MOVE THE WORLD FORW>RD MITSUBISHI HEAVY INDUSTRIES GROUP

MHI Group Activities to Establish Ammonia Value Chain for Fuel Use

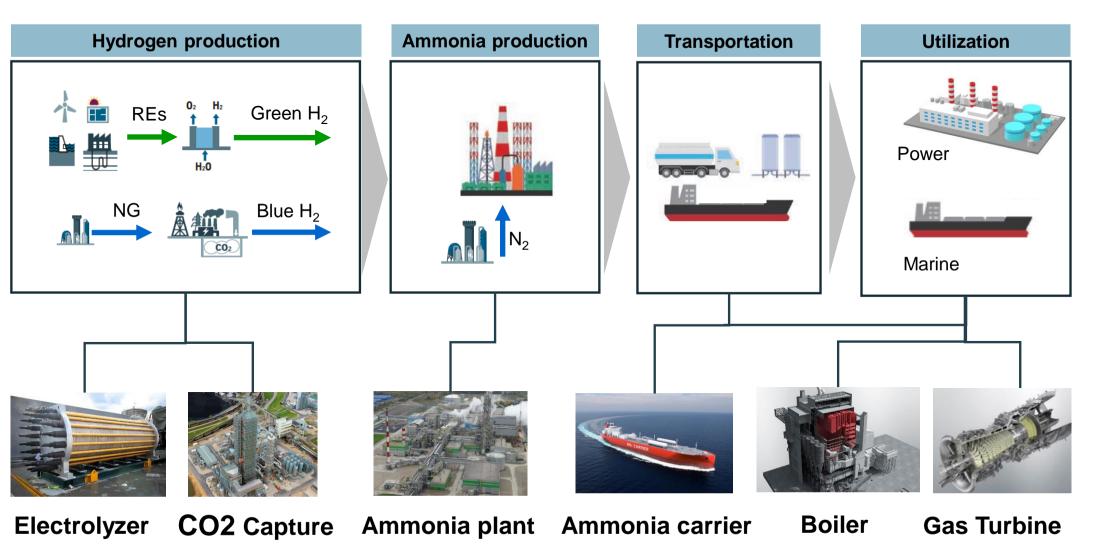
Third International Conference on Fuel Ammonia

September 29, 2023

Mitsubishi Heavy Industries, Ltd.



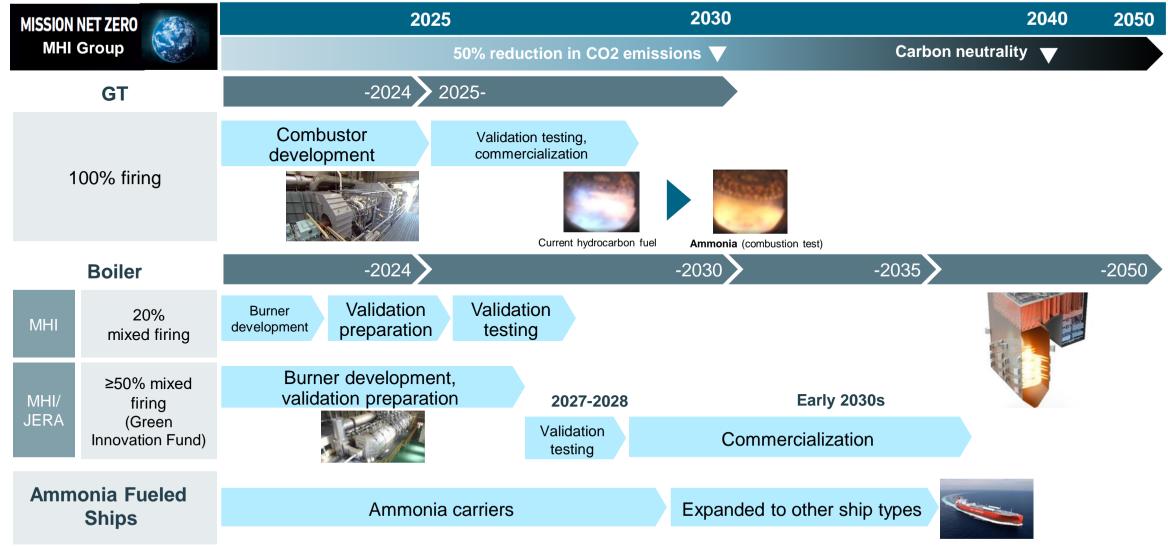
> MHI Group has many products that contribute to the establishment of the ammonia value chain



