



EU GREEN DEAL  
**MAKE IT  
REAL**

#EUGREENWEEK  
30 MAY - 5 JUNE 2022

Ghent

# The role of biorefineries in European agriculture

30 & 31 May | Voldersstraat 9

PARTNER EVENT

## Monday 30 May

**13:00** Welcome & Opening by Prof. Erik Meers, Ghent University

**13:15** Value chain assessment of waste-to-bioenergy and bioproducts solutions  
Moderator: Nathan De Geyter, Ghent University

- F-CUBED: Value Chain Assessment of Hydrothermal Conversion of Wet Residues to Energy Carriers, *Heather Wray, TNO*
- Value chains for European seaweed, *Julie Maguire, Bantry Marine Research Station Ltd*
- Innovative Bio-based Circular Economy Schemes as an enabler of regional resilience: The cases of biomass, food waste utilization and waste water valorisation for the production of high market value bio-products, *George Banias, CERTH*
- How to boost investments in the European Bioeconomy: the HOOP Circular Valuation Method, *Margriet Goossensen, Isabelle Meijer, Bax & Company*

**15:00** Coffee break and poster session

**15:30** Turning agricultural waste into biomaterials  
Moderator: Marcella Fernandes de Souza, Ghent University

- From residual stream to whole crop utilization: one small step for man one giant leap for mankind, *Jappe de Best, Avans*
- Recover: Degradability and biodegradability of commodities plastics, *Patrizia Cinelli, University of Pisa*
- Bionanopolys: Pilot-scale biomass to sugar processing as feedstock for nanomaterials, *Rob Verlinden, BPF*
- ECOFUNCO: Agri-food biomass valorization for production of sustainable multi-functional coatings on plastic and cellulose substrates, *Patrizia Cinelli, University of Pisa*

**17:15** Wrap-up & closure

**17:30** Networking drink

## Tuesday 31 May

**09:00** **Welcome & Opening** by Prof. Erik Meers, Ghent University

**09:30** **Turning agricultural waste into biochemicals**

*Moderator: Geert Haesaert, Ghent University*

- Development and optimisation of downstream processes for carboxylic acids recovery from agricultural streams, *Steven De Meester, Ghent University*
- Microorganisms as tool for valorisation of wastes and residual organic resources, to bioproducts and bioenergy, *Irini Angelidaki, DTU*
- Cascading processes to extract and valorize proteins and bioactive molecules from legumes, fungi and coffee agro-industrial side stream: the Prolific project, *Annalisa Tassoni, University of Bologna*
- OLEAF4VALUE: High added value biochemicals from olive leaf through multi-product cascade based biorefinery, *Chema Castellano Roldan, Innovarum*

**11:00** **Coffee break and poster session**

**11:15** **Sustainable agriculture in Europe through nutrient recovery and recycling**

*Moderator: Erik Meers, Ghent University*

- Nutrient Recycling Community, *Ana Robles Aguilar, Ghent University*
- Is There a Demand for Recycling Derived Fertilisers in North-West Europe? An Explorative Approach to Farmers' Fertiliser Requirements in the Agricultural Sector and Investigating the Demand in New Markets, *Aoife Egan, MTU*
- Nutri2Cycle: Opportunities and limitations of using biobased fertiliser as a replacement for chemical fertiliser or slurry manure in (precision) arable farming systems, *Jan Peter Lesschen, Wageningen University*
- FERTIMANURE: Obtaining high quality and safe bio-based fertilizers from animal manure through innovative on-farm biorefineries, *Nagore Guerra Gorostegi, UVIC*
- Lex4Bio: Optimising the use of bio-based fertilisers in crop production, *Kari Ylivainio, Luke*
- Recovery of P from food waste in the form of struvite, *Wim Moerman, NuReSys*

**13:00** **Lunch break**

**14:15** **Biogas Biorefineries: Towards more resilient EU-wide energy systems for the future**

*Moderator: Mieke Decorte, European Biogas Association*

- BioDEN: A biorefinery approach to exploit digestate as key feedstock in the energy–nutrient nexus, *Çağrı Akyol, Ghent University*
- ALG-AD: Value from waste nutrients by integrating algal and anaerobic digestion technology, *Alla Silkina, Swansea University*
- Enhancing the performances of anaerobic digestion units by applying an advanced biological and analytical surveillance, *Amr Chamaa, Innolab*
- From Biowaste to Biobased Products through an Anaerobic Digestion – Life Cycle Assessment of VALUEWASTE Solution, *David Fernández Gutiérrez, CETENMA*

**15:45** **Coffee break**

**16:00 Resource-oriented solutions for water recovery and reuse**

*Moderator: Francis Meerburg, Aquafin*

- WaINUT Project: Closing waste water cycles for nutrient recovery, *Francisco Corona Encinas, CARTIF*
- Membrane-based solutions for advanced effluents treatment and reuse aiming to near zero-liquid-discharge in the agro-industrial sector, *Sotiris Patsios, CERTH*
- Recovery of water and nutrients from bio-based streams via electro dialysis, *Leonardo Gutierrez, Ghent University*

**17:15 Wrap up and closure**

**17:30 Networking drink**