

News on biobased resource recovery

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Dear circular economy enthusiast,

Here we are at the last issue of the year!

2020 has been a remarkable year, which brought its challenges but also offered good opportunities for the biorefinery sector. Over the year, the BCE community has rapidly grown proving a continuous commitment in supporting the transition towards a bio-based society. Many expectations have been fulfilled and now we are looking to the next challenges and objectives to achieve in the year to come.

To round off 2020, we would like to offer you a special issue focused on Nutri2Cycle. You will be discovering more in depth how the project is providing an essential contribution to

circular economy by closing nutrient loops.

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!

The BCE Team

Our latest updates will be waiting for you at @Bioref_Cluster and www.biorefine.eu. See you there!

You wish to share any news with us? Get in touch! info@biorefine.eu

Project's corner

A focus on the Nutri2Cycle project



On December 4th, representatives of the Nutri2Cycle project from Cartif participated in a workshop to disseminate the project to farmers of a cooperative in the region of Castilla y Leon (Spain). During the event, farmers learnt more on the objectives of the Nutri2Cycle project as well as what is being done in the field of nutrient recovery in each demos in which Cartif is involved.

[Read more here](#)

A webinar about the agricultural use of fertilising products of residual origin (called “MAFOR”) has been organised by the Chamber of agriculture of Charente-Maritime and the Permanent Assembly of Chambers of Agriculture to provide an overview on the regulation and discuss about bio-based fertilising products use.

[Read more here](#)





Members of the Nutri2Cycle team participate in the Biogas 2020 Congress. The event addressed both biogas producers and industry experts, as well as potential investors and people interested in the subject of biogas in Poland. The conference program covered issues related to the investment process, biogas support systems, market changes, and technological innovations.

[Read more here](#)

In the framework of the Nutri2Cycle project, Catarina Esteves, a PhD student at ISA, is carrying out two trials. One is in an apple orchard, cultivar 'Gala', located in the faculty, in Lisbon, and the other is in a vineyard of *Vitis vinifera* located in Montijo, Setúbal.

[.Read more here](#)



The importance of crop quality as well as yield and economics has resulted in arable farmers becoming leaders in tailoring nutrient amount and timing to precisely meet crop requirements and in actively managing their soil resource. As part of Nutri2Cycle, Teagasc is entering the 3rd cropping year of an on-farm demonstration replicated trial. In this trial the agronomic performance, practicality, economics and soil health effects of using organic and nutrients recaptured via processing will be evaluated and demonstrated to farmers over the coming years.

[Read more here](#)



Circular economy

BCE Webinar Series 2021 coming soon...



The Biorefine Cluster Europe has launched a series of webinars that aims at offering additional inspiration and fresh ideas around biobased resource recovery covering BCE areas ranging from renewable energy to water recovery and reuse biochemical, value chain assessment, biomaterials and eco-design and nutrient recycling.

[Rear more here](#)



...Get involved...

Gent University - [Postdoctoral Researcher Bioresource Recovery \(24 months position\)](#)

Project news

Pocket Power: final report

Pocket Power

Pocket fermentation is a solution for processing residual flows and provides affordable energy. In addition, small-scale digestion is also mentioned as a measure for tackling GHG emissions from manure storage. In the final report, Pocket Power presented its results, showing that methane emissions in dairy farming can be reduced by up to 70% in the barn.

[Read more](#) (only available in Dutch)

Project news

Mid-term event of AgriWasteValue



The mid-term event of the Interreg North West Europe (NWE) project AgriWasteValue will be held online on January 26, 2021. Organised in the framework of the NutrEvent, the event will present the AgriWasteValue results with a focus on molecules of interest for cosmetics and nutraceuticals.

Discover the final programme and register now to the digital event [here](#)

Project news

Using waste nutrients to cultivate microalgae - Swansea team publishes new peer-review paper



A Swansea University team has published a new article, detailing a novel approach to reuse food and farm waste at an industrial scale, using microalgae.

The paper explains the ways in which algae can be cultivated using excess nutrients, the optimum two-step approach used to maximise productivity, and how this biomass is optimally suited for use as an animal feed ingredient.

[Read more here](#)

Project news

'Fertilisers from wastewater' an award winning concept



Run4Life is an EU project focused on recovering fertilisers from domestic wastewaters and kitchen waste. By separating toilet-wastewater (black water), other domestic wastewater (grey water) and kitchen waste at the source, nutrients can more efficiently be recovered. With the technologies applied in Run4Life the nutrients from the toilet-wastewater and kitchen waste are safely converted into fertiliser products. In 4 cities in Europe this concept is applied at full scale in different configurations.

