ZEBAU is partner in the European Campaign to raise awareness and change the landscape of energy.

www.rebecee.eu

REBECEE
Renewable Energy and Building Exhibitions in Cities of the Enlarged Europe

REPORT

supported by
Intelligent Energy
Europe

www.rebecee.eu
REBECEE is a practice related cooperation project co-financed by the European Commission with the object to support climate protection and to avoid emission of carbon dioxide.

REBECEE’s target is the Europe-wide promotion and dissemination of energy efficient building technologies and the use of renewable energies.

Aiming for best performance on the European level, REBECEE has become one of the most sustainable projects of its kind that addresses national markets in Europe in the timeframe of 2006-2009 and aspires know-how transfer among participating countries.

REBECEE connects politics and administration, science and research, planners and builders, children and grown-ups, laymen and professions.

REBECEE achieves broad effect for more energy efficiency and renewable energies and stimulates new markets all over Europe.

**content**

- introduction .............................................. 4
- participants and contacts ............................... 6
- realized projects ........................................... 7
- exhibition Kiel ............................................. 8
- exhibition Alingsås ....................................... 10
- exhibition Tallinn ......................................... 12
- exhibition Ljubljana ...................................... 14
- exhibition EFL ............................................. 16
- observer cities ............................................ 18
- public relation ............................................. 20
- websites ..................................................... 21
- know-how transfer ....................................... 22
- partnerships .............................................. 23
- market insight ............................................ 24
- market insight ............................................ 26
REBECEE implements renewable energy technologies and system solutions in consideration of their compatibility with national and international standards. The intention of all REBECEE partners is further development and facilitation of implementation of these new technologies and systems.

It included several major investment projects in Kiel (D), Ljubljana (SL), Alingsås (S), Tallinn (EE) and in partnership with EFL in The Hague / Amsterdam (NL), where about 50 types of new built and redeveloped low energy houses are implemented.

The consortium worked together to ensure that more than 1000 housing and business units with integrated RES H/C components are installed and presented at five Renewable Energy Building Exhibitions. These houses with a minimized CO₂ emission are part of new and revitalized areas, where energy supply models based on 100 % RES are aspired.

The show houses and the exhibitions in the five cities were visited by more than 100000 visitors. All houses have been built at market-oriented cost. At the end of the exhibition they have been let and sold respectively.

Thousands of prospective home buyers, architects, engineers, promoters, investors and politicians were motivated to visit the exhibitions by extensive advertising campaigns, PR and supraregional events.

So, REBECEE provided five cases of best practice projects, which can be used as examples to convince potential decision-makers, experts, promoters, investors and consumers in using energy efficiency solutions for buildings.

Additionally, Sofia (BG), Riga (LV) and Vilnius (LT) took part in REBECEE as observers and they have been enabled to implement similar RES H/C projects in their regions. The emphasis on a market near approach in the exhibition concept strengthened sales of passive-solar houses.

In more than 200 workshops and guided tours urban planners, architects, engineers and craftsmen have been informed about renewable energies, sustainable development and their economical possibilities.

The results of technical implementation and socio-economic analysis of the REBECEE project support future development and implementation of local energy policies by providing well documented field-test experiences.

All REBECEE building exhibitions were demonstrably strengthened regional development of construction industry. Without the REBECEE project idea most single projects and national campaigns would have hardly taken place.

The 3 year schedule has had positive effect due to short decision and action deadlines. The shortened schedule for the late-joining Dutch partner (EFL) has demonstrated, that partial measures could be realized within 18 months, although implementation on construction measures requires project runtime of 36 months.

The completed construction projects remain monuments of innovative creativeness. A building exhibition convinces almost all the visitors.

A trade fair can only partially substitute construction reality, although it is convincing with help of shorter preparation time, lower costs and involvement of further numerous partners. The building exhibition in Sweden has resulted in the first national trade fair of its kind. Interested companies in Germany could reach the market much better with help of the building exhibition. The success of a building exhibition is connected with its use.

