

New local climate protection instruments - Heidelberg

Dr. Eckart Würzner

Deputy Mayor for Environment and Energy



Heidelberg - European Sustainable City 1997 and 2003



Heidelberg – facts and figures

inhabitants: 140.000

jobs: 94.000

Universities:

- Ruprecht Karl University with 9 faculties
- Teacher Training College
- Conservatory
- Academy for Jewish Studies
- University of Maryland
- Pepperdine University

Medical Care:

- 14 university clinics
- 10 hospitals
- 3 rehabilitation centers

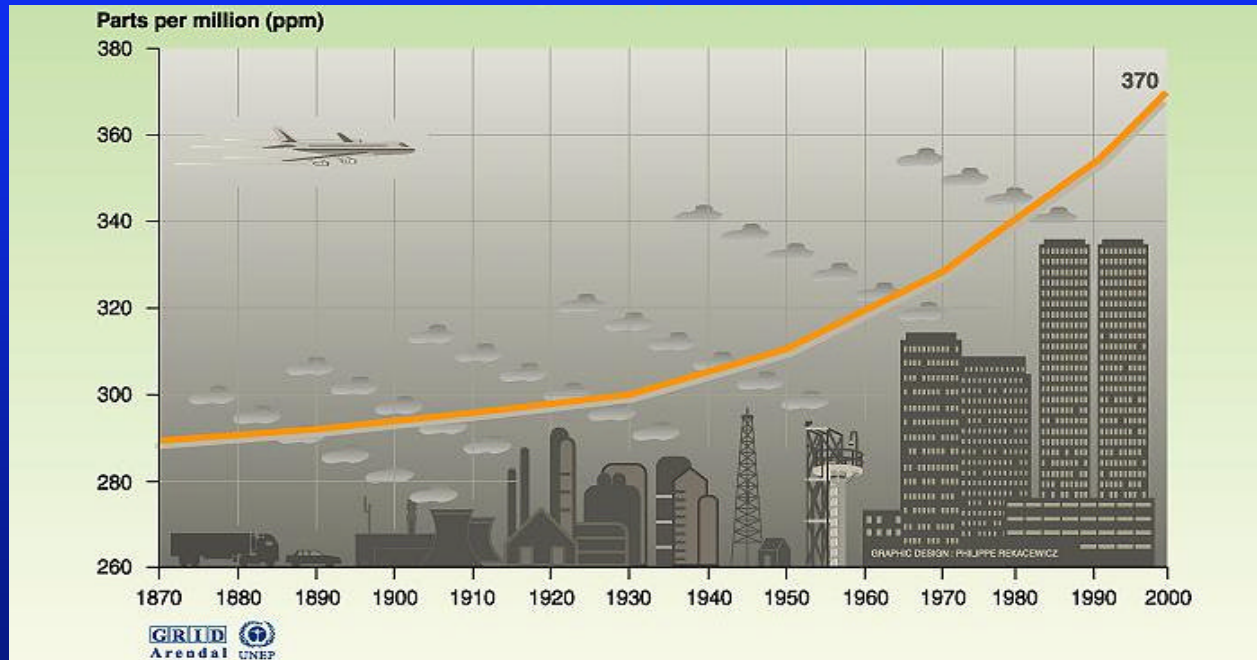
Tourism:

- 3.3 million visitors a year
- 74 Hotels (9 first class)

Culture:

- 4 theatres
- 2 symphony orchestras
- 12 museums
- 14 art galleries
- exhibitions, cinemas, libraries

