

## Press Release

**Date: 27.12.2024**

**Version: Final**

### **Stamicarbon (MAIRE) awarded licensing and Process Design Package for a low-carbon fertilizer plant as well as equipment supply in Canada, based on its proprietary NX STAMI UREA™ technology**

**Sittard, The Netherlands** — Stamicarbon, the nitrogen technology licensor of NEXTCHEM (MAIRE Group), has been awarded new contracts related to its proprietary NX STAMI Urea™ technology in Canada.

The first award entails the **Process Design Package (PDP) and the licensing** – the latter being subject to the Final Investment Decision by the client – **for an integrated urea and Diesel Exhaust Fluid (DEF) production plant** currently being developed by Genesis Fertilizers, a farmer-owned consortium, at Belle Plaine (Saskatchewan) in Canada. The plant will have a urea melt capacity of 2,500 metric tons per day (MTPD), with operations expected to begin by 2029. Also thanks to a carbon capture and sequestration unit, it will be the first proposed low-carbon nitrogen fertilizer plant in Canada. Stamicarbon will apply its proprietary Flash urea melt technology, part of [NX STAMI Urea™](#) portfolio, designed to enhance operational efficiency and reliability while minimizing process steam consumption.

The plant will also include a DEF facility with a production capacity of 1,500 MTPD. DEF, also known as AdBlue® in Europe, is a 32.5% high-purity urea solution in deionized water, developed to reduce NOx emissions from diesel engines. Stamicarbon's DEF production design, part of the [NX STAMI Specialties](#) portfolio, enables the direct production of ISO 22241-compliant DEF from aqueous urea solution from any urea plant, ensuring high quality and lower production costs by eliminating finishing and blending.

The second award is related to the supply of a replacement **High-Pressure Urea Stripper** to Nutrien's Fort Saskatchewan Nitrogen Operations (FNO) in Alberta, Canada. With cutting-edge engineering and advanced materials expertise, this **proprietary equipment** is designed to enhance operational efficiency while minimizing downtime and ensuring long-term reliability.

"These awards highlight Stamicarbon's leadership in providing efficient urea technology and tailored, high-performance equipment engineered to meet the evolving needs of fertilizer producers," said Pejman Djavdan, CEO of Stamicarbon.

#### **Stamicarbon B.V.**

Stamicarbon, the nitrogen technology licensor of NEXTCHEM (MAIRE Group), 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](http://www.stamicarbon.com).

### **Stamicarbon Media Relations**

Nikolay Ketov, Public Relations Officer  
M +31 6 11 87 68 86  
E [nikolay.ketov@stamicarbon.com](mailto:nikolay.ketov@stamicarbon.com)

**MAIRE S.p.A.** is a leading technology and engineering group focused on advancing the Energy Transition. We provide Integrated E&C Solutions for the downstream market and Sustainable Technology Solutions, the latter through three business lines: Sustainable Fertilizers, Low-Carbon Energy Vectors, and Circular Solutions. With operations across 45 countries, MAIRE employs over 9,300 people, supported by a global network of 20,000 project partners. MAIRE is listed on the Milan Stock Exchange (ticker "MAIRE"). For further information: [www.groupmaire.com](http://www.groupmaire.com).

### **Group Media Relations**

Carlo Nicolais, Tommaso Verani  
T +39 02 6313-7603  
E [mediarelations@mairetecnimont.it](mailto:mediarelations@mairetecnimont.it)