Exhibition sites are more often visited in case of short distances. Shuttle service and guided tours for the interested public were success factors on all the REBECEE locations. Some exhibition cities are already planning follow-up building exhibitions or annual events (InBA Kiel 2012, EnBO 2011 etc).
realized projects

new residential buildings:
- "Eksluttningen" Stadsskogen, Alingsås – 2008
- Tollereder, Alingsås – 2008
- Social House Kauge str 4, Tallinn – 2008
- Kesklinn, Tallinn / Juurdeveo 19 - realized
- Hotel Otepää, Tallinn - in planning
- Stoizice, Ljubljana, 15 units – realized 2007
- Polje 2, Ljubljana, 198 units – in planning
- Pipanova Road, Ljubljana, 22 units – in planning
- several LE- and passive houses, Ljubljana
- "Living and working at Rathaussturm", Kiel, 45 units und 2 business units, 2008
- "Living at Gerhardsdorfer", Kiel, 19 units, 2008
- Development area Steenbeker Weg, Kiel, 80 units, 2008-2009
- passive house Dietrichsdorf, Kiel, 1 unit, 2008
- House Mewis, Kiel, 1 unit, realized 2008
- House Dierking, Kiel, 1 unit, realized 2008
- Housing for people with dementia , Kiel, 12 units, 2009
- Living on Water, 1 unit, Kiel 2007
- Climate Construction, 14 units, Delft 2009
- Passive house, 1 unit, Vilnius 2009

redeveloped residential buildings:
- Brogården, Alingsås – 18 of 300 realized 2008
- Mustamäe, Tallinn / Süüste 45 – realized
- Haabersti, Tallinn / Paldiski Road 171 – realized
- Steletova 8, Ljubljana, 60 units – realized 2007
- Kvedrova 17, Ljubljana, 20 units – realized 2007
- Bräutigarweg, Kiel, 12 units -2008
- Kanalstraße, Kiel, 5 units – 2008
- „House Weber“, Kiel, 1 unit – 2008
- „House Bury“, Kiel, 1 unit – 2008
- „House Engelhard“, Kiel, 1 unit – 2008
- „House Vieburger Gehölz“, Kiel, 1 unit – 2008
- „House Holstein“, Kiel, 1 unit – 2008
- „House Düsternbrook“, Kiel, 1 unit – 2008
- De Koningsvrouwen van Landlust, 246 units

new public buildings:
- Kindergarten Stadsskogen – 2008
- Science Centre Kiel – 2008
- sports hall Schilksee, Kiel - 2008

redeveloped public buildings:
- Valga Kindergarten, Tallinn – 2008
- ABK service centre, Kiel - 2008

commercial property:
- famila supermarket, Kiel-Wik - 2008

Energy Supply Modell:
- Geothermal Energy near Delft
The Innovative Building Exhibition (InBA) presented 20 different projects. Thank to the involvement of the engaged project partners, who refurbished or constructed new buildings according to high InBA energy standards, a good mixture of innovative buildings came into existence: Apartment houses, terraced houses, various single houses, a department store, a sports hall and a multi-functional building. On the whole, 28 residence units were refurbished, 160 accommodation units have came and are still coming into existence in new buildings and with a total area of 15000 m² as commercial real estate and office space.

It is noteworthy, that most of these projects were considerably more energy optimized in course of the exhibition than it was originally planned e.g.

► new famila warehouse store Kiel-Wik
► Science Economy Centre Kiel
► Refurbishment of apartment building in Bräutigamweg

Further projects were:
► Refurbishment of a city villa Lantziusstraße
► Refurbishment of apartment building in Kanalstraße
► Refurbishment of an apartment building Kronshagen
► New residential building for people with dementia
► Living on water
► New sports hall Schilksee

The InBA's aim was to reach everybody in Kiel who is in touch with building, the investors and home-owners, the decision makers and planners, the consultants and the craftsmen. To combine this target groups a special program with visits on building sites, a product and consultancy fair and expert workshops was developed. In cooperation with local craftsmen a product fair has been organised, which was able to advise the visitor on every single craft. Having made use of the consulting service, visitors of the fair could look at specific products implemented in building sites.

