

PROJECT FACT SHEET

Basic Information

Project Name:	The beneficial use of sewage sludge from small and medium sized municipalities
Acronym:	Euroslam
Project's Lead Beneficiary:	Region Skåne
Programme Priority Axis:	Attractiveness and Common Identity
Measure:	Management of the Baltic Sea environment

Summarised description of the project:

The project involves eight **partners** from Poland, Sweden and Lithuania, accompanied by five Associated Organisations. The municipal partners implements the biogas production and utilization, and the Associated Organisations provide scientific advice to the partnership and assist in disseminating project results.

The **overall idea** of the project is to reduce the eutrophication in the Baltic Sea. Improved handling of sewage sludge and technical adjustments to fit small and medium size waste water treatment plants can reduce the alarming outflow of nutrients and heavy metals to the sea. By using the sewage sludge in the production of biogas, the capacity to utilize biogas and recycle biosolids (phosphorus and nitrogen) as fertilizers will increase.

The project defines three different **actions** to tackle the problem: production of biogas, biogas utilization (converting biogas into usable forms of energy – heat, electricity or fuel) and utilization of biosolids used as bio fertilizer on farmland. Based on the findings the Euroslam project will develop a quality assurance programme (QA) and a manual of the biogas utilisation process.

The **target groups** defined by the project are municipalities and waste water treatment plants, farmers associations, food industries, suppliers of biogas technology, as well as energy companies.



List of activities, outputs and output indicators, results and result indicators:

Component 0

Activities

Contact establishment
Survey of partner needs and contribution
Partnership workshops
Writing the application to the SBP

Outputs

Established partnership
Survey with information from each partner of needs and contribution
Workshops for joint project development
Written application to SBP

Output indicators

Partnership	Number of partners	8,00
Partnership with associated partners	Number of associated partners	5,00
Partnership survey	Number of surveys	1,00
Partnership workshops	Number of Workshops	3,00
Application to South Baltic Programme	Number of applications	1,00

Component 1

Activities

Strategic monitoring, financial management and steering
Strategic coordination of activities
Strategic and operational technical support to component leaders
Preparation for meetings, seminars, workshops, conferences and study visits
Reporting of project, coordinating partner project reports and assembling the project reports

Outputs

Secretariat, Steering Committee, Rules of Procedure (audit system, organizational structure), Detailed Activity Plan for each Component
Component Leader Group (CLG), ad-hoc groups
Stakeholder Networks
International conferences (including kick-off and final conference) (3)
Partner Reports (Financial, Activity), Audit certificates from Partners

Output indicators

Number of Steering Committee meetings	Number of meetings	6,00
Component Leader Group Meetings	Number of meetings	6,00
Partner planning, implementation and technical workshops	number of workshops	18,00
Stakeholder meetings	Number of stakeholder meetings	12,00
Progress reports	Number of progress reports	50,00



International conferences	Number of attendees	100,00
Component 2		
Tools	Target groups	Content
Website solutions	Project partnership and external parties	Intranet storage solution. Intranet discussion forum. Website. Project cross-border newsletter.
Direct and indirect dialogues	Press, AOs, farmers, municipalities landowners, inhabitants	Local exhibitions. Workshop series for farmers associations, landowners, local authorities. Study visits for AO:s press and organisations. Study visits for partnership.
Printed material	WWTPs, Municipalities, Farm Associations, Landowners, Inhabitants	Press strategy. Brochures and flyers. Rollups.
Printed technical material	Municipalities and WWTPs	Popular short form Handbook and guidelines
Outputs		
Partnership Intranet with storage solutions		
Detailed communication plan		
Project website		
Periodic cross-border newsletter		
Cross-border and national press and organisation communication strategy papers		
Study visits for media, AO, environmental and farmers organisations		
Popular short form Handbook and Guidelines		
Cross-border guidelines (handbook)		
Output indicators		
Partnership intranet with storage solution	Number of documents	75,00
Detailed communication plan	Number of plans	1,00
Project website	Number of visitors	400,00
Periodic cross-border newsletter	Number of editions	9,00
Periodic cross-border newsletter	Number of subscribers	400,00
Cross-border and national press, organization communication strategy papers	Number of media articles, broadcast	30,00
Study visits for media, AO, environmental and farmers association	Number of journalists	10,00
Popular short form of guidelines (handbook)	Number of brochures	600,00
Cross-border Guidelines (handbooks)	Number of recipients	80,00
Component 3		
Activities		
Cross-border survey of available technology and need for adaptation		
Testing and analysis of the biogas potential in various substrate, study on the influence of the new polish law for municipal waste		
Perform installations for testing equipment for different biogas test operations		
Perform hygienic analyses of the biosolids		



Perform cost-benefit calculations for different sizes of treatment plants and digesters

Outputs

Reports regarding pre-treatment possibilities and results, including influence on the new polish law for municipal waste

Reports of the potential of biogas production in different substrates

Manual for construction of biogas process

Recommendations for process parameters for good hygienic standards

Experience exchange between operators, handling instructions including self monitoring manuals

Cost benefit report for different sizes of treatment plants

Output indicators

Feasibility studies	number of feasibility studies	5,00
Test reports for biogas potential	Number of test reports	10,00
Cross-border manual for construction of biogas process	Number of CBC manuals	1,00
Experience exchange on operator level	Number of participants in study visits	90,00
Self monitoring manuals	Number of monitoring manuals	5,00
Cost-benefit analysis for different sizes	Number of regional cost benefit analysis	6,00
Cross-border cost-benefit analysis for different sizes	Number of CBC cost-benefit analysis	1,00

