



News Release

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Nutrien Selects thyssenkrupp Uhde as Technology Partner for Clean Ammonia Project

World's largest clean ammonia production facility planned for Geismar, Louisiana site

SASKATOON, Saskatchewan – Nutrien Ltd. (TSX and NYSE: NTR) announced today that thyssenkrupp Uhde has been selected as technology provider and partner for the world's largest clean ammonia plant Nutrien plans to build at its existing Geismar, Louisiana site. The anticipated plant will have an expected annual production capacity of 1.2 million tonnes and is expected to capture and store more than 90 percent of the CO₂ emissions to achieve the lowest carbon footprint of any ammonia plant at this scale with the potential to transition to net-zero emissions with future modifications. The new clean ammonia plant will serve growing demand in agriculture, industrial and emerging energy markets. The final investment decision on the project is expected in 2023, and if approved, full production is anticipated by 2027.

"This partnership marks another important milestone in our commitment to provide solutions to help meet the world's decarbonization goals through leadership in clean ammonia production," said Trevor Williams, Interim President, Nitrogen and Phosphate at Nutrien. "We are glad to have an experienced partner with both the technology and proven execution competence to join us on this journey as we strive to sustainably feed and fuel the future."

Dr. Cord Landsmann, CEO thyssenkrupp Uhde said, "We are excited to be the chosen technology partner for this project and support the execution as well. This is another proof point that the market is shifting towards sustainable, clean ammonia. And we can deliver easy to install solutions at the necessary scale."

Proven technology for emissions reduction in ammonia production

Traditional ammonia plant designs can only achieve carbon capture rates of up to 70 percent and face significant challenges to reach a net-zero design. Nutrien's clean ammonia plant will use autothermal reforming technology – the next generation of ammonia and hydrogen production technology – which is expected to achieve carbon capture rates of at least 90 percent and the potential to scale to a net-zero design.

thyssenkrupp Uhde has the demonstrated ability to design and engineer projects that meet or exceed safety and operational requirements. The company is a trusted partner and has worked with Nutrien on several past projects, providing services ranging from licensing and technology up to full engineering, procurement and construction (EPC). With over 100 years of experience in engineering and building more than 2,500 chemical plants, thyssenkrupp Uhde is a leading global technology and EPC provider, integrating various technologies and building complete chemical complexes is part of its established track record.

Of the 130 ammonia plants worldwide, thyssenkrupp has built some of the largest plants and frequently sets new industry standards such as the uhde® dual pressure technology. Besides the fertilizer industry,

thyssenkrupp Uhde is also targeting the clean energy market with its clean ammonia technologies and is also completing the value chain by offering ammonia storage and ammonia cracking solutions being relevant for the transition towards clean energy.

Nutrien is committed to leading the development of clean ammonia to rapidly accelerate the decarbonization of hard-to-abate sectors such as agriculture, industrial use of ammonia, power generation, and maritime fuel. Nutrien previously announced that it selected Denbury Inc. as its carbon sequestration partner and Mitsubishi Corporation as an offtake partner for the anticipated clean ammonia plant. As one of the world's largest ammonia traders by marine transportation, Nutrien also announced in 2021 a collaboration agreement with EXMAR to jointly develop and build one of the first low-carbon ammonia-fueled maritime vessels as early as 2025. This vessel is expected to demonstrate that we can decarbonize shipping by safely integrating ammonia into every aspect of the design.

Forward-Looking Statements

Certain statements in this news release constitute "forward-looking information" or "forward-looking statements" (collectively, "forward-looking statements") under applicable securities laws including our expectations for a clean ammonia production facility (and timing thereof), production capacity, use of technologies, partnerships, carbon capture and sequestration, greenhouse gas reductions and carbon footprints as well potential for net-zero emissions, statements about future operating results and offtake agreements, and our expectations for low-carbon, ammonia fueled maritime vessels. Forward looking statements in this news release are based on certain key expectations and assumptions made by Nutrien, many of which are outside of our control. Although Nutrien believes that the expectations and assumptions on which such forward looking statements are based are reasonable, undue reliance should not be placed on the forward-looking statements because Nutrien can give no assurance that they will prove to be correct. Forward looking statements are subject to various risks and uncertainties which could cause actual results to differ materially from the anticipated results or expectations expressed in this news release. For information on the assumptions made, and the risks and uncertainties that could cause actual results to differ from the anticipated results, refer to our reports filed with the Canadian securities regulatory authorities and the United States Securities and Exchange Commission.

The forward-looking statements in this news release are made as of the date hereof and Nutrien disclaims any intention or obligation to update or revise any forward-looking statements in this news release, except as may be required under applicable laws.

About Nutrien

Nutrien is the world's largest provider of crop inputs and services, playing a critical role in helping growers increase food production in a sustainable manner. We produce and distribute approximately 27 million tonnes of potash, nitrogen and phosphate products worldwide. With this capability and our leading agriculture retail network, we are well positioned to supply the needs of our customers. We operate with a long-term view and are committed to working with our stakeholders as we address our economic, environmental and social priorities. The scale and diversity of our integrated portfolio provides a stable earnings base, multiple avenues for growth and the opportunity to return capital to shareholders.

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 basic chemicals, fertilizers and polymers as well as complete value-chains for green hydrogen and sustainable chemicals. For more information on thyssenkrupp Uhde, visit
www.thyssenkrupp-uhde.com

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