



**February - March 2023**

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Dear circular economy enthusiast,

We are back with a new issue of our Bulletin, gathering all the most relevant updates from our community.

This month we are happy to welcome Cheers and NUTRI-KNOW in our network and start working together to the transition towards a more circular economy. Check below and discover more about their goals and activities!

In this issue we turn our spotlight on the F-Cubed project which presents some of its interesting results on the potential for biogas production and for the extraction of nitrogen, phosphorous and potassium from the solid and liquid fractions of the paper sludge, olive pomace and orange peel feedstocks processed by the TORWASH® reactor.

But we also want to bring your attention to the Bionanopolys Open Innovation Test-Bed , that offers innovative projects the opportunity to develop, test and scale up advanced

bionanomaterials. Discover more on how you can use the OITB platform for your innovative development!

New inspiring initiatives are on track for you! Nutri2Cycle is organizing its 3rd summer school to offer participants a first-hand knowledge on the needs of the farming sector. Learn more on the program below and do not forget to register!

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)

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### **Biorefine community**

## **Cheers and Nutri-Know join our community**



We are very happy to welcome Cheers and NUTRI-KNOW in our community.

[Cheers](#) will help bio-based industries to improve their feedstock use efficiency and overall sustainability and competitiveness via upcycling and cascading use of biomass produced from their side-streams.

[NUTRI-KNOW](#) aims to modernise the agricultural sector by collecting, translating, and sharing easy-to-understand and practice-oriented knowledge. NUTRI-KNOW will support the adoption of the Operational Groups (OG) results and experience by

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relevant end-users through 12 OGs, covering the whole value chain of nutrient management.

Biorefine community

## The ESNI Conference is postponed to September



The European Sustainable Nutrient Initiative - ESNI Conference is postponed to **September 2023**.

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.

More information on the event will be shared soon. Stay tuned!

Biorefine community

## RE-Source webinar on biochemicals recovery



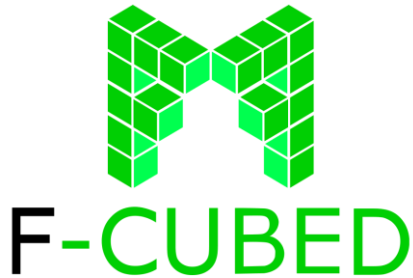
The fourth session of the RE-Source seminar series on Biochemicals recovery is scheduled for April 21st from 14h to 16.30h. The session (online) will highlight the relevant techniques for stabilization, pre-treatment, and processing of the accumulated agro-food wastes.

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

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Project corner

## F-Cubed: Future Feedstock Flexible Carbon Upgrading to Bio-Energy Dispatchable Carriers



The F-Cubed project aims to develop an advanced process for the hydrothermal treatment of biogenic residues to create solid, combustible intermediate bioenergy carriers for pelleting, gasification and briquetting whilst simultaneously recovering nutrients and olive pomace oil.

Discover more [here](#)

TNO have submitted their report on the installation and testing of the F-CUBED pilot plant at the Delafruit facility in Selva de la Camp, Spain conducted in April 2022, where orange peels were hydrothermally treated and dewatered using the TORWASH® reactor and the Limburg Filter filter press.

Read more [here](#)



The F-CUBED project's pilot tests used three different feedstocks of paper sludge, olive pomace and orange peels which were hydrothermally treated in the TORWASH reactor and then dewatered and separated into a solid fraction and a liquid filtrate. After treatment, the filtrate still contains organic material that could be used for generating biogas in an anaerobic bioreactor.

Read more [here](#)

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The University of Hohenheim have submitted their report on the potential for the extraction of nitrogen, phosphorous and potassium (NPK) from the solid and liquid fractions of the paper sludge, olive pomace and orange peel feedstocks processed by the TORWASH® reactor and Limburg Filter dewatering technology during the F-CUBED pilot tests.



Read more [here](#)

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### Project news

## A focus on the Bionanopolys Open Innovation Test Bed (OITB)



Bionanopolys is an open innovation test-bed that aims at the development of safe nano-enabled bio-based materials. The interdisciplinary team of Bionanopolys creates an open innovation environment that allows a holistic approach for the novel innovative technologies. The service portfolio includes 14 pilot plants, transversal and non-technical services such as business consultancy that can be accessed via a single entry point (SEP).

On 17 February the Bionanopolys open call kicked off with a virtual event. Since then the OITB platform is open for your application.