Sonnenklar - sparen und erneuerbar! New energy for Kiel!
passive house

on March 5th, 2007 the Prime Minister Fredrik Reinfeldt visited Alingsås.

On March 5th, 2007 the Prime Minister Fredrik Reinfeldt visited Alingsås.

The first national centre for passive house technique and knowledge the Passivhuscentrum was opened in December 2007. www.passivhuscentrum.se

visit of the Swedish
Prime Minister

visit of the Swedish Royal couple

passive house

preschool

passive house

apartment buildings

district heating plant

exhibition (23rd - 30th April 2009)

EnBo is Sweden’s largest exhibition for energy efficient building. Between April 24th and 30th, 2009 builders, municipalities and manufacturers were gathered in Alingsås to demonstrate energy efficient construction solutions. Study visits to five different energy efficient interesting sites were arranged every day during the week, both for public and professionals.

Some 10,000 citizens from West Sweden have visited the exhibition and events. They are proud of the environmental efforts of their municipality.

EnBo 2009 opened their doors for the first central trade at ice rink stadium to energy efficiency, renewables and passive house standard in Sweden. “We are hoping to repeat the EnBo-success during spring 2011” said Mr Bo Norling in his speech after the intensive exhibition week.

focus on local aims Alingsås

► Support know-how concerning efficient and renewable energy-use in buildings

► Promote investments in passive house technique, production and use of renewable energy made by municipal companies

► Perform the local REBECEx Exhibition in 2009

► Contribute to establish a Scandinavian “Centre for passive house technique and knowledge”

On March 5th, 2007 the Prime Minister Fredrik Reinfeldt visited Alingsås.

The first national centre for passive house technique and knowledge the Passivhuscentrum was opened in December 2007. www.passivhuscentrum.se

visit of the Swedish
Prime Minister

visit of the Swedish Royal couple

passive house

preschool

passive house

apartment buildings

district heating plant

enbo alingsås 2009

projects

► District heating model: 105 GWh / year waste from wood industry and sawmill industry, forest raw material (95%) expanding to new areas including Stadsskogen

► Brogården: 300 flats renovated using passive house technique and RES. It is a model project for half a million similar units in whole Skandinavia.

► ”Ekslutningen” (The Oak Hillside) Stadsskogen: 32 flats in passive house technique.

► Tollered: Passive house in traditional Swedish style.

► The Stadsskogen preschool - an active passive house

follow up projects

► Local guidelines for Energy efficient building

► Stadsskogen – implementation of 500 energy efficient living units

► National promotion of the Passivehouse Centre

► Solar-panel construction to promote the district heating

► sports hall in passive house standard

► CHP and wind power

keys to an energy-efficient Alingsås

► Alingsås has district heating with RES

► Alingsås builds and promotes passive houses

► Alingsås cooperates with the municipal companies to take the lead towards energy-efficient buildings with the use of renewable energy
The sun! Solar energy! Active and passive solar energy!

focus
The first Estonian quality assurance handbook (low-energy building technologies and strategies, environmental impacts from construction works, occupant health, actual system performance etc)

participation
Est Built was taking place from 2nd of April till 5th of April in fair centre of Estonian Fairs.

