



thyssenkrupp

Press release

thyssenkrupp Uhde

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## **Green ammonia: thyssenkrupp Uhde signed a contract with Ark Energy for the Han-Ho H2 Hub Feasibility Study**

- **Study to support the development of the Han-Ho H2 Hub Project**
- **Proven RHAMFS® methodology for concept optimization of green ammonia plants**

thyssenkrupp Uhde has been engaged by Ark Energy Corporation Pty Ltd on behalf of the Han-Ho H2 Consortium (the 'Consortium') to deliver a Feasibility Study to support the development of the Han-Ho H2 Hub Project. The study will involve a comprehensive techno-economic analysis of the power-to-ammonia value chain using thyssenkrupp Uhde's proprietary RHAMFS® methodology.

The goal is to evaluate the influence of various factors on the overall cost-effectiveness of the green ammonia plant and explore multiple scenarios to identify optimal plant designs. thyssenkrupp Uhde will also provide technology, engineering services and integration know-how for the green ammonia facility based on thyssenkrupp uhde® ammonia synthesis technology. The study will allow the Han-Ho H2 Consortium to advance through the following commercial and regulatory phases of the Project.

Thore Lohmann, Executive Director Fertilizer & Methanol at thyssenkrupp Uhde, said: "With our technologies, we at thyssenkrupp Uhde are making a significant contribution to the green transformation. With new partnerships like this one with Ark Energy, we are building a sound business case for this groundbreaking green energy project and taking an important step towards climate-friendly production of green ammonia."

Daniel Kim, Chief Executive Officer at Ark Energy: "The Consortium's collective ambition is to build a green energy supply chain exporting up to 1.8 million tonnes of green ammonia from Australia to Korea by 2030. We have great respect for thyssenkrupp Uhde's proven track record in ammonia built up over 90 years across 130 plants globally. We have valued thyssenkrupp Uhde's contribution during the Concept Stage of our Han-Ho H2 Hub and look forward to working even more closely with them during the Feasibility Stage of our landmark project."

### **About Ark Energy**

Ark Energy Corporation Pty Ltd is a leading Australian renewable energy company specialising in wind, solar, energy storage and hydrogen. Ark Energy is a subsidiary of Korea Zinc Co. Ltd., the world's largest zinc producer with a proud 25-year history in Australia through its Sun Metals zinc refinery in Townsville. Ark Energy's mandate is to decarbonise the energy supply of the Korea Zinc group starting with Sun Metals, as part of the group's ambition to produce 'green' zinc by 2030. Ark Energy is at the forefront of development of Australia's green hydrogen industry through its SunHQ Hydrogen Hub in Townsville and is leading the Han-Ho H2 Consortium involving three of Korea's largest conglomerate groups including Hanwha Impact, Korea Zinc and SK Gas. For more information visit <https://arkenergy.com.au/>



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### **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 producing base chemicals, fertilizers and polymers as well as complete value-chains for green hydrogen and sustainable chemicals. [www.thyssenkrupp-uhde.com](http://www.thyssenkrupp-uhde.com)

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