

# A CLIMATE PROTECTION STRATEGY FOR THE CITY OF BAD HERSFELD

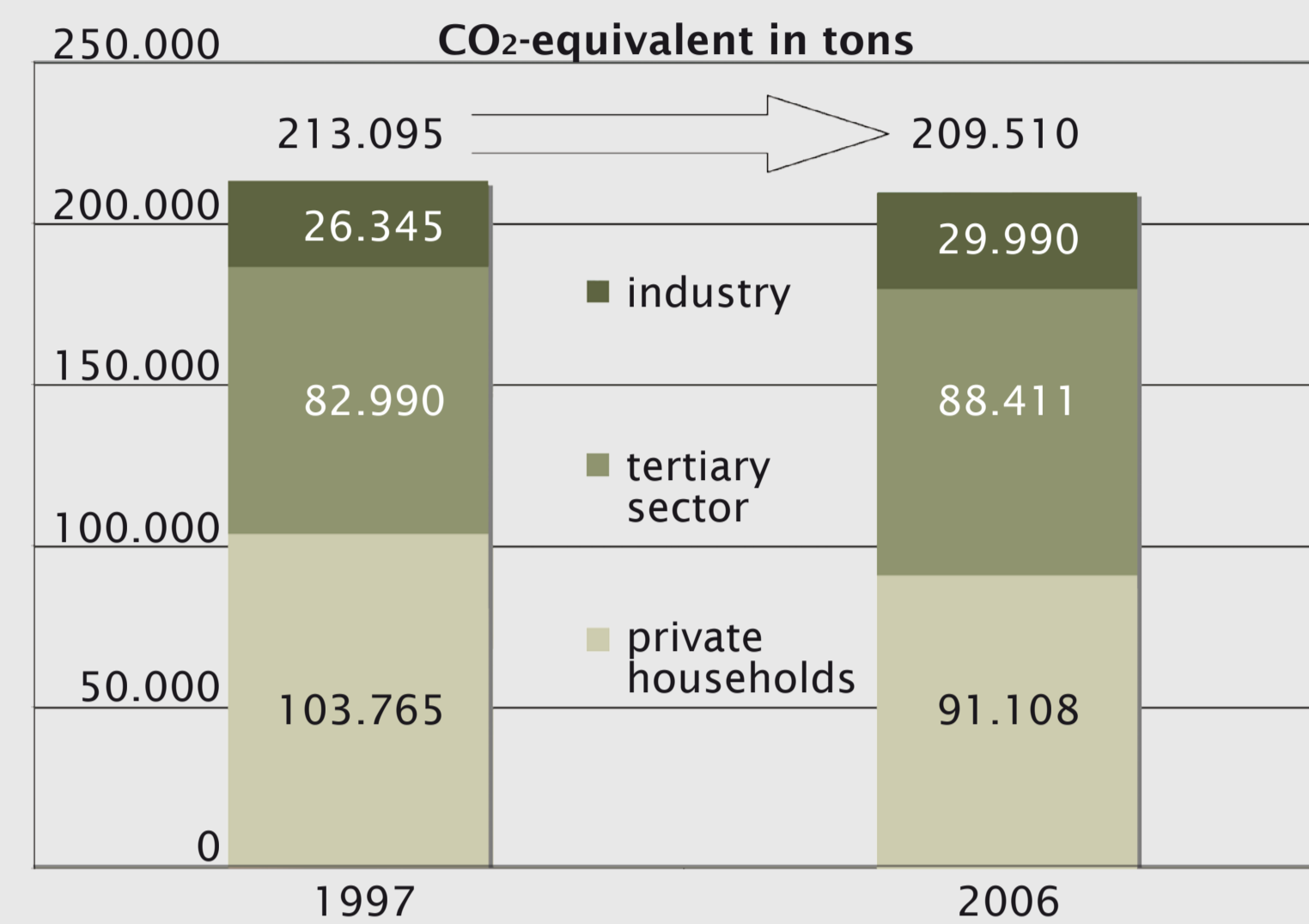


## GENERAL POSITION



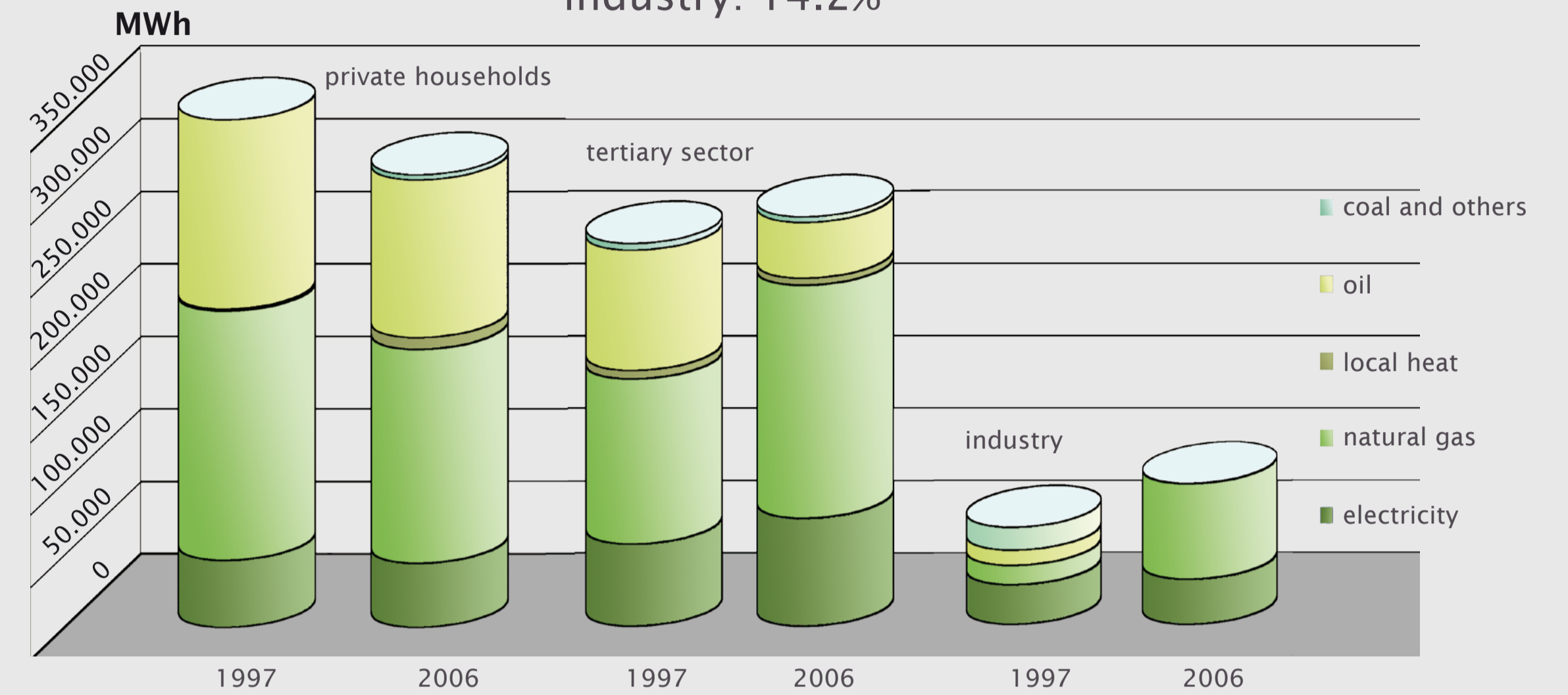
- ♦ inhabitants: 30.000
- ♦ foundation: early 8th century
- ♦ federal state: Hessen, Germany

- ♦ CO<sub>2</sub>-balance: emissions almost constant between 1997 and 2006



- ♦ regional peculiarities: health resort  
annual theatre festival  
many one- and two-family-houses  
existence of old and listed buildings

- ♦ energy consumption: private households: 45%  
tertiary sector: 40.8%  
industry: 14.2%



- ♦ main reduction potentials: existing buildings private sector  
tertiary sector  
municipality as initiator  
municipal utility as initiator

## THE CONCEPT

### climate protection measures per sector

#### PRIVATE SECTOR

- ♦ consultancy for owners and tenants in housing estates with a high level of refurbishment backlogs
- ♦ low energy standard in existing buildings to tap the full reduction potential
- ♦ replacing and optimizing heating systems in existing buildings
- ♦ support programme to promote small combined heat and power systems (CHP)
- ♦ refurbishment measures for special target groups
- ♦ qualified and demand-based Energy Performance Certificate and consultation
- ♦ re-insulation of buildings with insulation thicknesses between 2 and 6 cm
- ♦ information campaign: right heating and ventilation – reducing costs and the risk of mildew
- ♦ energy consulting for low-income households

#### MUNICIPALITY

- ♦ municipality as a leader setting a good example
