Nutrient recovery from biobased Waste for Fertilizer production

Fact Sheet

Objective

Biowaste valorisation is an attractive approach in the framework of the EU Waste Management policies and the development of a circular economy. Waste from biostreams and different biobased sources are being under-utilised as potential resource of valuable compounds. Fertilisers play an important role as suppliers of nutrients relying on their production heavily on fossil mineral resources. European Fertiliser industry is besides very dependent on imports of these raw materials, being vulnerable to supply and pricing policies.

Main objective of the proposal is to build up a breakthrough concept of Fertiliser Industry, strengthening European competitiveness and boosting the biobased economy potential, through the development of a new value chain, which will achieve turning solid and liquid residues, specifically ashes of different origins and livestock effluents, into high quality valuable products, a new generation of fertilisers. NEWFERT will focus on a viable and cost-effective industrial nutrient recycling scheme, developing new biorefining technologies aimed at increasing nutrient recovery ratios and mitigating environmental and socio-economical impact of the current fertilisers by replacing non renewable and fossil nutrients with biobased materials in their composition. Projected benefits also include substantial energy savings and CO2 emissions reduction. NEWFERT aims to decrease raw material dependency, prevent resource depletion and reduce the environmental impact increasing significantly the Fertiliser industry sustainability. The work organisation has been designed to link and pursue a successful industrial integration supported by a solid
life-cycle cost analysis. The strategy of the work plan is based on 8 workpackages. NEWFERT consortium is lead by FERTIBERIA and composed by a balanced set of 6 partners from 4 European Union member countries: biobased industries, SMEs, RTOs and academic institutions covering nutrients recovery from biobased waste field.

Field of Science

/工程和科技/环境工程/废物管理

/社会科学/经济学与商业/生物学经济学

/社会科学/其他社会科学/社会科学跨学科/可持续发展

/社会科学/经济学与商业/经济学/可持续经济

Programme(s)

H2020-EU.3.2.6. - Bio-based Industries Joint Technology Initiative (BBI-JTI)

Topic(s)

BBI.VC4.R10 - Nutrient recovery from biobased waste streams and residues

Call for proposal

H2020-BBI-PPP-2014-1

See other projects for this call

Funding Scheme

BBI-RIA - Bio-based Industries Research and Innovation action

Coordinator

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Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

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