GLAMOUR

www.glamour-project.eu

GLycerol to Aviation and Marine prOducts with sUstainable Recycling

PROJECT

GLAMOUR aims at demonstrating the conversion of bio-waste feedstock such as glycerol into jetfuel and marine diesel oil by combining two technologies: Syngas generation with inherent CO_2 removal using gas solid reactions. Compact Fischer-Trospsch process with 3D printed catalyst.

OBJECTIVES

The objective of the GLAMOUR is the design, scale-up and validation of an integrated process that converts the waste bio-based feedstock such as crude glycerol into aviation and marine diesel fuels. The GLAMOUR process will achieve full conversion of the crude glycerol into synthetic paraffine kerosene (FTSPK) to be used as jetfuel and into marine diesel oil (MDO) with an energy efficiency of 65% and the remaining gas will be converted into pure CO_2 stream (purity >95%) and extra heat available.

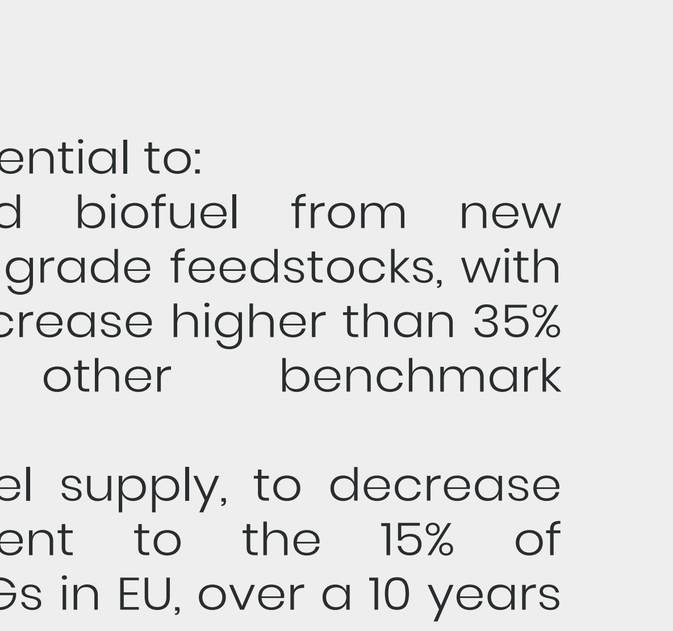
IMPACT

GLAMOUR has the potential to:

- Produce advanced biofuel from new bio-waste and low-grade feedstocks, with a potential cost decrease higher than 35% compared to other benchmark technologies.
- Scale-up the biofuel supply, to decrease emissions equivalent to the 15% of aviation-based GHGs in EU, over a 10 years perspective.
- Generate a scalable business up to 11 bln /year in EU thereof.

CONSORTIUM

The University of Manchester · TU/e Eindhoven University of Technology · TNO innovation for life · CSIC Consejo Superior de Investigaciones Científicas · vito · CiaoTech · Siirtec Nigi · Argent Energy · INERATEC · C&CS catalysts & chemical specialities



CONTACT US

PROJECT COORDINATOR

Vincenzo Spallina,

Lecturer in Chemical Engineering Department of Chemical Engineering and Analytical Science, School of Engineering, The University of Manchester

vincenzo.spallina@manchester.ac.uk

linkedin.com/company/glamour-horizon-2020

twitter.com/GlamourH2020

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 884197.
This poster reflects only the author's view and that the European Commission is not responsible for any use that may be made of the information it contains.