovative science and technology. CSIRO works with industry, government and the research community to turn science into solutions for food security and quality; clean energy and resources; health and wellbeing; resilient and valuable environments; innovative industries; and a secure Australia and region.

For more information, please visit www.csiro.au

**About Singapore Maritime Week 2025**

SMW is an annual gathering of the international maritime community to advance key industry issues and exchange ideas to bring the sector forward. Driven by MPA, in collaboration with industry stakeholders and research and educational institutions, SMW brings together key opinion leaders and industry leaders through conferences, dialogues and forums.

The range of activities and events organised by MPA, industry stakeholders and research and educational institutions, as well as the cosmopolitan profile of participants, reflect the vibrancy and diversity of Singapore as a global hub port and leading international maritime centre.

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**APRW for Singapore Maritime Week 2025**

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