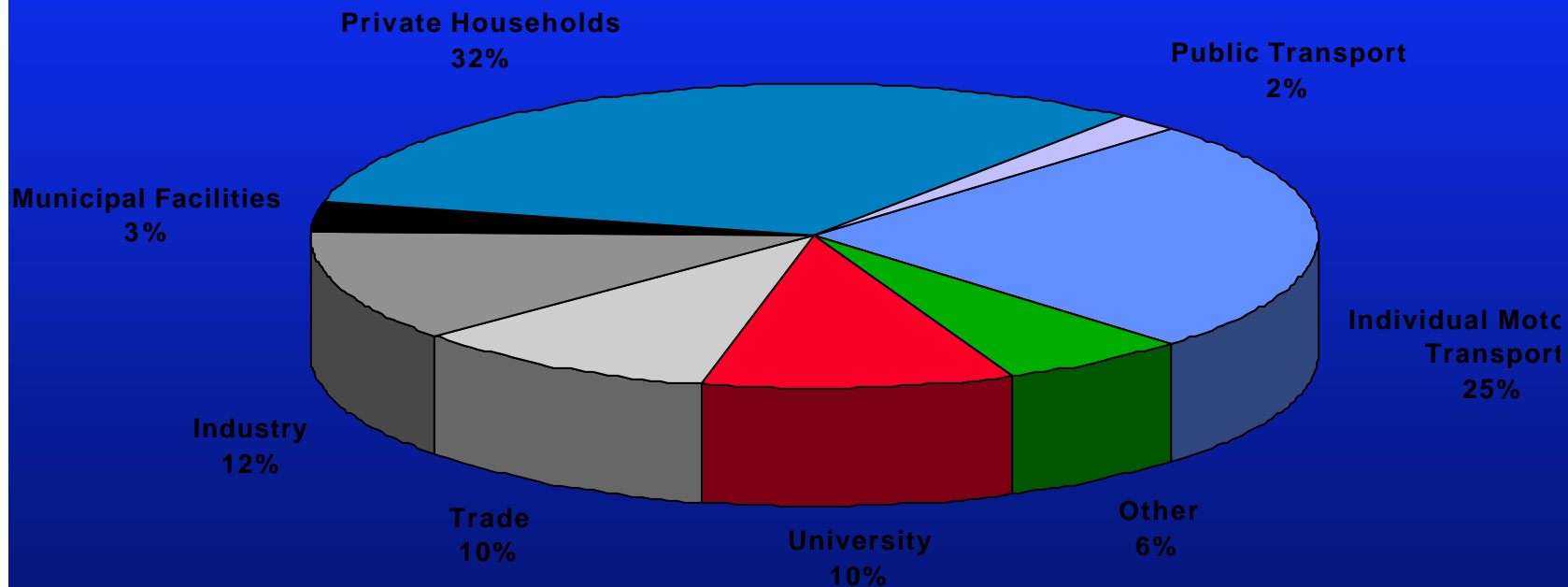
CO₂ Konzentration 1870-2000



Quelle: IPCC: <http://www.ipcc.ch/pub/nonun.htm>

CO₂-Emissions Heidelberg

1.18 Mio t / a



Partnership Approach in Heidelberg

Objective Rio Agenda: In co-operation with their citizens, the towns and cities should achieve a consensus and promote the participation of women and young people in the decision-making, planning and implementation processes.

Partnership Approach:

- -City Development Plan Heidelberg 2010
- -Public campaigns on climate protection and waste
- -Traffic forum, realisation of the Traffic Development plan



➤ MUNICIPALITY AS A MODELL AND REGULATOR

Climate Protection Management



Energy Management/ Controlling

Analyse the building for energy savings
Training of caretakers

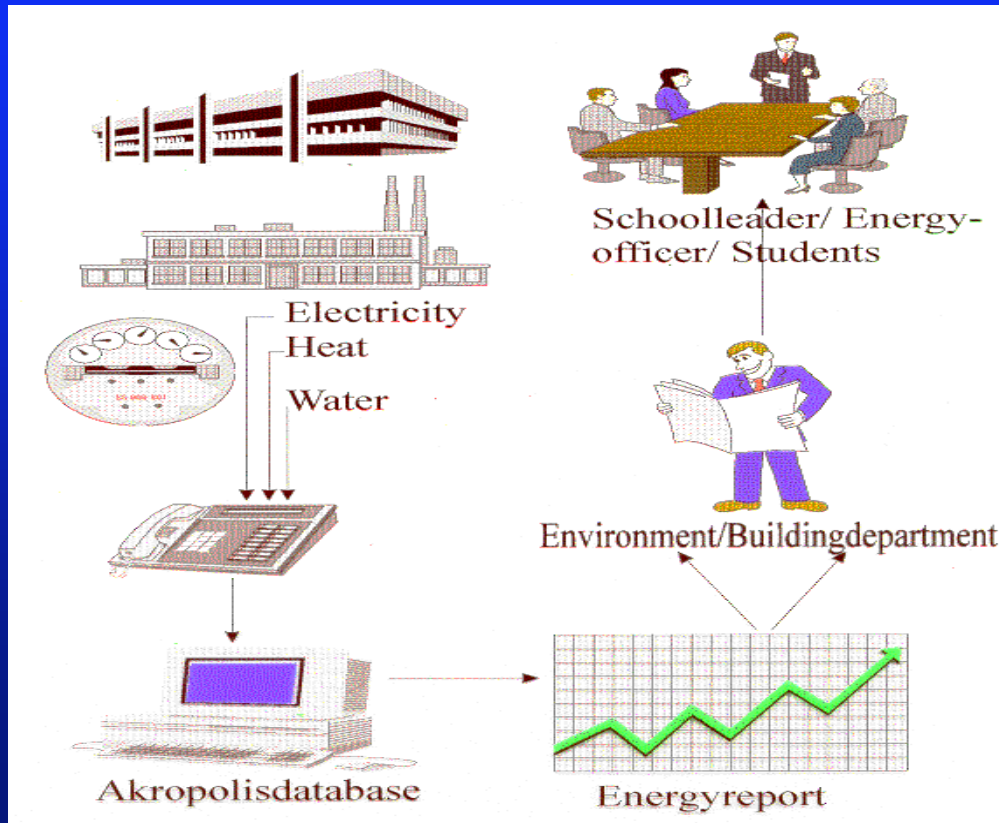
By Green electricity (100% for all kindergartens and schools)

