



## INNOVATION NEWSLETTER

++++ April 2011 +++++

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### Technical Innovation

#### Decentral sewage system

A decentral sewage system has been established in order to provide solutions in areas where centralized sewage plants are too expensive or not even possible like in rural areas in many countries. The decentral system is based on the Subterra technology. Micro-organisms settled in a sand filter clean the waste water. To improve the cleaning efficiency additional substrates like shredded willow can be added. A 3-5m<sup>2</sup> area is necessary for each person to be connected with a minimum of 4 persons. The Subterra technology is characterized by a good purification efficiency, stable processed, low costs, and low maintenance. An example for the successful building of the subterra system was the building of a 1.000m<sup>2</sup> Subterra system on a small island in Thailand in 2003 by a Public Private Partnership Project.

The Chamber of Crafts in Hamburg, the Energy Efficiency Institute (Thailand) and the Chiang Mai Chamber of Commerce developed a Subterra City solution adjusted the Subterra technology to areas with stronger population density and limited space.

#### Energy Saving Air-Conditioning

The traditional air-cooling in many countries is still the circulate-air-conditioning. Beside a high noise level from the ventilators and cold airflow this cooling system is very energy-consuming and costly. To overcome these disadvantages a new cooling system has been developed. This energy saving air conditioning technology is based on wall inner surface cooling. A demonstration house was built by the cooperation of the Chamber of Crafts in Hamburg and the Energy Efficiency Institute (Thailand) in Chumphon Cabana. The demonstration house as well as further instalments in other houses showed that not only the energy consumption decreased by more than 30% but also the cosiness felt by human beings in these rooms considerably increased.

#### Solar Energy for the Heating up of Utility Water

The Energy Efficiency Institute in Thailand has developed a solar collector in order to heat up utility water. The technical design is simple and can be cheaply installed achieving 42-45 degree Celsius in 500 l water storage tanks. Conventionally, electric

boilers with a capacity of around 2-3 kW were used. Despite the higher initial costs for the collector system the current costs that need to be paid for the boiler the collector system has paid itself off after only 4 years.

#### Drying agricultural products

Drying fruits and other agricultural products requires much energy or fuel for conventional heating and are, thus, very costly. Furthermore, using heating imply quality problems, lost aroma, by foreign substances polluted or spoiled products. The Chamber of Crafts in Hamburg, the Energy Efficiency Institute (Thailand) and the Chiang Mai Chamber of Commerce have developed an energy saving and gentle quality drying process in a joint venture project in cooperation with the Zentrum für Energie-, Wasser- und Umwelttechnik. Different agricultural products are dried by 30 degree Celsius. Due to the low temperature one can achieve increased quality of the products as well as reduced energy costs at the same time.

#### Thermal Insulation

In many houses heat insulation of roofs, outside walls, doors, and windows are not integrated into the architectural style, which results in a constant heat flow through the walls. In areas with high temperatures a thermal insulation can help to reduce the temperatures flowing from outside inside the building. An insulating layer of 4 cm polystyrene on the internal wall can reduce the heat flow from outside inwards by 80%.

External wall insulations are even easier to implement than inner wall insulations since no optical or constructional alteration of the actual living space has to be considered. Dressed lumbers build the framework by being fixed on the outside walls. Then different layers follow like polystyrene pads, construction stele mats, rendering, and whitewashing of the walls. The roof can be insulated inside with a 5 cm thick layer of sprayable polyurethane foam (PU). These operations are costless alternatives and provide excellent results. In comparison to heat flows without insulation 60-70% of the heat can be insulated.



Further information: [www.rothermann-umwelt.de](http://www.rothermann-umwelt.de)

Chamber of Crafts in Hamburg:

<http://www.hwk-hamburg.de/hamburger-handwerk/hamburg-chamber-of-crafts.html>

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## PROJECTS ON INNOVATION

### Baltic Supply

The Baltic Sea Region programme "Baltic Supply", closely connected to the "North Sea Supply Project" aims at SEM promotion by creating access to international supply markets, innovation promotion in order to gain sustainable competitiveness, and export promotion with innovative tools and services. The project focuses on the following sectors: maritime industry, food and health industry, and energy and public infrastructure. The project lasts until December 2012 and elaborates several services for SMEs such as company register, tendering information and support in financing and funding. In addition, trainings for SMEs will be launch in autumn this year. The one-day trainings aims at enabling SMEs to firm transnational cooperation with business partners. Further details about the trainings and venues will be published in the next newsletters.

