CiNURGi Nutrient Recycling Award
The top 6!

Interreg Baltic Sea Region

Co-funded by the European Union

CIRCULAR ECONOMY
CiNURGi

CiNURGi aims at promoting recycling of nutrients, applying a holistic perspective by covering both municipal, industrial and farming waste sectors.

The project is identifying and analysing the best practices and most innovative solutions for the purpose of showcasing solutions for bio-based fertiliser production that deserve a wider disseminated use due to their impact on environment, climate and economy.

Among 24 cases that were identified via an open call, 11 went through in-depht analyses, and we can now present **the six best cases**, two from each of the mentioned organic waste sectors:

Farming waste category nominees:

Planteo

BioPir

Municipal waste category nominees:

Soepenberg

Sanitation360

Industry waste category nominees:

Gyllebo

Bio10

CiNURGi aims to support nutrient recycling from all available sources, with a special focus of expanding nutrient recycling into the municipal and industrial sectors, where there are potential organic waste sources available for recycling.

CLIMATE-NEUTRAL SOCIETIES

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Top six solutions receiving the CiNURGi Nutrient Recycling Award

Planteo produces organic fertiliser pellets made from 100% plant-based agricultural and food waste-based digestate. The product can be used both in agriculture and private gardens and is allowed in organic farming.

Value chain*: FMP2
Location: Warzaw, Poland

SF-Soepenberg GmbH turn activated wastewater sludge into a struvite granulated fertiliser through chemical processing. The end product has a high concentration of both nitrogen, phosphorus and magnesium.

Value chain: MCS
Location: Stadt Gifhorn, Germany

Gyllebo Gödning offers fertiliser pellets in a product line called "Biofer". The main raw material for the fertiliser is meat and bone meal from processing animal tissue. The nutrient content is adjusted accoriding to intended use with minerals that are allowed in organic farming.

Value chain: IMP
Location: Malmö, Sweden

**Value chain abbreviations stand for the waste sector (M - municipal, F - farming, I - industry), the main processing technology (M - mechanical, T - thermal, C- chemical, B - biological), and the type of bio-based fertiliser (BBF) end product (P - pellets, G - granules, S - other solids, L - liquids)*

The full report including evaluation is available here

BioPir produce separation liquids and solids from pig manure based digestate, using natural settling followed by mechanical separation. The end product is allowed for use in organic farming.

BIOPIR OY

Value chain: FMS
Location: Vehmaa, Finland

Sanitation 360 has developed a technology for collecting human urine and processing this into a nitrogen rich fertiliser granulate. The solution comprises a urine-diverting toilet or urinal, a collection tank pre-dosed with a mix of chemicals for avoiding N volatilisation before collection and processing, either on-site or at a drying facility.

Sanitation 360

Value chain: MCG
Location: Gotland, Sweden

Bio10 is via mechanical separation of digestate producing separation liquids and solids for allowing the export of excess phosphorus out of the region. The digestate is mainly based on organic household wastes, including food wastes and food industry wastes. The end product is allowed in organic farming.

Bio10

Value chain: MML
Location: Kitee, Finland

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CiNURGi

CIRCULAR NUTRIENTS FOR A SUSTAINABLE BALTIC SEA REGION

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CIRCULAR ECONOMY CiNURGi

CiNURGi is a project aimed at developing a circular economy for nutrients in the Baltic Sea Region.

The project addresses environmental management and sustainable agricultural practices. The initiative focuses on upgrading current infrastructure and technology to enhance nutrient recovery from biomass and resource streams from agricultural, municipal, and industrial sources.

The project's goal is to facilitate efficient nutrient use and promote the use of recycled fertilizer products.

The project's emphasis on nutrient recycling and circular economy principles aims to contribute to environmental sustainability and economic development in the area.

The project is financed by the EU's Interreg Baltic Sea Region Programme, and lead by RISE - Research Institutes of Sweden.

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DURATION

11/2023 - 10/2026

TOTAL BUDGET

6 540 000 €

25 PARTNERS

from Sweden, Poland, Finland, Lithuania, Germany, Estonia and Denmark

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