Technology Roadmap



MHI group promotes the development of products using ammonia, a decarbonized fuel, with targets of a 50% reduction in CO2 emissions by 2030 and carbon neutrality by 2040.

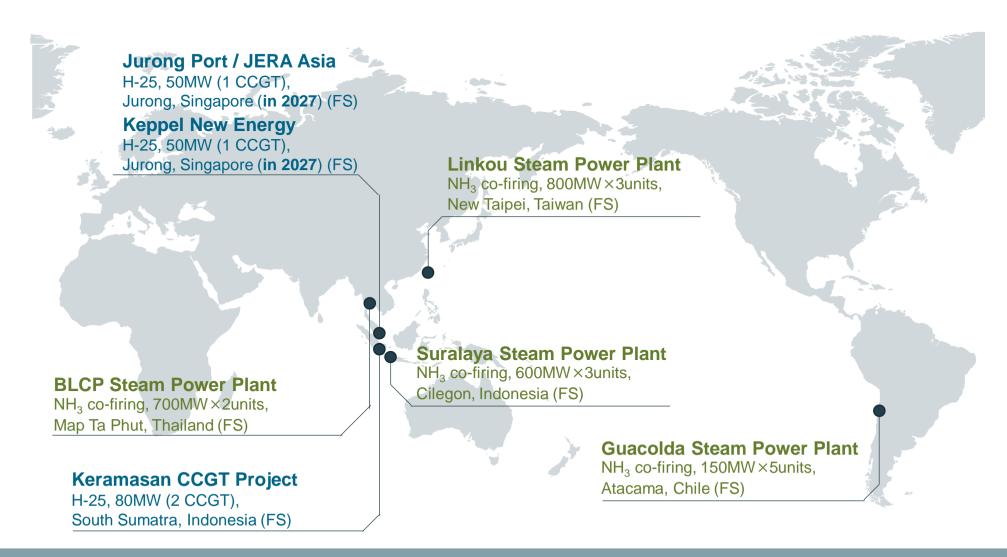


Bases of Decarbonization Technology Development



Developing elemental technologies at Nagasaki and Takasago (Hyogo Prefecture). Planning to commercialize after validation testing at Takasago.





Ammonia carrier fueled by Ammonia & Ammonia Bunkering Vessel



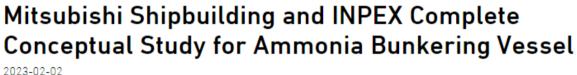
PRESS INFORMATION

Mitsubishi Shipbuilding to Commence Development of Large-size Ammonia Carrier Fueled by Ammonia -- Collaboration with Mitsui O.S.K. Lines and Namura Shipbuilding Targets Decarbonization of Maritime Industry --

2021-11-04

· Aims set on achieving operation of vessels fueled by ammonia – a clean energy – and increasing volume of marine transportation of ammonia

Basic design concept to be developed among those three partners.



PRESS INFORMATION

· Conceptual study for ammonia bunkering vessel to supply fuel to ammonia-fueled vessels completed for contributing to coming carbon neutral society

· With the knowledge on multi-purpose gas carriers capable of ammonia transport, technical development and commercialization will be further investigated so as to respond to the growing social needs





Image of Ammonia Bunkering Vessel

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