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**Press release**

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**MAN Energy Solutions SE**  
Teglholmsgade 41, 2450 Copenhagen SV,  
Denmark[www.man-es.com](http://www.man-es.com)

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**Group Communications**  
Nils Søholt  
P +45 33 85 26 69  
[Nils.Soeholt@man-es.com](mailto:Nils.Soeholt@man-es.com)

## **MAN Energy Solutions Signs MoU with Mitsui E&S and Mitsui O.S.K.**

### **Memorandum of Understanding emphasises common commitment to low-speed, dual-fuel ammonia engines targeted at decarbonising shipping**

MAN Energy Solutions has signed a Memorandum of Understanding (MoU) with Mitsui E&S Machinery Co., Ltd. (MES-M) and Mitsui O.S.K. Lines (MOL) regarding the low-speed, ammonia-fueled main engine that MAN Energy Solutions is currently developing.

The MoU provides for keeping MOL and MES-M updated on MAN Energy Solutions' progress in this regard, with the ultimate intention of creating the basis for a more detailed Lol (Letter of Intent) leading to an actual purchasing contract for an ammonia-burning engine during 2023.

The signatories of the memorandum were: Yoshihiko Sugimoto, General Manager Technical Division, Technology Innovation Unit, Mitsui O.S.K. Lines Ltd.; Yusuke Sakimoto, Executive Officer, General Manager of Diesel Engine Division, Mitsui E&S Machinery Co., Ltd.; and for MAN Energy Solutions: Bjarne Foldager, Senior Vice President and Head of Two-Stroke; and Brian Østergaard Sørensen, Vice President, Head of Research and Development, Two-Stroke.

Sørensen said: "This memorandum underlines our mutual commitment to reducing the environmental footprint of shipping and emphasises our ambition to ensure a path towards net-zero emission, oceangoing vessels. At the same time, it shows one of the ways forward to decarbonisation for the maritime transport industry as a whole."

#### **About Mitsui O.S.K. Lines, Ltd.**

MOL was founded in 1884, and is headquartered in Tokyo. MOL is a leading company in the ocean shipping industry, operating a fleet of about 800 vessels to transport various commodities such as resources, energy, raw materials, and products. Ontop of the traditional shipping businesses, MOL will develop a variety of social infrastructure business to meet the evolving social needs.

#### **About Mitsui E&S Machinery, Ltd.**

Mitsui E&S Machinery develops large diesel engines for ships, cranes for cargo handling at ports, and various industrial machines. It is one of the world's leading manufacturers of large diesel engines for ships, boasting the top share in Japan in terms of production volume, as well as developing and delivering engines compatible with various fuels such as LNG and methanol for a carbon-free society.

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MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Addressing tomorrow's challenges within the marine, energy and industrial sectors, we improve efficiency and performance at a systemic level. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our after-sales brand, MAN PrimeServ, offers a vast network of service centres to our customers all over the world.