

## **BioSFerA** Biofuels production from Syngas

Fermentation for Aviation and maritime use



This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 884208.

Setting the course for sustainable aviation and marine fuels

Aviation and marine transport have a direct effect on global greenhouse gas emissions and air quality. BioSferA project aims to mitigate this impact through the development of innovative and high performing biofuels. The project is funded by European Unions' Horizon 2020 research program.

## **Project Objectives**

The BioSFerA project aims to validate a combined thermochemical - biochemical pathway to develop cost-effective interdisciplinary technology to produce sustainable aviation and maritime fuels. At the end of the project next generation aviation and maritime biofuels, completely derived from second generation biomass, will be produced and validated by industrial partners at pilot scale.



BioSFerA addresses current policy target related to climate change and environmental protection.



BioSFera develops a cost-effective and versatile value chain with favourable conditions for profitable investments around Europe.







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## > 40%GHG emissions reduction

> 22% Land use reduction

> 70%Total Carbon conversion

up to 60%Reduction of production cost compare to other technologies

The BioSFerA project will undertake a full value chain evaluation that will result in a final analysis to define a pathway for the market introduction of the project concept. Some crosscutting evaluations carried out on all tested and validated processes will complete the results of the project from an economic, environmental and social point of view.



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