



alfafuels

Sustainable jet fuels from CO₂ by micro-algal cell factories in a zero-waste approach

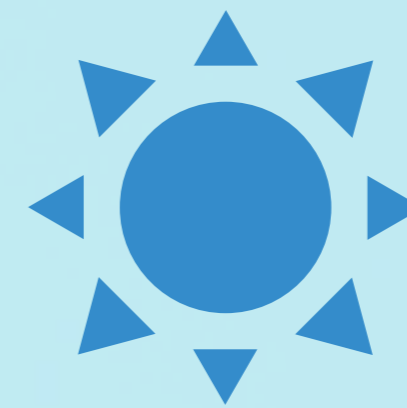


AVIATION DECARBONISATION

The project will play a key role in decarbonising the aviation industry by providing a sustainable alternative to conventional fuels, and reducing greenhouse gas emissions associated with flights.

CLIMATE CHANGE MITIGATION

By capturing and using CO₂ directly in Sustainable Aviation Fuels (SAF) production, ALFAFUELS contributes to climate change mitigation, reducing reliance on fossil fuels in favour of renewable carbon sources.



TECHNOLOGICAL EFFICIENCY AND SUSTAINABILITY

ALFAFUELS stands out for developing innovative and sustainable technological solutions at every stage of the SAF production process, enhancing overall efficiency and sustainability in the aviation value chain

CIRCULAR ECONOMY AND RESOURCE EFFICIENCY

Applying a circular and zero-waste approach, the project maximise resource efficiency by valorising all cellular components in a biorefinery, and co-producing valuable products like starch and hydrogen from CO₂.



COST REDUCTION

ALFAFUELS aims to lower production costs by minimising raw material expenses, optimising process efficiency, and incorporating innovative technologies, contributing to the long-term economic viability of sustainable aviation fuels.

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