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MAN Energy Solutions and StormFisher Hydrogen partner on Power-to-X Methanation Reactor

200 MW North American plant to produce over 50,000 tons of e-methane annually, advancing North American e-fuel production capacity

StormFisher Hydrogen, a leading developer of clean fuels, has commissioned MAN Energy Solutions to deliver the pre-front-end engineering design (pre-FEED) for the methanation reactor of a large-scale Power-to-X plant. The 200 MW facility, to be built in North America, will produce green hydrogen and e-methane by utilizing a local biogenic CO₂ source. The plant is expected to generate 2.5 million MMBtu (million British thermal units) of e-methane annually, equivalent to approximately 50,000 metric tons of liquefied natural gas (LNG).

Advancing e-Fuel production capacity in North America

Judson Whiteside, Chief Executive Officer at StormFisher Hydrogen, said: “The planned facility is a major component in StormFisher Hydrogen’s plans to support increasing e-fuel production capacity in North America and reinforcing American leadership in the energy sector. MAN Energy Solutions has the expert knowledge in methanation required to deliver the pre-FEED study to keep the project moving forward on a successful track.”

Seamless integration with existing infrastructure

Once operational, the plant will convert 200 MW of renewable electricity – primarily from wind and solar – into green hydrogen via electrolysis and then into e-methane, meeting North American pipeline standards. This allows the fuel to seamlessly integrate into existing natural gas infrastructure, offering a cost-effective and scalable decarbonization solution.

Wagner Canelhas, Regional Sales Manager at MAN Energy Solutions Houston, said: “With this project, MAN Energy Solutions reinforces its position as a global leader in methanation for Power-to-X applications. Our technology enables the smooth integration of e-Methane into existing infrastructure, reducing costs and accelerating its adoption worldwide.”

Enhancing methane purity

As part of the project, MAN Energy Solutions will conduct in-house tests at its Deggendorf, Germany, facility to validate a quality booster – an enhancement to its methanation technology designed to increase methane purity by reducing unreacted components in the e-methane output.



About StormFisher Hydrogen

StormFisher Hydrogen develops and operates facilities that produce e-Fuels through the sourcing of renewable electricity to produce green hydrogen and the sourcing and use of carbon dioxide from industrial point sources. StormFisher Hydrogen works with hard-to-abate sectors such as transportation (maritime/aviation), heavy industry, and gas utility companies, as well as traditional methanol users seeking clean fuel solutions to support long-term decarbonization goals.



StormFisher Hydrogen has commissioned MAN Energy Solutions to deliver the pre-front-end engineering design for the methanation reactor of a 200 MW Power-to-X plant. Pictured (from left to right): Matthew Small (Director of Technology & Policy at StormFisher Hydrogen), Judson Whiteside (CEO at StormFisher Hydrogen), Mahesh Joshi (President and Managing Director of MAN Energy Solutions USA), Wagner Canelhas (Regional Sales Manager of Reactors at MAN Energy Solutions USA) and Johann Stocks (Head of Power Americas at MAN Energy Solutions USA).

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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.