Component 4

Activities

Feasibility studies for different possibilities to convert biogas to usable energy at different size of production capacity

Development of a manual of how to choose a proper biogas utilization process with energy companies

Testing biogas conversions at different applications

Perform calculations regarding biogas value at different applications at different energy alternatives

Outputs

Cross-border feasibility study for biogas utilization

Reports for different applications

Reports of test results

Guidelines for negotiating with energy companies

Output indicators

Feasibility study for possibilities to convert biogas to heat	Number of feasibility studies	5,00
Feasibility study for possibilities to convert biogas to electricity	Number of feasibility studies	5,00
Feasibility study for possibilities to convert biogas to vehicle fuel	Number of feasibility studies	5,00
Compiled CBC feasibility study of possibilities to convert biogas into usable energies	Number of feasibility studies	1,00



Test Reports for different applications	Number of reports	15,00
CBS compiled application Test report	Number of reports	1,00
Manual biogas utilisation process	Number of manuals	1,00
Reports regarding test results	Number of test reports	5,00
Compiled CBC Guidelines energy companies	Number of guidelines	1,00
National adapted guidelines energy companies	Number of national guidelines	3,00

Component 5

Activities

Tracing heavy metals in the collection systems
Development of quality assurance program (QA)
Performing calculations for optimal use of phosphorus and nitrogen in agriculture as fertilizer
Development of traceability system for monitoring biosolid use
Collaboration with farmers and food industry

Outputs

Reports regarding heavy metal balance and tracing in collection system
Recommendations for implementing a QA program
Product data sheet for agricultural use of biosolids
GIS based traceability system
Collaborations with farmers in meetings, information campaigns, and participating in markets, exhibitions

Output indicators

Tracing reports	Number of reports	3,00
QA programmes	Number of QA programmes	5,00
Manual for development of QA program	Number of manuals	1,00
Biosolid data sheets	Number of data sheets	20,00
Traceability reports	Number of reports	10,00
GIS system	Number of systems	1,00
Digital GIS maps	Number of digital maps	50,00
Information campaigns to farmers and industry	Number of campaigns	12,00
Meetings with farmers and industry	Number of meetings	60,00
Participating in festivals and markets with information	Number of festivals and market	24,00
Best practise reports for collaboration with farmers and food industry	Number of reports	6,00

Results indicators

Universal

Number of political agreements resulting from project activities to be signed within the project lifetime	Number	6,00
Number of created cross-border networks based on formal agreements	Number	1,00
Number of organisations involved in new / upgraded cross-border networks based on formal agreements	Number	6,00



Measure specific

Number of institutions with improved capacities in the management of the Baltic Sea environment	Number	6,00
Number of improved methods / instruments for the management of the Baltic Sea area environment	Number	5,00

Other result indicators

Amount of biogas potentially produced (in kwh) at WWTPs suitable for using the manual	kwh	50 000 000,0 0
Tons of phosphorus recycled to agricultural land	Ton	1 000,00
Ton of nitrogen recycled to agricultural land	Ton	1 000,00
Municipalities and WWTPs with raised environmental capacity	No	50,00



Project duration				
<i>Date of start</i>	<i>Date of finalisation</i>	<i>Duration [months]</i>		
06/2011	05/2014	36		
Project Budget				
ERDF co-financing [EUR]:		937 419,00		
National co-financing [EUR]:		261 665,00		
Total eligible budget [EUR]:		1 199 084,00		
Total ineligible budget [EUR]:		0,00		
Overall project budget [EUR]:		1 199 084,00		
Project Partnership				
Countries represented in the project				
<i>Country</i>	<i>Number of Partners</i>	<i>Number of Associated Organisations</i>		
Denmark	0	0		
Germany	0	0		
Lithuania	1	0		
Poland	2	2		
Sweden	5	3		
Russia	0	0		
Others	0	0		
Total	8	4		
List of Partners				
<i>Organisation</i>	<i>Country</i>	<i>Eligible partner budget [EUR]</i>		
		<i>ERDF</i>	<i>National</i>	<i>Total</i>
Region Skåne	SE	18 150,00	6 050,00	24 200,00
Sustainable Business Hub	SE	170 838,00	56 946,00	227 784,00
The municipality of Höganäs	SE	140 340,00	46 780,00	187 120,00
The municipality of Hörby	SE	143 040,00	47 680,00	190 720,00
Östra Göinge Municipality	SE	141 150,00	47 050,00	188 200,00
The administration municipality of Silale	LT	137 700,00	24 300,00	162 000,00
Municipal Infrastructure Company "KOS-EKO" Sp.zo.o	PL	101 201,00	17 859,00	119 060,00
Polish Biogas Association	PL	85 000,00	15 000,00	100 000,00
List of Associated Organisations				
<i>Organisation</i>	<i>Country</i>	<i>Ineligible budget [EUR]</i>		
Association of Local Authorities/ Skåne Energy Agency/Biogas Syd	SE	0,00		
Marshal's Office of Pomorskie Voivodeship	PL	0,00		
Swedish University of Agricultural Sciences	SE	0,00		
Foundation: The Institute of Environmental Protection and Renewable Energy	PL	0,00		
Swedish Water and Waste Water Association	SE	0,00		