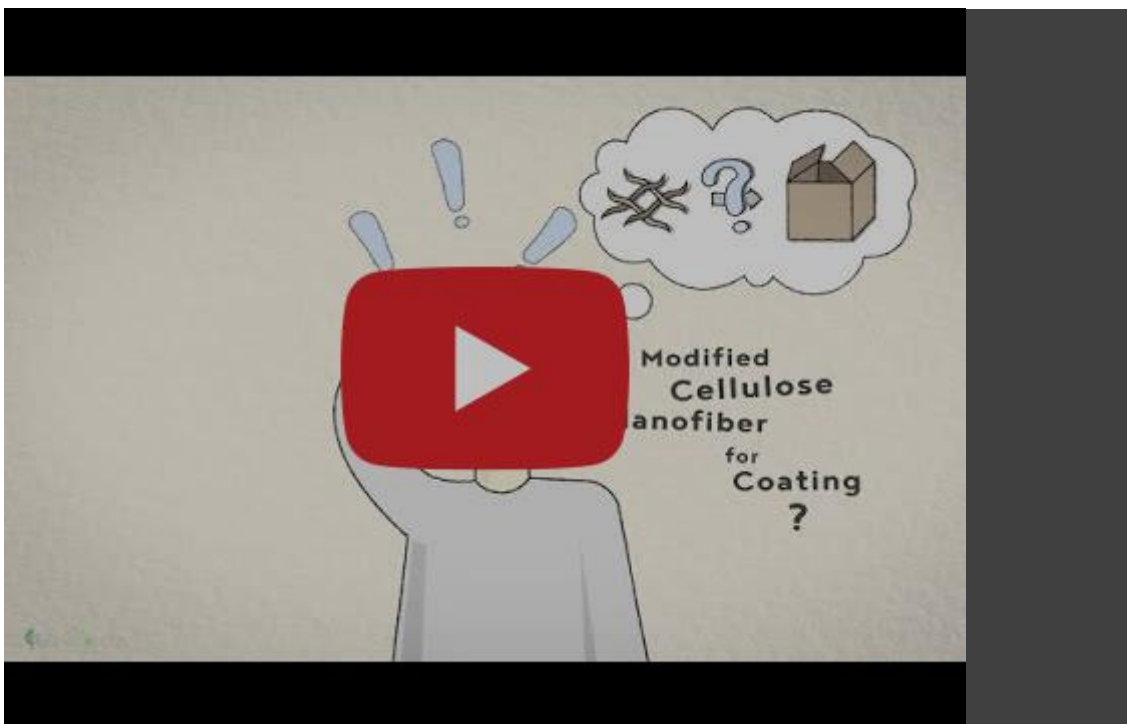
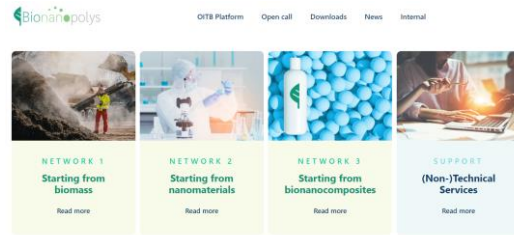
Did you miss the webinar? No worries, you can watch the recording [here](#)

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Do you want to know more about the Bionanopolys network of 14 pilot plants and their complementary services?

Check out the [OITB SERVICES](#) ...

...and for more information do not forget to visit the [Bionanopolys website](#) and to take a peek at the [2nd OITB News!](#)



The Bionanopolys network aims at boosting the availability of advanced materials and products obtained through biomass valorization technologies and improved with nanomaterials. To speed up the introduction of these materials into the market, you can take advantage of a network of 14 pilot plants (technical services) and their transversal and business services. Watch the video and find out how you can use our platform for your innovative development!

#### Project news

**Nutri2Cycle is organising its 3rd summer school in Barcelona**



The third edition of the Nutri2Cycle international summer school will take place from 7 to 9 June 2023 in Barcelona, Spain.

The course will offer participants a first-hand knowledge on the needs of the farming sector.

The program includes lectures on the main research lines investigated by the project as well as two workshops focused respectively on the sustainability assessment on nutrient recovery and recycling and on the emission monitoring and abatement in manure processing.

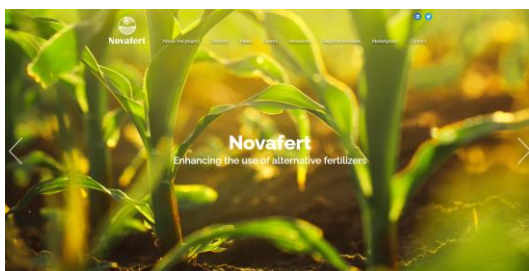
A breakout session on the latest development of the legal framework will enrich the course, providing food for thought and favoring the discussion on the current gaps in the nutrient cycles.

