



**Baltic Sea Region**  
Programme 2007-2013

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



# Integrated Approaches for Energy Efficient Upgrading of Residential Areas

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# Project funded by the European Union (Baltic Sea Region Programme 2007-2013)

**15 partner organisations in 6 countries of the BSR**

**Germany**  
**Poland**  
**Lithuania**  
**Latvia**  
**Estonia**  
**Belarus**



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# Objective: Concepts and Strategies for the Integrated Energy Efficient Renewal of Residential Areas in the BSR



- Energy efficient refurbishment (EER) of the building stock
  - Modernization of the energy supply systems
  - Improvement of residential environment and public spaces
  - Participation of residents
- Intelligent financing concepts

# Project Background - General

- Need to improve the structural and thermal efficiency of the multi-family housing stock
  - Rising energy prices
  - High potential in the building sector for energy efficiency and use of renewable energy sources
  - Need to embed housing renovation actions into integrated concepts for the revaluation of urban quarters
- **Necessity for energy efficient upgrading of existing residential areas**





# Project Background – EU Energy Policy

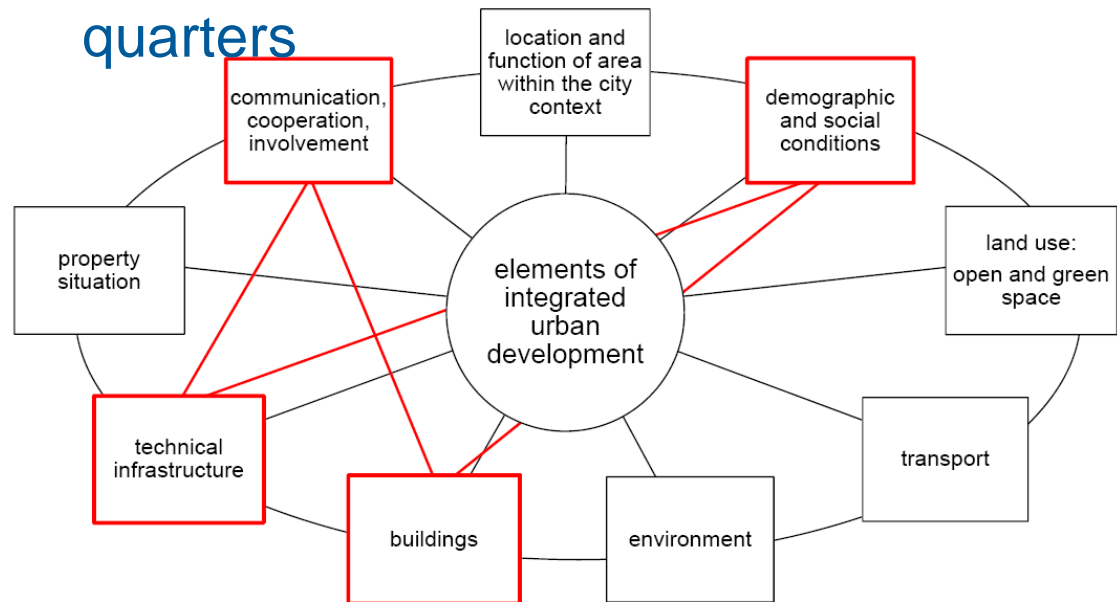
- Amendment of ERDF Regulation (2007/2009): opening of Structural Funds for housing
  - Up to 4% of the national ERDF allocation can go to energy efficiency and renewable energy in housing
  - Programmes funding cooperation on energy issues: Intelligent Energy Europe, Interreg IV etc.
  - Recast of the Directive on energy performance of buildings (2010) – high energy efficiency requirements
  - EU Strategy for the Baltic Sea Region
- **Increased EU support and requirements on energy consumption in buildings**



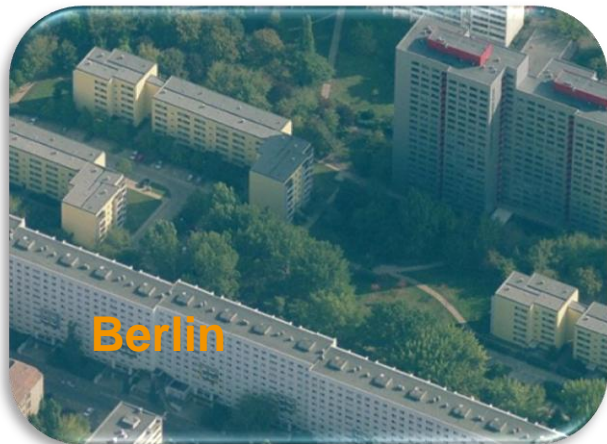
# Urb.Energy applied an integrated approach



