

NEXTCHEM (MAIRE) AWARDED A FEASIBILITY STUDY FOR A SUSTAINABLE AVIATION FUEL (SAF) PROJECT IN INDONESIA BASED ON ITS PROPRIETARY NX PTU™ AND NX SAF™ BIO TECHNOLOGIES

- **NEXTCHEM will evaluate the optimal design and plant configuration for a 60,000 tonnes per year SAF production facility based on its proprietary technologies**
- **NEXTCHEM will offer an integrated end-to-end solution combining NX PTU™ and NX SAF™ BIO proprietary technologies**

Milan, 5 August 2024 - **MAIRE (MAIRE.MI)** announces that **NEXTCHEM** (Sustainable Technology Solutions) has been awarded a feasibility study along with PT Tripatra Engineers and Constructors for a Sustainable Aviation Fuel (“SAF”) project located in Sei Mangkei, Indonesia.

The agreement includes the joint development of a small-scale modular SAF plant. The facility will be fed by regionally sourced feedstock, such as used cooking oil and palm oil mill effluent, with a production capacity of 60,000 tons per year.

The first step of the collaboration envisages a feasibility study to evaluate the optimal design and configuration for the plant, based on NEXTCHEM’s proprietary technologies.

NEXTCHEM offers a fully integrated package which includes the NX PTU™¹ technology, the hydrogen production unit, and the NX SAF™ Bio technology, an hydrotreated esters and fatty acids (HEFA)² proprietary process for a complete and smooth project deployment for SAF production. This process uses 2nd generation vegetable oils and residual fats, which are pre-treated through the NX PTU™ technology. The purified feedstock is then refined into SAF using hydrogen through NX SAF™ BIO technology, which allows to produce an ultra-low carbon SAF able to reduce aviation emissions by up to 95% compared with the use of fossil fuels³. The high-level of standardization, coupled with a modular and compact design of the technology, allows a fast project execution and makes it ideal for small-scale plants in any geographies.

Alessandro Bernini, MAIRE CEO, commented: “This agreement is a testament of our commitment to leading the energy transition with state-of-the-art technologies and end-to-end solutions. MAIRE is effectively able to decarbonize high-impact sectors such as aviation by leveraging on its integrated approach ranging from project development to full execution capabilities.”

¹ NX PTU™ is a proprietary pretreatment process for second generation oleaginous feedstocks.

² The Hydrotreated Esters and Fatty Acids (HEFA) refines vegetable oils, waste oils, or fats into SAF through a process that uses hydrogen (hydrogenation). In the first step of the HEFA process, the oxygen is removed by hydrodeoxygenation.

³ Based on the results of a Life Cycle Assessment analysis.

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 8,500 employees, supported by over 20,000 people engaged in its projects worldwide. MAIRE is listed on the Milan Stock Exchange (ticker "**MAIRE**").
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