

FUELPHORIA project to establish sustainable value chains for renewable fuels

Multi-disciplinary consortium launches EU-funded project that will set up and test value chains for advanced biofuels and renewable non-biological fuels in four demos in Europe.

Athens, 12th October 2023

23 partners from the EU, Kenya and the UK met yesterday in Athens to kick off the FUELPHORIA project, which aims to establish sustainable, competitive and secure value chains for advanced biofuels and renewable non-biological fuels.

The **project contributes to the objectives of the European Commission's 2022 REPower EU Plan** "to scale-up renewables, achieve electrification, and replace fossil-based heat and fuel in industry, buildings, and the transport sector".

Project partners will demonstrate that **sustainable value chains for advanced biofuels and non-biological renewable fuels can be established in real environment**, offering an alternative to fossil fuels.

"The active participation of all the players along the value chains is of key importance for project's success. **Feedstock suppliers, technology providers, and end-users will be involved** in the different phases and activities of the project, from the sustainable supply of feedstock, to the conversion of feedstock into renewable fuels, and the transport to the end user."

Kostis Atsonios, FUELPHORIA Project Coordinator, CERTH

A range of **chemical, electrochemical, biological, thermochemical, and photobiological processes** will be used to convert different feedstocks into **an array of renewable fuels**. The fuels will be developed to meet quality specifications defined by **end-users in the transport sector (aviation, maritime and road) and in the power production sector (gas or oil-fired thermal plants)**.

Four demonstrators in Spain, Belgium, and Greece will serve as the testing grounds for the nine value chains. They will solve the technical issues related to the conversion of feedstock into renewable fuels and will prepare their market entry, by designing innovative business models.

The participation of the Technical University of Mombasa (Kenya) will play an important role in exploring the possibilities of EU export of renewables and biofuels to Africa. Moreover, the University College of London will explore the potential exploitation of the FUELPHORIA value chains in Egypt.

At the end of the project, a set of policy recommendations for EU policymakers will be developed with the objective of showcasing how the results of the project can contribute to a sustainable transition of the EU energy systems.

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About FUELPHORIA

FUELPHORIA project is funded by the EU research and innovation programme Horizon Europe (GA 101118286). The project will run for the period of four years, from October 2023 until September 2027.

23 beneficiaries and 3 associated partners from 10 countries will work on the project: CERTH (Project Coordinator), Bio Base Europe Pilot Plant, Aquafin, Agencia Estatal Consejo Superior de Investigaciones Cientificas, Orlen UniCRE, CIRCE, Universitat Rovira I Virgili, Vinas del Vero, Gonzalez Byass Servicios Corporativos, Bioagerio Lagada Anonymi Etaireia, QLab Idiotiki Kefalaiouchicki Etairia, Diethenes Panepistimio Ellados, Vernt Monoprosopi Anonymi Etairia Aeiforon Proionton Kai Ypiresion, AlgEn – Center za algne tehnologije, Perseo Biotechnology, Sociedad Anonima Agricultores de Lavega de Valencia, Draxis Research Ventures, Greenovate! Europe, Revolve, Q-Plan International Advisors, ETA – Energia, Trasporti, Agricoltura, European Waste-to-Advanced Biofuels Association, Udruženje za preduzetništvo i inovacije Foodscale Hub, DK Sakellariou & Associates, Technical University of Mombasa, University College of London.

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