



Bioenergy Promotion

Newsletter 2/2011  
The Baltic Sea Region Bioenergy  
Promotion project

The Baltic Sea Region Bioenergy Promotion project 2009 - 2012. Promotion for sustainably produced bioenergy as a growing business in the Baltic Sea Region.

- **"Biomass-Waste-Energy 2011" seminar**  
Seminar attracted more than 110 participants – synergy effect of Bioenergy Promotion and REGNA projects at IFFM PAS in Gdańsk.  
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- **Bioenergy promotion in Leisi parish, Saaremaa**  
The Bioenergy Promotion project aims at more extensive, at the same time competitive and sustainable use of bioenergy. Every big change will start from small steps. And that is what is tried to do in Saaremaa, Leisi parish- to promote bioenergy use in local level as a cooperation of local municipality, private forest owners and entrepreneurs.  
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- **Regional Policy Showcases – City of Växjö, Sweden**  
In each of the newsletters in 2011 one of the regional policy showcases (good practices) which were elaborated in task 3.4 Good practice policy showcases will be presented - to demonstrate how bioenergy may be promoted on the sub-regional level primarily taking into account sustainability criteria for bioenergy production and use.  
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- **Young citizens' knowledge, perceptions and attitudes toward bioenergy: findings from North Karelia, Finland and implications for energy and educational policies**  
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## **"Biomass-Waste-Energy 2011" seminar**

*Seminar attracted more than 110 participants – synergy effect of Bioenergy Promotion and REGNA projects at IFFM PAS<sup>1</sup> in Gdańsk.*

On the 10th of March 2011, the Baltic Eco-Energy Cluster led by IFFM PAS, realizing project Bioenergy Promotion in co-operation with the Foundation of Energy Saving in Gdansk, realizing project REGNA<sup>2-3</sup> Nature-Friendly Development of Gminas, co-organized a "Biomass-Waste-Energy 2011" seminar. The event was focused on possibilities of energetic use of biomass and alternative means of utilization and management of biodegradable waste in Pomeranian Region.



Professor Adam Cenian giving presentation about the Bioenergy Promotion Project and opening the second session during the event

Seminar was targeted at decision-makers responsible for waste management (including biodegradable waste) in Gminas of the Pomorskie Region as well as companies that provide services in the field of solid waste management. Seminar attracted also representatives of academia as well as regional business entities. More than 100 persons participated in this event. The topic is currently of special interest, and thus attracted many participants, not only due to the aspect of bioenergy potential but also due to the EU law that obliges local self-governments to decrease significantly the amount of biodegradable waste that is landfilled.

This seminar was a follow-up of the seminar entitled "Waste Biomass to Energy. Technologies for waste utilization and conversion", which was organized in March 2010 under the activities of the Regional BEEC<sup>4</sup> Contact Point on Bioenergy. As a result of this two seminars, a wide spectrum of currently available technologies of biodegradable waste utilization for energy purposes was presented towards decision makers in waste management sector in the Pomorskie region as well as other stakeholders (producers of industrial and agricultural waste, staff of environmental departments in Gminas from the Pomorskie region).

A number of contacts were stimulated between decision-makers in Gminas and providers of technology and solutions. This is expected to bring real life effects/investments in a long run. Facilitation of the discussion itself, involving all the stakeholders of the waste management arena in the region, being a primary goal, was achieved by the event organizers.

Similarly to previous events, we have again a pleasure to inform that this seminar was organized under the honorary patronage of the Marshal of Pomorskie Voivodeship, Mr Mieczysław Struk.

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Picture: Ewa Domke

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<sup>1</sup> Institute of Fluid-Flow machinery Polish Academy of Sciences, <http://www.imp.gda.pl>

<sup>2</sup> <http://www.regna.pl/>

<sup>3</sup> co-financed by the Norwegian and EEA Financial Mechanism in Poland

<sup>4</sup> Balic Eco-Energy Cluster



## Bioenergy promotion in Leisi parish, Saaremaa

*The Bioenergy Promotion project aims at more extensive, at the same time competitive and sustainable use of bioenergy. Every big change will start from small steps. And that is what is tried to do in Saaremaa, Leisi parish- to promote bioenergy use in local level as a cooperation of local municipality, private forest owners and entrepreneurs.*



Leisi municipality is situated in the northern part of Saaremaa covering 348 km<sup>2</sup> and having a population of 2137 persons. In the municipality there are 45 villages with inhabitants, but four larger settlements (Leisi, Pärsuma, Karja and Metsküla) are centers of the municipality.

