
Press release

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Tier III Exhaust-After-Treatment Orders for Low-Speed Engines Pass 1,000 Mark

Exhaust Gas Recirculation and Selective Catalytic Reduction systems slash NO_x and benefit efficiency

MAN Energy Solutions' Two-Stroke Business has announced that it has surpassed 1,000 orders for secondary-measure, Tier III-compliant, emission-reduction technology for its portfolio of MAN B&W-branded, low-speed engines.

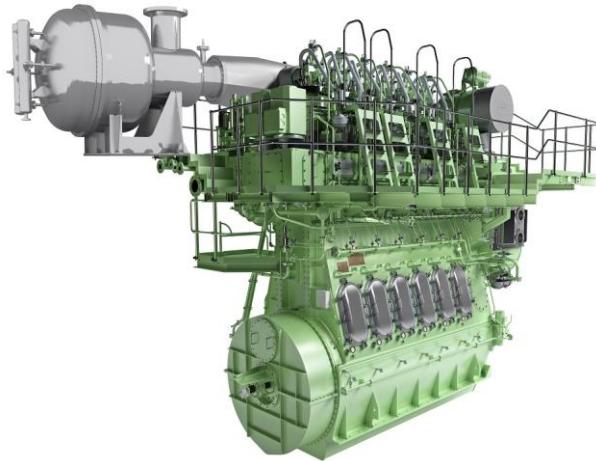
Approximately one-quarter of the orders have been for EGR (Exhaust Gas Recirculation) systems, with SCR (Selective Catalytic Reduction) systems accounting for the remainder. The milestone was passed in early-January 2021 and is built upon references from the company's portfolio of ME-B, ME-C and MC-C fuel-oil engines. Currently, almost half of all orders have entered active service.

Bjarne Foldager, Senior Vice President and Head of Two-Stroke Business at MAN Energy Solutions, said: "This is a notable milestone that is built on the know-how we have amassed over the past decade or so. Our fully-mature EGR and SCR systems not only achieve Tier III NO_x-compliance, but also deliver performance upgrades for engines in terms of increased fuel efficiency and lower, general emissions. As such, our ability to treat a ship as a complete system gives us a clear market advantage that enables us to prioritise environmental considerations."

NO_x solutions

Exhaust gas recirculation (EGR) prevents the formation of NO_x by controlling the combustion process, while Selective Catalytic Reduction (SCR) uses a catalyst and an additive to reduce the NO_x generated by the combustion process.

Uniquely for the two-stroke sector, MAN Energy Solutions offers both EGR and SCR as proprietary NO_x solutions, including both low- and high-pressure variants of the latter. The company has long experience with EGR technology and reported its first order already in 2011, while SCR-HP won its first order in January 2019 and features a drastically reduced reactor size compared to rival systems.



Rendering of an MAN B&W SCR-HP reactor with host two-stroke engine



Graphical rendering of an MAN B&W two-stroke engine with EGR system

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.