



JOINT MEDIA RELEASE

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MPA and Wärtsilä Renew Partnership to Drive Maritime Decarbonisation

Wärtsilä, a global leader in smart technologies and complete lifecycle solutions for the marine and energy markets, will introduce the Methanol Power and Control (PAC) simulation model in partnership with the Maritime Energy Training Facility (METF)¹ and Wavelink Maritime Institute. This model will help maritime professionals acquire the knowledge and competencies needed to operate methanol-powered vessels safely and efficiently. Wavelink Maritime Institute will be the first MPA-accredited training partner to use this innovative simulation model launched at SMW 2025. Wärtsilä will also introduce the Ammonia PAC simulation model in early 2026 to further enhance the industry's capabilities to handle and operate ammonia-powered vessels.

2. These initiatives are part of the renewed partnership between Wärtsilä and the Maritime and Port Authority of Singapore (MPA) to accelerate maritime decarbonisation and digitalisation. The renewed partnership will focus on the introduction of next-generation alternative fuels, optimisation of digital port operations, and development of future maritime talent.

Research and Development with MarineTech Ecosystem and Industry

3. MPA and Wärtsilä will collaborate with companies in Singapore's MarineTech ecosystem to explore Research and Development projects aimed at lowering the cost of adopting new technologies. These projects will include the Methanol and Ammonia PAC simulation models, plume modelling to enhance safety assessment, and improvements in handling of low- and zero-emission maritime fuels. The goal is to enhance safety procedures for the handling, storage, and operation of these fuels while ensuring the industry's readiness for new fuel technologies.

4. Both partners will also work with industry partners and stakeholders to identify emerging skills needed for methanol- and ammonia-powered engines operations. Training curricula will be co-developed using advanced technologies and simulation models to improve effectiveness.

¹ The Maritime Energy Training Facility (METF) was established by the MPA as an industry-supported facility for the training of the global maritime workforce in handling and operating vessels using clean marine fuels.

Fuel Training and Simulation Technical Conference

5. Wärtsilä will host a Simulation User Conference on fuel training and simulation in June 2025. The conference will feature Wärtsilä experts sharing insights on the latest advancements in simulations and training related to renewable fuels and their applications in the maritime industry. Topics will include competency and capability development for alternative fuels and the future of maritime decarbonisation.

6. Mr Teo Eng Dih, Chief Executive, MPA, said, "As a leading bunkering hub transitioning towards a multi-fuel future, our partnership with Wärtsilä will help unlock the potential of low- and zero-emission maritime fuels. This partnership will be an action-focused effort to ensure a safe and efficient bunkering environment in Singapore."

7. Håkan Agnevall, President and CEO of Wärtsilä, said, "As the world's busiest transshipment port and largest bunkering hub, Singapore has an important role to play in shipping's journey towards net-zero. That's why we are proud to continue fostering our partnership with MPA on accelerating this transition. The renewal of our MOU and the launch of the Methanol PAC simulation model are significant steps towards achieving our shared goals of decarbonisation and digitalisation in the maritime sector."

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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 Wärtsilä

Wärtsilä is a global leader in innovative technologies and lifecycle solutions for the marine and energy markets. By emphasizing sustainable innovation, total efficiency, and data analytics, Wärtsilä maximizes the environmental and economic performance of the vessels and power plants of its customers.

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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