

Dear Reader,

After three years of intense project work for Urb.Energy we want to thank our project partners, associated partners and supporters for their cooperation and involvement within the project. The active cooperation in several project meetings with interesting presentations and discussions produced new ideas and knowledge on the issues of integrated urban development, energy efficiency and financing. The conferences and information events initiated by the project managed to involve important stakeholders and bring our findings for energy efficient urban development into policy reflection on regional, national and European level.

The local and overall project results are getting more important especially regarding the tendencies of future structural funding. Because the Urb.Energy principles of integrated development combined with energy efficiency and revolving funds will play a key role in the future funding period, the results of Urb.Energy will prepare its participants well for future EU-support and funding.

This issue of the Urb.Energy newsletter reports from the last project activity period with a view on the final conference in Riga and the main results gathered in the policy recommendations, further manuals and guidelines.

Enjoy reading  
 The Urb.Energy Team



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## Urb.Energy Final Outputs

The Urb.Energy partners compiled four main documents to assist other towns to make their cities and neighbourhoods more energy-efficient and liveable, thus contributing to climate protection and attractive cities for its inhabitants in Europe and worldwide:

### **Policy recommendations: Energy efficient urban areas and neighbourhoods - A contribution to liveable and competitive cities**



The paper presents five main recommendations, based on the experience of the Urb.Energy partners, to put municipalities in a good position to increase

the energy efficiency of cities and their neighbourhoods and to develop an affordable and climate friendly energy supply in combination with the modernisation of city districts. To find here: [http://urbenergy.eu/fileadmin/urb.energy/medias/partners\\_section/Partner\\_Outputs/main\\_results/Urb.Energy\\_Policy\\_recommendations\\_en\\_de.pdf](http://urbenergy.eu/fileadmin/urb.energy/medias/partners_section/Partner_Outputs/main_results/Urb.Energy_Policy_recommendations_en_de.pdf)

### **Integrated Urban Development Approach Targeting at Energy Efficient Residential Areas**



The manual explains the need for integrated urban development approaches with focus on energy relevant issues in order to target the improvement of energy

efficiency of residential neighborhoods with their modernisation. It gives practical operational advice to local administrations how to plan and implement

such approaches successfully. To find here:

[http://urbenergy.eu/fileadmin/urb.energy/medias/partners\\_section/Partner\\_Outputs/main\\_results/Integrated\\_urban\\_development\\_WP3\\_manual.pdf](http://urbenergy.eu/fileadmin/urb.energy/medias/partners_section/Partner_Outputs/main_results/Integrated_urban_development_WP3_manual.pdf)

### **Holistic Strategies for Energy Efficient Refurbishment of the Housing Stock and Renewal of the Related Energy Supply System**



The manual presents an overview of various suitable and realistic approaches to implement energy and climate friendly measures to improve energy efficiency

and the use of renewable energy sources in the building sector embedded in the framework of an integrated energy efficiency concept for urban districts, especially for residential areas. To find here: [http://urbenergy.eu/fileadmin/urb.energy/medias/partners\\_section/Partner\\_Outputs/main\\_results/Energy\\_Efficient\\_Refurbishment\\_WP4\\_manual.pdf](http://urbenergy.eu/fileadmin/urb.energy/medias/partners_section/Partner_Outputs/main_results/Energy_Efficient_Refurbishment_WP4_manual.pdf)

### **Guidelines for Innovative Use of EU Funds for Measures in the Housing Sector and Deprived Urban Areas**



The guidelines present a practical approach to available funding options on both national and EU level. They can be used

by local, regional or national actors when drawing up financing schemes for energy efficient refurbishment or integrated urban development concepts. To find here:

[http://urbenergy.eu/fileadmin/urb.energy/medias/partners\\_section/Partner\\_Outputs/main\\_results/Innovative\\_Use\\_of\\_EU\\_Funds\\_WP5\\_Guidelines.pdf](http://urbenergy.eu/fileadmin/urb.energy/medias/partners_section/Partner_Outputs/main_results/Innovative_Use_of_EU_Funds_WP5_Guidelines.pdf)

You can find these and more publications of the project on the project website: [www.urbenergy.eu](http://www.urbenergy.eu).

