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Dear Waste2Fuels reader,

this is the first release of WASTE2FUELS newsletter, a running project funded by the European Commission under Horizon 2020 programme, the EU Framework Programme for Research and Innovation.

WASTE2FUELS lasts 36 months and involves 20 partners working together to develop a next generation of biofuel technologies capable of converting unavoidable agrofood waste streams into high quality biobutanol for use as a direct substitution for virgin fossil fuel for your car!

What is inside?

Breaking news about the project, links to open access publications and information about attended and upcoming events! Interesting? Thus, follow us on social networks and get engage with us!



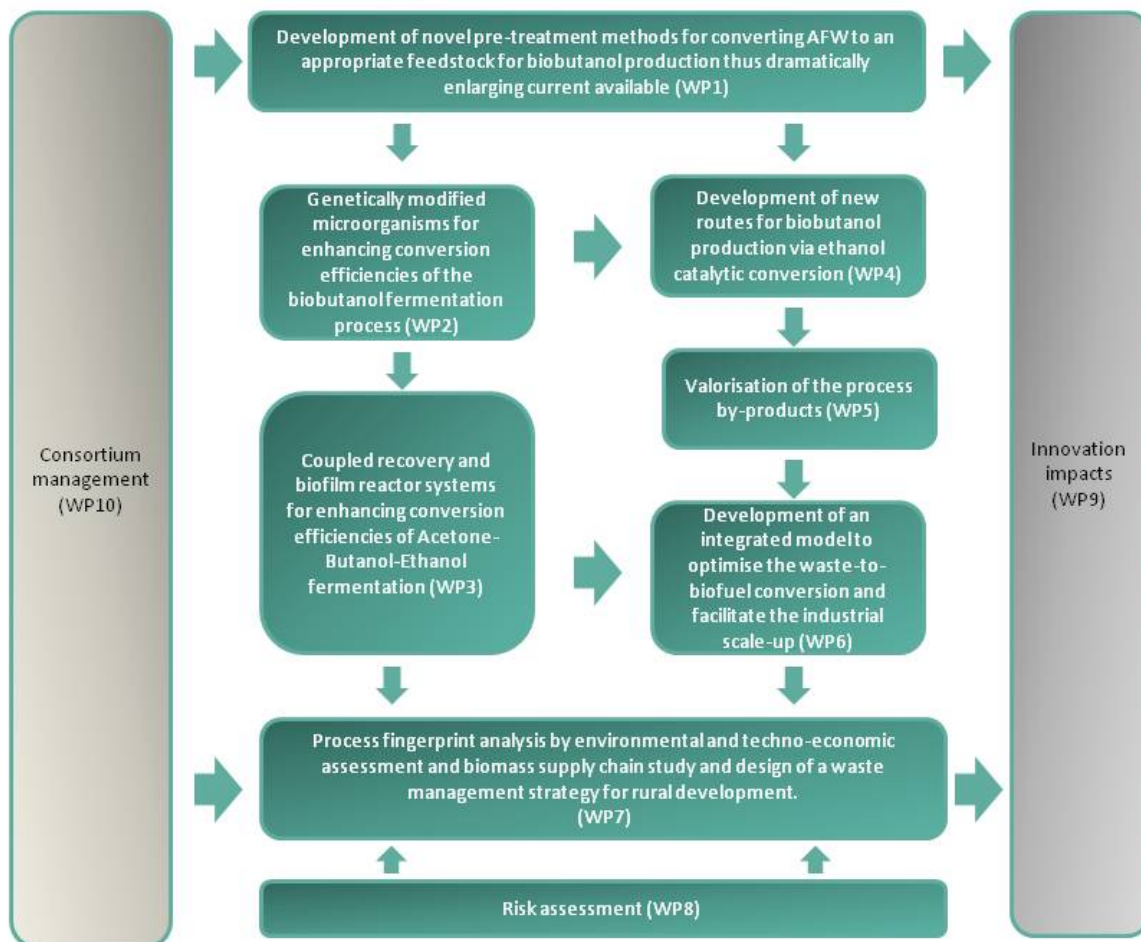
News Alert about EU biofuels world

2017 most likely will be a turning point in the implementation of the Energy Union objectives and the 2030 Climate and Energy Package. Several initiatives are in place as the new Renewable Energy Directive for the period after 2020-2030, an updated EU Bioenergy Sustainability Policy. But do not forget commitments made in the 2015 Paris Agreement.

The [Renewable Energy Directive 2009/28/EC](#), together with the [Biofuels Directive 2003](#) and the [Fuel Quality Directive](#), is one of the main pillars of biofuels policy. The Directive set legally binding targets for Member States to fulfil at least 20% of its total energy needs with renewables by 2020.

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What activities have been set by Waste2Fuels?



By valorising 50% of the unavoidable and undervalorised AFW as feedstock for biobutanol production, WASTE2FUELS could divert up to 45 M tonnes of food waste from EU landfills, preventing 18 M tonnes of GHG and saving almost 0.5 billion litres of fossil fuels.

Latest updates from the project

After one year of activities, several results have been achieved:

Under the WP1 (*selection of renewable feedstock for ABE fermentation*), a preliminary analysis has been conducted by ITACYL together with ENCO on agrofood waste, in order to select the most suitable AFWs wastes to be investigated for biobutanol production. The selected agrofood waste (potato peel, apple pomace, brewers' spent grain and coffee silverskin) have been chemically characterised and a conservation protocol established.

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Meanwhile, activities concerning the WP2 (*metabolic engineering for biomass conversion to butanol*) have been carried out by WEIZMANN. A library of ligno-cellulolytic enzymes has been developed and a panel of mixtures tested on the four different types of untreated agrowastes.

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Under the WP3 (*ABE fermentation solvent recovery*), TU WIEN conducted activities aimed at recovery and concentration of the butanol mixture produced by fermentation.

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Under the WP4 (*Catalytic conversion of pure ethanol into butanol with an heterogeneous structured catalytic*), activities related to the catalytic valorisation of ethanol to 1-butanol have been implemented by CNR. Bio-ethanol can be catalytically converted into butanol through alcohol dimerization called Guerbet reaction.

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Since the start of the project, TEAGASC has investigated novel green and environmentally friendly extraction technologies to obtain valuable components from food wastes and their fermentation by-products for their valorisation.

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As an initial part of the activities of experimental tests on engines and burners, being part of the tasks in the WP6 (*Industrial scale-up*), UPM have begun to plan and prepare the test methodology, including the quantity and the origin of the butanol to be used in such tests.

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During the first 14 months of the project, EXERGY Ltd, in collaboration with the project partners, has been working on the identification and initial assessment of different risks, mainly associated with the commercialisation of the main W2F processes and products (biobutanol) and sub-products (proteins, biogas, etc).



Read more

Let's introduce our partners!

The project consortium involves 20 countries from 9 countries



Upcoming Events

[EUBCE 2017 - European Biomass Conference & Exhibition.](#)

12 June, Stockholm, Sweden

Synergies with other EU projects

Waste2Fuels established synergies  , a European project funded under Horizon 2020 Research and Innovation Programme.



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