

Editorial

Dear Reader,

the last six months have been even busier in Co₂olBricks with two partner meetings, several national workshops resp. seminars and vibrant discussions about our Joint Declaration and Policy Paper. We are now running up to finally compile all the research results, implement the last steps of the pilot projects and most important to document and publicise all of it in a readable form.

The most exciting event in the next 6 months will be the Co₂olBricks Results Conference on 3rd December 2013 in Hamburg, so please already save the date in your calendar.

Enjoy reading

Yours sincerely



Co₂olBricks Project Coordinator



Invitation to Co₂olBricks Results and Declaration Signing Conference

Date: Tuesday 03.12.2013

Location: Bürgerhaus Wilhelmsburg, Mengestr. 20, 21107 Hamburg, Germany

Time: 9:00 – 17:00 h

At this conference Co₂olBricks will present its results and in a special ceremony the joint declaration will be signed by the project partners.

First enquired or confirmed speakers:

- Prof. Barbara Kisseler, Hamburg Senator of Culture
- Chief City Architect Oberbaudirektor Prof. Jörn Walter
- 'Fæstningens Materialgård' - The iterative energy saving and preservation process, and the end result, Anders Brüel

The current programme and registration can be found on www.co2olbricks.eu.



Content

P1 · Editorial | Invitation Results Conference
P2 · Workpackage Reports
P3 · Publications
P4 · Project Meetings
P6 · News from Sweden

P7 · News from Poland
P9 · News from Belarus
P11 · News from Finland | Dates and Events
P12 · Contacts | Imprint | References



Workpackage 3: Policy Development

Co₂olBricks Workpackage 3, policy development, has during the 5th period focused on summarising and finalising the main outputs compiled into the report “Integration of Climate Protection and Cultural Heritage Aspects in Municipal Policy and Development Plans” which will be published during next period.

The report is a compilation of illustrative examples of the work packages results which have evolved through round tables, stakeholder meetings, expert seminars and workshops. At the transnational workshop and WP meetings in Riga, Stockholm and Kiel partner results were presented and the report developed through group discussions out from the drafts compiled by work package leader.

The work package has contributed in finalising, compilation and discussion of the common Strategic Policy Paper and Joint Declaration. Work package leader has presented the results at the Advisory Board meeting.

Workpackage 4: Technical Solutions

The focus of the Workpackage 4 activities in the last six month was to push forward the pilot projects, the researches and the collection of best practices and technical solutions - here are some examples of the huge range of activities:

In Hamburgs research project “Passierzettel”, where wall tempering systems in combination with internal insulations are being tested, the measurement tools were installed end of 2012 and after the end of the heating period the first results were delivered which are currently compiled into an interim report.

After the preparative researches on the pilot projects in Kothla-Järve (refurbishment of windows), Riga (different types of internal insulation) and Hamburg (wall tempering system and internal insulation) were conducted, the specific measures were planned which will be implemented in summer and autumn this year.

On June 4th the project partners made a comprehensive excursion through the pilot project in Kiel-Elmsenhagen a historic red brick quarter from the 1930ies. On the basis of a new development plan changes in the historic quarter were strictly regulated and at the same time a model refurbishment concept for the different types of buildings was developed, to consult the owners and to implement the energy efficiency measures, e.g. cavity wall insulation or alternative energy supply by wood pellet heating and a cogeneration unit.

The Co₂olBricks workgroup “ventilation and wall heating in rehabilitated buildings” met for a workshop from 12.-14.06.2013 in Tallinn and Vilsandi. The project partners KIINKO and SRIK, responsible for this topic, presented and discussed case studies with the workgroup members and within an expert workshop.



Workpackage 5: Education and Economic Promotion

The Workpackage 5 on Education and Economic promotion had three working sessions in this last six months. The first one was a work package meeting in January in Vilnius where only WP 5 members gathered and newly developed lecture material and a proposal for a certification system for craftsmen in energy efficiency rehabilitation work in historic buildings were presented. A very interesting presentation was given about the new Polish certification system for craftsmen working in the field of historic buildings. A summary of these presentations was given at the following partner meeting in February in Riga. Here additionally the work package 4 Technical Innovations presented their demands towards education which they found out mainly during the implementation of the pilot projects.

