



Dear circular economy enthusiast,

Here we are at the last issue of the year!

This was an important year for the Biorefine Cluster Europe. Our community has rapidly grown and we are very happy to see your commitment in supporting the transition towards a biobased society. That drives us to do our best to promote new shared initiatives!

In this issue you will read about the ESNi event which is reinforcing its commitment in putting nutrient recycling high on the EU circular economy agenda. This second edition will be also interlinked with the Systemic workshop, which will discuss ways to better enable financial viability of nutrient recovery from waste in Europe. Attention is also given to the R&D workshop for phosphorus recovery, which will be organised in the framework of the 4th European Sustainable Phosphorus Conference.

As usual, breaking news and insights from projects of our community will enrich your

reading and keep you updated on their last initiatives and results.

Lastly, do not forget to have a look at publications and upcoming events we chose for you!

Are you ready to unwrap this new Bulletin?

We wish you a pleasant reading and happy holidays!

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

New Members

The NITROMAN project joins our community



We are happy to welcome NITROMAN in our community!

The project will investigate the conversion of the raw manure into mineral fertilizers.

Learn more about the project [here](#)

Circular economy

Save the date for the next ESNI event



The European Sustainable Nutrient Initiative - ESNI - will be back the next 23 April.

ESNI will provide a comprehensive overview on the opportunities and benefits of nutrient recycling to boost research, agriculture and sustainable development.

This second edition will be also interlinked with the Systemic workshop, *Developing a stimulating and harmonised policy framework for biogas based biorefineries*, which takes place on the 22nd of April.

Stay tuned... more details will come soon!

Circular economy

Systemic workshop: Developing a stimulating and harmonised policy framework for biogas based biorefineries



The European Union's Communication on the Circular Economy has recognised nutrient recovery and reuse (NRR) from waste as a crucial element in advancing the Circular Economy.

However, whilst great strides are being made in the development of technology to enable nutrients to be recovered at biogas plants, the financial viability of nutrient recovery remains a major stumbling block to its expansion. This workshop will discuss ways in which European policy frameworks can better enable the financial viability of nutrient recovery from waste in Europe.

More information coming soon..

Circular economy

Workshop on applied R&D for P recovery



On the 17th of June a phosphorus day is organised by the Biorefine Cluster Europe in partnership with RE-Source, ESPP and TU Wien. The workshop is part of the 4th European Sustainable Phosphorus Conference (ESPC4) which is a unique event bringing together companies, stakeholders, regional and national authorities, innovation and researchers, to discuss phosphorus and nutrients sustainability actions and policies.

More details are available [here](#)

Circular economy

The 4th edition of the International Conference on manure management & valorisation



From 27 to 28 November 2019, more than 200 participants involved in the manure processing sector gathered at Hasselt in Belgium to discuss the importance of manure management and valorisation at the European level during ManuRESource 2019.

Read more [here](#)



...Get involved...

AgRefine - Position: Ph.D. Researcher Dealing with compositional variability in biobased mineral fertilizers

UniMI - Innovative plant for the conservative removal of nitrogen from livestock slurry and digestate - Conserva

UniMI - Integrated management system of cowshed environment to improve the welfare and productivity of cows - Gala

Project news

The first REGATRACE newsletter is out!



Last week REGATRACE released its first international newsletter! In it, you can get the latest news from the biomethane world, learn about the project's progress, and read about developments related to the biomethane market in each country.

Read the newsletter [here](#)

Project news

New-C-Land: a form for marginal sites with a high biomass potential



The New-C-Land team is collecting information on marginal sites with a high biomass potential.

If you are an owner/manager of marginal sites and you want to make it available, complete the form. It only takes few minutes!

Go to the [form](#) (French only)

Project news

Agrimax published a paper titled: 'Advances in combined enzymatic extraction of ferulic acid from wheat bran'.



Wheat is of great importance for the EU economy and wheat-derived by-products can be considered as feedstocks for biorefinery development. The journal article and work confirms that wheat bran can be regarded as a versatile by-product, suitable for biorefinery challenges and valorisation. This research has taken place at the Agrimax Italian Pilot Plant.

Read the article [here](#)

Project news

Bio4Products held a webinar on 'Developing a pyrolysis-based biorefinery'



Bio4Products held a webinar on 'Developing a pyrolysis-based biorefinery' with speakers from UGent University, BTG-BTL Biomass-to-liquid, ECN part of TNO and BTG Biomass Technology Group. The webinar was moderated by Greenovate!Europe

Learn more about the webinar [here](#)

Project news

Renu2Farm at ManuResource 2019



The 4th edition of the ManuREsource Conference took place on 27-28 November 2019. Around 200 participants gathered in Hasselt (Belgium) to demonstrate the importance of animal manure valorization in circular economy and to discuss the obstacles that are currently surrounding this transition.

ReNu2Farm actively participated in several sessions: a poster session, a parallel presentation session and round tables.

Learn more [here](#)

Project news

ValueWaste launched the first communication campaign SUMA1



The 10th of December of 2019, Ferrovial and the Murcia City Council officially launched the first Communication Campaign of the Valuwaste: SUMA1. The Campaign seeks to engage citizens, restaurants and food markets with biowaste collection and separation practices, generating understanding of new waste management systems and its impact on the current environmental and economic situation. The Campaign will focus on the “La Flota” neighbourhood in Murcia, Spain.

Read more [here](#)

Project news

ALG-AD information workshop - Calling AD plant managers



Are you wondering how to deal with excess digestate? Would you like access to a potential solution? Are you interested in developing a circular economy? Would you like to develop a new revenue stream for your business? If you answered yes to any of the above this could be the event for you.

Read more [here](#)

Project news

Farm-scale anaerobic digestion can reduce the carbon footprint of dairy farms

Pocket Power

In the framework of the LA project Pocket Power, the greenhouse gas emission reduction potential through farm-scale anaerobic digestion was studied. An anaerobic digestion model was set up and applied to estimate desired methane production in the form of biogas as well as unwanted methane emissions associated with farm-scale digestion of manure.

Read more [here](#)

Food for thought...

Elsevier - [Leaching behavior of Cd, Zn and nutrients \(K,P,S\) from a contaminated soil as affected by amendment with biochar](#)

Valbiom - [Le potentiel du biométhane injecté dans le réseau de distribution belge](#) (French only)

Valbiom - [Des tensioactifs biosourcés pour répondre aux attentes des marchés](#) (French only)

Upcoming events

Save the date!



16th International Conference on Renewable Resources & Biorefineries

3-5 June, Gent, Belgium

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](#)



The 4th European Sustainable Phosphorus Conference

15-17 June, 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](#)



RAMIRAN 2020

14-17 September, 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.

[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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