

thyssenkrupp Uhde to deliver sustainability and digital services for Brunei Fertilizer Industries

- **Uhde's expertise to lower emissions and carbon footprint**
- **Digital twin implementation to optimize operations**

thyssenkrupp Uhde, a major chemical technology solution provider, is pleased to announce the signing of a 5-year framework service agreement with Brunei Fertilizer Industries Sdn Bhd (BFI). This agreement signifies a key milestone in the ongoing collaboration between the two companies, aimed at advancing digitalization and implementing clean technologies in the fertilizer industry. Central to these efforts is the set-up and implementation of a digital twin, which will provide a virtual representation of the plant to enable real-time monitoring, predictive maintenance, and data-driven decision-making. This technology, together with specialized trainings, will allow BFI to enhance operational safety, reduce downtime, and achieve greater energy efficiency.

In addition to that, Uhde will evaluate opportunities to reduce the carbon footprint of a potential second BFI fertilizer complex, ensuring that operations meet the highest environmental standards. This includes evaluating the feasibility of expanding into sustainable ammonia production such as incorporating blue ammonia by adding carbon capture technologies, and green ammonia derived from renewable energy sources.

Brunei Fertilizer Industries: "This agreement is a testament to the excellent cooperation between BFI and thyssenkrupp Uhde. Together, we are committed to driving innovation and sustainability in the fertilizer industry. The development of a digital twin and the exploration of low-emission ammonia projects are key steps towards achieving our environmental objectives." BFI's CEO, Dr. Harri Kiiski adds: "Reducing our environmental impact is at the core of our efforts, particularly in improving the carbon footprint of our products. We are identifying strategies to cut emissions during production and transportation. With one of the most advanced plants globally, we inherently operate at a lower carbon footprint than older facilities, which typically average 50 years in operation."

Nadja Håkansson, CEO of thyssenkrupp Uhde, commented: "We are proud to support BFI in its ambitious journey towards innovation and sustainability. By leveraging our technology and implementation expertise, we create lasting value for our customer and set new standards in operational excellence."

The BFI plant was built by thyssenkrupp Uhde as a fully integrated, state-of-the-art fertilizer complex which comprises an ammonia plant with a daily capacity of 2,200 metric tons as well as a urea plant and a urea granulation plant, both with a capacity of 3,900 tons per day. After its completion, the plant enabled Brunei to produce high-quality nitrogen fertilizer mainly for the export market. Nitrogen is an essential nutrient for plant growth and therefore a key agricultural input.

About Brunei Fertilizer Industries Sdn Bhd

Brunei Fertilizer Industries Sdn. Bhd. (BFI) was established on the 28th of October 2013 and is owned by the Government of Brunei Darussalam. It is the country's premier Ammonia and Urea Plant and also one of the largest single train fertilizer plants in Southeast Asia. BFI's state-of-the-art plant sits on a 55-hectare site in Sungai Liang Industrial Park in the Belait District.

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

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