- ♦ carbon neutral Festival Bad Hersfeld

#### SHARED MEASURES

- ♦ refurbishment fund for existing buildings
- ♦ wood energy campaign
- ♦ citizens' investment in energy efficiency measures and solar energy in schools
- ♦ regular roundtable on energy issues

#### MUNICIPAL UTILITY

- ♦ energy services campaign

#### TERTIARY/SERVICE SECTOR

- ♦ addressing specific sectors with information on reduction potentials
- ♦ refurbishment market / refurbishment trade fair for house owners

#### INDUSTRY

- ♦ saving energy through efficient lighting, cooling etc.

## ACHIEVEMENTS

- ♦ The local authority and the municipal utility will have invested 400.000 Euro each for the first three years (2008 - 2011) for implementation.
- ♦ A climate protection officer has been appointed as responsible person for the implementation and monitoring.
- ♦ Examination of an existing utility-supplied heat network whether an energetic improvement will be ecologically and economically worthwhile.
- ♦ A roof for the installation of a solar plant with a capacity of 2.5 MWpeak has been located. A model of civic participation for its realisation is under way.

## OUTLOOK

- ♦ For further implementation steps, a detailed analysis has to be continued, to allow a profound forecast regarding the profitability and the contribution to climate protection of the different measures in their specific configuration.
- ♦ Most of the measures that were developed for Bad Hersfeld can be translated to other cities and towns and adopted to different regional specifics.