From waste to value: 25 inspiring bio-based fertiliser technologies available in FertiCovery catalogue

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The FertiCovery project has launched a comprehensive digital repository showcasing 25 examples of best available technologies for nutrient recovery and bio-based fertiliser production. The repository provides an overview of how diverse organic waste streams can be transformed into efficient bio-based fertilising products.

This resource is a key outcome of FertiCovery's work on analysing Best Available Technologies for bio-based fertilisers. It aims to raise awareness and foster the uptake of sustainable fertiliser solutions by offering stakeholders reliable and transparent technical information.

FertiCovery is dedicated to advancing innovative solutions for recovering nutrients from secondary raw materials and accelerating the transition towards sustainable, bio-based fertiliser systems within the wider EU bioeconomy.

The repository enables users to explore and filter 25 case studies based on:

- **Feedstock category**: illustrating how manure, biowaste, industrial residues and wastewater biosolids can be converted into valuable resources
- **Product category**: identifying the resulting bio-based fertiliser types
- **Technology type**: detailing the chemical, physical or biological processes employed.

Each case study includes a preliminary value chain evaluation, with an assessment of technical performance and environmental impacts. This evidence base supports the integration of nutrient recovery technologies into mainstream agricultural practices, contributing to more circular and resilient farming systems.

The catalogue is based on the work of the National Technical University of Athens, in collaboration with all FertiCovery partners, which developed descriptions and analyses of the 25 selected technologies. These technologies at TRL8-9 were identified from an initial pool of over 150 nutrient recovery and bio-based fertiliser technologies, using classification indicators covering feedstocks, value chains, products, and applications.

Stakeholders are invited to explore and benefit from the catalogue as it continues to evolve. Additional indicators, diagrams, and technical datasheets will be added as the project work continues.

The repository is now available at: FertiCovery Case Studies - Ferticovery - Advancing nutrient recovery and bio-based fertilisers for sustainable agriculture

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"FertiCovery's mission is to respond to the growing need for innovative and sustainable alternatives in the fertiliser sector, particularly in the context of the current energy and resource challenges. By recovering nutrients from local waste streams, we can reduce dependence on imports and strengthen the resilience of European agriculture."

- ***Martijn Vis, FertiCovery project coordinator from BTG Biomass Technology Group B.V.***

Stakeholders and policy makers can keep up with project progress on the project Open Forum- **LinkedIn group** and **LinkedIn page**.

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Contact

- **Coordination: Martijn Vis, BTG Biomass Technology Group B.V. vis@btgworld.com**
- **Communication: Greenovate! Europe info@greenovate-europe.eu, Agnieszka Wieczorek Jetha a.wieczorek@greenovate-europe.eu**

Project information

- **Grant agreement ID: 101181936**
- **Call topic: HORIZON-CL6-2024-ZEROPOLLUTION-01-2 Best available techniques to recover or recycle fertilising products from secondary raw materials**
- **Full name: BEST AVAILABLE TECHNIQUES TO RECOVER OR RECYLE FERTILISING PRODUCTS FROM SECONDARY RAW MATERIALS**
- **Budget: 1 934 961.38 EUR**
- **Duration: 36 months**
- **Partners: B.T.G. BIOMASS TECHNOLOGY GROUP BV (The Netherlands); FUNDACION CARTIF (Spain); ETHNICON METSOVION POLYTECHNION (Greece); UNIVERSITA DEGLI STUDI DI TORINO (Italy); POLITECHNIKA WROCLAWSKA (Poland); EUROPEAN BIOGAS ASSOCIATION AISBL (Belgium); EUROPEAN COMPOST NETWORK ECN EV (Germany); GREENOVATE! EUROPE (Belgium)**

Keywords

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