E-Teams at schools since 1995

Energy-optimised urban planning

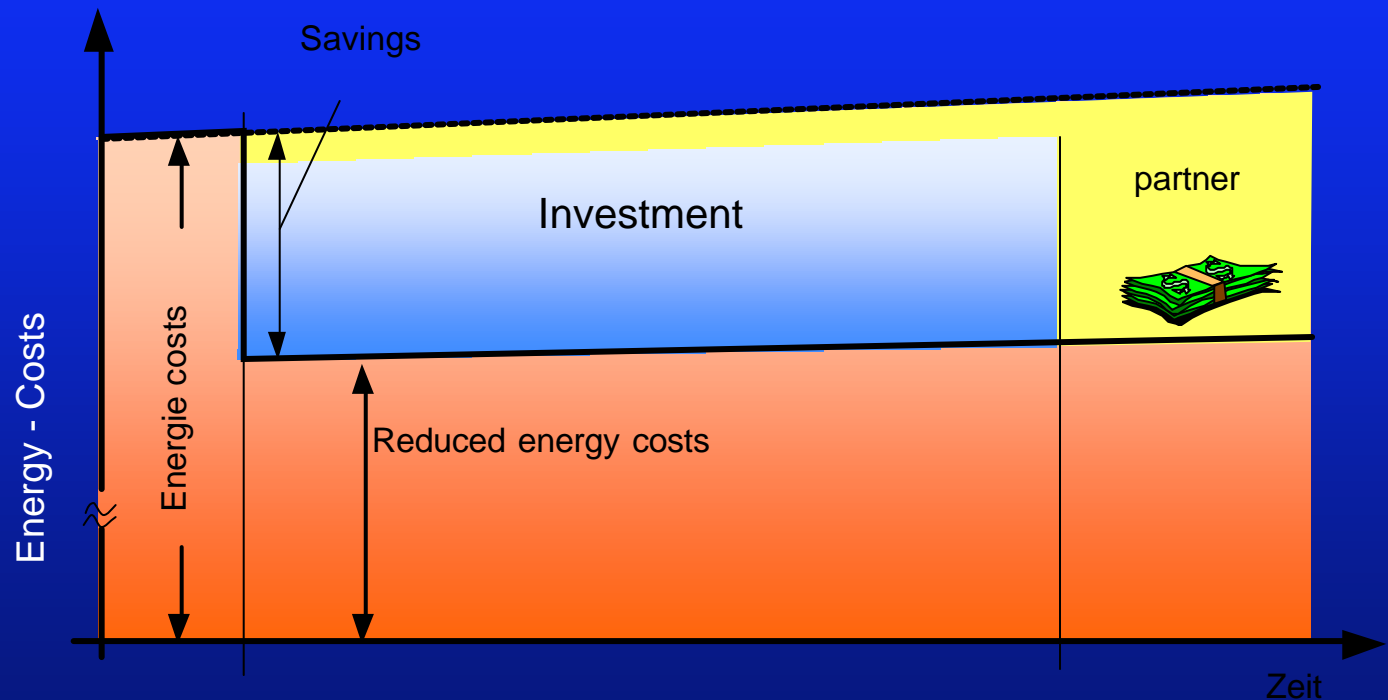
Best Practice Projects (energy saving projects and renewables)

Example: Energy Controlling since 1994



What can you do, if you have no money?

