



thyssenkrupp

Press release

thyssenkrupp Uhde

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thyssenkrupp Uhde and Orica slash greenhouse gas emissions in Newcastle, Australia

- **EnviNOx® technology decreases CO₂-emissions from Orica's three nitric acid plants by N₂O reduction of at least 98%**

thyssenkrupp Uhde and Orica have successfully completed the Kooragang Island Decarbonisation Project in Newcastle, Australia with the successful commissioning of thyssenkrupp Uhde's effective EnviNOx® technology to reduce greenhouse gas emissions at Orica's three on-site nitric acid plants. For this project, thyssenkrupp Uhde provided the proprietary equipment, including the reactor vessels and the catalysts. Orica is one of the world's leading mining and infrastructure solution providers with a global manufacturing capability.

With the EnviNOx® technology it is anticipated that this project will eliminate approximately 567,000 tonnes of carbon dioxide equivalents from the site per year which equals the annual emissions from 50,000 Australian homes. This reduction in greenhouse gas emissions corresponds to 48% of the site's total greenhouse gas emissions and 11% of all chemical industry emissions in Australia.

Dr. Cord Landsmann, CEO thyssenkrupp Uhde: "With our proven EnviNOx® technology, we at thyssenkrupp Uhde are making a significant contribution to the elimination of greenhouse gas emissions, thus improving the sustainability of manufacturing and reducing the carbon footprint of industries. We are committed to a more sustainable future and therefore support our customers in achieving their sustainability goals using our proven technologies across the value chain."

In acknowledging a significant decarbonization milestone, Orica Managing Director and Chief Executive Officer Sanjeev Gandhi said: "This project clearly demonstrates that with the right policy settings and corporate commitments, emissions reduction is possible in hard-to-abate industries of our economy. We will continue to invest across our operations, to ensure Australian manufactured products remain competitive as the world transitions to a lower carbon economy."

Leading technology to combat global warming

thyssenkrupp Uhde's state-of-the-art EnviNOx® technology for the combined removal of N₂O and NO_x is capable of almost the complete removal of N₂O and NO_x emissions from various chemical production plants. Industrial-scale EnviNOx® units have already been successfully sold over 60 times by thyssenkrupp Uhde worldwide, annually abating more than 30,000 tonnes of NO_x and around 70,000 tonnes of N₂O, equivalent to around 20 million tonnes of CO₂.

This corresponds to the annual amount of CO₂ absorbed by more than 3 million hectares of central European forest. To date, all EnviNOx® units together have already abated a total of more than 220 million tonnes of CO₂ equivalents. Thus, EnviNOx® technology continues to make a noticeable contribution to the global reduction of gases harmful to the climate and environment.

About Orica

Orica is one of the world's leading mining and infrastructure solutions providers. From the production and supply of explosives, blasting systems, mining chemicals and geotechnical monitoring, to innovative digital solutions, Orica sustainably mobilises the earth's resources. Operating for nearly 150 years, Orica's 12,000+ global workforce supports customers across surface and underground mines, quarry construction, and oil and gas operations. For more information visit: <https://www.orica.com/>

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 renewable hydrogen and sustainable chemicals.
www.thyssenkrupp-uhde.com

Contact

thyssenkrupp Uhde
Christian Dill
Senior Communications Manager
Phone: +49 231 547 3334
E-mail: christian.dill@thyssenkrupp.com

Contact

Orica
Andrew Valler
Head of Communications
andrew.valler@orica.com
Tel. +61 437 829 211