

News on biobased resource recovery

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Dear circular economy enthusiast,

Here we are at the last issue of this year!

2022 has been a remarkable year for the BCE community, which keeps growing rapidly, proving its continuous commitment in supporting the transition towards a bio-based society. Over the year, many expectations have been fulfilled and now we are looking towards the

next challenges and objectives to achieve in the year to come.

To round off this 2022, we would like to introduce you Fer-Play, which recently joined our network. This project aims at facilitating the uptake of alternative fertilisers, to protect ecosystems, decrease EU dependence on fertiliser imports, foster circularity and improve soil health. Check below to learn more on its goals!

Also, we turn our spotlight on the Bionanopolys project, which scope is to launch an open, innovative test bed for the design, development, testing, regulatory and environmental assessment, and upscaling of promising nano-enabled bio-based materials. Discover more on Bionanopolys below!

As usual, more insights and breaking news from projects of our community will enrich your reading and will keep you informed on latest progress and achievements of our growing community.

Lastly, do not forget to have a look at the most relevant upcoming events we chose for you.

We wish you a pleasant reading and wonderful 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**

## **Fer-Play joins the BCE community**



The BCE is happy to welcome FER-PLAY in its network .

FER-PLAY is a Horizon Europe project facilitating the uptake of alternative fertilisers, to protect ecosystems, decrease EU dependence on fertiliser imports, foster circularity and improve soil health. The project will map and assess alternative fertilisers made from secondary raw materials, such as manure, and highlight their multiple benefits in order to promote their wide-scale production and use on field.

Learn more on the project [here](#)

Biorefine community

## Save the date for the ESNI Conference!



On 31 May 2023, the European Sustainable Nutrient Initiative (ESNI) comes back with its 4th edition! The event will offer a comprehensive overview on the role of nutrient recycling in circular economy and how research can actively contribute to raise awareness on their benefits.

Stay tuned for more details and do not forget to mark your calendar with the ESNI conference!

Save the date [here](#)

Biorefine community

## RE-Source seminar series: Waste to Energy



RE-Source.bio launches its third online seminar series. The seminar series is organized around six thematic working groups in the community: Waste to Energy, Nutrient Recycling, Water Recovery, Biochemicals Recovery, Design of Biomaterials, and Value Chain Assessment. The first session will be on Waste to Energy. This session will discuss the general aspects of thermochemical and biochemical routes for bioresource conversion into bioenergy.

Register [here](#)

Project corner

## Bionanopolys



Climate protection, reduction of greenhouse gas emissions and saving of fossil resources are key elements for a more sustainable future. Potential alternatives to fossil-based materials are so called biomaterials. However, these substances must offer functional properties for high-volume applications and need to perform even better in order to drive their adoption by industry and end users.

Bionanopolys aims to launch an open, innovative test bed for the design, development, testing, regulatory and environmental assessment, and upscaling of promising nano-enabled bio-based materials.

Read more [here](#)

Bioeconomy is on everyone's lips. It describes the transformation from a fossil-based to a bio-based industry and paves the way to a more sustainable future. Bioeconomy is relevant in many areas: it is applicable to the production of pharmaceuticals, food and feed ingredients, or materials such as textiles, paper or plastic packaging. The theory sounds nice, but in reality, companies face a big challenge: sooner or later, producers are almost forced to change their production processes to a more environmentally friendly approach – and that costs time and money. Let's find out, if an open innovation test-bed can help meet this challenge.



Read more [here](#)



An open innovation test-bed for the development of bionanomaterials sounds very useful, but who will benefit and how does a typical use case look like? In the frame of the Bionanopolys project, a couple of industrial partners demonstrate the technical feasibility of the Bionanopolys service portfolio. Therefore, our customers will find proven use cases for packaging, textiles, cosmetics, personal care products, foams, food packaging or agriculture, for example.

Read more [here](#)

#### Project news

## Barriers and best practices in nutrient efficient agriculture in Eastern Europe



The Nutri2Cycle consortium is delighted to invite you to its webinar on 'Barriers and best practices in nutrient efficient agriculture in Eastern Europe', 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 Eastern Europe, 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

### F-CUBED presents the preliminary results from the environmental assessment



The 9th International Symposium on Energy from Biomass and Waste took place in Venice, Italy from the 21<sup>st</sup> to the 23<sup>rd</sup> of November 2022. The event was organized by the International Waste Working Group (IWWG), a scientific and professional forum designed to promote and disseminate new developments in the waste management industry.

F-CUBED researcher Lucia Recchia from CA.RE FOR. Engineering presented preliminary results from the project's environmental life cycle assessment of the hydrothermal treatment and dewatering of paper sludge.

Read more [here](#)

#### Project news

### The final conference of Circular Agronomics



The Circular Agronomics consortium organises its Final Conference on 15 February in Brussels. Launched in September 2018, Circular Agronomics aims to find new practical ways to promote the sustainable circular management of nutrients and carbon throughout the whole agri-food chain. 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

### **Agro2Circular: a territorial circular systemic solution to upcycle agrifood sector residues**



The European Union is striving to build a sustainable low-carbon and resource efficient economy that is also competitive. This means developing a circular model for the economy, one that squeezes out the value of every product right across its lifecycle and beyond.

Agro2Circular took up the challenge of creating such a model for the agrifood sector.

Read more [here](#)

#### Project news

### **Walnut project launches a survey for a more sustainable agriculture**



Waste water streams are a valuable source of nutrients for the fertilisers industry. However, their potential is not exploited yet. Several barriers are blocking the way, such as the lack of efficient technology and adequate knowledge of bio-based fertilizers.

Walnut launched the Nutrient Recovery awareness survey. This questionnaire is designed to address all the people who are involved in waste water production, nutrient extraction, fertilisers creation, and use.

Check the Walnut website and fill the survey [here](#)



Introductory video to Agro2Circular project, developing innovative valorisation routes for agri-food wastes upcycling through circular economy approaches. Discover more: <https://agro2circular.eu/>



## Food for thoughts

Nutri2Cycle - [Report on the effects of the current legal framework on CNP in main farming systems in Europe](#)

### Upcoming events

Save the date!



### **SOFIE 2nd Summit of the Organic and organo-mineral Fertilisers Industries in Europe 17-18 January 2023, Brussels and hybrid**

Delayed by Covid, the 2<sup>nd</sup> SOFIE will centre on how organic and organo-mineral fertiliser products and technologies deliver specific agronomic performance characteristics for farmers' needs. The event is being co-organised by ESPP, ECOFI, Eurofema and Fertilizers Europe, with support of the International Fertiliser Society.

[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.

[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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