Last but not least at the last partner meeting in Kiel in June, a round up work shop discussion took place on which skills the craftsmen working on historic buildings need to have.

Invitation to 10th International Contest for Children's Art „Art: Play or Creative Work?“ - 2013 Contest Theme: „Historical Buildings in Modern World“

Ahtme Art School invites art students representing art schools and studios to participate in its 10th International Contest of Children's Art.

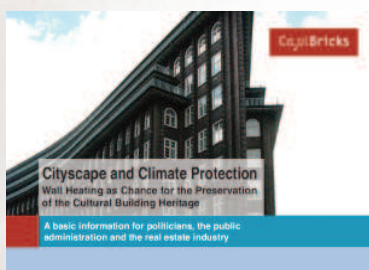
Participants are expected to address one of the following questions about “Historical buildings in Modern World” in their work:

- How can we save, preserve or change our attitude to historical locations and buildings around us?

- How can heritage preservation save resources and protect the climate?

- Is it possible / necessary to make historical buildings more modern and energy efficient?

More information on www.co2olbricks.eu.



Wall heating as a chance for the preservation of the Cultural Building Heritage

The Co₂olBricks project partner „Coordination Centre for Climate Issues” from the Hamburg Ministry for Urban Development and Environment in cooperation with the Department for Heritage Preservation currently released a publication with basic information about wall heating systems. The brochure is addressing on politicians, the public administration and the real estate industry and can be downloaded at www.co2olbricks.eu.



Three Reports about Refurbishments in Copenhagen, Denmark online

Three different reports about refurbishment concepts on historical buildings in Copenhagen, Denmark are online and ready to download:

- Report „Upgrading the energy performance at Kavalergården, Copenhagen, Denmark“

- Report „Upgrading the energy performance of Elmehuset in the Old People's Town, Copenhagen, Denmark“

- Report about the Refurbishment of Faestningens Materialgaard, Copenhagen, Denmark

Completion of research on the Case Study in Poland - BHP Hall - Solidarity Museum

The BHP Hall in Gdansk Shipyard is a great example of a industrial brick building originating from the XIX century. It is also a special place for the Polish Solidarity (Solidarnosc) movement of the 1980ies. The Hall is entered into the Monuments Register of Pomeranian Voivodeship and does not have its original function any more. In the years 2006-2010 the building was completely re-valued and rebuilt so that it can serve as a Solidarity Museum and conference hall.

Thermo modernisation of BHP Hall has also been carried out and this was the reason why the building was selected as one of the case studies for Co₂olBricks in Poland. The case study was coordinated by the European Foundation for Monuments Protection. The study was carried out by the external contractor Energy Conservation Foundation in Gdansk, which conducted the following range of analysis and research:

- Determination of thermal needs of the building for the current state

- Evaluation of thermal insulation of building partitions

- Evaluation of systems and installations

- Identify actions that can be taken to improve current state

More information can be found at www.co2olbricks.eu.





Transnational Co2olBricks Project Partner Meeting at Riga Town Hall

In February the Co₂olBricks partners and the steering committee members met in Riga to talk about the first draft of the joint declaration – which will sum up the main findings of the project work and recommendations –, the results of project achieved so far and the steps until the end of project. Therefore the three days of the meeting were focused on the outputs of every main work package (political development, technical solutions and education) and the combination and implementation of the results.

The first day started at the office of the chief architect of Riga with a presentation about the history and way of heritage preservation in Riga and went on with the steering committee meeting at the town hall. Afterwards the first workshop about the joint declaration took place for all project partners. The day was closed with a get-together and dinner at the world heritage Warehouse District.

The second day was reserved for the work package “Technical Solutions”. Every member was showing a short report about the current state of the pilot project or best practice examples or the research to all project partners. It was followed by a short introduction about the subject matter for the group discussions. Afterwards the participants were split into 4 smaller groups who each worked on answering the following questions in a wide-ranged manner:

- Were energy audits conducted? What were the reasons for decision?
 - What laws, norms or funding schemes were applicable for the projects?
 - Did the development plans (e.g. climate protection plans, city development plans, building plans) help or hinder the implementation of the projects?
 - Are enough technologies and materials certified for the application for energy efficiency in historical buildings? Do we need more research and/or information?
 - Was it difficult to find the well enough qualified planners and craftsmen? And if it was a problem: How did you solve it?
- In the afternoon a bus excursion through Riga guided by the former chief heritage preserver of Riga gave some insights into the history of the city and the Latvian way of monument preservation. The following visit of the pilot project and the world heritage Warehouse District was closed by a presentation and discussion about that area. At the end of the day all participants were invited to an official dinner at the town hall of Riga.