Information about Baltic Supply:

<http://www.balticsupply.eu/>

### Final Workshop - ERIP Project

On 11 February in Oslo also the final workshop concerning the project "European Regions for In



Photo: Conference building in Oslo

novative Productivity (ERIP)" took place. This project, which was conducted in the North Sea Region, runs very successfully. As regards lean management, increasing innovations with significant cost reductions could be achieved for small and medium-sized enterprises. The Hanseatic Parliament is a Project Partner and has transferred its most important results to the Baltic Sea Region.

Information about ERIP:

<http://www.erip.eu.com/>

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## EU Funding Programmes

### Seventh Framework Programme (FP7)

This summer new calls for projects will be opened within the seventh Framework Programme (FP 7) of the European Union. Under the sub-programme "capacities" projects on research activities for SMEs and for SME associations will be funded. This sub-programme aims at enhancing the research and innovation capacities of European SMEs, which have only little research capacities. Official information about the programme will be published late June or July this year. The deadline for the project application will be probably by the end of this year or beginning of next year.

Further information on the official webpage:

[http://cordis.europa.eu/fp7/home\\_en.html](http://cordis.europa.eu/fp7/home_en.html)

### Intelligent Energy Europe (IEE)

The current call of the EU programme "Intelligent Energy Europe (IEE)" will be still open until May 12, 2011. The programme aims at fostering energy efficiency and the regional use of energy sources, supporting new and renewable energy sources and promoting energy diversification, and supporting energy efficiency and the use of new and renewable energy sources in transport. The indicative budget amounts to 67 Mio Euro. Up to 75% of the project costs will be granted by the EU. For Further information:

<http://ec.europa.eu/energy/intelligent/>



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## New Projects

The following projects have been applied for by the Hanseatic Parliament and the Baltic Sea Academy or their partners. If you are interested in one of these projects please do not hesitate to contact us under:

Hanse Parliament  
Blankeneser Landstrasse 7  
22587 Hamburg, Germany  
Tel: + 49 40 822 447 18  
Fax: + 49 40 822 447 22

[info@hanse-parlament.eu](mailto:info@hanse-parlament.eu)  
[www.hanse-parlament.eu](http://www.hanse-parlament.eu)

## Career Navigator

During the meeting in Oslo a decision was made to apply for a new project concerning the application for financing of the Career Navigator in the countries of the Baltic Sea Region. This electronic information system based on competences can contribute to providing urgently needed trainees to small and medium-sized enterprises in the Baltic Sea Region. A project proposal from the Baltic



Photo: [www.berufsnavigator.de](http://www.berufsnavigator.de)

Sea Academy and six project partners was submitted timely on 28 February 2011 to the National Agency of Germany within the framework of the Lifelong Learning Programme.

## Corporate Social Responsibility

President Saar from the Łódź Chamber of Crafts suggested at the General Meeting of the Hanseatic Parliament in May 2009 in Minsk that the Hanseatic Parliament should address the major task of Corporate Social Responsibility in crafts and SMEs. Two new project proposals emerged from this suggestion.

The Hanseatic Parliament along with 6 Partners submitted a project proposal entitled "Further vocational training Corporate Social Responsibility for SMEs" to the National Agency of Germany within the framework of the Lifelong Learning Programme.

The Łódź Chamber of Crafts, together with the Hanseatic Parliament and 5 other Partners submitted a project proposal entitled "Social responsibility within the framework of SME flexicurity" to the National Agency of Poland within the framework of the Lifelong Learning Programme.

## Energy Efficiency in Russia

The "Delegation of the European Union to Russia" has launched a new program to which an information meeting took place in St. Petersburg on 16 February 2011. The Hanseatic Parliament together with its Russian Members will develop a project proposal to the priority entitled "Pilot actions to improve energy efficiency in buildings, enterprises or public utilities." The decision-making procedure in this programme consists of two stages: The initial application needs to be submitted by 10 March 2011. If it is rated positively, a detailed proposal needs to be submitted in summer 2011.

## QUICK: Innovative SMEs by Gender and Age

In the last call for the INTERREG Baltic Sea Programme the project "Innovative SMEs by Gender and Age (QUICK-IGA)" has been applied for. The project is based on the results of the QUICK-project and aims at improving the innovation capacities of SMEs by increasing the number of female and elder workers in the enterprises.

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## Future Events

### 05.-06.05.2011 in Riga "Green Growth in the Baltic Sea Region"

The conference will be organised by the Nordic Council of Ministers Secretariat in cooperation with the NCM Office's in Riga, together with the European Commission, Interact and Baltic Development Forum. It aims at identifying opportunities and policy implications for realizing synergies between green growth initiatives, programmes and projects in the Baltic Sea Region.

