



REBECEE



Renewable Energy and Building Exhibitions in Cities of the Enlarged Europe

NEWSLETTER

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Dear Sir, dear Madam,

with this first newsletter we would like to introduce ourselves to the public. **REBECEE**, international cooperation project with eight participating states - members of EU, starts. This project has got a successful forerunner, European Solar Building Exhibition, which took place in 2003-2006.

We would like to regularly inform you about the progress of this project and you are welcome to participate and to become partner of **REBECEE**.

You can visit our website at www.rebecee.eu or contact us directly.

We shall be glad to hear from you and wish you to enjoy reading this first newsletter and to get interested in cooperation with us.

Respectfully yours



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REBECEE aims to promote renewable energy heating/cooling applications and energy efficiency solutions for buildings. On the occasion of major investment projects in Kiel (D), Ljubljana (SLO), Alingsås/Gotenburg (S), Tallinn (EST), Graz (A), where more than 50 types of new built and redeveloped energy houses will be implemented, the consortium will work together to ensure that more than 300 units with integrated RES H/C components will be installed there, which then will be presented in the frame of 5 Renewable Energy Building Exhibitions. These houses are part of new residential and revitalized areas without CO₂-emission in the participating cities. The supply of the sites with 100 % RES is aimed.

After the exhibitions, the houses will be occupied by the purchasers. In total, ten-thousands of visitors are expected at the building exhibitions: prospective home buyers, architects, engineers, promoters, investors, politicians will be motivated by the extensive advertising campaign, PR and the wide-ranging events to view the exhibition. So, **REBECEE** will provide about five cases of

"good practice" which can be used in the future as examples to raise the confidence of potential decision-makers, experts, promoters, investors and end users.

Additionally, three other cities - Sofia (BG), Riga (LV), Vilnius (LT) - take part as the observers in the project and will be enabled to implement similar RES H/C projects in their regions.

This project will be based on the know-how transfer from previous similar exhibitions and training campaigns of European Solar Building Exhibitions (2002-2005). It will also promote the information on the markets for low-energy housing and RES H/C applications in Europe and facilitate development of new businesses in the participating countries. The emphasis of a market orientation approach in the overall concepts of the exhibition should considerably improve the likelihood of sales of the passive-solar houses.

In more than 200 practical orientated workshops for city planners, architects, engineers and craftsmen will be held to inform them about RE, sustainable development and economical possibilities in the forward-look-

ing business.

REBECEE implements RE technologies and system solutions regarding their compatibility with national and international standards. The intention of all parties involved should be the further development on this basis and to facilitate the practical implementation of new technologies and systems.

The project will accelerate the state of the art. The results from technical implementation and socio-economic analyses of the **REBECEE** project will support future development and implementation of local energy policy by providing well documented field test experiences.

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Intelligent Energy Europe

This project is supported by Intelligent Energy - Europe (IEE), implemented by the Intelligent Energy Executive Agency (IEEA).

Expected Results

1. 5 RE Building Exhibitions with 50 types of newly built and redeveloped houses and 300 units with integrated RE-components.
2. Reduction of energy consumption of refurbished buildings down to 30 - 40 % of national standards.
3. Energy consumption of new buildings down to 40 kWh/m²a (aiming 20 kWh/m²a).
4. Ten-thousands of customers, experts, multipliers, investors, politicians are motivated by P.R. campaigns to visit the exhibitions, 200 workshops and events about RE, sustainable development and economical possibilities in the forward-looking business.
5. Training of politicians, municipal officers, architects.
6. Sensitisation of citizens for energy optimized rehabilitation and building measures.
7. Public Private Partnership (PPP) reduces dependence on subsidies.
8. Acceleration of the market penetration of RES technologies.
9. Transferability of the model projects to other regions and generation of 10 comparable follow-up-projects.
10. Tools for RE planning and implementation concepts.

European Solar Building Exhibitions (EUSolEx)

The "European Solar Building Exhibition" (EUSolEx) engaged 12 European cities in the construction of low demand, renewably powered houses. Participating cities included Hamburg, Berlin, Gera/Jena/Oelsnitz (Germany), Rome, Scandicci, Asti (Italy) Northampton, Leicester (UK), Weiz (Austria) and Castilblanco de Los Arroyos (Spain).

All buildings entered in EUSolEx met criteria of having no or very low energy demand while sourcing up to 100% of their space and water heating energy from renewable sources. Different entries integrated these criteria by different means according to local conditions and town planning contexts.

EUSolEx began in May/June of 2005 with the presentation of 21 projects in Hamburg. 30% of them are passive houses while 70% meet or exceed a standard of KfW-40. Berlin's entry of 14 partially passive houses with renewable energy systems were presented concurrently with those in Hamburg.

In September and December of 2005 5 of 7 passive homes planned in Jena were put into use. Techniques and technologies employed in these homes include heat exchanger based heating, solar thermal, four photovoltaic units and a pilot project natural gas fuel cell system. A passive energy Kindergarten was concurrently presented in Oelsnitz and Jena is planning seven more passive single houses.

In November 2005 two solar thermal building modernisations (16 units) as well as a biomass power plant were presented in Asti while Weiz exhibited 9 passive houses and is planning construction of a further 11 such projects. Meanwhile, Rome exhibited a 31 unit project in conjunction with BASF AG in December of 2005. Additional exhibitions took place in Scandicci and Leicester/Northampton in January of 2006 with UK projects putting a particular emphasis on the use of renewable energy systems.