The third and last day started with the presentations of the results of the 4 workshop groups. The main topic has been about learning from the pilot projects, best practice examples, researches and proposed measures. The implementation of that lessons learnt was afterwards also one part of the reports of the results so far of the work packages “Political Development” and “Education” and consisted in the afternoon of a very fruitful discussion about the joint declaration part 2.

Policy Paper and Joint Declaration - WP3 Meeting in Stockholm

During a lunch-to-lunch workshop in Stockholm, most of the Co₂olBricks partners came together to discuss the upcoming work on WP3 deliverables

Madeleine Sjöstedt, head of Stockholm Cultural- and Property committee gave some words of welcome and illustrated energy saving in historic buildings by some practical examples from City of Stockholm.

The work package leader introduced the day by going through the agenda and presented the results of the WP3 questionnaire regarding the system of energy audits.

The Lead Partner presented the strategy for the different documents Joint declaration – Policy recommendation and WP3 Guideline which was followed by group discussions which’s purpose was to establish the strategy and to bring up questions and/or comments to it.

The work package leader introduced the method of discussions called “bee-hives”, originally an educational method. You sit in small groups discussing 1 or 2 questions or statements for a short time, buzzing like bees! We reflected rather long time on each question since the context is complex and some of the participants were quite new in the group.

After lunch, work package leader reflected on WP3 Policy development work and results so far which was followed by group discussions of WP3 main policy recommendations.

The finishing part of the day consisted of group discussions of the WP3 Planning manual with following summary in auditorium.



Public Seminar and Policy Paper - Project Meeting in Kiel

In the beginning of June, Co₂olBricks partners met for their Project Partner Meeting in Kiel, Germany.

Starting with the presentation of some educational material, the first day was dedicated to WP 5. Several modules and elements were presented and discussed.

The first day ended with a public seminar under the topic „New mortar joints and well insulated – does brickwork have a future?“. Over all, six lectures were given with different topics like „Energy efficient refurbishment for historical buildings - actual state of cognition?“ or „Rebuilding, energy efficient refurbishment, extension in passivehouse-standard at a heritage villa in Kiel“.

The second day started with an excursion to the pilot project Gardencity Elmschenhagen. During the guided walk through the area, several relevant aspects were discussed. The quarter is subject to a development plan with different levels of preservation statutes and heritage preservation. Special prototypes for the refurbishment of the different types of terraced houses were presented as well as refurbishment measures in practice like replacement of windows, insulation of the roof or wall insulation. Additionally, alternative examples of energy supply by wood pellet heating and a cogeneration unit were visited. The maybe most practical part was the performance of a real cavity wall insulation and some interviews with experts/craftsmen currently implementing the work.

The afternoon was dedicated to the Joint Declaration, the Policy Paper and the Workpackage 3 Report. The main discussion was about the correlation, cohesion and differences of all three documents.

The day ended with dinner on a boat cruising along the Kieler Förde towards the Baltic Sea.

The last day, a rough paper regarding “specific energy analysis for historic buildings” as a starting point was discussed in five workgroups.



Excursion to research project Passierzettel

On 6th June 2013 thirteen project partners participated in the excursion to the research and pilot project in Hamburg at Passierzettel. There are four flats, all equipped with different energy efficiency concepts. One flat has a normal convection heating and no additional insulation. This flat serves as one reference case. Another flat has a convection heating but with 5cm capillary active internal insulation, one flat has a wall heating directly on the wall without further insulation. This flat serves as another reference case. It is reference to the fourth flat which is equipped with wall heating but there is 5 cm capillary active insulation material between the pipes of the heating system and the outer wall.

After the Passierzettel the group was invited to explore a privately owned and refurbished historic brick farmhouse, which also got a wall heating, insulated with 1 cm of clay and air infused brick balls, equipped with a thermal solar hot water system, original wooden windows with insulated panes.

