THE CONSORTIUM

Project is developed by a well-balanced partnership, combining areas with UCO to biodiesel chains already in place with regions with less experience or lacking successful systems, to maximize knowledge and experience sharing.

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Find out more in the RecOil Project website:

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THE RECOIL PROJECT

RecOil, an initiative supported by the European Commission through the Intelligent Energy for Europe Programme, aims to increase sustainable biodiesel production and its local market intake by enhancing household used cooking oil collection and transformation.

Working Programme

RecOil assesses the "UCO to biodiesel" chain best practices, through a household survey, the industry expertise, the local authorities' cooperation, and a review of the legal and market barriers and opportunities. The information gathered will integrate an online decision-making guide: a tool to assist stakeholders in developing an UCO-to-biodiesel supply chain adjusted to local specifications.

Pilot projects in promotion, collection, transformation and commercialization of UCO/biodiesel will be carried out according to the best practices identified. These projects will be living labs helping to validate the feasibility of these good practices but also showcasing and spreading the project's results in a way that the achievements can be used to promote similar initiatives in other regions and by other entities.



RecOil Project flowchart.

Promotional campaigns and communication tasks will be developed to guarantee stakeholders involvement and to increase public interest about UCO recycling, motivating a behavioral change among citizens.



> Boost, optimize and increase UCO collection and its transformation rate into biodiesel.

> Promotion of biodiesel market by increasing citizen's awareness and involving the key stakeholders.

 Demonstrate best practices and their benefits through pilot projects.

Reduce the competition between agriculture and energy crops for biofuel production.

> Contribute to EU policy and regulation development.

USED COOKING OIL TO BIODIESEL

Used cooking oil is a problematic waste to get rid of. Its inadequate disposal can result in harmful environmental effects: it hinders sewage treatment, pollutes aquatic systems, blocks pipes and causes odors.

One interesting option for UCO management is its energy valorization. Through a simple chemical process UCO can be converted into biodiesel. Nevertheless, the lack of awareness and information among citizens and the technical and legislative barriers for UCO collection lead most part of consumers to pour it directly to the sink.

Biodiesel, a renewable alternative

RecOil

Objectives

Biodiesel is an alternative fuel similar to diesel but with several advantages:

> It is a much better lubricant than diesel, extending the engine's life.

> It is highly biodegradable.

> It provides significant CO_2 reductions, contributing to achieve the target set forward by the EU to decrease greenhouse gases emissions by 20% by 2020.

Biodiesel produced from UCO is also avoiding possible impacts of biofuels production on agricultural food products and preventing UCO deposition in landfills. Moreover, it has the lowest greenhouse gas emissions amongst biofuels, enabling larger emission savings in comparison with fossil fuels.

