



## **INTERREG SOUTH BALTIC PROGRAMME**

### **Project seed money – Friendly House**

#### **Friendly house - cross border network of energy-efficient demonstration buildings.**

**Partnership:** (3 project partners)

**LP:** Technical University of Koszalin (Poland)

**PP2:** Science for Environment Foundation (Poland)

**PP3:** Wismar University (Germany)

**Priority axis 2** - Exploiting the environmental and cultural potential of the South Baltic area for the blue and green growth

**Specific objective** - 2.2 - Increased use of green technologies in order to decrease the pollution discharges in the South Baltic area

**Future project objective:** Strengthen actions aiming at the development of socially and environmentally friendly passive buildings in the common good area,

**Future project results:** Cross-border network of energy efficient, sustainable demonstration buildings

#### **Description for the initial situation**

Currently, residential and public building in Europe are the largest consumer of energy and that accounts for over 40% of its consumption. At the same time, the Council of Europe pointed out that the rational use of energy required for building usage directly translates into the effective reduction of CO2 emission – that's why the EP adopted the amendments to Energy Performance of Buildings Directive in May 2010. It was declared that there is necessity for building only very low energy objects powered from renewable energy sources. Unfortunately, potential investors only associate the characteristics of raw materials, material parameters and construction products names with the widely understood environmental and social impact. Today, investor who wants to build ecologically wander in excess of often contradictory data of commercial and marketing information, which often are not friendly for user and nature. Unfortunately, the present activities of central funds and regional operational programs are directed mainly to the improvement of existing buildings (thermo-modernization). There is a lack of funds aimed at building new ,energy-efficient and sustainable demonstration objects. After analysing all available national aid we found that there is a huge need for cross-border cooperation, which will result in creating cross border network of energy-efficient and sustainable buildings. This network will be an innovative solution that allows to test the pioneering equipment and technologies, and a reliable estimate their impact on the environment. Implementation of this partnership project will enable launching the network processes to create a network of partners managing the friendly house. So: the network of open volunteer houses - having a positive impact on the local environment (social and natural).At the same time friendly house basing on local resources and recycled materials will promote good practices in passive building that will directly contribute to local policies.

**Potential future partnership** - project is currently based on cooperation between two countries in the South Baltic region, however, involving seed money, we would like to extend the partnership for a minimum of three countries. We are especially looking for partners from Sweden and Denmark

**Future project:** Future project will be based on three stages, to which access basis will be developed during the preparatory phase co-financed by seed money facility. During first stage the design and building documents taking into account selected technological innovation and experience of international partners will be prepared. Second stage is to create the cross - border network of demonstration buildings. Building of these objects will be carried out in the form of practical workshops, (shooting / filming) and documented on the component works. The collected data will be made available online allowing current analysis by the academic people, architects, planners, contractors and other stakeholders. This closing stage includes the release of a handbook for the modern green building with the provision of projects and descriptions used in building technology demonstration / photographs / films etc. Project meets the main challenge in project area: High potential of the South Baltic area to develop green technology sectors based on vast natural resources, incl. renewables. Planned output indicators: cross-border net of pilot investments co-financed by the Programme in the uptake of green technologies, min.2 delivered green technology services, products, standards and tools, min. 2 conceptual documents prepared by the project, 1 project communication instrument, at least 3 project workshops/seminars/conferences/exhibitions. Planned project result indicators: min. 2 improved methods/instruments aimed at decrease of the pollution discharges, 1 co-operation networks based on formal agreements created or extended in the project lifetime, min. 2 non-governmental organisations (e.g. ecological) taking part in the cross-border networks based on formal agreements, min. 2 technical solutions applied in practice in the project lifetime and at least 2 pilot investments carried out in the project lifetime

**Potential Future actions:** In each country the workshops will be organised and the guide on how to prepare green heat exchanger, how to carry out the insulation of buildings using a variety of materials, how to make clay plastering, how to build a rocket stove, etc. will be published. The project will put emphasis on cross-border cooperation on the use of different ideas to choose the most sustainable solution

This idea is not a follow-up of any international/national project, but it follow the current trends in dealing with environemt pollution and issues connected with green technologies. It can be said, that finished project "Ecovillages for sustainable rural development" implemented within Baltic Sea Region Programme 2007 - 2013 was in some way connected with this proposal. Nevertheless, proposal is to give ready solutions, the cross border network of demonstration buildings will be the best place to try how the they work, what is their impact on the environment, what else could be improved.

**Contact persons:**

**Wieslaw Głodkowska - Technical University of Koszalin (Poland)**

dziekanat@wbiis.tu.koszalin.pl

(+48) 94-34-78-505

ul. Śniadeckich 2, 75-453 Koszalin

**Piotr Jaśkiewicz - For Enivornment Science Foundation (Poland)**

Piotr.jaskiewicz@ndsfound.org

(+48) 94 34-78-205

ul. Raławicka 15-17, 75-620 Koszalin

**Project Partner - Association of Polish Communes of Euroregion Baltic (Poland)**

ul. Stary Rynek 25 82-300 Elbląg

Tel: +48 55 611 20 00

Fax: +48 55 611 20 01

Email: sekel@eurobalt.org.pl

www.eurobalt.org.pl