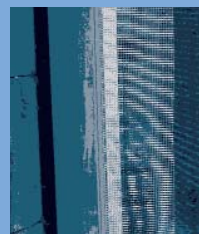
A summary of results of the European Solar Building Exhibition have been reported to the EU Commission at the end of May 2006.

The success of EUSolEx projects in Germany and Austria further reveals the importance of passive houses in the current real estate. Apart from the actual state project funding, these projects received no additional grants and were subject to open market competition. Their success demonstrates the existing and growing demand for low energy housing in these real estate markets.

EUSolEx was supported by the European Commission through the ALTENER-programme and patronised in Germany by the Ministry of Traffic, Transport and Construction. The general coordinator and main applicant of the EU project "European Solar Building Exhibition" was ZEBAU GmbH in Hamburg. Organisation and presentation of separate exhibitions was carried out at a regional level by various groups, including: W.E.I.Z., Roma Energia, Florence energy Agency, Leicester Energy Agency, the Senate of the State (Berlin) and ID GmbH (Jena). EUSolEx also benefited from the cooperation of partners like Sharp, Vattenfall Europe, Sto AG, BASF, the Club of Rome, and NABU.



Solar-Building Exhibition Hamburg 2005
photo: REBECCEE Team



Participants

Alingsås

Alingsås Municipality together with its municipal companies for housing and energy are working strategically with environmental aspects throughout the whole process of spatial planning. The REBECCE building exhibition in 2009 will show examples of innovative and energy efficient solutions in buildings and promote renewable energy. The building exhibition will focus on the **new residential area Stadsskogen** and the **refurbishment of the apartment houses at Brogården**.

In Stadsskogen, at least 100 dwellings, including one school, will be very well insulated and airtight, using the criterias for passive houses. At Brogården, 300 apartments from the 1970 will be renovated into low energy houses. The use of energy is expected to diminish with at the lowest half of what it is today. Solar heat will be used for hot water supply and all electrical appliances will meet high standards of energy efficiency.

Both Stadsskogen and Brogården are supplied with district heating produced from renewable energy.

Kiel

The Innovative Building Exhibition (InBA) Kiel 2008 features new and modernized building projects employing high energy efficiency standards and the use of renewable energy with the goal being a CO₂-neutral heat supply. Resulting cost benefit comparisons will demonstrate the immediate transferability of the methods and systems used in these buildings for future project. The exhibition buildings will demonstrate, how energy-saving and resources-conservation concepts can be planned and realized in urban areas.

The Innovative Building Exhibition Kiel 2008 will take place in September 2008 and different buildings will present: **New Build Living, Modernized Living, Public Buildings, Commercial Buildings and Special Uses**.

An open procedure is to attract investors, housing enterprises, builders, house manufacturers, architects and engineers to bring in suitable projects. The InBA Kiel 2008 provides the following advantages to the participants:

- Extended technical training in the form of seminars and workshops.
- Quality assurance of all participating projects
- Advertising and marketing opportunities for market partners of all industries.

for more information please visit www.inba-kiel.de.

Ljubljana

They started to prepare a detailed activity and project management plan for the project duration, as well as promotion leaflets. They also launched public call for execution of two rehabilitation projects that should be realised in summer 2007. The development of **15 low energy houses in Stozice** already started and houses will be finished from outside before the cluster meeting in Ljubljana in October 2007 when it'll be also possible in that time to visit already finalised **two rehabilitation apartment blocks with 80 flats**.

Finalisation of planning phase is in full development, the partners financed and/or carried out several pre feasibility studies and evaluations, especially for the biggest project: **183 apartments project at Polje II**. Results of studies showed good balance between costs and benefits with rational payback time and simultaneously giving higher living standard. Partners decided to accept proposals on low energy standard and hydro sensible ventilation in all 6 blocks at Polje II and they decided that one block will be equipped with thermal and photovoltaic solar system

They are glad to present new project at Pipanova road that can be added to the exhibition list. It is a **building with 22 minimum standard small flats for emergency needs**. It is planned that units will be designed in passive standard, wood structure on concrete support above parking places.

Graz, Tallinn, Riga, Sofia and Vilnius in next issue (April 2007).

Events

past

30. November + 1. December 2006
Kick-Off Meeting
Kiel/Germany

February / March 2007
Local Meetings
Alingsås/Sweden
Tallinn/Estonia
Kiel/Germany
Ljubljana/Slovenia
Graz/Austria
Vilnius/Lithuania
Riga/Latvia

upcoming

21. - 23. March 2007
Renew Europe
European Symposium
Hamburg/Germany

23. March 2007
Press Conference
Presentation of Projects and Partners
Kiel/Germany

27. - 31. March 2007
MEGRA International Fair
Gornja Radgona/Slovenia

13. + 14. April 2007
International Conference on Passive Houses
Bregenz/Austria

20. - 22. April 2007
Building Expo
Sustainable Living Theme
Alingsås/Sweden



KickOff-Meeting, Kiel/Germany 11/2006
photo: REBECCE Team



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http://ec.europa.eu/energy/intelligent/index_en.html

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