PPP/ CONTRACTING



E-Team-Project since 1994

- Win Win (40/40/20)
- Energyinfomobil
- Material
- Solarbootsupport

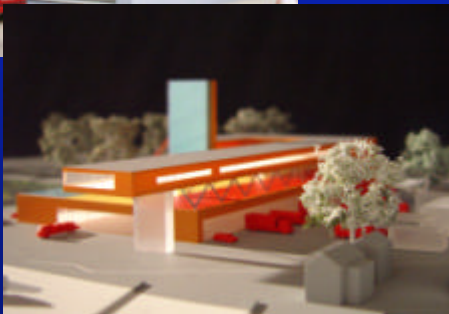


Energy Efficiency: Modell Projects

Heidelberg Building Standard
1992 and 2005 (technical
standard 30% lower national
standard)

Examples:

- **5L -Low energy houses 1992**
50% better than legal standard,
- **2L Passive-house** standard since
2005, sportsgym and world first
firebrigade



Renewables

PV/ Bio/ Water

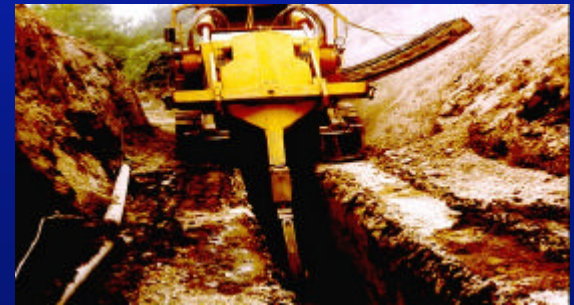
- 1,1 MW installed
- 750 Euro units VHS
- generell 100 kWp