Est Built was taking place already in 12th time and more than 300 companies were taking part this year. REBECCE took part to introduce renewable energy heating/cooling applications and energy efficiency solutions for buildings to give people more information about possibilities in Estonia.

projects
► Valga kindergarten: Kindergarten reconstruction 2-storey house 1040 m² floor area restaurant, meeting room. Aim: passivehouse standard, major contribution from active solar
► Kauge str 4: Social housing unit in Tallinn. The two storey building is designed with outside water outflow and Columbian-stone walls.
► Paldiski 171: Apartment building in Tallinn has been used for 25 years or half of its expected life-time, the association decided to refurbish the building in order to lengthen the life-cycle lower the maintenance costs and raise the quality of life.

special activities
► Tallinn presented a book for children age 3-6 (30 pages) about the use of renewable energies.
► The animation from the book is shown on the Internet at: www.rebecee.tallinn.ee

follow up projects
► REBECCE standard is the base for the future social housing construction in Tallinn.
► REBECCE has initiated the process of creation of market for RE and energy saving products by breaking the mental barriers and increasing the knowledge of potential consumers in this field.
► Hotel in passive house standard

exhibition (22nd May - 14th June 2009)
The 10-day exposition period in Tallinn at the biggest shopping mall, Viru Keskus, gave the general public possibility to learn about renewable energy technologies and energy saving and get information about Tallinn REBECCE exhibition projects.

The main idea of the exhibition was "The sun! Solar energy! Active and passive solar energy!" One focus of the exhibition was on the passive house and passive house building process. The passive house planning, location and architecture, walls and isolation, doors and windows, roof, heating and ventilation were introduced.

This was the most popular subject of the exhibition and thousands of visitors were interested to learn more about the passive house technologies and passive house projects in Estonia.

The second important part of the exhibition was the introduction of the Tallinn City Projects. Two study tours took place and gave the public and also the REBECCE project partners the chance to see the Tallinn REBECCE projects.

The 10-day exposition period in Tallinn at the biggest shopping mall, Viru Keskus, gave the general public possibility to learn about renewable energy technologies and energy saving and get information about Tallinn REBECCE exhibition projects.
“Well organised projects, good new experience working in a team, acquired new professional knowledge.”
Tonka Grgic, Housing Fund of the Municipality of Ljubljana, Slovenia

projects
► refurbishment of Steletova 8 and Kvedrova 17 rehabilitation apartment blocks with 80 flats
► low energy housing in Polje II, 183 flat low energy complex
► passive building in Pipanova road
► completed 15 one family houses Stožice
► refurbishment in Kašelj
► Refurbishment Gornja Radgona kindergarten with passive house components
► kindergarten in Radovljica

Innovative construction for Slovenia

focus
REBECEE reports considerable changes that happened on low energy and RES field in Slovenia.

REBECEE encouraged several investors to take practical steps towards low energy, passive and CO₂ free building designs. REBECEE co-organized the “Earth Day” School Festival at Technical Museum Bistra near Vrhnika on April 22nd 2008 visited by groups of pupils from 8 elementary and 7 high schools.
REBECEE established good contact with the Faculty for Architecture and with the Šiška Technical High School that is leading RE school in Slovenia.

exhibition ljubljana 2009

opening event

special events:
► annual meeting and training events for architects.
► technical workshop:
  Focus on: building envelope technologies, massive and wood construction, materials and energy systems

The exhibition has been opened 17 days for public with 50–60 daily visitors. In summary nearly 1000 visitors, came to the slovenian exhibition, among them many foreigners. Their feedback in the exhibition book was very positive.

Along with the architectural graphical exhibition, six very informative realised projects were opened for public visits. In the timeframe of the exhibition ten guided tours to these developments were organised with presence of designers and professionals that were engaged in the realisation. 46 visitors joined these guided tours, most of them being in the investment preparation phase for their new house.

special activities
Large scale of promotion activities and dissemination:
► conferences, workshops, two exhibitions and media coverage,
► 2008, 2009: exhibitions in Ljubljana were carried out including coverage of several generated projects into the exhibition programme,
► school event was carried out with 16 elementary and 6 high schools at the Technical Museum Bistra,
► many project’s partners joined the project as exhibition partners and as sponsors.