As the final stop the group visited the „Energy Bunker“ in Wilhelmsburg which is equipped with PV panels, a wood chip boiler and a big hot water storage tank to store hot water to heat the neighbouring „Global Neighbourhood“ which consists of brick buildings.





News from Sweden

Joint Regional Strategic Activity in Sweden

On 19th April 2013, Co₂olBricks partner Swedish National Heritage Board had a WP3 „Joint Regional Strategic Activity“ together with partner Energy Agency for Southeast of Sweden in Växjö. The target groups of the workshop were consultants - energy experts and building conservators - and it attracted in total 33 participants.

The lecturers were stakeholders and contacts built up within the Co₂olBricks project: University of Gotland, Swedish National Property Board, The Swedish National Board of Housing, Building and Planning as well as Swedish National Heritage Board and Energy Agency for Southeast of Sweden. Stockholm City Museum presented the Gaswork area, valuation and selection of historic buildings.

This workshop corresponds to the needs raised in the 1st workshop, in Visby in August 2012, when the need of interdisciplinary work was one of the results of the governmental agency's workshop.

The atmosphere was vibrant in the morning of the 19th March in Växjö. A couple of governmental organisations, mainly from the Co₂olBricks Project, had teamed up to meet the invited consultants and discuss the implementation of the EPBD and its effects on the cultural heritage buildings and especially about the energy audit. The consultants demanded the same kind of solutions and a developed audit for cultural heritage buildings, like we did. In the end even The Swedish National Board of Housing, Building and Planning, which is the governmental organisation in charge of the energy audit, used our language about the energy audit and we were very happy. The workshop was a success and proved that the organisations are on the right path. Next workshop will be in Stockholm in collaboration with Stockholm City Museum.

Spara och Bevara on twitter

Together with the national research program Spara och Bevara, the Swedish project partners created a twitter account where news and articles were commented and information about events etc. are given.

In Sweden, a lot of politicians, journalists and authorities are active on Twitter so that this communication channel was chosen and started to be very successful!

The address is twitter.com/Sparaochbevara.



A Co₂olBricks travelling exhibition

The Stockholm City Museum has developed a travelling exhibition about the Co₂ol Bricks project. The exhibition was inaugurated on Monday 1st July, in the Almedalen Week (Almedalsveckan). The opening is presented in cooperation with “Spara och Bevara” (The Swedish Energy Agency's research program for energy efficiency in cultural heritage buildings).

The Almedalen Week is an annual event taking place in week 27 in and around Almedalen, a park in the city of Visby on the Swedish island Gotland. It is considered as Sweden's biggest political meeting place.

This autumn, the exhibition is booked for the Building conservation fair in Mariestad, the Cooperative Flat Fair (Bostadsrättsmässan), the “Tekniska nämndhuset” (a municipal building in Stockholm which houses the technical departments, as for example the Real Estate Administration, the City Planning Administration and the Environment and Health Administration) and the Final Conference in Hamburg.



News from Poland Case Studies in Poland

The case studies in Poland include two buildings: BHP Hall of Gdansk Shipyard and the Manor house „Studzienka“ on St. Traugutta 94-94A in Gdansk - Wrzeszcz. Studies concerned the assessment of research and analysis for determining the accuracy of prepared projects with the technical requirements for energy efficient building and, in the case of the hall, analysis and evaluation the results of comprehensive modernization of the building.

The overall results of the study of the BHP Hall were already published on www.co2olbricks.eu.

For the second case study of XVII century manor house “Studzienka”, only a modernisation and reconstruction project was analysed.

Taking into account the age of the building and that it is a listed monument, it was found to be necessary to improve the concept of thermal insulation of certain building partitions. The original concept of internal insulation would have caused a degradation of the materials inside the wall

The result of the amendments to the project is heat saving without a loss of historic and cultural values of the manor house.

The two Polish cases shows that if research (energy audits) were done before the preparation of the concept of restoration and modernisation of a listed building, they would have verified project assumptions in the view of improving energy efficiency and give a huge savings. The cost of an energy audit is always less expensive than construction improvements after the restoration. Therefore, the researches based on the energy audit should be obligatory during the planning of renovation and refurbishment of historical buildings.

Seminar on the implementation and future of European Cross-Border Programs in Pomerania Voivodship

On 4th April a seminar on achievements and future of Cross-Border Cooperation Programs organised by the Marshal's Office of Pomerania Voivodship was held in Gdansk. This event was also a perfect opportunity for current Pomeranian beneficiaries to present their projects and discuss the future of cross-border programs in Poland.