Study of woody biomass resources in Saare county and in Leisi parish indicated that the municipality of Leisi has sufficient forest resource to meet all the residential heat demand, but there is a need to reconstruct the boiler house and install a modern wood chip boiler. With the help of Bioenergy Promotion project Leisi parish presented an application with all necessary additions to the national Environmental Investment Centre (EIC, renewable energy program) to apply finances for the renovation of Leisi parish boiler house and usage of woodchips based energy.

It clearly indicated the importance and value of such project as Bioenergy promotion and programs from where to apply financial support. Smaller local municipalities quite often do not have relevant expertise and knowledge and also financial resources for such activities. If succeeded different stakeholders benefit: local forest owners, local entrepreneurs, local authorities.

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Picture: Imre Kari



## Regional Policy Showcases – City of Växjö, Sweden

*In each of the newsletters in 2011 one of the regional policy showcases (good practices) which were elaborated in task 3.4 Good practice policy showcases will be presented - to demonstrate how bioenergy may be promoted on the sub-regional level primarily taking into account sustainability criteria (Greenhouse gas (GHG) emissions, Energy efficiency, Land use, Local prosperity, Social aspects) for bioenergy production and use.*

### Taking into Consideration Energy Efficiency - Learn from: City of Växjö, Sweden

The City of Växjö is situated in the southern part of Sweden. One very important aspect why Växjö was chosen as a showcase for Bioenergy Promotion was the establishment of the Fossil Fuel Free programme in 1996 by the authorities of the city, meaning that Växjö will no longer contribute to the greenhouse effect.



City of Växjö, Sweden

The main strategies of the Fossil Fuel Free program are increased share of renewable energy sources (RES) and reduced total energy consumption. In the environmental program (revised 2010) the following targets refer to energy efficiency:

- Reduction of the electricity use per capita by 20% (1993 – 2015),
- Reduction of the energy supply per capita 15 % (2008 – 2015),
- Reduction of the energy use in the municipally owned localities and dwellings by 17 % (2003 – 2015).

Practical implementation has for example been that the buildings built by the municipal housing companies become more and more energy efficient year after year, due to the development of goals on energy use since 2005. Passive houses have also been built. When the municipality sells land to companies who want to exploit the land to build houses, there are restrictions in the selling contract saying that new buildings must use less than a certain amount of



Eco-buildings in Biskopshagen, the Garden Village of Växjö

energy per square meter and year.

Positive effects can already be measured: compared to 2002, when the energy use per capita was highest in the period 1993-2009, the energy use per capita has been reduced by 11 % in 2010.

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Pictures:

[http://commons.wikimedia.org/wiki/File:V%C3%A4xjö%C3%B6\\_in\\_southern\\_Sweden.png?uselang=kw](http://commons.wikimedia.org/wiki/File:V%C3%A4xjö%C3%B6_in_southern_Sweden.png?uselang=kw), modified

<http://www.concerto-sesac.eu/spip.php?rubrique62>



## Young citizens' knowledge, perceptions and attitudes toward bioenergy: findings from North Karelia, Finland and implications for energy and educational policies

### Abstract

Bioenergy is the largest global contributor of renewable energy (RE) and represents about 10% of global annual energy consumption. 'Modern' bioenergy is generally considered an environmentally friendly source of energy with multiple benefits over fossil fuels and other REs. However, studies concerning young citizens' perspectives of bioenergy are lacking although it is believed that young generations' acceptance is important for bioenergy to have a sustainable future in our society. A study was conducted among ninth grade Finnish students (N=495, Mean age=15 years) in North Karelia in eastern Finland to investigate their knowledge, perceptions and attitudes toward bioenergy. Finland is among the leading countries in the world in producing bioenergy from forests and wood-based energy provides 70% of all heat and electricity generated in North Karelia. Despite this, only a minority among the students demonstrated a 'high' level of bioenergy knowledge and the majority showed a relatively lower preference to bioenergy compared to other REs. The students appeared to be very 'critical' and 'ambivalent' in their perceptions of bioenergy and at the same time they demonstrated negative attitudes toward using bioenergy in their daily life. However, they were quite positive about learning bioenergy from various sources. It also appeared that information sources such as school, home, and media had statistically significant effects on the Finnish students' knowledge and perceptions of bioenergy.