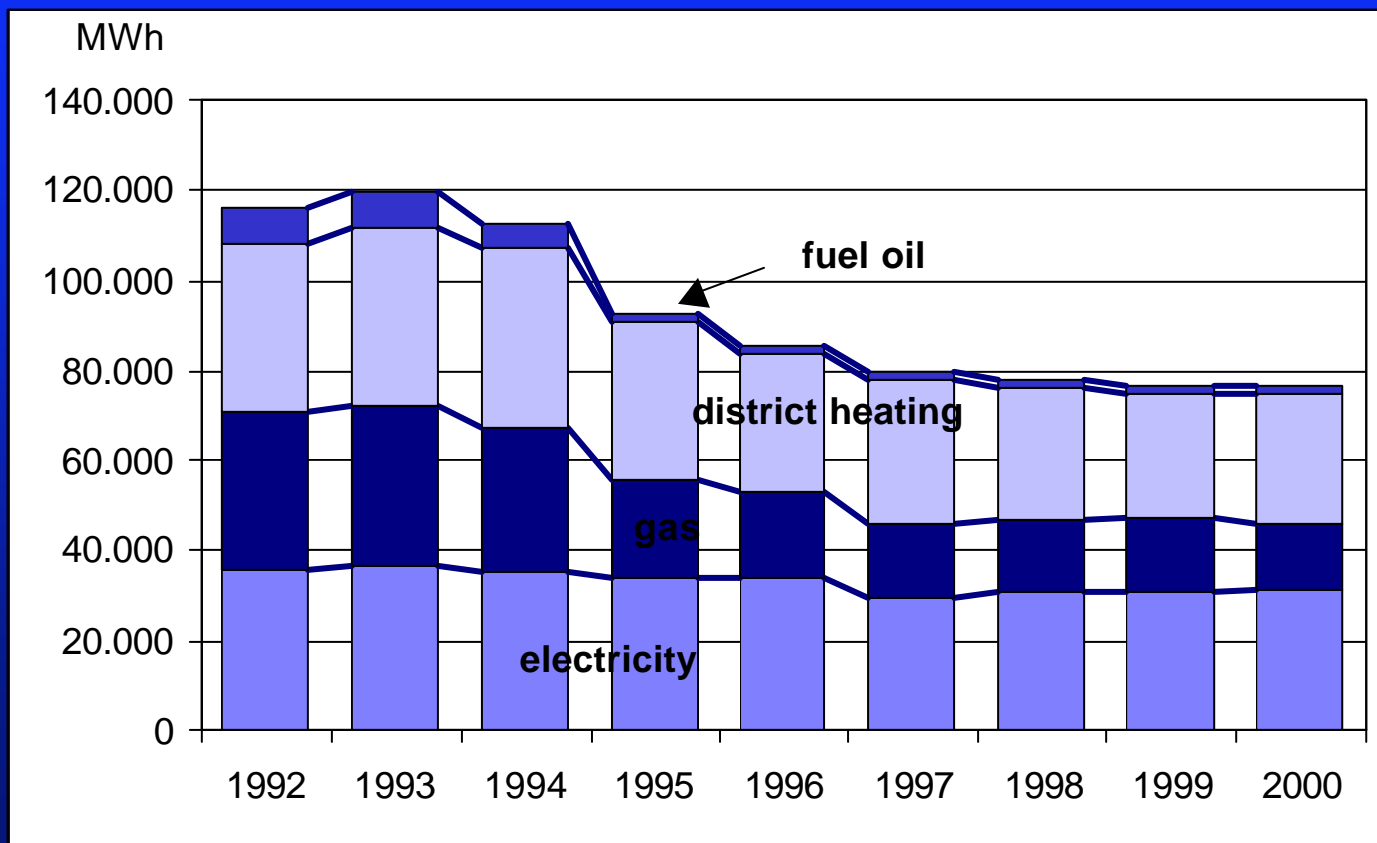
Climate Protection Zoo



- 450.000 Visitors
- Heat the zoo with camel- and tiger excrements
- CHP 155kW, Biogasplant 23 kW,
- Education-program:
Zoo-Energy-Rangers



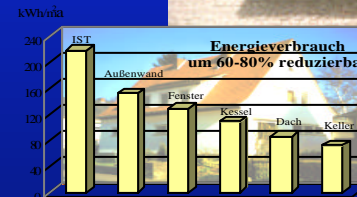
Result: Energy Consumption of Municipal Facilities –38%



➤ MUNICIPALITY AS A MOTIVATOR

Advisory and Incentive

- Newspaper articles. Family Pepp
- Energy-Advisors since 1993.
- Advice-Info-Mobile
- Energy Efficiency Incentive Program
- Renewable Incentive Program
- Energy fares
- German-Solar-Boat-Race



SME- Partner-Project

Collins & Aikman Automotive Systems GmbH
Autohaus Opel Dechent GmbH & Co KG
Alfa-Romeo & Saab Windisch GmbH
H. u. G. Schulz Heizungsbau GmbH
Winterbauer GmbH Bedachungen
Raschke Elektrotechnik GmbH
Jelinek Automobile GmbH
Lang Holzbau GmbH
Linse GmbH & Co KG
Auto-Mai GmbH
Auto Kocher KG



Workshop-steps



8. Sustainable Future: New Cooperations,
Products, Empl. Concept

7. Communication, Reports

6. Management: Responsible, Controlling

5. Product: Env. Product, Information, Communication

4. Waste: Wastemanagement, Concepts, Sewage

3. Climate Protection: Energymanagement, Traffic, Logistic

2. Purchase: Legal Basic, Poison Material, Legal Basic, Store

1. Fundamental Workshop: ISO, EMAS..

➤ NEW NETWORKS AT LOCAL LEVEL

Energy Table

New solutions for retrofitting

- *INPUT: Topic, coordination*
- *Participants:*
- City of Heidelberg
- BUND, Energiewende e. V.
- IHK
- Craft and Trade Chamber
- Architects
- Crafts Chamber
- Building Companies
- Utility

1 Year



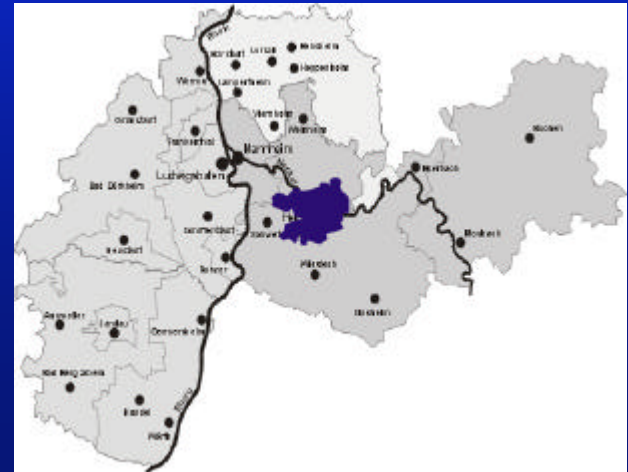
New Energy Agency Heidelberg-Neighbourhoods since 1997

- Energietable-members in steering committee.
- Supported by EU.
- The energy agency provides advice, manages energy supply contracts, establishes electricity purchase pools etc.



