
Press release

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MAN Cryo Wins Approval for Ammonia Fuel-Supply System

Latest collaboration with Yada Green Energy Solutions gets seal of approval from classification societies

MAN Cryo has announced that its design for an ammonia fuel-supply system to safely provide ammonia to marine-engine applications has been awarded an Approval in Principle from classification societies, DNV and Bureau Veritas.

Part of MAN Energy Solutions and a leading expert in the field of storage and handling of LNG and natural gas, MAN Cryo developed the system in cooperation with Chinese company, Yada Green Energy Solutions, with whom the company has previously cooperated to provide equipment for LNG and methanol marine fuels.

Xiang Guangqing, Chairman, Yada Green Energy Solutions, said: "Facing the climate-change issue, no one can solve it alone and we firmly believe that cooperation is a powerful means of achieving this. YADA and MAN Cryo are customer-centric operators, providing high-quality, dual-fuel system solutions and continuously achieving new breakthroughs in handling methanol and ammonia."

He continued: "Yada Green Energy Solutions has set ambitious goals to accelerate the green transformation of the global-transportation industry. Working together to support global development, understanding and anticipating customer needs is an important driving force for our daily work. MAN Cryo and YADA will unite with industry peers, embrace innovation and cooperation, and jointly move towards the sustainable future of global shipping."

Henrik Malm, Managing Director, MAN Energy Solutions Sweden said: "We are pleased to announce the successful achievement of a significant strategic milestone for MAN Cryo in cooperation with Yada Green Energy Solutions. This accomplishment underscores our unwavering commitment to our global customer base as we collectively work towards a decarbonised world. The establishment of a secure and reliable fuel-supply system for future ammonia engines marks a pivotal development."

Malm added: "Ship owners can rest assured that MAN Cryo, in cooperation with Yada Green Energy Solutions, is delivering a market-ready solution adhering to the highest security standards and embodying world-class engineering. Once again, MAN Cryo has demonstrated pioneering leadership in the engineering of fuel-supply systems for emerging fuel solutions. This achievement further solidifies our position as industry innovators, dedicated to advancing cutting-edge solutions in response to the evolving landscape of sustainable energy."

About YADA

Yada Green Energy Solutions provides customers with one-stop, full lifecycle services including principle design, stress analysis, production design, optimisation design, component manufacturing, pipeline prefabrication, module integration, installation and commissioning, safety monitoring, global operation and maintenance.

About MAN Cryo

MAN Cryo offers system design and engineering solutions for the storage, distribution and handling of liquefied gases and has a pioneering reputation within the marine sector. It supplied the world's first LNG fuel-gas system for the 'Glutra' ferry in Norway in 1999, while in 2013 it supplied the world's first LNG bunker vessel – the 'SeaGas' – with operations in Stockholm, Sweden. More recently, MAN Cryo delivered the first liquid-hydrogen fuel-gas system to be installed below deck aboard a ship.

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MAN Cryo's design for an ammonia fuel-supply system to safely provide ammonia to marine-engine applications has been awarded an Approval in Principle from classification societies, DNV and Bureau Veritas

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.