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**Press release**

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## **MAN Energy Solutions Signs MoU with Stena and Proman**

### **Memorandum of Understanding defines terms of project to investigate retrofit of MAN 48/60 engines to dual-fuel diesel/methanol operation**

MAN Energy Solutions has signed a Memorandum of Understanding (MoU) with Stena Teknik – Stena's inhouse R&D division – and Proman – the world's second largest methanol producer – regarding their mutual cooperation on a project to retrofit MAN 48/60 engines to make them capable of dual-fuel, diesel and methanol operation. Stena and Proman announced their partnership to develop a methanol retrofit and fuel-supply solution last year.

Stefan Eefting, Head of PrimeServ Germany, and Bernd Siebert, Head of Retrofit & Upgrades, signed the MoU on behalf of MAN Energy Solutions, while Ron Gerlach, Technical Director signed on behalf of Stena. Peter Schild, Director of Marine Fuels, signed for Proman.

Eefting said: "MAN Energy Solutions is happy to work with industry partners on decarbonising the marine segment, a sentiment that Stena and Proman happily share. Methanol has great potential as a future-fuel and is clean, efficient and safe to work with. It offers significant greenhouse-gas reductions, and is even net-zero when produced from renewable energy sources. I'm certain that many interested parties will be watching this retrofit's progress."

Under the terms of the agreement, the project will start with an initial feasibility study, defining the scope and limits of the project, the division of work and respective responsibilities. The primary aim of this is to investigate methanol combustion according to the Otto combustion principle with MeOH port fuel injection due to the inherent advantages for legacy installations. Developments on MeOH direct injection technology for newbuilds and the potential for later retrofits may also be considered here.

Upon successful completion of the feasibility study, the second phase would involve the retrofit of the engine(s), commissioning and field testing. The third and final phase would then involve the completion of field testing, and engine handover for commercial operation.



*Pictured at the signing of the MoU (left to right): Alexander Knafl (MAN Energy Solutions), Peter Schild (Proman), Ron Gerlach (Stena), Hans Tistrand (Stena) and Bernd Siebert (MAN PrimeServ)*

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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.