The implications of these findings are: (a) more efforts are necessary from the educators and energy policy makers to create awareness of bioenergy among young students; (b) bioenergy policies to gain broader societal acceptance should cooperate with school, home, and media to engage young students in bioenergy related discussions and debates; and (c) it is also of added value to establish collaboration between energy and educational policies to integrate modern concepts of REs in school curriculum.

Key words: Young citizens; Bioenergy; Knowledge; Perceptions; Attitudes; Education; Policy

N.B. Results of the survey were published in the following journals:

**Pradipta Halder**, Janne Pietarinen, Sari Havu-Nuutinen and Paavo Pelkonen (2010). Young citizens' knowledge and perceptions of bioenergy and future policy implications. *Energy Policy* 38 (6): 3058–3066.

**Pradipta Halder**, Sari Havu-Nuutinen, Janne Pietarinen, and Paavo Pelkonen (2011). Bio-energy and youth: Analyzing the role of school, home, and media from the future policy perspectives. *Applied Energy* 88 (4): 1233–1240.

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## Invitation: Green Ventures 2011

### **International Cooperation Forum for Environmental and Energy Technologies in Potsdam, Germany, from June 15-17, 2011**

The international partnership forum for energy and environmental technologies "Green Ventures" will be held from June 15th - June 17th for the fourteenth time in row in Potsdam, in the direct vicinity of Germany's capital Berlin. In the last years, about 3,700 firms representing 91 nations participated in the event in Potsdam. Several times in the past, the "Green Ventures" also took place outside of Germany, i.e. in Shanghai/China and at Italy's biggest environmental fair.

This year's partnership forum, emphasising soil, water, air, energy, construction, recycling, and renewable materials will feature business-to-business talks, presentations and excursions. Firms, researchers and institutions from China, Scandinavia, Italy, Poland, CIS, the Baltic Countries, Great Britain, Tunisia, the Czech Republic, Germany and further countries are expected to participate. Brazil will be the partner country in 2011.

Participants select their desired partners for the business-to-business talks by a catalogue of participant profiles before the event. The event organiser, the Potsdam Chamber of Commerce and Industry, provides each participant with an individual appointment plan based on these selections. This makes the "Green Ventures" an efficient forum for establishing business contacts to firms, institutions and local and national authorities world-wide.

#### **For more information and registration:**

[www.green-ventures.com](http://www.green-ventures.com)

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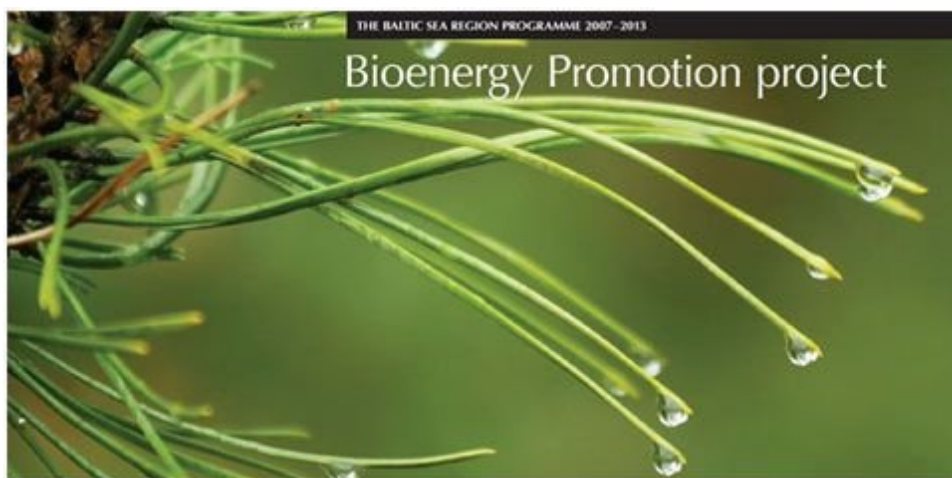
Potsdam Chamber of Commerce and Industry





## Project midterm brochure

Project midterm brochure with an overview to general objectives and achievements of the project has been published and it can be downloaded [here](#).



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## Event information

Bioenergy Promotion up-coming project meetings and conferences

- WP4 workshop for WP4 partners, June 13th – 16th, 2011, Potsdam, Germany
- [Green Ventures 2011](#), June 15th – 17th, 2011, Potsdam, Germany
- WP3 and WP 5 workshop, September, 2011, Gdansk, Poland
- Bioenergy Promotion 3rd Project Conference, November 2011, Rostock, Germany
- WP3 and WP 5 workshop connected to the international POLEKO fair, November, Poznan, Poland