

News on biobased resource recovery

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Dear circular economy enthusiast,

Before the summer break, we are back with a new issue of our Bulletin to share with you the most relevant updates from our network!

The Biorefine Community keeps growing! This month we are happy to welcome BioWILL, an Interreg NWE project focusing on Integrated "Zero Waste" Biorefinery utilising all fractions of willow feedstock for the production of high to medium based biochemicals/materials, renewable energy in the form of biomethane production and natural fertilisers. Check below to learn more on this interesting project!

In this issue we also turn our spotlight on the HIGFLY project, which aims to develop advanced technologies for producing jet fuels from abundant and sustainable biomass feedstocks. Discover more on the project activities below!

As usual, breaking news from our members will enrich your reading and will update you on their latest initiatives, progress and results. And lastly do not forget to take a peek at publications and events we chose for you.

We wish you a pleasant reading and nice holidays!

### **The BCE Team**

Our latest updates will be waiting for you at @Bioref\_Cluster and [www.biorefine.eu](http://www.biorefine.eu). See you there!

You wish to share any news with us? Get in touch! [info@biorefine.eu](mailto:info@biorefine.eu)

### **Biorefine Community**

## **BioWILL joins our network!**



We are happy to welcome BioWILL in our network!

BioWILL is a Interreg NWE funded project focusing on Integrated "Zero Waste" Biorefinery utilising all fractions of willow feedstock for the production of high to medium based bio-chemicals/materials, renewable energy in the form of biomethane production and natural fertilisers.

Learn more on the project [here](#)

### **Project's corner**

## **HigFly**

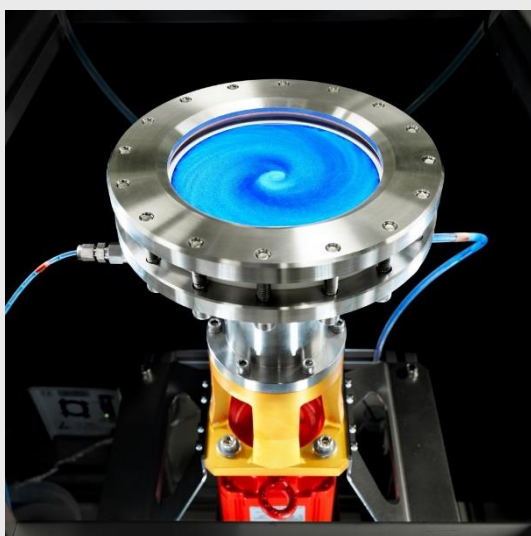


The EU-funded HIGFLY project plans to develop advanced technologies for producing jet fuels from abundant and sustainable biomass feedstocks. The research will also be geared towards developing highly efficient and scalable reactor and separation technologies for bio jet fuel production in a cost-effective way.

Read more [here](#)

Current bio-based alternatives for jet fuel (HVO/HEFA) rely on scarce and geographically dispersed feedstocks, such as used cooking oil and animal fats, that cannot cover the fuel demand and sustainability targets of the aviation sector. The HIGFLY project will develop the next generation of technologies to produce advanced renewable jet fuels from abundant and sustainable biomass feedstocks.

Read more [here](#)



Furfural is the main jet fuel precursor and building block in the HIGFLY concept. Current methods to convert biomass feedstocks into furfural are extremely resource inefficient, costly and energy intensive, yielding less than 50% of the potential value and lead to a complete loss of cellulose and lignin.

Read more [here](#)

Although the current innovations proposed in HIGFLY are most relevant to the aviation fuel sector, the technologies and materials being developed can also contribute to other sectors and be adapted to produce an array of products supplying precursors and ingredients for the bio-chemical, pharmaceutical and bio-plastic industries to name but a few.

Read more [here](#)





Eindhoven University of Technology is the HIGFLY project leader and a renowned academic and research institution, specialising in engineering science and technology. As part of the HIGFLY project, they are developing novel reactor technologies to improve the efficiency and cost effectiveness of the production of jet fuel precursors.

