



MEDIA RELEASE

Kuala Lumpur, 20 June 2023, Tuesday

MISC GROUP COLLABORATES WITH GLOBAL MARITIME LEADERS TO DEVELOP FUTURE-READY MARITIME TALENTS & NEXT-GENERATION AMMONIA ENGINES

In conjunction with the Malaysia Maritime Week 2023, MISC through its entities AET and Akademi Laut Malaysia (ALAM), operated and managed by Malaysian Maritime Academy Sdn Bhd, inked milestone Collaboration Agreements with WinGD and DNV respectively.

The Collaboration Agreements between AET, ALAM, and WinGD aim to drive the development of Ammonia Engines for Ammonia Dual-Fueled Vessels, marking a historical milestone as the first of its kind in the world for deep-sea vessels. This strategic collaboration reinforces the Group's commitment to finding sustainable and safe transition pathways to zero-emission shipping operations, for MISC Group and the maritime industry's shipping operations. This Agreement also plays a crucial role in the development and training of mariners to safely manage vessels built with new technologies and ammonia engines.

The Collaboration Agreement between ALAM and DNV encompasses various domains, including research & development and the enhancement of current syllabuses for training maritime professionals at all levels, geared towards meeting the workforce needs of the low and zero-carbon pathway. The signing of this Agreement is pivotal in strengthening the education and training framework for the seafaring fraternity in charting a net-zero future for the maritime industry.

MISC's President & Group Chief Executive Officer, Captain Rajalingam Subramaniam said, *"I am very pleased with the positive outcome of our collaborative efforts, leading to the signing of two important Collaboration Agreements. These agreements mark a significant step towards a just transition and certainly brings us closer to ALAM's goal of becoming the Maritime University of choice in Asia. My sincere appreciation to WinGD and DNV for their invaluable collaboration in establishing these respective alliances. As we embark on our business transformative journey, MISC remains committed to fostering alliances with a growing list of like-minded industry partners for a purposeful just transition in managing societal emissions for generations to come."*

Towards accelerating the Group's long-term strategy of being a green assets and solutions provider in the maritime industry, MISC has seen numerous collaborations being forged with like-minded industry players in the maritime ecosystem. The signed Collaboration Agreement between AET and WinGD further intensifies MISC Group's commitment to decarbonisation and is a step in the right direction towards MISC's ambitious long-term plan.

Dr Rudolf Holtbecker, Director Operations, WinGD said, *"The success of the energy transition in shipping will take much more than technology and fuel flexibility. The crew on board these vessels need to be equipped with the knowledge and confidence required to ensure safe and efficient"*



operation. The main engine technology will be familiar as our fuel flexible portfolio is based on our well-proven core technology. By partnering with AET & ALAM we can establish a solid foundation of knowledge and hands-on experience for crew to confidently operate these new vessels with safety and fuel efficiency built in."

On the back of the transformation of the global maritime industry, the collaboration with DNV is pivotal as sharing of the industry's best practices will result in either upskilling or re-skilling of the current workforce to ensure their relevancy and thrive in the new operating environment, in addition to attracting new talent with the required competencies to join the industry.

Cristina Saenz de Santa Maria, Regional Manager Southeast Asia, Pacific & India, Maritime at DNV, said, *"Decarbonization and digitalization are steadily changing the maritime landscape as we collectively strive towards a net-zero future. This necessitates the upskilling and training of seafarers to ensure they have the skills and competence to operate new fuels and technologies introduced onboard safely and efficiently. Our co-operation with ALAM will enable them to tap on DNV's extensive global training network and access comprehensive training programmes for both onboard and onshore personnel, imparting best-in-class industry practices and knowledge to shape the next generation of maritime leaders."*

Signatories of these Collaboration Agreements are John Baptist, Head of Decarbonisation, MISC, Dr. Carmelo Cartalemi, General Manager, Global Sales, WinGD, Khairul Azhar Bunyamin, DNV Malaysia Country Chair and ALAM's Chief Executive, Prof. Dr. Hamdan Suhaimi.

