

thyssenkrupp Uhde completes Pre-FEED for HAMR Energy's major renewable fuels project in Australia

- **Biomass-to-methanol technology by thyssenkrupp Uhde**
- **Decarbonization of aviation industry**

thyssenkrupp Uhde has completed the Pre-FEED (Front-End Engineering Design) phase for the Portland Renewable Fuels Project in collaboration with HAMR Energy. The project, located in Victoria, Australia, will use biomass residues and renewable electricity to produce green methanol that can be used as a low carbon liquid fuel to power shipping and aviation.

In line with Australia's plans to become a global hydrogen leader according to the country's 2024 National Hydrogen Strategy, the project can contribute significantly to one of its key objectives: the decarbonization of long-haul transport. Green methanol can be used to fuel ships, or refined into sustainable aviation fuel (SAF), a direct substitute for fossil-based jet fuel and is considered a key enabler for reducing lifecycle emissions in aviation.

Nadja Håkansson, CEO, thyssenkrupp Uhde: "We are proud to support HAMR Energy in shaping the future of renewable fuels in Australia. Our proven capabilities in process engineering, technology integration and project execution are the cornerstones of this collaboration."

Richard Owen, Director and Chair, HAMR Energy: "This milestone reflects both our ambition and our strategy: to work with global technology leaders to deliver Australia's next generation of clean fuels. The Pre-FEED phase marks an important step for a transformative project for our country's energy future."

A local project with global impact

With this lighthouse project Australia can make a major step towards becoming a regional leader in renewable fuel production. thyssenkrupp Uhde will provide the biomass-to-methanol technology for the project. The company brings over 100 years of experience in chemical process engineering, with a portfolio that includes proprietary technologies for gasification, methanol synthesis, and emissions reduction. Its Australian operations will contribute local engineering expertise and project execution capabilities.

Karan Bagga, Product Manager Green Ammonia and Managing Director Australia, thyssenkrupp Uhde: "The completion of Pre-FEED showcases our ability to bring cutting-edge technology to Australia's clean energy transition. This is a crucial step towards establishing a homegrown low carbon liquid fuels industry."

Alex Smith, Projects Director, HAMR Energy: "Working with thyssenkrupp Uhde allows HAMR to access key technology solutions as well as local expertise. These elements are crucial to allow successful delivery of the project."

About thyssenkrupp Uhde

thyssenkrupp Uhde combines unique technological expertise and decades of global experience in the engineering, procurement, construction and service of chemical plants. We develop innovative processes and products for a more sustainable future and thus contribute to the long-term success of our customers in almost all areas of the chemical industry. Our portfolio includes leading technologies for the production of base chemicals, fertilizers and polymers as well as complete value-chains for green hydrogen and sustainable chemicals. www.thyssenkrupp-uhde.com

About HAMR Energy

HAMR Energy is an Australian low carbon fuels company dedicated to accelerating global decarbonisation of hard to abate sectors. With our experience in complex energy projects, we produce low carbon fuels and chemicals to help decarbonise industries like shipping & aviation. We have the expertise, technology and vision to develop one million tonnes of low carbon fuels capacity by 2030. www.hamrenergy.com

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