



Energy Cluster

2011-2012/1

Cluster initiative "Energy efficiency and renewable energy sources" in the Baltic Sea Region Programme 2007-2013 contributes for an Eco Region



Cluster Outputs

- 01- Kick off workshop
- 02- Meeting in Brussels
- 03- Final conference
- 04- Networking
- 05- Recommendation for further funding options
- 06- Cluster compendium
- 07- Webpage
- 08- Final report

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Short story

In the autumn 2010 the Monitoring Committee of the Baltic Sea Region Programme 2007-2013 initiated a new instrument for cooperation, i.e. cluster initiatives, to be fully financed from the Programme's cumulated interest income. The instrument is targeted at already approved and ongoing projects in the Programme.

Objectives

The objective of the cluster initiatives is to improve the Programme performance with view to its relevance, effectiveness, and efficiency and to present the Programme outcomes to a broader public. By increasing the awareness of the Programme's achievements, the results of the cluster initiatives shall also be taken into consideration for the future programming period 2014-2020.

Participation in the Cluster

All cluster projects and partners have the common thematic interest to work for sustainable energy solutions in the cluster region. The cluster will protect the climate through using

- Renewable energy (in particular biogas)
- Sustainable technologies
- Resource saving in buildings
- Energy efficiency in urban context



Energy Cluster

Projects and Partners

The current cluster projects are represented by partners from the following countries: Germany, Denmark, Estonia, Finland, Lithuania, Poland and Sweden.



Longlife
Sustainable, energy efficient and resource saving residential buildings in consideration of unified procedures and new and adapted technologies



CLUSTER LEADER

Partners: Technische Universität Berlin (DE), Municipality of Roskilde (DK), Certification Centre of Building Products (LT)

Project contribution:

- Longlife Prototype, Catalogue of materials, elements and technologies supporting the integrated design of sustainable buildings
- Longlife Performance Pass, evaluation of the designed sustainable building in the fields ecology, economy and qualities with longlife tools (costs, energy, CO₂)

REMOWE
Regional Mobilizing of Sustainable Waste-to-Energy Production



PROJECT PARTNER

Partners: Mälardalen University (SE), Ostfalia University of Applied Sciences (DE), Savonia University, University of Eastern Finland (FI)

Project contribution:

- guidelines on action plans and strategies to mobilize waste- to- energy production
- current status reports on waste-to-energy in the partner regions
- state-of-the art report on waste-to-energy technologies and systems
- report on differences and similarities in the regions and possible technology and knowledge transfer and identified bottlenecks
- report on substrate pre-treatment, quality and biogas potential of different waste substrates
- report on biogas utilization strategies

BalticBiogasBus
Increase the use of biogas buses in public transport in urban areas in the BSR to reduce CO₂ emissions and local pollution



PROJECT PARTNER

Partners: Motor Transport Institute (PL), VTT Technical Research Centre of Finland (FI), ATI ert gGmbH (DE), Stockholm Public Transport Company (SE)

Project contribution:

- strategies and policy recommendations for introduction of biogas (biomethane) buses in public transport
- display the potential for biogas production from various available sources in the Baltic Sea Region
- provide knowledge of core elements of biogas distribution, planning of infrastructure and fuelling systems
- demonstrate the environmental benefits of buses, powered with biogas
- life cycle cost analysis for biogas as fuel in city buses
- dissemination of knowledge of the environmental benefits of biogas

Urb Energy
Energy Efficient and Integrated Urban Development Action



PROJECT PARTNER

Partners: Housing Initiative for Eastern Europe (DE), German Association for Housing, Urban and Spatial Development (DE)

Project contribution:

- manual on an integrated urban development approach targeting at energy efficient residential areas
- manual on holistic strategies for energy efficient refurbishment of the housing stock and renewal of the related energy supply system
- guidelines for innovative use of EU Funds for Measures in the Housing Sector and deprived urban Areas
- policy recommendations: Energy efficient urban areas and neighbourhoods – A contribution to liveable and competitive cities

Bioenergy Promotion
The Baltic Sea Region Bioenergy Promotion Project



PROJECT PARTNER

Partners: Agency for Renewable Resources (DE)

Project contribution:

- tool and guidance for reaching sustainable systems for bioenergy production in the Baltic Sea Region and possibly beyond
- recommendations and policy guidance: Analysis of sustainability and certification schemes. EU policy assessment. Policy guidance paper. Country policy assessment reports
- virtual Broker Platform: The aim of the platform is to bring key players (buyers, sellers, investors, brokers) together and facilitate business development in the bioenergy sector in order to increase the competitiveness of the Baltic Sea Region

PEA
Public Energy Alternatives - Sustainable energy strategies as a chance for regional development



PROJECT PARTNER

Partners: City of Niepolomice (PL), City of Wittenberge (DE)

Project contribution:

- compilation of all project findings from all work packages and partners to be provided for general use of public institutions to foster decision making on modernization and restructuring processes in the public energy sector
- a comprehensive guide to rethinking and remodeling regional energy politics

SPIN
Sustainable Production through Innovation in SMEs (small and medium enterprises)



PROJECT PARTNER

Partners: Swedish Environmental Research Institute (SE), Central Mining Institute (PL), University of Tartu (EE)

Project contribution:

- SPIN database of innovation highlights
- synthesis report on Needs, Barriers & Incentives of SMEs
- background studies on focus sectors, incl. biogas/bioenergy, sustainable construction
- BSR Strategic Actions for policy makers
- 50 tools for environmental assessment, financial support and evaluation, business planning, featured by tools handbook
- the SPIN Industry Workshops for experts, enterprises and researchers
- network of National Contact Points (NCP)

Cool Bricks
CO₂OL Bricks - Climate Change, Cultural Heritage and Energy Efficient Monuments



PROJECT PARTNER

Partners: City of Hamburg, Ministry of Culture, Department of Heritage Preservation (DE)

Project contribution:

- innovative technical solutions to save energy in architecturally, culturally or historically valuable buildings
- curriculum for education of the general public, craftsmen, architects, engineers and planners to improve their knowledge about energy saving in architecturally, culturally or historically valuable buildings
- declaration of a transnational common position on the adaptation of national laws, EU-Directives, norms, standards and funding schemes to the requirements of climate protection and preservation of architecturally, culturally or historically valuable buildings