Further information and registration:

[www.norden.lv/en/news/news2/504](http://www.norden.lv/en/news/news2/504)



### **11.-13.05.2011 in Hamburg: HANSEATIC CONFERENCE 2011**

In cooperation with the Hamburg Ministry for Urban Development and Environment the Hanseatic Parliament and the Baltic Sea Academy are organising the sixth Hanseatic Conference. This year's topic is **"Energy efficiency and climate protection around the Mare Balticum"**.

The conference is aimed at small and medium-sized enterprises, chambers and associations of small and medium enterprises, colleges and universities as well as politicians and representatives of public authorities from all Baltic countries. The conference has the following concerns:

Further information:

<http://www.hanse-parlament.eu/UNIQ130250982520044/doc504A.html>

### **18.05.2011 in Bremen (Germany): B2B matchmaking at waste to energy+recycling 2011**

waste to energy+recycling 2011 is the International Exhibition and Conference for Energy and Materials Recovery from Waste and Biomass [www.wte-expo.com](http://www.wte-expo.com). Over 200 exhibitors and 2.000 professional visitors are expected to come. International delegates amount to over 30 percent. Partner nation 2011 is Poland.

The exhibition and conference focus on:

- Incineration
- Biogas production
- Secondary raw materials recovery
- Urban Mining
- Landfill management
- Utilization of landfill and sewage gas

waste to energy+recycling is unique for its combination of the latest technology and forward-looking trends in the exhibition and lecture programme.

The b2b matchmaking at the waste to energy+recycling 2011 is organized by the Enterprise Europe Network. Partner organisations and companies from all Baltic and North Sea countries are invited to join this event.

Your advantage:

- A comprehensive presentation of your enterprise is online before the fair and conference
- Potential clients may book meetings with you before the fair
- Data are used for the online matchmaking catalogue.

For registration and to get more information about the b2b matchmaking please click on the following link <http://www.b2match.eu/wastetoenergy2011> In case of any question please feel free to contact [een@wfb-bremen.de](mailto:een@wfb-bremen.de)

### **23.-24.05.2011 in Herring (Denmark): Windpower initiative for business2business matchmaking**

Theme in this event is the international supply chain of offshore wind power. This journey will be going to, amongst others, the biggest European offshore wind farms (Horns Rev) and will offer you a company visit to Siemens.

The organising team of NNOW would like to recommend this meeting because of the serious aim at matchmaking, also with Danish companies which are located outside Jutland. If you wish to visit the event, you are requested to send the enclosed 'Company Profile' form to [engel@nom.nl](mailto:engel@nom.nl). The contribution for registration amounts to 150 Euro.

Further information:

Yellie Alkema ([alkema@syark.nl](mailto:alkema@syark.nl)) or

Allard van Dijk ([avandijk@nom.nl](mailto:avandijk@nom.nl)).

### **30.-31.05.2011 in Hamburg: BSSSC Baltex Conference "Climate Change – Case Studies from the Baltic Sea Region"**

The conference is intended to provide practitioners in the field of local and regional administration and decision making with an opportunity to

- access first hand information on regional climate change in the Baltic Sea region and its impacts
- present case studies on climate change adaptation plans and activities in various regions and municipalities in the Baltic Sea region
- build and foster a network of practitioners facing similar problems regarding adaptation to climate change in their regions

Further information and registration: [www.baltex-research.eu/bsssc](http://www.baltex-research.eu/bsssc)



### **06.-08.06.2011 in Brest: Seminar on "Energy-efficient Construction and Use of Renewable Energies."**

Experienced experts from Germany and Belarus provide information, knowledge, techniques and best practice examples include the following topics:

- Availability of fuels, forecasts and energy saving measures
- insulation standards and various insulating materials
- Determination of final energy demand by means of a model house
- Improved constructions in the planning and Heating Engineering
- forms of renewable energy sources and their technical implementation
- Zero - Energy House and presentation of various projects

The participation in the seminar, including beverages, food, etc. of all materials is free. Foreign language skills are not necessary (simultaneous translations).

Further information: [www.cci.by](http://www.cci.by) and [www.hanse-parlament.eu](http://www.hanse-parlament.eu)

### **21.-22.10.2011 in Panevėžys: Business-Forum on Construction Technology**

The business forum aims at directors, leaders and employees of small and medium- sized enterprises in order to

- initiate international business contacts between companies and
- provide information about new technologies.

SMEs from all over the Baltic Sea Region are invited to this event. Language skills are not necessary (simultaneous translations). The participation is free of charge. Participants must carry travel and accommodation costs.

Further information and registration: [www.hanse-parlament.eu](http://www.hanse-parlament.eu)

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