



**Baltic Sea Region**  
Programme 2007-2013

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



## **WP 5 „Setting up Financial Instruments – Improved affordability of Investments“**

**Experience with financial instruments for energy efficient  
renovation of residential and public buildings in Brandenburg**

**Claudia Mier**

**B.B.S.M. mbH**

**05.-06.11.2009 – WP 5-Workshop in Tallinn/Rakvere**

## Support programmes for energy efficient renovation in Brandenburg since 1991

- Funding for energy efficient renovation of public and residential buildings
- Different programmes for different stakeholders in the state of Brandenburg ('Land')
  - Loans at reduced rates of interest for residential buildings
  - Subsidies for public buildings
- Besides programmes of the federal government, Brandenburg is also co-financing national funding programmes
- For the future: revolving financing schemes



**Wittstock: energy efficient renovated town hall**



**Lübbenau: energy efficient renovated residential building**

## Focus of support programmes for energy efficient renovation in Brandenburg in 1990's

- Refurbishment of the building
  - e.g. heat insulation roof and outer shell
- Modernisation measures
  - e.g. air tight windows, doors
- Modern heating systems and better regulation possibilities
  - e.g. insulation of piping, harmonized heating temperatures
- Since 1999 funding programmes focus more and more on energy saving and climate protection
  - One of the first programmes was financial support for social housing



B.B.S.M.

**New heating system**



B.B.S.M.

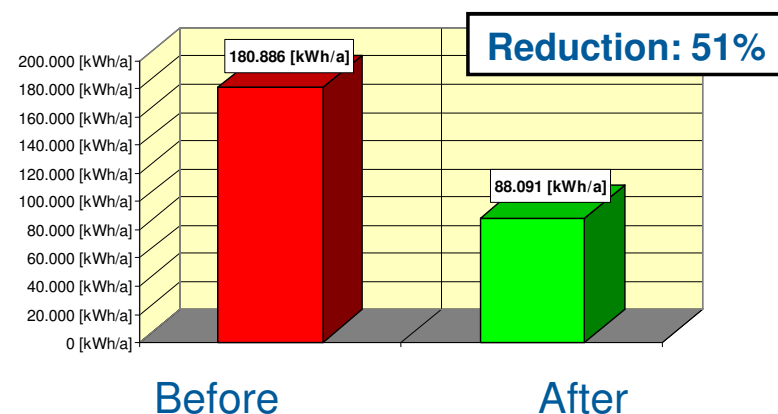
**Insulation of the upper floor**

# Implementation of new instruments to measure the reduction of consumption and CO2 footprint

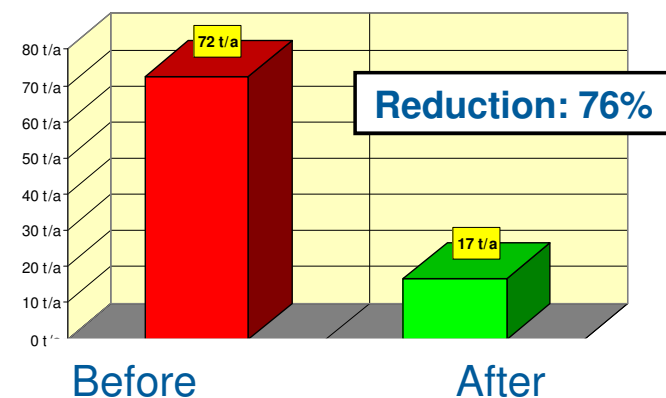
## Energetic Analysis

- Instrument to quantify the efficiency of the supported measures
- Compare energy demand before and after energy efficient renovation
- Possibility to prepare a collection of measures with an energy reduction of 50 - 70% after renovation

Annual energy demand for heating



Annual output of carbon dioxide



# From individual buildings to districts

## Master Plan urban regeneration:

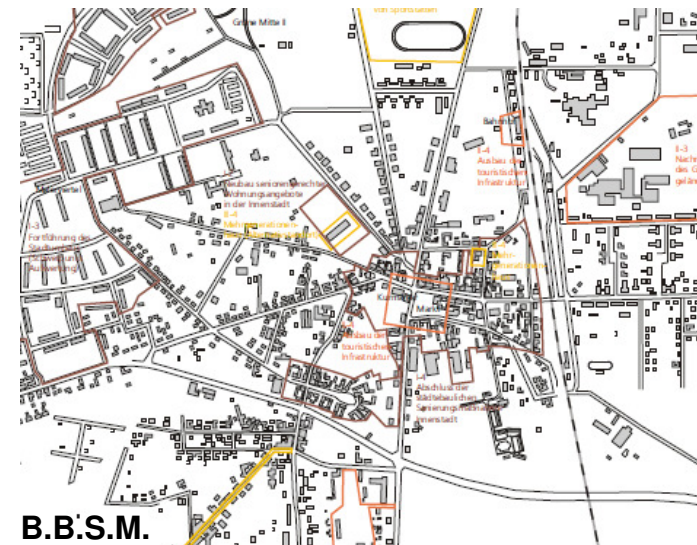
- Next step towards sustainable development strategy in 2006
- Cities in Brandenburg developed a concept of 'integrated urban development'

## Target:

- Integrate individual projects into an overall local strategy

## Outcome:

- Since 2008 funding in Brandenburg is strongly related to the concepts of integrated urban development
- Increased efficiency of funding





# Climate protection in the framework of integrated urban development

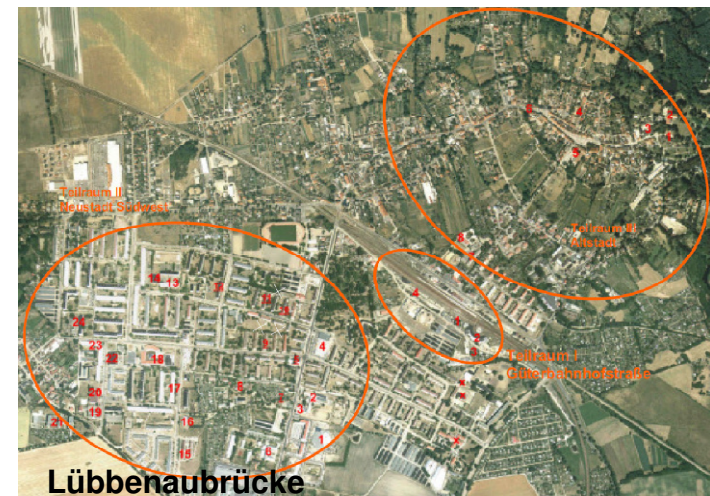
- Increased rate of energy relevant measures up to 50% per supported project
- But the involvement of climate protection is still lagging behind in many of the concepts
- To promote climate protection within integrated urban development is one policy focus of the Ministry for Infrastructure and Spatial Planning in Brandenburg for the next election period

## Good practice in Brandenburg

- City of Lübbenau
  - Realised several individual projects with energy efficient focus
  - Integrated energy concept under progress



**Vetschau: sports hall with solar collectors**



**Lübbenau: individual projects in an overall concept**

## In a nutshell

- Change from a CO<sub>2</sub> side effect of public building subsidies in Brandenburg to targeted measures for CO<sub>2</sub> reduction within an integrated urban development approach
- From subsidies and loans to revolving funds