STAMICARBON
NEXTCHEM Sustainable Technology Solutions

Press Release

Date: 13.11.2024
Version: FINAL

Stamicarbon (MAIRE) awarded licensing and process design package to apply its proprietary tertiary abatement system in Soluciones Químicas' nitric acid plant in Mexico

Sittard, The Netherlands — Stamicarbon, the nitrogen technology licensor of NEXTCHEM (MAIRE Group), has signed a contract to provide a license and Process Design Package (PDP) for a tertiary abatement unit to be installed at Soluciones Químicas' nitric acid plant in Minatitlán, Veracruz, Mexico.

Stamicarbon will apply its proprietary tertiary abatement technology, a highly efficient system designed to reduce emissions from nitric acid plants. This technology not only helps to comply with strict environmental regulations but also contributes to global efforts to mitigate climate change by reducing the carbon footprint of nitric acid production.

"Stamicarbon is proud to be part of this project, implementing technology for sustainable fertilizer production," says Pejman Djavdan, CEO of Stamicarbon. "This initiative underscores our commitment to providing advanced solutions that drive environmental stewardship in the fertilizer industry."

Tertiary abatement technology, which is part of NX STAMI Nitrates™ portfolio, will be used to provide a tailor-made solution to remove nitrous oxide (N_2O) from the tail gas stream, bringing the plant's environmental status up to current emission regulations.

Tertiary Abatement Technology

Nitrogen oxides (NOx) and nitrous oxide (N_2O), contained in the off-gas from nitric acid production, are harmful to the environment and contribute to acid rain, the greenhouse effect, and ozone layer depletion. Stamicarbon's solution, applicable to both new and existing plants, is a tertiary abatement system featuring a high-temperature reactor with Fe-zeolite catalysts. This proprietary technology is designed to efficiently remove both N_2O and NOx in a single unit, meeting today's strict emission standards while optimizing capital investment and operational efficiency.

Leveraging decades of experience in nitric acid technology, Stamicarbon can design reliable, tailor-made tertiary abatement system for every type of nitric acid plant technology, process conditions, and emission requirements. Read more here.

Stamicarbon B.V.

Stamicarbon, the nitrogen technology licensor of MAIRE S.p.A., designs and licenses fertilizer plant technologies, specializing in urea, green ammonia, and nitric acid. As part of NEXTCHEM, MAIRE's Sustainable Technology Solutions business unit, Stamicarbon leverages the capabilities and expertise of a world-leading engineering group. In total, Stamicarbon has licensed more than 260 urea plants and realized more than 100 revamping and optimization projects. Applying 75 years of knowledge and experience, Stamicarbon offers customers tailored solutions and services to maintain, improve and optimize plants in every stage of their life cycle, with a focus on sustainable fertilizer production. As pioneers with a higher purpose, Stamicarbon has a vision to help enable the world to feed itself and improve the quality of life. Stamicarbon is headquartered in Sittard, The Netherlands, and operates worldwide. For more information: www.stamicarbon.com.

Stamicarbon Media Relations
Nikolay Ketov, Public Relations Officer
M +31 6 11 87 68 86
E nikolay.ketov@stamicarbon.com

MAIRE S.p.A.

MAIRE S.p.A. leads a technology and engineering group that develops and implements innovative solutions to enable the Energy Transition. We offer Sustainable Technology Solutions and Integrated E&C Solutions in nitrogen fertilizers, hydrogen, circular carbon, fuels, chemicals, and polymers. MAIRE creates value in 45 countries and relies on over 8,300 employees, supported by over 20,000 people engaged in its projects worldwide. MAIRE is listed on the Milan Stock Exchange (ticker "MAIRE"). For further information: https://www.groupmaire.com/en/.

Group Media Relations
Carlo Nicolais, Tommaso Verani
T +39 02 6313-7603
E mediarelations@mairetecnimont.it