

Heat to Fuel

www.heattofuel.eu



What is it?

Heat-to-Fuel is a Horizon 2020 EU-funded project carried out by 14 partners from across Europe that aims to deliver the next generation of biofuel production technologies supporting the de-carbonisation of the transportation sector.

Why HtF?

Transportation fuels corresponded in 2013 to 31.6% in Europe of the final energy consumption. The source of this energy depends to a large extent on fossil fuels import, being diesel and kerosene the two major fuels for heavy trucks and air transportation. Thus, decarbonised production diesel and kerosene as alternative to fossil fuels becomes relevant for reducing carbon emissions in these two means of transport. Heat-to-Fuel will spearhead EU's research in grasping the opportunity to provide efficient technologies and processes for decarbonised fuels for the transportation sector

NOVEL TECHNOLOGIES + COMPLEMENTARY ACTIVITIES DESIGN MODELLING

TESTING | ANALYSIS INTEGRATED HEAT TO FUEL SYSTEM + DEVELOPMENT HARDWARE PROCESSES

REPRESENTATIVE OF NEXT GENERATIONS OF SUSTAINABLE BIOFUELS TECHNOLOGIES

At the end of the project, the technology will be market ready in around 7 years. The know-how acquired will allow scalability at a demonstration level before commercialisation

Objectives

In numbers, Heat-to-fuel aims to:

- Deliver cost-competitive technologies achieving biofuel prices below €1 per litre. This is achieved by a 20% cost reduction in the biofuel production processes;
- Contribute to delivering goals of EU's energy security by increasing the share of local resources used for producing energy, and thus reducing EU's dependency of energy's imports;

Increase the quality of the biofuel resulting in 5% life-cycle green-house gases emissions reduction;

Support local economies by generating 80-100 direct and 250 indirect jobs each time a new Heat-to- Fuel biorefinery is built;

Prove the technological feasibility and economic worthiness of the concept acting as a catalyst of future industrial units.

Project Facts

Title: Biorefinery combining HTL and FT to convert wet and solid organic, industrial wastes into 2nd generation biofuels with highest efficiency

Acronym: Heat-to-Fuel Budget: € 5.896.987,50 Type of action: Research and Innovation Action Duration: 48 months

This project has received funding from European Union's Horizon 2020 research and innovation programme under grant agreement n° 764675