follow up projects
► Passive building for disabled persons in Vinčarjeva road
► 30 low energy flats with solar thermal in Dolgi most
► 2 kindergarten in passive standard
► 600 dwelling project (548 low energy, 52 passive)
► Low energy office building in Ljubljana, 12,000 m²
► 160 one family houses (2-3 liters with RES)
► Refurbishment 135 apartment building at Topniška 45
► 2 public administration centres, 800 and 3,200 m²
projects

► De Koningsvrouwen van Landlust
Energy Efficient refurbishment of 246 monumental appartments, situated in Amsterdam. RES: Wood Pellets, Heat Pump/Aquifer, Photovoltaics. This project received the status of 'Unique Possibilities Award' by the Dutch ministry of Housing and gained excessive publicity in the Netherlands. It’s an example of innercity renovation, tenant participation, use of different kinds of renewable energy, inside insulation and remaining the building as a monument.

► Climate Construction
energy efficient construction system for passive houses, 14 houses with solar thermal RES, all attached or semi attached. The initial plan was the realisation of traditional houses. During the process in which EFL was involved, the target changed in the direction of energy efficient building. The new plan is the construction of these houses in the type of Climate Construction.

► Geothermal Energy in Balkengat near Delft

sustainable buildings for the future

aims

► Application of REBECEEE knowledge in innovative projects in The Netherlands
► Sharing of mutual experiences with REBECEEE partners
► Spreading knowledge among other EFL members
► Making the Dutch building practice familiar with energy efficient technologies

follow up projects

► “Dotterlei” Energy Efficient refurbishment of 49 units with application of RES
► Staedion will use the results of the climate construction workshops for other projects.
► EFL signed a cooperation treaty with Eurhonet on energy efficient projects in Enschede and Winterswijk under supervision of EFL
► cooperation with partners from the Netherlands, Austria, Finland and Germany in a new EU call.
Latvian partner Riga developed a concept for model projects with the focus on:
- New ways to realize Latvia’s most popular native building material - wood
- Examples for passive houses, energy saving buildings, materials and technologies, and possibly to make examples comply with REBECEE inquires
- Examples for newest heating systems

The international conference on renewable energies on 31.10.2008 discussed usage of non fossil fuels on the Latvian market against the background of state influence and national tendencies renewable energy prices. Frequent visits of the Latvian partners to other REBECEE cities resulted in considerable know-how transfer for public agencies in Riga.

The financial crisis overthrew Riga’s efforts in regards of REBECEE follow-up projects, so that further development are not foreseeable. The project partners switched on 01.07.2009 due to government reorganization.

The Bulgarian partner SOFENA (Sofia) organized on 26th and 27th June 2008 the international conference „Integration of Energy Efficient Solutions and Renewable Energy Sources in New and Renovated Buildings“.

The refurbishment project Zona B5, which is supported by REBECEE, has the goal to modernize 4 public buildings, 1 school, 2 kindergartens and 1 social house.

Due to lack of investments the construction measures have not been started yet. The lack of assets is responsible for the fact that experience obtained from other REBECEE partners could not be implemented in Bulgaria’s own projects. Meanwhile the market partner REHAU realized a model system with geothermal heat supply on its own premises near Sofia, so that it could promote their systems and be used for trainings.

The Lithuanian partner Vilnius has featured with the „Park of Architecture“ under the title „3 components of sustainable development – Ecology, Economics and Community“ an intra-urban area of 16 ha with
- conversion of former factories;
- 4 companies as main partners.

The REBECEE knowledge transfer was supported by study tours to Kiel (2008) and to Alingsås (2009). The model project of sustainable urban development in Vilnius is to be completed in 2013.

The pilot project of the first passive house in Vilnius is to be completed in the end of 2009 within the framework of REBECEE. The monitoring is carried out by Kaunas Technical University.