The goal of the seminar, which gathered almost 300 beneficiaries from the region, was a summary of the achievements of Cross-Border programs in Pomeranian Voivodship, presentation of best practices of the implementation of ETC and perspective for new budget period 2014 – 2020. The event focused on three programs: Baltic Sea Programme, the South Baltic Programme and the Central Europe Programme.

At the end of the part dedicated to BSR, time was given to beneficiaries presenting projects in the Pomeranian Voivodship realised under the program.

In the main hall selected already completed cooperation projects were presented. The project Co2ol Bricks, as it is not yet finished, this time could not be presented on the main forum. However, the European Foundation for Monuments Protection got the opportunity to present Co2olBricks with presentations of ongoing projects, which representatives had set up their information stands in the foyer of the conference room of the Marshal's Office.





Co₂olBricks on XII European Market of Renovation Information's

European Market of Renovation Information (EGIR) is one of the most prestigious events on monuments restoration in Poland. Organised on 8th April for the 7th time by Information and Promotion Agency „Report“ amassed from one side the biggest Polish and foreign companies engaged in conservation of monuments, suppliers of materials such as brick and tile. From the other hand, a big number of conservators and representatives of central and local governments were present. During the two days of this convention, there were many presentations by experts and representatives of the companies on renovation market issues and the latest technologies used in the industry.



The European Foundation for Monuments Protection encouraged representatives to attend the first day of the convention because the subject-matter was strongly connected to Co₂olBricks project. Among the speakers on this day, Deputy Director of the National Heritage Institute in Warsaw, Mr. Mariusz Czuba presented the subject „The importance of authenticity in the conservation of monuments“. He noted that the authenticity seems to be the total value, which consists of: The authenticity of the material, technology and design of the structure, authenticity of function and form of the monument. Mr. Czuba said that integrity, or the homogeneity of the monument, which is maintaining technical and aesthetic value should always be the most important aspect during refurbishment, repairs or adaptation of a monument to modern construction standards. Only in this way, with preserving the authenticity of the monument and its integrity, should works be carried out, also on improving the energy efficiency. This presentation was delivered in the most appropriate place, given the presence in the room of representatives of commercial companies engaged in all possible aspects of the renovation - lighting installers, company renovating roofs, performance of thermal insulation and manufacturing construction materials for adding substances to historical buildings. The position of the National Heritage Institute in this case with the conclusions of the Co₂olBricks project, which significantly improves the promotion of respect for heritage in every area of renovation.

Association “Employers of Pomerania” meeting about vocational education in Poland

On 31st January, 2013 there was a meeting of employers belonging to the Section of Education and Vocational Training as part of the Association „Employers of Pomerania“ in Gdansk. This section brings together more than twenty organizations and companies in the education industry, such as the Vocational Improvement, School of Civil Engineering, Staff Training Institutes, and many others. The theme of the meeting was to discuss the proposals elaborated during the conference ‘Business - Vocational Training - A review of selected issues in vocational education’ from December 2012 and other proposed changes in vocational education.



Representatives of the European Foundation for the Preservation of Monuments, went to the meeting of the Section of Education and Vocational Training to look into the possibility of making changes in training programs taking into account the education on cultural heritage objects undergoing processes of thermal insulation. The presentation at the meeting were conclusions of the conference held by “Employers of Pomerania” on December 4, 2012 and of the discussion that took place on line Businesses Sector– Vocational Schools.



News from Belarus

Representatives of the RCTT spread the information about the project Co₂olBricks and project publications during a number of events, which took place in the first half of the year:

- for schoolchildren and students from Minsk, Brest, Grodno and Vitebsk during the Open Days in the framework of the celebrations of the Day of Belarusian Science from 19th to 26th January 2013

- for young scientists during the seminar „Technology Transfer and Scientific Career“ on 27th February 2013 and during the meeting „Technology Transfer or Knowledge can be Successfully Selling Products“ on 23rd April 2013

- for managers of Belarusian enterprises and organisations during the regular seminars „Technology Transfer as an Element of the National Innovation Activity“