## Food for thoughts

Fertimanure - [Report on the BBF Regulatory Framework in the EU and CELAC countries](#)

### Project news

## Life 4 Marginal Lands



The New-C-Land project aims to identify areas where plant biomass can be cultivated and to bring together companies to use these local resources for energy and bio-based materials. For 4 years, the focus has been on unused or fallow land that is not suitable for agriculture or residential use,

known as 'marginal sites'.

This compendium summarises the main results of the project and provides practical advice for the identification and construction of potential marginal sites and the use of plant biomass from these sites in the biobased economy.

Read more [here](#)

#### Project news

### AgriWasteValue final event: the provisional programme available



The provisional programme of the final event of AgriWasteValue is now available. We invite interested people to register now for free for the event – to be held on October 4, 2022 in Nantes (France), in the framework of the major European Nutraceutical Event, Nutrevent.

More information can be found about the programme [here](#)

#### Project news

### Ecofunco hosted the 1<sup>st</sup> conference on Green Chemistry and Sustainable Coatings



In the historical context of a former Benedictine convent in Pisa, Italy, ECOFUNCO partners organized the 1<sup>st</sup> conference on Green Chemistry and Sustainable coatings.

ECOFUNCO partners, led by Patrizia Cinelli, project coordinator, shared the main findings of the project: the development of sustainable bio-based and compostable

coatings to be applied on bioplastics and cellulose substrates to reach the same properties of fossil-based packaging materials.

Read more [here](#)

#### Project news

### The suitability of recycling derived phosphorus fertilizer struvite to replace synthetic phosphorus fertilizers in horticulture



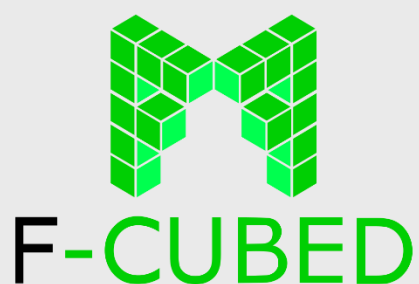
Phosphorus is a key macronutrient for all living organisms including plants. A vital alternative is to change the current predominant linear economy model towards a circular economy, where waste is recycled and that includes the recovery of nutrients like phosphorus.

The North-West Europe Interreg project ReNu2Farm has a track record in demonstrating the value of phosphorus sources from recycling derived materials for the cultivation of crops and for grasslands. The current emphasis of ReNu2Farm is to highlight the potential for these recycling derived fertilizers in the horticulture sector.

Read more [here](#)

#### Project news

### F-Cubed: Combustion Testing of Biofuel Pellets



The solid fuel pellets generated from the hydrothermal treatment and dewatering of the paper sludge, olive pomace and orange peel feedstocks have undergone combustion testing led by F-CUBED partner [HEAT Systems](#) in Ireland in June 2022. The testing was supported by colleagues from [TNO](#) who performed online gas analysis.

Read more [here](#)



The 1st Conference on Green Chemistry and Sustainable Coatings. During the conference, the main results from the research carried out in ECOFUNCO on bio-based coatings were presented and discussed by the partners of the consortium.

#### Upcoming events

**Save the date!**



#### **Pitch Perfect and Boost the European Bioeconomy**

**26 September 2022, Brussels, Belgium**

The 'Pitch Perfect and Boost the European Bioeconomy' event is a one day event of intense cross-border and cross-sectoral pitching, matchmaking and networking, with the aim to link industry to innovative (biobased) technologies, innovators to investors and to create new partnerships for the future and the further development of innovative, cross-border and cross-sectoral industrial value chains in the biobased economy.

[Continue reading](#)



## Bio-based Scaling & Finance Forum Event

**4 October 2022, Wuppertal, Germany**

The event features multiple rounds of live and online sessions where key players along the bio-based industries sectors will have access to 20 prominent SMEs and 20 corporations (seeking strategic funding and partnerships for the growth and deployment of their technologies and production processes).

[Continue reading](#)

*The Biorefine Cluster is supported by the European Biogas Association (EBA), a no-profit organisation which advocates for recognition of biomethane and other renewable gases as sustainable, on demand and flexible energy sources that provide multiple knock on socio-economic and environmental benefits. Learn more [here](#)*



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