

Task42

Biorefining in a Future BioEconomy



Biorefining, the sustainable processing of biomass into a range of marketable biobased products and bioenergy/ biofuels, is an innovative and efficient approach to use biomass resources for the synergistic co-production of power, heat and biofuels alongside food and feed ingredients, pharmaceuticals, chemicals, materials, minerals and short-cyclic CO₂. Biorefining is one of the key enabling technologies of the Circular Economy, closing loops of raw biomass materials, minerals, water and carbon.

Biorefining is the optimal strategy for large-scale sustainable use of biomass in the BioEconomy.

Work Programme 2016 – 2018

The priority of the Task42 activities for the 2016 – 2018 triennium all have the objective to further contribute to the market deployment of sustainable biorefineries. The focus will be on international and national networking activities, standardisation and certification of biobased products, policy advice, and the role of industrial and SME stakeholders from the bioenergy and biofuel sectors in the transition to a BioEconomy. The Work Programme 2016 – 2018 is divided into four main Activity Areas (AAs), viz.:

- Biorefinery Systems – Analysis and assessment of biorefining in the whole value chain
- Product Quality – Reporting on related biobased products/bioenergy standardisation, certification and policy activities at national, European and global levels
- Evolving BioEconomy – Analysing and advising on perspectives of biorefining in a Circular BioEconomy
- Communication, Dissemination and Training – Knowledge exchange by stakeholder consultation, reporting and lecturing

Aim of IEA Bioenergy Task 42

The aim is to facilitate the commercialisation and market deployment of environmentally sound, socially acceptable, and cost-competitive biorefinery systems and technologies, and to advise policy and industrial decision makers accordingly. Task42 provides an international platform for collaboration and information exchange between industry, SMEs, GOs, NGOs, RTOs and universities concerning biorefinery research, development, demonstration and policy analysis. This includes the development of networks, dissemination of information, and provision of science-based technology analysis, as well as support and advice to policy makers, involvement of industry, and encouragement of membership by countries with a strong biorefinery infrastructure and appropriate policies. Gaps and barriers to deployment will be addressed to successfully promote sustainable biorefinery systems market implementation.



Results 2016 – 2018

In this Triennium Task 42 will deliver several results, which include among others:

- Biorefinery expert system & Biorefinery factsheets
- Biorefinery Country Reports
- Three background reports: i) Biobased Chemicals, ii) Proteins for Food/Feed and Industrial Applications & iii) Biobased Fibrous Materials
- Training Activities
- Thematic Stakeholder Workshops

New Work Programme 2019–2021 - Request for input

Early 2018, Task 42 will draft a first work programme for the 2019-2021 triennium. All stakeholders, e.g. SMEs, industry, policy makers, NGOs, research institutes, universities, etc., active in the biorefinery/BioEconomy sector are invited to come-up with specific ideas for this new work programme.

Questions we have are:

- What biorefinery/BioEconomy data are you looking for?
- What kind of assessment tools are still lacking?
- What type of reports or papers provide added-value for your activities?
- Do you need any biorefinery/BioEconomy based training?
- Do you want to be involved more closely to the activities of Task42?

So please send us your ideas, input and requests before the end of 2017 by e-mail to secretariaat.bbp@wur.nl, stating in the subject line: 'IEA Bioenergy Task42 – Input 2019-2021 Work Programme'.

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