## Urb.Energy Final Conference in Riga

The project Urb.Energy has been successfully finalised with a two-day event on 1 and 2 December 2011 in Riga. On the first day, a partner workshop was held which served to get to know the content and results of the integrated urban development concept (IUDC) for the target area Riga-Jugla and to discuss possible way to finance integrated urban development measures. On the second day, the international conference “Energy Efficiency and Urban Future” was held and received remarkable press coverage by the Latvian media.

### ***International Conference “Energy Efficiency and Urban Future”***

In the final conference of Urb.Energy almost 100 participants took part, among them all project partners from the six project countries, Latvian actors from the housing, building and energy sector, incl. representatives of municipalities and homeowner associations as well as members of European institutions. The event, which received remarkable coverage by the Latvian media, was opened by the Vice Mayor of Riga, Andris Ameriks, who stressed in his speech, that the results of the project will become guidelines for the future development of the City of Riga. The second welcome speech was given by Ivars Gaters, Chairman of the conference host “Rigas pilsetbuvnieks”, who emphasized that the results and ideas elaborated for the district Riga-Jugla may also be transferred to other districts of the city.



In the first presentation, Britta Schmitzki, project coordinator IWO e.V., introduced the participants to the background, work and results achieved by Urb.Energy. She also presented the main findings and recommendations of the project and in this context stressed the need to continue the joint project work by focusing on the implementation of follow-up investment measures. The next presentation was held by Elena Kolosova, project officer EU Baltic Sea Region (BSR) Programme 2007-2013, which presented the goals and aims of the BSR Programme and highlighted energy efficiency as a main focus of the programme.

In the next part of the conference Juris Ozolins, EU and energy expert, gave a presentation on the developments in the energy sector and relation between energy consumption and energy prices. Afterwards, Dr. Kay Pöhler, KfW Bank, presented the new German funding programme for integrated urban development and energy efficient refurbishment.

The following conference part focused on energy efficient urban planning in Latvian cities. Dr. Maija Rubina started with a presentation on the targets and fields of

action in Riga's Sustainable Energy Action Plan. She highlighted that the Urb.Energy project helped the city to develop financing ideas for energy efficient housing refurbishment, which include revolving funds and a municipal building energy service company model. Afterwards, the Latvian project partners presented their results, including the integrated urban development concept (IUDC) for Jugla, the results of the indoor climate monitoring of multi-apartment buildings in Riga and the main objectives of the IUDC for the City of Jelgava.

In the final part of the conference, which was opened with a video showing the results achieved in the target areas of Grodno, Belarus, the outcomes of the Urb.Energy project were presented by the project partners. Thereby, the general results achieved in the three work packages "Integrated Urban Development", "Energy Efficient Refurbishment" and "Financing Schemes" were presented as well as the project examples from the countries and the target areas. Finally the conference was closed by Michael Färber, representing the lead partner DV e.V., with a resume of the project work and an outlook to future developments.

### ***Partner Workshop***

The final project event of Urb.Energy started with a partner workshop one day ahead the final conference on the 1st December 2011. The project partners first of all went on a study trip and visited the neighbourhood of "Jugla", which is the target area in Riga. Jugla is the

second largest neighbourhood in Riga (ca. 27,000 inhabitants) and it is dominated by prefabricated multi-family housing areas which are need of energy efficient refurbishment of the building stock and the upgrading of the urban spaces.

During the workshop, presentations were given on the integrated urban development concept (IUDC) for Jugla and on financial schemes for the implementation of energy efficiency measures in Riga. Subsequent to that, two expert lectures were given on financing options for housing and IUDC measures: Norman Diehl, from the Investitionsbank Schleswig-Holstein presented the existing model of the Investitionsbank for the integrative development of urban quarters in Schleswig-Holstein, Germany and Dr. Alexander Ferstl, DG Regional Policy European Commission, provided an overview on the developments regarding the use of EU structural funds for housing and urban development. The workshop was concluded with a feedback round and informal review on the past three years of joint project work.



## Integrated Urban Development Concept for Riga Jugla

The project partner Riga presented on the final conference of Urb.Energy the Integrated Urban Development Concept (IUDC) for the target area Riga Jugla.