Read more and register [here](#)

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### Project news

## The Novafert website is now online!



NOVAFERT demonstrates the technical, economic, and environmental feasibility and safe use of a wide portfolio of at least 25 alternative fertilising products, containing recovered nutrients from 6 different waste streams, with the goal of facilitating the replacement of synthetic and mineral fertilisers.

On the project website you will learn more about the Novafert key activities and expected impacts. You can also

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discover more on project partners, news and events where Novafert will be promoted!

Check the website [here](#) and [subscribe to our newsletter](#) to be updated on the forthcoming activities.

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#### Project news

### ReNu2Farm CAP - Legislation on recycling-derived fertilising products: changes, chances and challenges



Within the circular economy ambitions of the European Commission, a new Regulation for fertilising products has come into force on 16th July 2022. The scope of this regulation has been extended to include organic fertilisers, soil improvers and growing media and biostimulants for plants. It is intended to open the internal EU market to organic and recycling derived fertilising products. In the underlying report the changes, chances and challenges of the new legislative framework for the marketing and use of organic and recycling-derived fertilising (RDF) products are discussed.

Read more [here](#)

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#### Project news

### Circular Agronomics published its exploitation brochure

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Circular Agronomics produced the final exploitation brochure for all five technologies to announce the key facts per technology. Each technology is described with a short description of the corresponding pilot plant and the product composition. Key operation parameters and unique selling points for each technology are given.

Read more [here](#)

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#### Project news

### Mapping of agri-food and bio-based industries in the region of Western Macedonia for potential valorization of agri-food residual streams into high-added value products



The Model2BIO project develops a model-based decision support tool that predicts agri-food residual streams and identifies the best routes to valorise them. For this purpose, this study identifies and describes the existing agri-food (meat, cheese, wine, pepper) and bio-based industries in the region of Western Macedonia. It determines several parameters of the residual streams (type, volume, physicochemical characteristics) and assesses the sustainability of a biorefinery in Western Macedonia.

Read more [here](#)

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#### Project news

### Photo2Fuel launched its website

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The Photo2Fuel consortium has launched the project website. Photo2Fuel aims to develop a breakthrough technology that converts CO<sub>2</sub> into useful fuels and chemicals employing microorganisms and using only sunlight as an energy source. On the project's website, you can find the latest updates on the project, as well as publications and news from the partners. A list of relevant events in the field of biofuel production is also available.

Check the website [here](#)

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#### Project news

### BioDEN: what did they achieve in 2022?



The BioDEN project kicked off early January 2022 and spans two years. It is a collaboration between Biogas-E, KU Leuven, UGent, Marmara University, VCM and Ostim Enerjik. Its newsletter provides an overview of the achievements of the first project year, together with an outlook on the upcoming research.

Read more [here](#)

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In line with the European Commission's Green Deal's objectives to reduce nutrient losses by 50% by 2030, NutriBudget aims to develop the prototype of a first-of-its-kind integrated nutrient management platform, called NutriPlatform. The NutriPlatform, operating as a decision support tool for farmers, advisors and regional authorities, will help end users in adopting most suitable agronomic measures for optimising nutrient use in agriculture.

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## Food for thoughts

ReNu2Farm CAP - [Protocol on the practical RDF application for horticultural sector \(greenhouse trials\)](#)

Nutri2Cycle - [Evaluating the Fertilising Potential of Blended Recovered Nutrients in Horticultural Growing Medium on Viola x wittrockiana L.](#)

## Job opportunities

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[Ghent University – PhD Fellowship – Bioavailability of silver for freshwater organisms \(Ag-BLM project\)](#)



## **European Food Biomass & Bioeconomy Summit 22 - 23 May 2023, Thessaloniki, Greece**

The European food biomass & bioeconomy summit - Matchmaking event to access investors, technology providers and establish partnerships will be held at the Porto Palace Hotel, Thessaloniki (Greece) between the 22nd and 23th of May 2023.

This 'Challenge and Innovation' event brings together startups, spinoffs, SMEs, technology providers and investors. Participate in an interactive workshop about valorisation of residues within the bioeconomy sector. Or join the elevator pitch or the matchmaking session. Learn about the Bioeconomyventures online matchmaking platform. Watch the presentation of Model2Bio's new decision support tool that identifies the best routes for valorising agri-food residues. Network during the visit to the Biogas Lagadas, CERTH and the Gerovassiliou winery. Register now and apply for the SME travel grant.

[Continue reading](#)

**RRB 2023**  
RENEWABLE RESOURCES & BIOREFINERIES



## **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.

[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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