217 kWh/ m² /a
= 54 kWh/m²

560.000 inhabitants

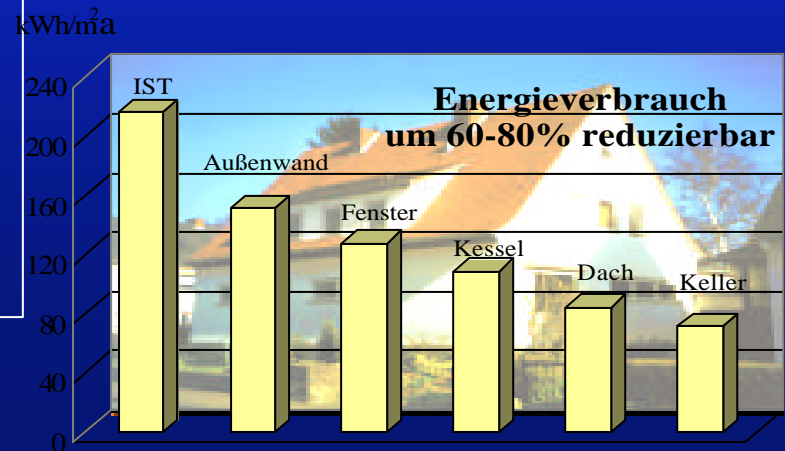


➤ NEW NETWORKS AT METROPOL LEVEL

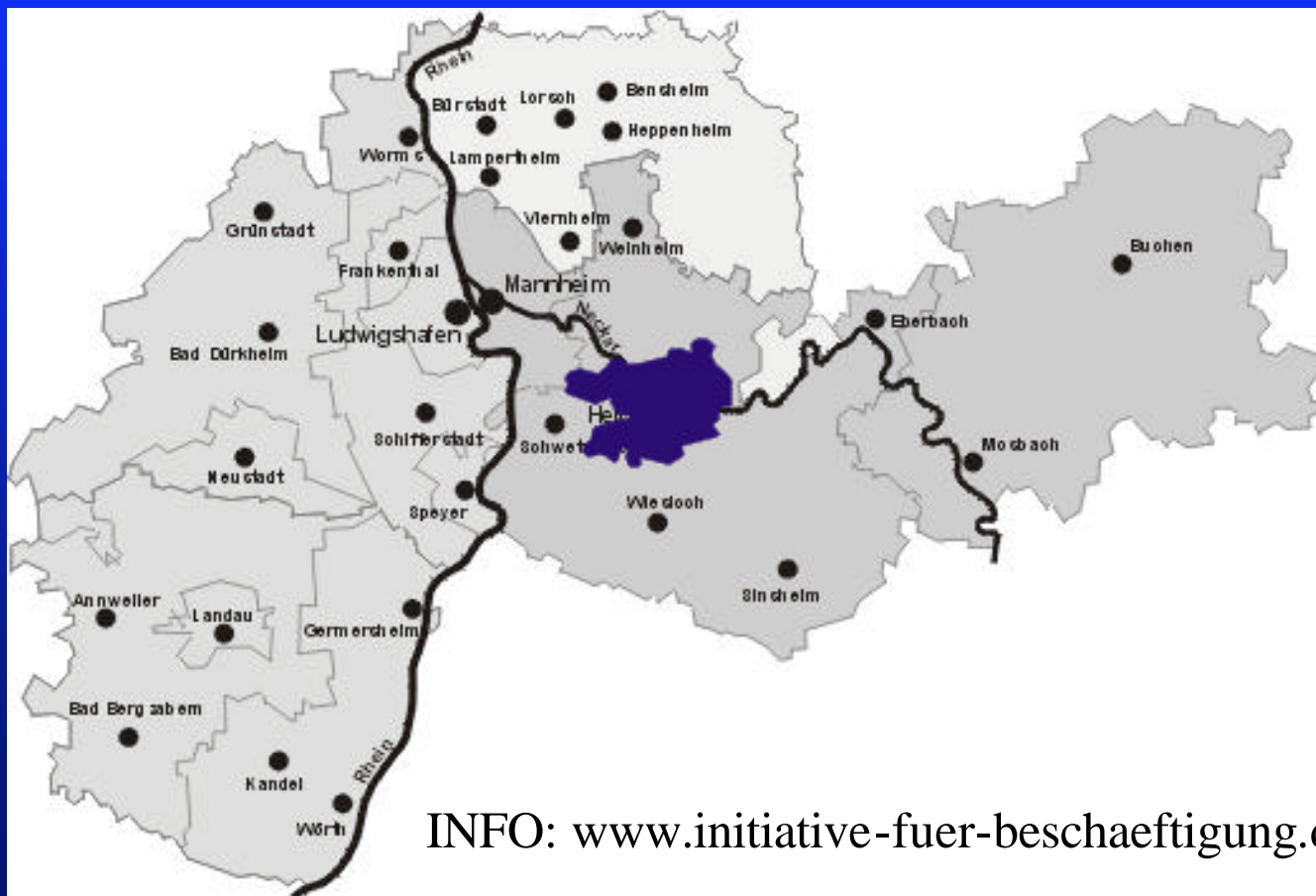
Employment Table

New Metropol-Energy-Agency since 2001

- 79 % of all buildings have an energy saving potential of 60-75%
- Retrofitting rate 2-3%
- Investment: 115 million euro/a
- Employment: + 1100
- Win-Win



Energy- Efficiency Agency E2A Service Area (1,1Mio inhabitants)



INFO: www.initiative-fuer-beschaeftigung.de

➤ NEW COOPERATIONS/
NETWORKS AT NATIONAL
