



PRESS RELEASE

BIO4A: the new H2020 project on Sustainable Aviation Fuel in Europe takes off

BIO4A will demonstrate first large industrial-scale production and use of sustainable aviation fuel in Europe, and investigate the potential of recovery dry marginal land in Southern EU

Florence, Italy (May 25, 2018) – Consortium BIO4A

A new Horizon 2020 project will scale up the industrial production and market uptake of sustainable aviation fuel, made from lipids, such as Used Cooking Oil. It will also investigate Camelina a drought-resistant non-food crop grown on recovered EU Mediterranean (MED) marginal lands. The produced sustainable aviation fuel, that will meet the conventional ASTM jet fuel standards, will be used by commercial airlines in regular passenger flights, thus contributing to achieve the EU's goal for the decarbonization of the aviation sector.

Coordinated by the Italian research organisation RE-CORD (Renewable Energy Consortium for Research and Demonstration) of the University of Florence, the four-year project BIO4A (*Advanced Sustainable Biofuels for Aviation*) will run until 2022 and will be carried out by an international high-level partnership from France, The Netherlands, Spain, Belgium and Italy: TOTAL, SkyNRG, CENER (National Renewable Energy Centre of Spain), CCE (Camelina Company España), EC-JRC (European Commission - Joint Research Centre) and ETA-Florence Renewable Energies.

In 2011 the EU launched the Biofuels FlightPath Initiative as a strategy to promote the market development of sustainable aviation fuels and set the very ambitious target of 2 Mt/y of aviation biofuels consumption in Europe by 2020. BIO4A will contribute to this strategy, demonstrating that sustainable aviation fuel industrial production capacity exists in the EU, in a biorefinery soon to be started-up in France (La Mède), with a production target of at least 5,000 tons of HEFA (Hydrotreated Esters and Fatty Acids) sustainable aviation fuel. The activities of BIO4A will cover all steps of the value chain, from sourcing of sustainable feedstocks, to conversion into ASTM-certified sustainable aviation fuel, to blending and distribution to end-users at various airports across Europe. The sustainable aviation fuel, biojet, will be distributed through standard airport infrastructure for commercial flights operated by multiple European airlines. The project will analyse a series of business cases to design effective and attractive market strategies based on real trading experiences, for the market uptake of aviation biofuels.

BIO4A will also carry out extensive R&D work on recovering marginal lands in the Mediterranean regions at high risk of desertification, exploring the cultivation of Camelina, a crop suitable for dry MED areas, which oil can be used for biojet production. By adopting a combination of biochar and other soil amendments, the research will aim at developing a cost-effective long-term strategy to increase the EU MED soil resilience to climate change and fertility, while at the same time sequestering and storing fixed carbon into the soil and producing a low-ILUC biofuel for aviation from Camelina (as indicated in the EU Renewable Energy Directive II proposal). Scenarios for potential replication in the EU MED area will be modelled, together with a full chain life cycle and sustainability analysis.





Prof. David Chiamonti, RE-CORD, project coordinator says: *“Air transport is among the most critical ones to decarbonise, a priority for the European Union together with heavy duty and maritime. BIO4A is a significant step forward towards clean aviation in Europe: it will bring the use of sustainable biojet ahead in terms of volume and innovation. Moreover, the research on increasing resilience of EU MED dry marginal land to climate change will open a new window to sustainable biomass production in the EU.”*

Eline Schapers, Head of Supply and Operations at SkyNRG, world market leader in distribution and commercialisation of sustainable aviation fuel, says: *“The BIO4A project is an important step in scaling-up commercial production capacity for sustainable aviation fuel in Europe. We’re proud to be part of this project and are looking forward to setting up efficient and large-scale supply chains to further integrate sustainable aviation fuel use in Europe.”*

About BIO4A

BIO4A (*Advanced Sustainable Biofuels for Aviation*) has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 789562. It addresses the topic “Enabling pre-commercial production of advanced aviation biofuel” (LCE-202016-2017 call).

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