

Further information

If you would like further information please contact the relevant WP leaders:



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WP6

Energy potentials of manure

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Baltic Manure is a Flagship Project in the Action Plan of the EU Strategy for the Baltic Sea Region adopted by member states in 2009.

It involves 18 project partners from 8 countries with MTT Agrifood Research Finland as the lead partner.

The total project budget is € 3.7 million.



Part-financed by the European Union (European Regional Development Fund)



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WP3

Innovative technologies

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Assessing sustainability of manure

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WP4

Standardisation of manure types

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Other partners



Baltic Forum for Innovative Technologies for Sustainable Manure Management



Turning manure problems into business opportunities by

- Bringing together stakeholders and enhancing knowledge
- Stimulating technology and business development
- Providing useful policy recommendations
- Improving manure handling and use in the Baltic Sea region



www.balticmanure.eu



About the project

Project period is autumn 2010 - autumn 2013

The Baltic Sea Region is an area of intensive agricultural production. Agriculture uses substantial amounts of non-renewable nutrients as well as energy, meanwhile animal manure is often considered to be a waste product and an environmental problem.

The project **Baltic Manure** intends to flip this perspective 180 degrees and identify the business opportunities in manure. Manure must be considered a resource instead of a problem. It is calculated that all manure in the Baltic Sea Region contains 981,000 tonnes of Nitrogen and 281,000 tonnes of Phosphorus, currently not utilised properly.

The project **Baltic Manure** provides a forum where researchers, developers, administrators, and business people can come together to develop the many opportunities of manure as fertiliser and energy.

Research and development within renewable energy and nutrient recycling will be combined with business innovation efforts to achieve sustainable agriculture, prosperity, and job opportunities in the BSR.

The business opportunities lie in innovative solutions for manure management and processing. Through conferences, fairs, and B2B events, the innovation potential of the region's SMEs will be improved by joint efforts of the organisations and countries involved.

The overall project goals are to enhance business, to improve nutrient cycles, to foster renewable energy use in the region, and to reduce environmental load from agriculture to the Baltic Sea. In other words: to contribute to making the Baltic Sea region an attractive place to invest, work, and live in.

5 themes

will be dealt with in the project:

Innovative technologies for manure handling

Standardisation of manure types with special emphasis on the phosphorus challenge

Assessment of the sustainability of manure technology chains

Energy potentials of manure

Business innovation

Work packages

WP1	Project management and administration MTT Agrifood Research Finland (FI)	Ensuring strategic, operational and financial management of the project.
WP2	Communication Agro Business Park (DK)	Facilitating communication between actors internally and externally.
WP3	Innovative technologies for manure handling JTI (SE)	Identifying innovative technologies for handling and processing manure in an environmentally-friendly way on large farms in the BSR.
WP4	Standardisation of manure types with focus on Phosphorus JKI (DE)	Describing different manure types and their value as a fertiliser and recommending new standards for manure types.
WP5	Assessing sustainability of manure technology chains University of Southern Denmark (DK)	Assessing the environmental consequences of different manure management technology chains of relevance for the BSR.
WP6	Energy potentials of manure MTT Agrifood Research Finland (FI)	Evaluating the energy potentials of different manure types with focus on biogas technology.
WP7	Business Innovation Agro Business Park (DK)	Supporting commercialisation of innovative outputs from the WPs 3-6 in cooperation with commercial actors in the BSR region.

Objectives

The long-term strategic objective of the project **Baltic Manure** is to change the general perception of manure from a waste product to a resource, while also identifying its inherent business opportunities with the proper manure handling technologies and policy framework.

To achieve this objective, three interconnected manure forums will be established with the focus areas of **knowledge, policy, and business**.

Project objectives within these three focus areas are:

KNOWLEDGE	POLICY	BUSINESS
To evaluate the existing norms for manure application with a special focus on phosphorus.	To evaluate incentive structures and national interpretations of EU directives influencing the development and implementation of innovative manure processing technologies.	To identify and analyse the commercial potentials of manure technologies, e.g. for energy purposes.
To evaluate the region's existing technologies for animal housing and manure processing.	To recommend framework conditions to improve the use of manure resources as fertiliser and energy.	To find enablers and barriers for business on manure.
To perform a sustainability analysis of new technologies.		To stimulate business innovation for manure technologies.
To deepen the knowledge on manure based biogas technology.		To make business-to-business events.



Baltic Sea Region
Programme 2007-2013

The main output of the project **Baltic Manure** will be...

Guidelines for environmentally and economically sound handling chains for manure in different BSR countries, to be used by farmers, advisory organisations, technology producers, and policymakers. (WP 3)

A review on Phosphorus supply and chemical speciation in agricultural soils in the BSR to be used for developing farming practices and policy instruments. (WP 4)

Preliminary guidelines for sustainable use of manure and manure-based fertilisers with scenarios for the optimization of nutrient use. (WP 4)

United database of processed and unprocessed manure, agricultural soils, and manure-based en-

ergy potentials in BSR-countries. (WP 4 & WP 6)

A life cycle inventory of selected manure processing technology chains and their implications for farming. (WP 5)

Scenarios for energy recovery from manure in the BSR leading to recommendations for BSR policy makers. (WP 6)

Model business plans for application of the knowledge produced and for serving as tools for creating new business opportunities. (WP 7)

Recommendations for BSR policy makers regarding actions aimed at improving adoption of new technologies for manure processing to energy and fertilisers. (WP 7)

