

Objective

The primary ambition of this project will be to demonstrate and validate the technical and economic viability of the integrated SABR-TCR® technology approaches, together with their environmental and social sustainability, as well as the cost-competitiveness, at commercial scale through the construction of a demonstrator that will also serve as an exemplar to facilitate rapid uptake and significantly de-risk subsequent commercial exploitation. This project will mark the first pre-commercial scale deployment of the technology processing dried food waste and waste vegetable oil into 1200 tonnes per year of liquid aviation biofuels.



Coordinator



Partners



info@greenflexjetproject.eu

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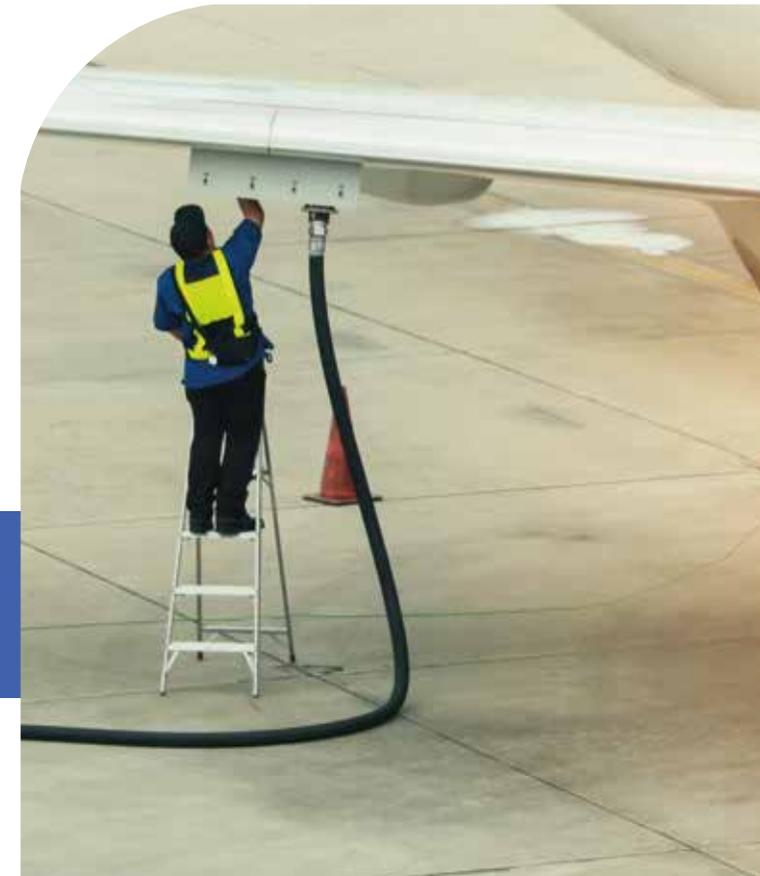
Duration: April 2018 - March 2024



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Sustainable Jet Fuel from Flexible Waste Biomass



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GreenFlexJET Project will validate a new integrated process to produce sustainable aviation fuel.

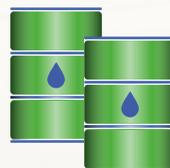
The innovative **GreenFlexJET** project uses a diverse range of **organic waste feedstocks** for sustainable aviation fuel (SAF). The process offers better economics and improved overall sustainability by processing waste feedstocks near the source and at a scale that matches the waste availability. This thermal conversion technology is the first ever to use green hydrogen from waste feedstock for refining of SAF thereby maximising greenhouse gas savings.



The **GreenFlexJET** process combines **SABR technology** for the refining of biodiesel from organic waste fats with the **TCR® technology** for the production of biocrude oil from organic solid waste. The hydrogen for refining will be separated from syngas using a standard PSA and directed to the HDO process to generate the biofuel.

Demonstrate technical viability and cost-competitiveness of the production of aviation fuels.

Through construction and operation of a pre-commercial scale demonstration plant, the **GreenFlexJET** project will provide clear technical and economic validation whilst delivering high quality fuels and will therefore be an exemplar showcasing production and distribution of this novel SAF technology, designed to deliver **a cost competitive sustainable process to produce fuels for aviation** whilst significantly reducing the carbon footprint of this industry.



The **GreenFlexJET** process is **highly scalable** and less capital-intensive than current technologies and can be integrated into existing infrastructure. It provides for a sustainable, cost-competitive aviation fuel by combining regional and local supply and demand strategies in a circular economy.

Decarbonisation of the aviation and road transport sectors.

As a key factor to the **decarbonisation** of the aviation transport sector, it contributes to the Renewable Energy Directive Targets in Europe and to the fulfilment of the Carbon Offsetting and Reduction Scheme for International Aviation (CORSA) goals.

SABR-TCR® technology presents many advantages in terms of **flexibility** of scale and delocalisation at regional and local level, **flexibility** of feedstock, quality and reproducibility of output independent of feedstock, and relatively low cost (capital and operational).