- for participants of the 5th International Conference „Energy efficient construction in the Republic of Belarus“ on 28th February 2013 and during the International Conference „Development of the Technology Transfer Networks for Innovations“ on 30th–31st May 2013. The conference „Energy efficient construction in the Republic of Belarus“ gathered over 150 experts from Belarus, Germany, Russia and Ukraine

- for representatives of NGOs during the Meeting of Belarusian organisations working on the topics of Energy and Climate on 6th May 2013 and at the Meeting about Green Building in Central and Eastern Europe on 5th April 2013. At the meeting of NGOs participated representatives of „Ecoproject „Partnership“, RCTT, Aarhus Center, Center for Environmental Decisions, Economic Polus, Renewable Energy Association as well as representatives of the Technical Assistance Project „Clima East: Support to Climate Change Mitigation and Adaptation in Russia and ENP East countries“, which is funded by the European Union

- for experts during the Meeting of the Belarusian Advisory Board on Energy Efficiency in Buildings on 15th March 2013.

V. International Conference „Energy efficient construction in the Republic of Belarus“

The V. International Conference „Energy efficient construction in the Republic of Belarus“ took place in Minsk on 28th February 2013.

The Conference was organised by the agency „Community Forums“. Over 150 experts from Belarus, Germany, Russia and Ukraine participated in the conference including representatives of the Republican Centre for Technology Transfer (RCTT).

A welcome speech to the audience gave the Minister of Architecture and Construction of Belarus Mr. Anatoly Nichkasov.

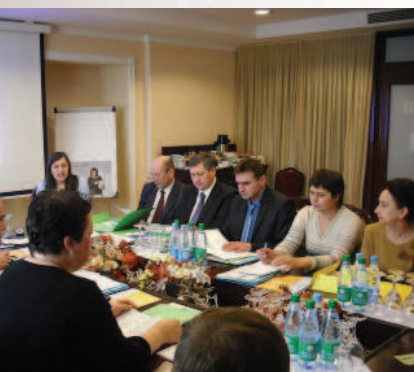
At the conference, in particular, the following presentations were given:

- Natalie Andreenko, coordinator of projects on energy saving and climate change of the international public organisation „Ecoproject Partnership“ on the topic „Experience with software for energy certification (on example of educational institutions)“;

- the representative of the Institute of Energy National Academy of Belarus Mr. Vladimir Rak gave the presentation „The software for the calculation of the energy balance of the building and validation of measures to reduce energy consumption“;

- Mr. Sergei Nedvetsky, representative of „Center of testing, calibration and service of Kalibron“, delivered the presentation „The thermal control and thermal measurements in construction for energy efficiency in buildings“.





Meeting of the Belarusian Advisory Board on Energy Efficiency in Buildings

The meeting of the Belarusian advisory board on energy efficiency in buildings took place in Minsk on 15th March 2013. The meeting was organized by International public organization „Ecoproject „Partnership“ (IPO „Ecopartnership“).

The meeting gathered around 20 participants - representatives of government, design organisations, regulatory authorities, housing and communal services, non-governmental organisations, including representatives of the RCTT.

At the meeting Mr. Eugene Obolensky - member of the Standing Commission on Industry, Fuel and Energy Complex, Transport, Communications and Entrepreneurship of the House of Representatives of the National Assembly of the Republic of Belarus - presented 1st Draft of the Law „On Energy Saving“. Then participants discussed the implementation of international projects on energy efficiency and renewable energy in Belarus:

- Project Awareness Raising Campaign on Energy Efficiency in Russia, Ukraine and Belarus (ARCEE), Ms. Natalia Andreyenka - IPO „Ecopartnership“
 - Project „Co₂olBricks“, Mr. Aliaksei Uspenski - RCTT
 - Project „Energy consulting for raising awareness of energy efficiency“, Mr. Dmitry Burenkin - Centre for ecological solutions
 - Project „Promotion of energy efficiency and renewable energy at the local level“, Mr. Dmitry Burenkin - Centre for ecological solutions
 - Project Support to emerging multi-level governance in Belarus: Capacity building for sustainable housing, Ms. Irina Usava - IPO „Ecoproject“
 - Project Support to the Implementation of a Comprehensive Energy Policy for the Republic of Belarus: information campaign on energy efficiency at home in cities Zhodino, Osipovich, Baranovich, Ms. Natalia Andreyenka - IPO „Ecopartnership“
 - Sociologist Ms. Olga Tereschenko from Belarusian State University gave a presentation on „Public opinion on the subject of energy saving according to a poll in cities Zhodino, Osipovich Baranovich“.
- Mr. Sergei Drapei from the „Minsk housing and communal services“ made a report on „Energy certification of municipal buildings of the same type at the city level with conclusions and proposals for regional energy efficiency program“.



