Trade Release
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ENGIE selects the Shell XTL Process for the France KerEAUzen e-SAF project

Le Havre, France – ENGIE has signed a technology licence agreement with Shell Catalysts & Technologies for the France KerEAUzen project, which aims to produce synthetic aviation fuel (e-SAF) from captured biogenic CO2 and renewable (green) hydrogen.

Under the agreement, Shell Catalysts & Technologies will license its Shell XTL* Process technology in its power-to-liquids (PTL) archetype, enabling ENGIE to convert CO2 into synthetic kerosene. This integrated process includes the Shell Reverse Water-Gas Shift (RWGS) Process, which converts CO2 and hydrogen into synthesis gas, followed by the Shell Fischer–Tropsch Process and the Shell Wax Hydroconversion Process to produce drop-in aviation fuel meeting ReFuelEU Aviation requirements.

*X-to-liquids, where X stands for anything sustainable, renewable and low carbon.

The France KerEAUzen project, located in Le Havre, Normandy, was selected under the ADEME Carb Aero initiative and represents a key step in developing a European e-SAF value chain in France and Europe. Its location provides strong access for aviation fuel to Paris airports as well as to other major European airports and logistics hubs.

ENGIE selected Shell's technology based on its energy efficiency, technology maturity and proven delivery track record. The Shell XTL Process builds on Shell's decades of experience in developing, designing, constructing and operating gas-to-liquids (GTL) facilities, including Pearl, the world's largest integrated GTL plant.

Pierre Chambon, Managing Director, Renewable Gases, ENGIE, said: "The conversion of CO2 into aviation fuel requires the integration of complex and reliable technologies. Shell's XTL Process, combined with its operational experience and proven technology, gives us confidence as we progress the France KerEAUzen project towards industrial deployment."

Elise H. Nowee, President, Shell Catalysts & Technologies, added: "France KerEAUzen demonstrates how technology can enable the production of drop-in aviation fuel at industrial scale. By licensing the Shell XTL Process to ENGIE, we are supporting the long-term decarbonisation of aviation."

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About ENGIE

ENGIE is a major player in the energy transition, whose purpose is to accelerate the transition towards a carbon-neutral economy. With more than 90,000 employees in 30 countries, the Group covers the entire energy value chain, from production to infrastructure and sales. ENGIE combines complementary activities: renewable electricity and green gas production, flexibility assets (notably batteries), gas and electricity transmission and distribution networks, local energy infrastructures (heating and cooling networks) and the supply of energy to individuals, local authorities and businesses. Every year, ENGIE invests on average €12 billion to drive forward the energy transition and achieve its net-zero carbon goal by 2045.

For more information, visit www.engie.com.

About Shell Catalysts & Technologies

Shell Catalysts & Technologies exists to provide Shell and non-Shell businesses with the tools, technologies and insights that are needed to navigate the energy transition.

We are pushing boundaries in the energy transition space. For decades, we have been developing game-changing technological innovations to solve seemingly insurmountable challenges. Now we have, or are developing, a wide range of differentiated solutions that offer attractive decarbonisation opportunities, including biofuels, carbon capture and decarbonised (blue) hydrogen technologies.

What sets us apart is the knowledge we have gained from Shell's corporate heritage as an operator of refineries and petrochemical plants around the world. It also gives us a unique perspective on how refiners can remain competitive.

Our world-class catalyst and research and development expertise has enabled us to establish an enviable track record for developing leading-edge zeolites and catalysts, advanced solvents and pioneering processes, and provides a strong foundation for our future technology development.

For more information, visit www.shell.com/ct.

About France KerEAUzen

France KerEAUzen is an industrial e-SAF project developed by ENGIE in Le Havre, Normandy. The project's goal is to produce sustainable aviation fuel at a large scale by combining biogenic CO_2 with hydrogen through a power-to-liquids process using renewable electricity. Situated close to significant industrial and logistics infrastructure, the project aims to support the development of a European e-SAF value chain and contribute to the decarbonisation of the aviation industry.

For more information, visit https://france-kereauzen.fr/en.