

News on biobased resource recovery

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Dear circular economy enthusiast,

Before September ends, here we are with fresh news from the circular economy world. This time our Bulletin comes in with a brand new dress and offers you a special focus on one of our members, the Grassification project. You will be discovering more on the use of roadside grass clippings as a renewable resource for the production of bio-based products and how this can facilitate the transition towards a circular economy.

In this issue we also give our attention to the JRC report on the latest technical proposals for the safe use of processed manure. The document proposes a set of criteria to enable the safe use of RENURE material in areas with water pollution by nitrogen, in order to ensure the achievement of the Nitrates Directive's objectives.

Along with that, your reading will be enriched by breaking updates from our projects and will offer you an insight on the latest developments and results.

And last but not the least, 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 Grassification project



One of the main hurdles for the use of grass is their high sand content, as it causes damages to equipment. Therefore, one of the goals of GRASSIFICATION was to develop a new mowing head that would yield grass clippings of better quality, focusing mainly on the reduction of their sand content.

Read the [Grassification brochure](#) to know the main results obtained.

Want more details? Read the [deliverables](#) on this activity!

To test roadside grass as a co-substrate for biogas production, a mixture of manure, pig slurry and 20% grass clippings was fed into Inagro's digester between March and April. A demo day was planned but was cancelled due to Covid-19. Inagro's team has instead recorded a very interesting video lesson (*in Dutch only*)!

A report in English will soon follow.



[Click here to watch the video](#)



Grass juice can be used as a nutrient source for microalgae/cyanobacteria and insects, among other applications. Grassification has been investigating these possibilities for protein production from the grass juice and an initial report has been published.

Learn more [here](#)

Circular economy

The European Sustainable Nutrient Initiative (ESNI) goes online!



Given the the prevailing conditions of the coronavirus pandemic, the ESNI event goes virtual.

This year the European Sustainable Nutrient Initiative (ESNI) will be organised as an online conference.

Being one of the major events on nutrient recycling and reuse, ESNI provides a platform for discussion on the latest developments and challenges for the sector at European level.

Join us online and take part in debate on the benefits of nutrient recycling for the circular economy.

Register [here](#)

Circular economy

JRC published the report on 'Technical proposals for the safe use of processed manure above the threshold established for nitrate vulnerable Zones by the Nitrate Directive'



The final JRC report on 'Technical proposals for the safe use of processed manure above the threshold established for nitrate vulnerable Zones by the Nitrate Directive' has been recently published.

The report is aimed at defining the criteria allowing the use of nitrogen fertilisers, partially or entirely derived from livestock manure through processing in areas subject to the ceiling of 170kg N/ha/yr as defined by the Nitrates Directive. This should ensure that the technological and market developments for the recycling of nutrients in a circular economy is in compliance with the objective of protecting water bodies against pollution originating from livestock manure.

Read more [here](#)

Project news

A market research report on products recovered from digestate in Europe



Recently Systemic published the report "**Market research in Europe**", which aims to inspire biogas plants to develop the marketing route that is best fitted for their NNR products or vice versa. It does this by focusing on the different steps that need to be looked at when a marketing route for recovered nutrients is chosen or developed.

Read the [Systemic report](#) to learn more!

Project news

Valorising nutrient-rich digestate: Dilution, settlement and membrane filtration processing for optimisation as a waste-based media for microalgal cultivation.



Swansea University research team published the peer review scientific paper entitled: 'Valorising nutrient-rich digestate: Dilution, settlement and membrane filtration processing for optimisation as a waste-based media for microalgal cultivation'.

This paper demonstrated the research related to the processing of anaerobic digestate to be ready for a use as a nutrient source for the algal cultivation process in mass scale.

Read more [here](#)

Project news

A fantastic showcase of CIT and Interreg NWE research at CERI2020



Researchers in Cork Institute of Technology (CIT) put on a fantastic showcase of their Interreg North-West Europe research projects at the CERI2020 conference. Among the papers presented by CIT researchers, there were papers on two Interreg NW Europe projects namely ReNu2Farm and Phos4You.

Read more [here](#)

Food for thought...

Joint Research Centre (JRC) - [Caring for soil is caring for life](#)



Fertimanure - Innovative nutrient recovery from secondary sources – Production of high-added value FERTILISERS from animal MANURE

Upcoming events
Save the date!



EFIB 2020

5-9 October, online

This year's 13th edition of EuropaBio's Annual EFIB Conference will provide a platform to shed light on the role bio-based innovation can play with regard to implementing the European Green Deal and Sustainable Development Goals (SDGs) as part of green recovery.

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ICHMET2020

ICHMET 2020

25-29 October, Seoul, Korea

The ICHMET 2020 will provide a unique platform for sharing knowledge on the state-of-the-art research activities among a broad international scientific community in all aspects of heavy metals.

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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.

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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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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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