
Press release

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PrimeServ Upgrade Delivers Massive Emission and Fuel Savings to Norwegian Trawler

Demanding retrofit featuring MAN's proprietary Selective Catalytic Reduction (SCR) system and fuel-consumption optimisation slashes CO₂ and NO_x emissions respectively by 475 and 45 tons per year

MAN Energy Solutions' after-sales division, MAN PrimeServ, has announced the conclusion of a project involving the retrofitting of an SCR (Selective Catalytic Reduction) system to a fishing trawler operated by Norwegian shipping company, Ivan Ulsund Rederi. As a result, the 'Brusøyskjær' now enjoys reduced NO_x levels that surpass IMO Tier III standards, while its MAN 6L27/38 main engine enjoys a reduced fuel-oil consumption owing to other work.

PrimeServ states that up to 90% of the trawler's NO_x emissions can be reduced – starting from just 15% engine load. This is due to the intelligent integration of the SCR into the vessel's engine-control system and combining it with sensors before and after the SCR reactor – such as the temperature control – to achieve an optimal emissions reduction. The SCR can be operated in the engine operation area from 15-100% MCR, dispensing with the need for a cut-out. This facilitates a maximum reduction in NO_x taxes for years to come. Many shipping companies – not just those based in Norway – currently benefit from incentive programmes to protect the environment.

During the retrofit, the SCR system was combined with a Tier II upgrade for the engine, including the introduction of a variable frequency drive (VFD) mode, and an upgrade of the Alphatronic 2000 remote control system that will cut fuel consumption by 150,000 litres of MGO annually. PrimeServ reports that the upgrade will deliver savings of more than 475 tons of CO₂ and 45 tons of NO_x per year. Generally, MAN's SCR concept facilitates system installation aboard even the most compact of ship designs.

Mads Færk, Head of Sales, MAN PrimeServ Norway, said: "The customer expressed a wish to have one point of contact and the same SCR supplier as the manufacturer of the vessel's main engine, which we were happy to accommodate as it allowed us to devise the best solution for this particular vessel and its operational requirements. Despite the very tight time-schedule and difficulties arising from the corona virus, we were able to fulfill all requests for a minimal SCR footprint, high NO_x reduction rate, prompt delivery of all components, and a high-efficiency propulsion system on time."



The Brusøyskjær (picture courtesy Ivan Ulsund Rederi)

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.