

News on biobased resource recovery

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Dear circular economy enthusiast,

We are back with a new issue of our Bulletin, where you can find the most relevant updates from our community.

The BCE family is quickly growing. This month, three new projects joined our community to work together to the transition towards a more circular economy. We are happy to welcome Photo2Fuel, Model2Bio and SEMPRE-BIO! Discover more about their goals and activities below!

New initiatives are on track and awaiting just for you! The fourth edition of the European Sustainable Nutrient Initiative (ESNI) Conference will be back in May to offer you an high-level discussion on the benefits of nutrient recovery and recycling for a more efficient and sustainable food production system.

Still, breaking news from projects of our community will enrich your reading and make you aware of their last developments and results.

And last but not least, do not forget to take a peek at publications and events we chose for

you.

We wish you a pleasant reading!

### 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

## Photo2fuel, Model2Bio and SEMPRES-BIO join our community



We are very happy to welcome Photo2fuel, Model2Bio and SEMPRES-BIO in our community.

[Photo2fuel](#) will develop a breakthrough technology that converts CO<sub>2</sub> into useful fuels and chemicals by means of non-photosynthetic microorganisms and organic materials, using only sunlight as energy source.

[Model2Bio](#) will develop a predictive model to help agri-food companies identify, select and reuse organic waste streams. To identify the most economic and environmentally friendly solutions for waste streams, the model will consider stream composition, volume, transformation as well as logistics, business cases and social aspects.

[SEMPRES-BIO](#) aims to demonstrate novel and cost-effective biomethane production solutions to support circular economy projects and reduce dependence on imports of natural gas and liquefied natural gas (LNG).

Biorefine community

## The ESNI Conference will be back soon



The European Sustainable Nutrient Initiative - ESNI Conference will be back on **31 May 2023 in Brussels**.

Closing nutrient cycles is essential to develop a more efficient and sustainable food production system and protect the environment. However more needs to be done to develop a holistic approach to nutrient management.

Being one of the major events on nutrient recycling, the ESNI Conference will provide a comprehensive framework of the policies promoting the nutrient recycling and recovery (NRR) at European level as well as a focus on the role of EU-funded R&I projects in contributing to raise awareness on the benefits of nutrient recycling and reuse.

Save the date [here](#)

Biorefine community

## Bio-based Innovation Student Challenge Europe (BISC-E)



The Biorefine Cluster Europe, End-of-Waste, and GREEN-CHEM networks from AUGent are proud to once again organize the national Belgian competition of the Biobased Innovation Student Challenge Europe (BISC-E). This competition encourages Master and Bachelor students to explore innovation and business development in the emerging bioeconomy while developing a new biobased product or process. Are you up for the challenge?

Learn more on BISC-E [here](#)

Biorefine community

## RE-Source webinar on nutrient recycling



The second session of the RE-Source seminar series on Nutrient Recycling is scheduled for February 17th from 14h to 16.30h. The session (online) will include four talks focusing on nutrient recovery from waste streams in the agro-food value chain and its application as sustainable fertilizers.

Click [here](#) to subscribe to the event!

Project news

## Nutri2Cycle presents best practices and barriers in nutrient efficient agriculture in Hungary, Croatia and Poland



The Nutri2Cycle consortium is delighted to invite you to its webinar on 'Best practices and barriers in nutrient efficient agriculture in Hungary, Croatia and Poland', which will take place on Friday 3 February 2023 from 14:00 to 16:30 CET.

The webinar will discuss the state-of-the-art and the legal issues in the implementation of bio-based circular fertilisers in Europe as well as the status of energy and fertilisers market in Hungary and Poland, providing an insight on its perspective in the next future. Special attention will be dedicated to best practices and possible barriers towards the transition to nutrient efficient agriculture in Poland, Croatia and Hungary, with a specific reference to the Nutri2Cycle selected lighthouse solutions.

Read more and register [here](#)

Project news

## Lex4Bio - Assessing the phosphorus demand in European agricultural soils based on the Olsen method



Phosphorus (P) is a non-renewable and strategic resource whose future scarcity will constraint global food security. Europe is highly dependent on imported P. Circular economy strategies and better allocation of the resource is thus critical for ensuring agriculture sustainability. In this article, it is shown that it is possible a more precise allocation of the resource by identifying sites where agricultural production can be increased with phosphorus fertilizers, and also that most of the European demand for P could be covered by recycling P from manure, wastewater, and municipal solid waste.

Check the publication [here](#)

### Project news

## The final conference of Circular Agronomics



Circular Agronomics comes to an end. The consortium presents its final results and innovations to develop a more sustainable agriculture with a circular management of carbon and nutrients in Europe.

The key outcomes of the project like the policy recommendations will be highlighted and discussed with the relevant stakeholders, including citizens, the European Commission, representatives of other H2020 projects, researchers, and technology companies.

Read more [here](#)

#### Project news

### BioeconomyVentures launched an open call focused on the future of industrial circularity



BioeconomyVentures aims to incentivize the investment community in engaging with the bio-based industry by igniting a strategic collaboration between innovators and corporations in the bioeconomy domains in favor of sustainable development.

Recently the project launched the Open call #3 focused on the Future of Industrial Circularity!

Discover more on the topics and apply [here](#)

#### Project news

### Bionanopolys virtual open day



The Bionanopolys consortium is organising a virtual open day to explain how companies from different sectors can develop, test or scale up bionanomaterials for free in the BioNanoPolys network of pilot plants thanks to an open call, to which applications can be submitted from 17 February to 30 April 2023.

Interested in participating? Read more [here](#)

#### Project news

### GlasPort Bio - €2.8m injection in DTIF funding: NutriLoop project



GlasPort Bio, along with Devenish RD&I Ltd., University of Galway and University College Cork (UCC) have been awarded €2.8 million under the fourth round of the Irish Government's Disruptive Technologies Innovation Fund (DTIF).

The successful project is entitled NutriLoop: Closed-loop, whole cycle approach to reducing the carbon footprint of livestock and will run for 36 months.

Read more [here](#)

## Food for thoughts

Science Direct - [Circular economy: Using lime stabilized bio-waste based fertilisers to improve soil fertility in acidic grasslands](#)

Science Direct - [Effects of electrokinetic and ultrasonication pre-treatment and two-step anaerobic digestion of biowastes on the nitrogen fertiliser value by injection or surface banding to cereal crops](#)



## Renewable Resources & Biorefineries (RRB) 31 May - 2 June 2023, Riga, Latvia

The 19th edition of the International Conference on Renewable Resources & Biorefineries will take place in Riga, Latvia from Wednesday 31 May until Friday 2 June 2023. Delegates from university, industry, governmental and non-governmental organizations and venture capital providers will present their views on industrial biotechnology, sustainable (green) chemistry and agricultural policy related to

the use of renewable raw materials for non-food applications and energy supply.

[Continue reading](#)



## EUBCE

**5 - 8 June 2023, Bologna & hybrid, Italy**

EUBCE is the largest biomass conference and exhibition in the world.

Each year, EUBCE brings together the greatest minds and latest advancements in biomass, with the aim of accelerating research and market uptake across the globe.

During the conference, over 2,000 experts from both academia and industry share and discuss groundbreaking ideas, technologies, applications, and solutions for the sourcing, production, and utility of biomass.

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*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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