The aim of the integrated concept is to reach a high and long lasting residential and economical quality of the particular neighbourhood of Riga - Jugla, while paying a lot of attention to energy efficient solutions thus ensuring sustainability of the planned development.

The four fields

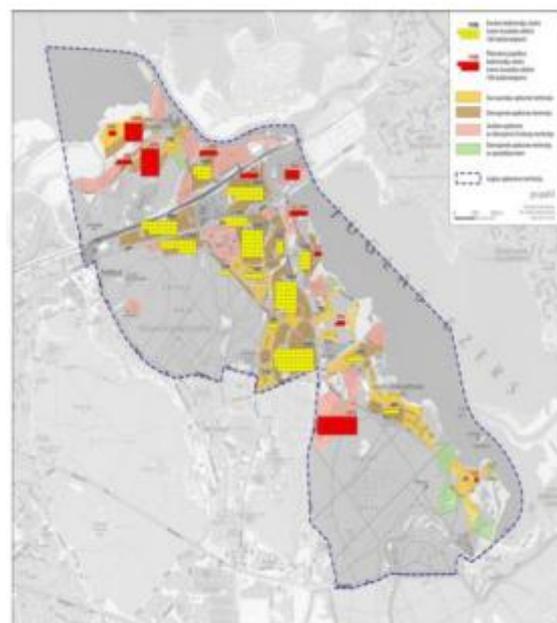
- Urban development,
- Energy efficient renovation of multi-apartment buildings,
- Energy supply and
- Optimal financial and organizational approaches

are covered with the IUDC. The structure of the IUDC is also aligned to main fields of residential neighbourhoods: urban environment, multi-apartment buildings and energy supply.

The IUDC of Jugla is a document prepared in accordance with “Riga long-term development strategy till the year 2025” and “Riga development program 2006-2012” and is a structured compilation of main conclusions of concepts and re-

searches elaborated within the Urb.Energy project.

The “Riga long-term development strategy till the year 2025” defines 13 aims for city development, where four are priority aims and nine are strategic aims for attaining social, economical and urban quality in Riga. The IUDC would contribute to the long-term strategy in working for the priority aim “Life in a city with qualitative neighbourhoods” and the strategic aims “Green city with good environmental quality” and “A city with qualitative dwellings”. The improvement of energy efficiency of multi-apartment buildings and energy supply system would also contribute to the EU Recast Directive on Energy Performance of Buildings.



**Residential structure of Riga Jugla**

The IUDC aims at Jugla as a residential neighbourhood of high quality and used top-down and bottom-up methods. For the urban areas part the particular prob-

blems and their solutions were detected by the bottom-up method, also a general principle of energy efficiency was applied. In planning of the development of multi-apartment buildings and energy supply system top-down approach had to be used.

Requirements of the “Riga long-term development strategy till the year 2025” and EU Recast Directive on Energy performance of buildings were taken as bidding within the concept.



Gas supply grid and district heating grid Riga Jugla

The planning process of Jugla neighbourhood consisted of four stages. During the first planning stage the particular aims and tasks of the “Riga long-term development strategy till the year 2025” of which the IUDC Jugla can contribute to were analysed.



Planning for parking space

During the second planning stage a detailed SWOT analyses was carried out finding strengths, weaknesses, opportunities and threats for development of Jugla neighbourhood while paying special attention to urban environment, multi-apartment buildings and energy supply.

During the third planning stage the necessary activities to solve the problems were found. The activities are explained with the aims and tasks of the “Riga long-term development strategy till the year 2025” they correspond to. Also the problems they help to solve and which institutions are responsible for their implementation are described.

During the fourth planning stage the financial and organizational approaches for implementation of activities were developed and described.

The documentation of the IUDC is online available on the Urb.Energy Website: [http://urbenergy.eu/results.0.html?&L=0&tx\\_makzprojectmap\\_pi1\[style\]=textlist&cHash=321a16128e5cf044a7fdca74221ed29a](http://urbenergy.eu/results.0.html?&L=0&tx_makzprojectmap_pi1[style]=textlist&cHash=321a16128e5cf044a7fdca74221ed29a)

## Partners Recent Developments

### ***Energy Saving Days, Siauliai***

November 2011, Lithuania



"Energy saving days" took place in Siauliai within the framework of Urb.Energy project. Four events called "My home: light, warm and clean" were organized in two primary schools and two kindergartens located in the target areas. Children drew posters showing their imagination of warm, light and clean home. After discussing the drawings and introducing the information about energy saving, all children were taught how to sort garbage and to take care of their living environment.