Participation in REBECEE was verifiably a great success for all the three observer partners. Even though financial obstacles due to the lack of assets have stopped implementation of their own follow-up projects, REBECEE still can provide basis for later strategical actions. Particularly the combination with REBECEE partners has provided realistical impression for observer partners.
Hiša Balanč, Križe
hlajenje s kanalskim direktnim uparjalnikom freona (DUF)
tudi direktno gretje zraka (rezerva vodnemu grelniku v Elanu)
grevanje sanitarne vode.

will be presented in the frame of 5
gy houses will be implemented, the consor-
tops for city planners, architects, engineers
hood of sales of the passive-solar houses.
new businesses in the participating coun-
to implement similar RES H/C projects in
This project will be based on the know-how
to transfer from previous similar exhibitions and
This project will accelerate the state of the
to implement similar RES H/C projects in

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

REBECEE
monthly newsletter
posters
flyers

inBA, Kiel 2008
exhibition catalogue
refurbishment booklet
flyers for events
posters

EnBo 09, Alingsås
booklet tour guide
flyer
newsletter
posters

Tallinn
book for children
quality
assurance manual

Ljubljana
poster exhibition

The Hague / Amsterdam
newsletter
invitation symposium
magazine

www.inba-kiel.de (launch Nov 2006)
Visitors 2006-09: more than 30000
Main interests of the visitors:
Download of exhibition catalogue, booklet
Sanieren & Sparen and InBA-flyer
Further activities:
Application for guided tours and workshops,
information about financial support.

www.enbo.se
The site was launched November 11th, 2007.
Until today it has received 82595 visits and 436 544 page views.
The most visited page is „the Passive House“.

www.rebecee.tallinn.ee
The estonian rebecee website presented an
extensive overview of all projects in Tallinn.
The website announced all activities, includ-
des download-possibilities and as a special,
an animation (film) of the children’s book.

www.rebecee.si
The site was launched August 29th, 2007.
From activation till today the site had about
16000 visitors.
Main interests of the visitors:
special activities and the project information.

All activities are published at:
www.staedion.nl
The website www.ef-l.eu received 13000
visits in 2009.
The geothermal project and related activities
are presented on its own website.
www.aardwarmtedenhaag.nl

The website of the project was constantly
updated with news and current dates of city
activities as well as short descriptions of the
projects of each city.
The website has had about 30000 visitors in
total with monthly peaks of 1150.
International know-how transfer took place mostly in regards of technology experience transfer from Sweden and Germany to Estonia, the Netherlands and Slovenia. Germany and Sweden exchanged their experience. Due to the lack of specialists the Netherlands and Estonia were grateful partners for construction solutions that proved their value in the partner countries.

Mutual professional participation of the REBECEE partners in conferences and workshops was very intensive. Almost all the participants visited their project partners at least once, whereas no particular clusters could be noted. The goals of those visits was mutual reporting about corresponding building exhibition and its progress as well as comparison of countries between the exhibition partners. Most notably numerous visits have provided European standard of comparison for every project and contributed to the motivation for the regional projects.

Political cooperations of the REBECEE partners were not aspired. When meetings with mayors took place, they were hardly used for cross-border cooperations. The International City Day during the Kiel Week 2008 took place during InBA as the only noteworthy European city initiative with emphasis on the climate protection. REBECEE has demonstrated that German enterprises, for example, contributed only in limited terms to REBECEE partner cities and this contribution was crucial only in particular cases.

Pan-European strategies of market partners could not be discovered, even though numerous companies were present as a sales agency almost on every REBECEE location. Market partnerships were usually related to regional project implementation and required regional interest. For this all-Europe experience in product usage and application were resorted, yet national peculiarities such as legislation, norms and prices were taken into consideration.