- It addresses the overall development of selected residential areas and various interlinked elements of integrated urban development
- It aims to use integrated concepts to improve energy efficiency in urban quarters







Seven selected urban areas (“**target areas**”) + the experience from the federal state of **Brandenburg**

# Project outputs - local

## Target Areas (EE, LT, LV and PL):

- **Transferable concepts and strategies** for the energy efficient and integrated upgrading of residential neighbourhoods in the BSR:
  - **Concepts for EER of buildings and modernisation of the supply infrastructure**
  - **Integrated urban development concepts (IUDCs)**
  - **Analyses of appropriate financing schemes**
  - **Preparatory (technical) documentations for future investments**

## Berlin:

- **Case study: Integrated Urban Development in two Berlin neighbourhoods – Retrospective evaluation with focus on energy efficiency**

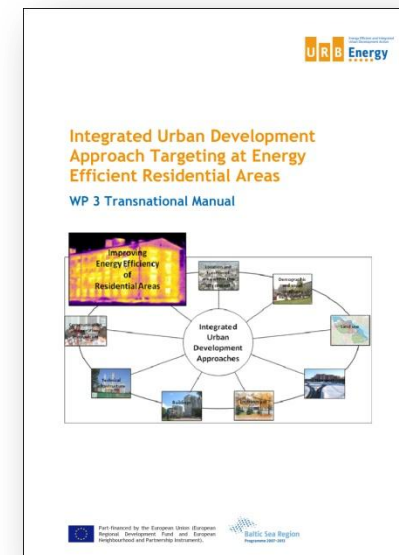
## Brandenburg:

- **Energy efficiency in integrated urban development in Brandenburg – assessment and perspectives**



# Project outputs – transnational (BSR)

- **Summarised results and transnational approaches** are distributed and transferred via:
  - **Manual on integrated urban development approaches** targeting at energy efficient residential areas
  - **Manual on holistic strategies for EER** of the housing stock and renewal of the related energy supply system
  - **Guidelines for innovative use of EU (structural) funds** for measures in the housing sector and deprived urban area
  - **Policy Paper** promoting the issues of IUDC, EER and financing instruments on different political levels
  - **WP-Flyers** summarising main results



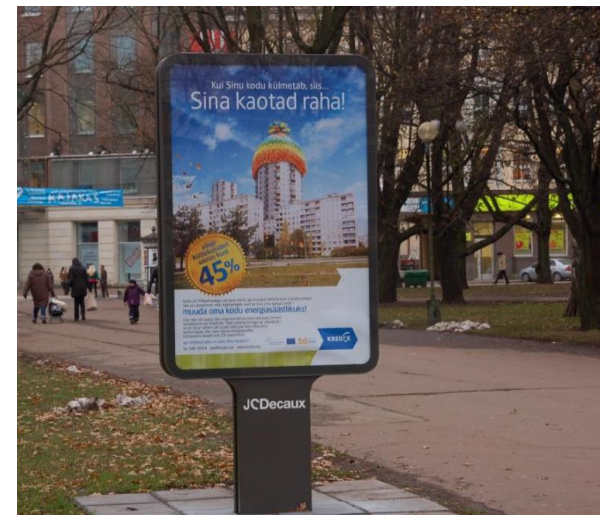
# Findings and Recommendations

- Improved energy performance in the urban and building context cannot concentrate on single buildings or individual actions = various **measures and actions need to be combined**
- The inclusion of **municipal energy related action plans** into the general urban planning framework for cities and communities needs to be promoted
- **Integrated Urban Development Concepts (IUDCs)** are suitable instruments to activate energy efficiency potentials in urban areas
- IUDCs need **approval, active support and commitment of the local council, administrations and energy suppliers**



# Findings and Recommendations

- **Information and participation** of relevant actors are very important!
- **Key actors are residents!** They need to be informed on the benefits of integrated and energy efficient refurbishment measures.
- **Awareness raising activities, information campaigns and technical support** (e.g. by a local agency) are crucial instruments to achieve acceptance of energy efficiency measures in the joint building.



# Findings and Recommendations

- It is important to provide **ERDF funding** to:
  - **Energy efficiency improvements** and **use of renewables** in existing housing
  - Development of integrated, sustainable strategies for urban areas = **IUDCs for energy related modernisation of urban neighbourhoods**
- On the national level, a **combined approach of loan programmes and additional grants** for long-term financial support of EER measures currently the most successful method (Estonia, Lithuania)
- **Municipal revolving funds** combining European, national and local funding possibilities would be a good and sustainable financing instrument – so far not in existence





# Thank you very much for your attention!

[www.urbenergy.eu](http://www.urbenergy.eu)

## Project Co-ordinator

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