The witnesses of the signing were YB Datuk Haji Hasbi Habibollah, Deputy Minister of Transport Malaysia, Captain Haji Mohamad Halim bin Ahmed, Director General of Marine, Malaysia Marine Department, Y.Bhg. Dato' Normah Osman, Deputy Secretary General Policy, Ministry of Transport, Captain Rajalingam Subramaniam, President & Group Chief Executive Officer, MISC, Mohamed Safwan Othman, Chairman, Malaysia Shipowners' Association (MASA) and Roger Specker, Managing Director, Singapore, WinGD.

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About MISC Berhad

MISC Berhad (MISC or the Group) is a global leader in delivering energy-related maritime solutions and services with more than 50 years of experience in the maritime industry. Our principal businesses comprise energy shipping and its related activities, owning and operating offshore floating solutions, marine repair and conversion, integrated marine services, port management and maritime services as well as maritime education and training.

The Group's modern and diverse fleet consists of more than 100 owned and in-chartered vessels comprising of Liquefied Natural Gas (LNG) and Ethane carriers, Petroleum and Product vessels, Floating Production Systems (FPS) as well as LNG Floating Storage Units (FSU) with a combined deadweight tonnage (dwt) capacity of more than 13 million tonnes.

We are a proud constituent of the DJSI Emerging Markets Index and FTSE4Good Bursa Malaysia Index, a testament to our sustainability performance and strong Environmental, Social and Governance (ESG) practices. MISC Berhad is listed on the Main Board of Bursa Malaysia.

For more information, visit www.misc.com.my

About AET

AET is a leading global owner and operator of maritime transportation assets and specialised services, committed to moving energy responsibly and eco-efficiently as an advocate of sustainable shipping. Its current diversified fleet of 60+ vessels includes conventional and 11 dual-fuel tankers as well as collaborations on zero-emission vessels. Headquartered in Singapore with commercial and operational offices in Malaysia, the US, the UK, Norway, Brazil, and Uruguay, AET is wholly-owned by Malaysian energy logistics group MISC Berhad. www.aet-tankers.com

About ALAM

ALAM is Malaysia's premier maritime education and training institution for the development of maritime professionals. ALAM is ranked amongst the top maritime education and training institutions in the world and for over 40 years, has trained more than 13,000 maritime professionals through its structured training programmes.

With internationally benchmarked maritime education and training facilities at its 75-acre campus, including full-mission simulators and specialised labs, the Academy provides a full spectrum of pre-sea, post-sea and ancillary training courses and internationally recognised qualifications for seafarers, along with maritime-management and operations programmes for the transition of seafarers to shore, or towards other related careers of their choosing.

ALAM is a maritime education training facility operated and managed by the Malaysian Maritime Academy Sdn. Bhd. (MMASB). MMASB is a subsidiary of MISC Berhad.

About DNV

DNV is the world's leading classification society and a recognized advisor for the maritime industry. We enhance safety, quality, energy efficiency and environmental performance of the global shipping industry – across all vessel types and offshore structures. We invest heavily in research and development to find solutions, together with the industry, that address strategic, operational or regulatory challenges. For more information visit: www.dnv.com/maritime



About WinGD

WinGD advances the decarbonisation of marine transportation through sustainable energy systems using the most advanced technologies in emissions reduction, fuel efficiency, hybridisation and digital optimisation. With their two-stroke low-speed engines at the heart of the power equation, WinGD sets the industry standard for reliability, safety, efficiency and environmental design, backed by a global network of service and support. Headquartered in Winterthur, Switzerland since its origin as the Sulzer Diesel Engine business in 1893, today it is powering the transformation to a sustainable future.

WinGD is a CSSC Group company.

For more information visit: www.wingd.com

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