

KHIMOD and Elyse Energy team up to produce Sustainable Aviation Fuels through collaborative project AVEBIO

AVEBIO aims at demonstrating the production of sustainable e-fuels for air transport based on the yet-to-valorize CO₂ of a biofuel production unit. The goal of this industrial pilot is to valorize biomass deposit while using competitive synthetic carbon to set off the e-fuel industry.

AVEBIO project will also encompass an end-to-end solution from CO₂ to e-fuels thanks to the integration of 2 reactions: reverse Water Gas Shift (rWGS) from CO₂ to CO and Fischer-Tropsch from CO to e-fuels.

KHIMOD will provide the disruptive heat exchanger-reactors within the CO₂ hydrogenation units, producing valuable synthetic molecules and overcoming reverse water gas shift main technological hurdle, namely heat management. KHIMOD will also provide the Fischer-Tropsch reactor and the necessary interaction between the rWGS and the Fischer-Tropsch technological bricks.

Elyse Energy will coordinate the project and explore the launch on an industrial pilot on RYAM site in Tartas to valorize biogenic CO₂ from second generation bioethanol plant.

AVEBIO has been granted support within the framework of the 4th Investment Program for the Future - France 2030 through the Call for Projects aimed at «developing a French production sector for sustainable aeronautical fuels» known as CARB AERO.

We are proud to partner with Elyse Energy on this innovative project. We truly believe that e-SAF is the future of aviation and KHIMOD develops the solutions necessary to decarbonize air transport.

Sustainable aviation fuels are crucial to support the decarbonation of air transport. To that end, direct use of CO₂ will be critical to ensure sufficient sustainable supply. We are very pleased to work with KHIMOD on the AVEBIO project to develop an efficient CO₂-to-SAF technological building bloc.



Nicolas Serrie
Chief Executive Officer of KHIMOD

KHIMOD is a French green-tech company which develops and sells solutions for the production of valuable synthetic molecules such as e-methane, e-methanol and e-kerosene. KHIMOD's technology is field-proven and relies on disruptive and innovative heat exchanger-reactors, allowing CO₂ reuse and valorization. Besides its reactors, KHIMOD designs and manufactures turnkey systems and delivers related services, for the production of those synthetic molecules. KHIMOD is active on several markets on a worldwide scale, namely waste valorization, chemistry, hard-to-abate industries (e.g. steel and cement), air and maritime transportation.

PRESS ENQUIRIES

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Benoît Decourt
Co-founder and
Chief Operating Officer of Elyse Energy

Elyse Energy was founded in 2020 and is based in Lyon, Marseille and Madrid. It produces e-fuels through the development and operation of green hydrogens and e-fuels (e-methanol and SAF) plants. Elyse Energy aims at providing concrete solutions and carbon neutral fuels for air and maritime transports, as well as substitutes for industry and petrochemistry. Elyse Energy relies on a team of experts in hydrogen and carbon capture and utilization technologies, specialists in financing and development of large energy projects, all of whom are committed to the transition to an energy that respects both nature and the climate.

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