RCTT participated in the meeting about Green Building in Central and Eastern Europe

On 5th April 2013 in the conference hall of the hotel „Yubileiny“ took place an informal meeting organised by the Education Taskforce for the World Green Building Council and the International public organisation „Ecoproject Partnership“.

The meeting was chaired by Mr. Steven Borncamp - President of the Education Taskforce for the World Green Building Council, Founding President & CEO of Romania Green Building Council (RoGBC.org). The meeting gathered around 20 participants - representatives of design companies involved in energy efficiency in green building, NGO's, including a representative from the RCTT.

The topics of the meeting were:

- The situation in the field of sustainable development in Central and Eastern Europe
- Existing opportunities for services, technologies, materials, service providers
- Green Building Councils, and how they transform construction and real estate markets in the direction of sustainability. Green Certificates
- Project Construction21.eu
- The possibilities of training in this field.

News from Finland Finnish Excursion to Stockholm

Finnish Co₂olBricks partner – Kiinko Real Estate Education organised an excursion to Stockholm in April.

One inspiring refurbishment object was the Gaswork area that is part of the city's vision of a world-class Stockholm by 2030. The historic industrial buildings designed by Ferdinand Boberg in the late nineteenth century will be transformed with the focus on culture, education and retail. The area consists of around 30 buildings, five of which are circular gas holders from three generations of the works. Gas has been produced here for over 100 years. The industrial and urban character of the gasworks, which is of major architectural and historic value, is unique in Sweden. By 2020 over 6000 homes will have been built and Horthagen will have 15,000 new residents. The overall objective is a climate-adapted and fossil fuel-free urban district by 2030, in which carbon dioxide emissions are lower than 1.5 tonnes per person per year by 2020.

The group also visited the City Hall which is mainly concentrating to improve energy performance on using the Green IT. It aims at reducing the environmental impact with the aid of IT. Tommy Waldnert from the Real Estate Administration told about the refurbishment work that has been done, mainly concentrating on the Green IT. It involves: 1) using information technology to reduce our environmental impact, and 2) reducing the energy consumption and environmental impact of the IT sector. Heating, ventilation and lighting can be controlled in line with tenant requirements, using IT-based control systems. Actions include development of new technology designed to reduce energy-related emissions, and turning off lights in empty buildings and installing presence control. The major challenge was finding an energy efficient light source that would look similar to the chandelier bulbs and be visually appealing. It should also have clear glass, provide the same warm light and emit an adequate amount of light, similar to the incandescent lamps. All the clear chandelier 40 W bulbs in Prince Gallery have been replaced with an E14 cap base. A total of 126 LED lamps were installed. By introducing LED lighting in the Prince's Gallery, the installed power has been slashed by 92.5%. Stadshuset is saving over 20,000 kWh a year, a reduction in CO₂ emissions of over 2 tonnes.

Totally unknown brokerage organisation to all participants was Stadsholmen. It owns about 280 pieces of real estate with around 1,650 residential buildings. Several of them have the highest protection classification.

The group of a dozen participants consisted of architects, researchers and museum specialists from Finland, Sweden and Germany.



Dates and Events

· 18.06.-15.09.2013 Hamburg | Germany

· 20.08.+26.09.+26.11.13 | Hamburg | Germany

· 04.-07.09.13 | Minsk | Belarus

· 16.-18.09.13 | Gdansk | Poland

· 20.-22.09.13 | Tallinn | Estonia

· Nov. 13 | Brussels | Belgium

· 03.12.13 | Hamburg

Exhibition „Die Reform der Großstadtkultur. Das Lebenswerk Fritz Schumachers (1869-1947)“

Lectures „Hamburger Backsteinforum“

WP4 Meeting and Advisory Board Meeting

Co₂olBricks Project Partner Meeting

Festival „EcoMess - for better living environment“

Co₂olBricks Information Event

Co₂olBricks Results and Declaration Signing Event

Contacts

Co₂olBricks

Lead Partner

Department for Heritage
Preservation Hamburg
Jan Prahm
fon: +49 40 42824-729
jan.prahm@kb.hamburg.de
www.hamburg.de/denkmalschutzamt