The aim of the last event - a discussion with inhabitants of Siauliai - was to share the experience and practice with other municipalities and to present the project results to Siauliai City inhabitants.

### ***Renewable Energy Day Angermünde***

January 2012, Germany

In the context of Urb.Energy the Chamber of Commerce and Industry Potsdam invited to an event in Angermünde, Brandenburg, about the design of

sustainable energy supply in cities and rural communities. Energy efficiency and renewable energies were in focus of the event. The thematic frame gave the contemporary structural change in towns and municipalities in rural areas caused by the impact of demographic change, resulting in cutbacks of social infrastructure, transport and utilities. An important role in this problematic can play the establishment of a decentralized energy supply.

Presentations about

- Opportunities for development of rural areas through decentralized energy supply systems,
  - Funding programs for promoting local energy concepts,
  - The multifunctional energy centre Casekow and
  - Integrated approaches to refurbishment of residential areas
- gave the audience of more than 30 stakeholders in regional and energy development a broad input and stimulated intensive talks and discussions on perspectives of renewable energies and decentralized energy supply.

### ***Calculation tool to determine key energy values***

Within the framework of the project Urb.Energy, the Center of Competence for Major Housing Estates with its associated partners developed a calculation tool which evaluates and depicts the results of integrated urban development as well as energy efficient refurbishment measures implemented in the past twenty years in two residential areas in Berlin.

The benefits of the tool for transnational cooperation of cities are diverse.

| Initial situation 1990 |  |                                   |        |                               |                      |                       |       |                      |
|------------------------|--|-----------------------------------|--------|-------------------------------|----------------------|-----------------------|-------|----------------------|
| Energy sources         | Floor-space<br><i>A<sub>total</sub></i> / m <sup>2</sup> | Useful energy demand * $\eta_p =$ |        | Final energy demand * $f_p =$ |                      | Primary energy factor |       |                      |
|                        |  | kWh/m <sup>2</sup> a              | MWh/a  | $\epsilon_p$                  | kWh/m <sup>2</sup> a | MWh/a                 | $f_p$ | kWh/m <sup>2</sup> a |
| Lignite                | 88.532   | 205                               | 18.148 | 1.60                          | 328                  | 29.037                | 1.20  | 394                  |
| Natural Gas            | 16.644   | 205                               | 3.407  | 1.47                          | 301                  | 5.009                 | 1.10  | 331                  |
| ...                    | ...  | ...                               | ...    | ...                           | ...                  | ...                   | ...   | ...                  |
| Natural Gas            | 2.568  | 210                               | 540    | 1.24                          | 261                  | 669                   | 1.10  | 287                  |
| ...                    | ...  | ...                               | ...    | ...                           | ...                  | ...                   | ...   | ...                  |
| Lignite                | 7.345  | 196                               | 1.440  | 1.30                          | 255                  | 1.872                 | 1.20  | 306                  |
| ...                    | ...  | ...                               | ...    | ...                           | ...                  | ...                   | ...   | ...                  |

Not only can it be used by municipalities for an entire city area to compare neighborhoods, develop neighborhood-specific strategies and set priorities for urban development policies. It also helps to make the locally achieved data, values and results transnationally comparable.

For more information visit

<http://urbenergy.eu/251.0.html?&L=0>

## Renovation campaign of apartment buildings

October, November 2011, Estonia

The campaign on renovation of apartment buildings was conducted in two stages from October 24th to November 30th, 2011. The target of the campaign was to facilitate the renovation of apartment buildings with the help of KredEx financing measures and the target group included the boards and active members, as well as inhabitants of apartment buildings.