[Read more here](#)

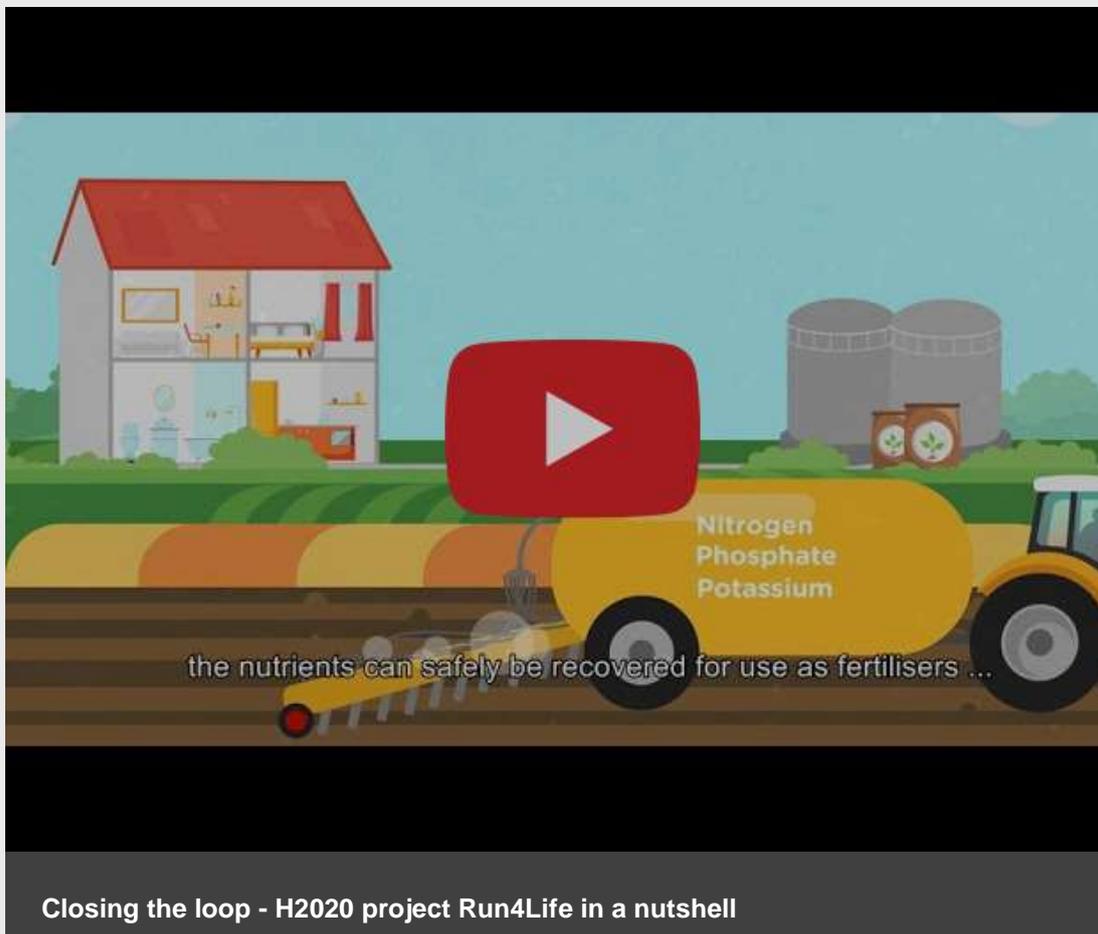
Project news

The FILTRAFLOTM-P reactor to recover P from wastewater through a filtration/adsorption process



Within Phos4You, the Environmental Research Institute has been developing the FILTRAFLOTM-P reactor together with Veolia to recover P from wastewater through a filtration/adsorption process.

[Read more here](#)



Food for thought...

[Advances Wales - Issue Autumn 2020 - Growing microalgae from organic waste \(Alg-AD publication - page 7\)](#)

Upcoming events

Save the date!



The 4th European Sustainable Phosphorus Conference

31 May - 2 June 2021, Vienna, Austria

The European Sustainable Phosphorus Conferences are the unique event bringing together companies, stakeholders, regional and national authorities, innovation and researchers, to discuss phosphorus and nutrients sustainability actions and policies.

[Continue reading](#)



RRB 2021- Renewable Resources and Biorefineries

6-8 September 2021

The 17th edition of the International Conference on Renewable Resources & Biorefineries will take place in Aveiro, Portugal from Monday 6 Sept until Wednesday 8 Sept, 2021. 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.

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RAMIRAN 2020

20-23 September 2021, Cambridge, United Kingdom

RAMIRAN "Recycling of Agricultural, Municipal and Industrial Residues in Agriculture Network" is a research and expertise network set up over 25 years ago to improve nutrient utilisation and minimise the environmental impact from livestock manure and other organic material use in agricultural systems.

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Phos4You Final Conference

22-23 September 2021, Essen, Germany & online

After four years of cooperation, the Phos4You partnership would like to invite you to the project's final conference. The programme will include plenaries, multi-stakeholders discussions, a poster exhibition, an excursion to a Phos4You demonstrator and plenty of opportunities to enjoy, exchange and network. Speakers will be Phos4You actors in the fields of wastewater treatment and sewage sludge incineration, recovery processes and research.

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ManuResource 2021

24-25 November 2021, 's Hertogenbosch (NL)

Circular agriculture with low emissions and nutrient recovery from manure is high on the European Union agenda. ManuREsource is an international triple-helix conference for scientists, policy makers, consultants, farmers and professionals on the theme of

manure management. The conference aims to accelerate the transition towards a circular economy by exchanging experiences and knowledge with concerned international stakeholders and policy makers

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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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