Hamburg | Ministry of Culture

Department for Heritage Preservation
Hamburg
Albert Schett / Dr. Daniela Scherz
fon: +49 40 42824-728
daniela.scherz@kb.hamburg.de
www.hamburg.de/denkmalschutzamt



Hamburg | Coordination Center for Climate Issues

Ministry for Urban
Development and Environment Hamburg
Rainer Scheppelmann
fon: +49 40 42840-2536
rainer.scheppelmann@bsu.hamburg.de
www.hamburg.de/bsu



Vocational Training Centre
Hamburg
Jens Schwarz
fon: +49 40 63900318
jens.schwarz@azb-hamburg.de
www.azb-hamburg.de

Landes- hauptstadt Kiel



City of Kiel
Environment Department
Jens-Peter Koopmann
fon: +49 431 9013738
jens-peter.koopmann@kiel.de
www.kiel.de



City of Stockholm
Stockholm City Museum
Tomas Örn
fon: +46 8 508 31 556
tomas.orn@stockholm.se
www.stadsmuseum.stockholm.se



Energy Agency for Southeast Sweden

Daniel Uppsal
fon: +46 470723335
daniel.upsall@energikontorsydost.se
www.energikontorsydost.se



Swedish National Heritage Board

Therese Sonehag
fon: +46 851918414
therese.sonehag@raa.se
www.raa.se



City of Malmö
Environment Department
Roland Zinkernagel
fon: +46 40342079
roland.zinkernagel@malmö.se
www.malmö.se



Danish Building Research Institute,
SBI at Aalborg University; Depart-
ment of Construction and Health
Torben-Valdbjørn Rasmussen
fon: +45 99 40 22 72
tvr@sbi.dk
www.sbi.dk



Information Center for
Sustainable Renovation NGO
(SRIK NGO)
Tarmo-Andre Elvisto
fon: +372 6414434
info@renoveeri.net
www.renoveeri.net



Kothla-Järve Town Government

Jelena Dulneva
fon: +372 3378538
jelena.dulneva@kjl.lv.ee
www.kjl.lv.ee



Centre for Development Programs
(EMI-ECO)
Anne Randmer
fon: +372 5049798
anne@emico.ee
www.emico.ee



City of Riga
City Development Department
Martins Menniks
fon: +371 29410699
martins.menniks@riga.lv



Riga Technical University
Institute of Environment
Protection and Energy Systems
Dr. sc. Ing. Andra Blumberga
fon: +371 295 165 06
andra.blumberga@rtu.lv
www.rtu.lv



European Foundation of Monuments
Protection
Aleksandra Kocialkowska
fon: +48 58 305 30 20
efoz@efoz.org.pl
www.efoz.org.pl



Republican Centre for Technology
Transfer, Belarus
Dr. Alexander Uspenskiy
fon: +375 296114489
uspenskiy@mail.ru
www.ictt.by



KIINKO - Real Estate Education

Virpi Slotte
fon: +358 400 641 007
virpi.slotte@kiinko.fi
www.kiinko.fi



Vilnius Gediminas
Technical University
Marija Burinskiene
fon: +370 52744720
marbur@vgtu.lt
www.msk.ap.vgtu.lt

References

- p.1, p.3, p.4, p.5 · Department for Heritage Preservation Hamburg
p.2 · Jens Gebhardt, ZEBAU GmbH
p.3 · Danish Building Research Institute, SBI, at Aalborg University
p.6 · Therese Sonehag, Swedish National Heritage Board
p.2, p.7, p.8 · Mateusz Kirjak, European Foundation for Monuments Protection
p.9, p.10 · RCTT Belarus | p.11 · Kiinko Real Estate

Imprint

Co₂ol Bricks Communication Management · Jan Gerbitz
ZEBAU GmbH · Große Elbstraße 146 · 22767 Hamburg · Germany
fon +49 40 380384-29 · www.zebau.de · co2olbricks@zebau.de

Published July 2013

Part-financed by the European Union
(European Regional Development Fund and European
Neighbourhood and Partnership Instrument)