The main message of the campaign was that KredEx helps to renovate so that the repayment of loan is smaller than the amount saved on heating expenses, and renovation is feasible for every association. The main channel of the campaign was television, where 4 channels in Esto-

nian and 4 in Russian were utilized. The TV was strongly supported by Internet banners (est/rus) leading to the campaign web page (est/rus) visited by 8,307 people during the campaign period; radio advertisements (est/rus); printed advertisements in local papers (est/rus); outdoor media advertisements (bus pavilions, trolleybuses) and direct mailing to leaders of apartment associations.



As a whole, the campaign can be considered as successful both in regard to coverage and the message. The campaign delivered a professional message in an understandable way. The actual influence of the campaign can be evaluated towards spring, when the active application period should begin.



The TV spot can be found here:

[http://www.youtube.com/watch?v=b-EMvDIHF28&context=C33ca756ADOEgsToP DskKeFDeUIQo97ClyCm8G\\_uQS](http://www.youtube.com/watch?v=b-EMvDIHF28&context=C33ca756ADOEgsToP DskKeFDeUIQo97ClyCm8G_uQS)

## Outlook

### Expert Forum on Linked-In

To support the continuation of our Urb.Energy network a group on the social media network space Linked-In was founded. The group “Urban Energy Experts” gives a platform to gather knowledge and exchange information about urban development and energy related issues with focus on European countries.

### Continuing Website

The Urb.Energy Website will continue to inform about news and ongoing activities of project partners after the end of Urb.Energy.



Also the local and overall results and gathered findings will be available under: [www.urbenergy.eu](http://www.urbenergy.eu).

### Energy Cluster

Together with seven other INTERREG IVB projects within the Baltic Sea Region Urb.Energy is part of the Energy Cluster. The one-year cluster initiative is lead by the cluster leader project Longlife and works on synergies of the connected projects in terms of all energy related aspects. Here EU projects are working closely together with backgrounds e.g. in energy efficiency in buildings and urban structures, sustainable production and use of renewable energy and energy efficient businesses.

For Urb.Energy the Lead Partner German Association for Housing, Urban and Spatial Development (DV e.V.) and the partner Housing Initiative for Eastern Europe (IWO e.V.) brings the findings and results of the Urb.Energy project into the cluster working group. So far the Cluster consortium met in November 2011 and January 2012 in Berlin at TU Berlin.



Main output material of the Energy Cluster will be a compendium on synergies between energy related INTERREG projects that gives a ‘big picture’ of networked solutions for energy related challenges as the logo of the Energy Cluster already shows. The final conference of the Cluster will be held in September 2012 in Oslo.

Further Cluster Partner Projects are the following BSR INTERREG IVB projects:

- PEA: [www.pea-baltic.eu](http://www.pea-baltic.eu)
- Longlife: [www.longlife-world.eu](http://www.longlife-world.eu)
- COOL Bricks: [www.co2olbricks.eu](http://www.co2olbricks.eu)
- SPIN: [www.spin-project.eu](http://www.spin-project.eu)
- BioenergyPromotion: [www.bioenergypromotion.net](http://www.bioenergypromotion.net)
- BalticBiogasBus: [www.balticbiogasbus.eu](http://www.balticbiogasbus.eu)
- remowe: [www.remowe.eu](http://www.remowe.eu)

More Information about the Energy Cluster is to find here: [http://www.longlife-world.eu/cluster\\_en.html](http://www.longlife-world.eu/cluster_en.html)



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## The Urb.Energy Project Partners:

### GERMANY:

- German Association for Housing, Urban and Spatial Development (Berlin)
- Housing Initiative for Eastern Europe (Berlin)
- Center of Competence for Major Housing Estates (Berlin)
- Ministry for Infrastructure and Agriculture, Brandenburg (Potsdam)
- Chamber of Commerce and Industry, Potsdam
- Ministry of Science, Economics and Transport, Schleswig-Holstein (Kiel)

### POLAND:

- City and County Piaseczno

### LITHUANIA:

- Housing and Urban Development Agency (Vilnius)
- Siauliai City Municipality Administration

### LATVIA:

- City of Riga
- City of Jelgava

### ESTONIA:

- Foundation KredEx (Tallinn)
- City of Rakvere
- Baltic Union of Cooperative Housing Associations (Tallinn)

### BELARUS:

- Grodno Oblast Executive Committee, Housing Department

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