



AIM OF THE PROJECT

The innovative flexJET project is diversifying the feedstock for sustainable aviation fuel (SAF) beyond vegetable oils, biodiesel and fats to include bio oil produced from a wide range of organic waste. 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 project provides clear technical and economic validation, by building a demonstration plant at pre-commercial scale to deliver high quality SAF.

OBJECTIVES

The flexJET 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. 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 fulfillment of the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) goals.

ADVANTAGES

flexJET has many advantages and demonstrates flexibility:

- Flexibility of Feedstock
- Flexibility of Scale
- Flexibility of Product
- Flexibility of Operation



Duration:
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CONSORTIUM

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- University of Birmingham (UK)
- Fraunhofer Umsicht, Germany
- University of Bologna, Italy
- Susteen Technologies
- WRG Europe Ltd, UK
- Green Fuels Research Ltd, UK
- Hygear BV, The Netherlands
- BIGA Energie GmbH, Germany
- ETA-Florence Renewable Energies, Italy
- SkyNRG, The Netherlands
- LEITAT, Spain
- Sheffield University, UK