

Koppö Energia decides for thyssenkrupp Uhde's green methanol technology

- **E-methanol produced with captured CO₂**
- **uhde® green methanol technology**

Koppö Energia Oy has chosen uhde® green methanol technology and ordered a FEED (Front End Engineering Design) from thyssenkrupp Uhde. The planned e-methanol plant is part of a power-to-x (P2X) project developed by Koppö Energia in Kristinestad, Finland. With a planned capacity of 450 metric tons per day (mtpd) of e-methanol in various grades, the different product grades will support the maritime and e-gasoline fuel markets.

Nadja Håkansson, CEO of thyssenkrupp Uhde: "We are proud that our technology and implementation know-how will contribute to this pioneering project by Koppö Energia Oy. This is an excellent proof point for cross-industrial cooperation in the establishment of green methanol as a fuel."

While grey methanol is usually produced from natural gas, green methanol – often called e-methanol – is produced via direct hydrogenation of CO₂. Using uhde® green methanol production technology and green hydrogen produced from green electricity and water, the resulting e-methanol has a much lower carbon footprint. The necessary renewable hydrogen will be produced by a 200MW water electrolysis plant. CO₂ will be captured in the city of Vaasa in Finland from a waste incineration facility. It is then liquified and transported via trucks to the P2X facilities.

Thomas Zirngibl, Director at Koppö Energia: "We are very pleased to cooperate with thyssenkrupp Uhde on this project as they bring the right technologies as well as the integration skills for ensuring a smooth tie-in and project delivery."

Economic and ecological advantages

uhde® green methanol technology offers high carbon and hydrogen efficiencies which enhance the project revenues and its feasibility. Thanks to the patented process scheme, thyssenkrupp Uhde methanol plants have a very low amount of purge gas which significantly reduces the carbon intensity of the facility.

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 Koppö Energia Oy

Koppö Energia is a joint venture of funds managed by Germany-based Prime Capital AG, a renowned asset manager and financial services provider, specializing in alternative energy projects, and CPC Finland, a subsidiary of project developer and green power producer CPC Germania.

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