Scientific exchange was carried out between REBECEE partner cities when colleges could recognize mutual training interests at the same time. Involved colleges worked mostly independently from each other on REBECEE locations for respective regional projects, so that transnational scientific cooperation did not take place. If the project run-time had been a year longer, it could have made Europe-wide knowledge exchange possible.
REBECEE has shown that appropriate public relation for the use of renewable energies and more energy efficiency in construction combines conferences, congresses and trade fairs with building exhibitions of reference projects. The surveys discovered a great interest among the visitors in the exhibited products, especially when already implemented in buildings.

Over 100,000 visitors of the exhibitions, over 20,000 visitors of the model projects and fairs and over 5,000 visitors of expert conferences and workshops demonstrate the success of REBECEE activities.

The presentation of the exhibition in the downtown shopping areas is the most successful way to address the public. Shopping malls were the starting point for widely-spread public relation in Tallinn and in Kiel.

The building sites and specialized fairs have been visited by 20% of the exhibition visitors, 5% of them - mostly the expert public - had been attracted by conferences and workshops.

In all participating countries the target groups could be addressed in a similar way. Whereas newspapers, radio and TV spots mostly addressed the general public, the expert public has been attracted by professional magazines and digital media.

Due to the high amount of existing building stock and the number of private house owners, in Germany and Sweden the interest in refurbishment was higher than the interest in new building projects, whereas those interests were balanced in Estonia and Slovenia.

The demand for the projects and methods for realisation of more energy efficiency and usage of renewable energy was noticeably increased by building exhibitions. The REBECEE activities could mirror the requirements of broadly addressing expert public and of being citizen-orientated at all age levels and in all social layers.

The surveys showed the readiness among the inquired people to invest in renewable energies. The motivation is not only to save money in later running costs, climate protection and independency of energy providers play an important role, too.

How important is utilisation of renewable resources for energy supply of buildings?

Over 50 projects with over 1000 accommodations units in new built and refurbishment projects have stimulated much higher level of investment flow than expected.

Are you willing to invest more in the energy efficient home to keep the future constant expenses low?

This demonstrates that support of following publicity work can positively influence prior investment decision.

- When new house standards are built with calculable risk, it should also be spoken about it.
- Later knowledge transfer and advertisement are motivation factors for personal innovative actions of investors.
Diploma Thesis
“Nutzung regenerativer Energien in den Ländern des Baltikums” / “Use of Renewable Energies in the Baltic States”
by Cornelia Blaschke
German

Booklet
“Sanieren & Sparen” / “Redeveloping and Saving Money”
City of Kiel
German

Publication
“Acclerating decentralised renewable energy generation”
in “Energy – Innovation for the planet’s future” of “Projects – Science, Technology and Innovation”
English

Handbook “Quality Assurance”
City of Tallinn
Estonian

Childrens Book
City of Tallinn
Estonian

ZEBAU GmbH initiates and coordinates international projects for energy efficiency and sustainability in the construction sector.

ZEBAU GmbH develops innovative project ideas, prepares project proposals for europe-wide cooperations with international partners and manages projects as leading partner and general manager i.a. supported by the european commission. ZEBAU acts as a partner in international projects and networks, supports regional partners in their project processing and supervises projects from the concept phase to final implementation.

Zentrum für Energie, Bauen, Architektur und Umwelt GmbH
Centre for Energy, Construction, Architecture and Environment GmbH
Große Elbstraße 146, D-22767 Hamburg
fon +49 40 380 384 0; fax +49 40 380 384 29
info@zebau.de, www.zebau.de
coordination

Centre for Energy, Construction, Architecture and the Environment GmbH
Große Elbstraße 146, D- 22767 Hamburg
fon +49 40 380 384 0, fax +49 40 380 384 29
info@zebau.de www.zebau.de

REBCEEE is partner in the European campaign to raise awareness and change the landscape of energy.

supported by

Intelligent Energy Europe Programme (IEE)

implemented by

Executive Agency for Competitiveness and Innovation (EACI)

printed in Hamburg in November 2009