AND INTERNATIONAL
LEVEL

International Cooperation

HEIDELBERG CONFERENCE

**„HOW TO COMBAT
GLOBAL WARMING
AT THE LOCAL LEVEL“**

— *September 7 - 9, 1994* —

**KLIMASCHUTZ
HEIDELBERG**

...gemeinsam gegen dicke Luft



Result Heidelberg Conference 1994

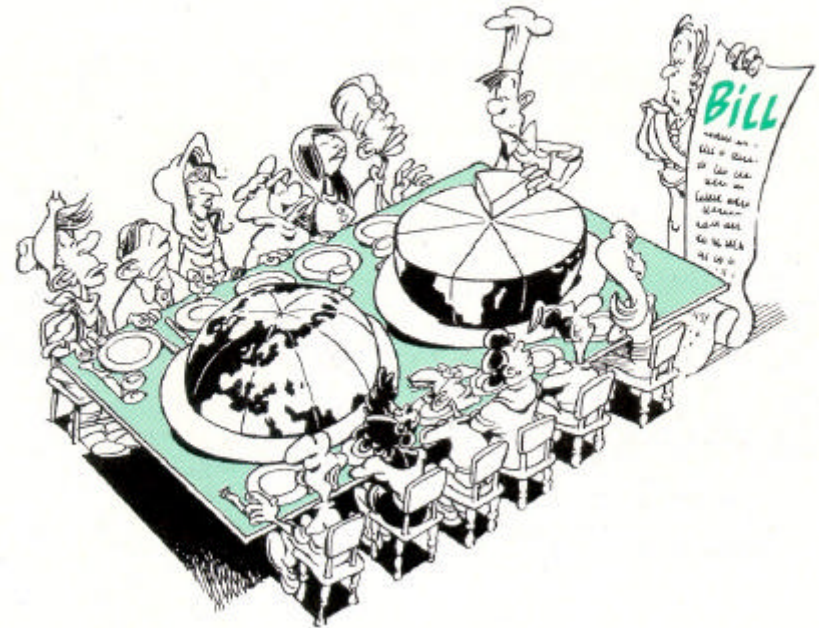
- Supported by ICLEI and OECD
- Self commitment: HEIDELBERG DECLARATION
- -20% CO₂...



Follow up Conference 1997

- Close cooperation with ICLEI and the CCP-campaign
- What we achieved!
- Experience exchange
- Closer personal relation
- Next steps

If the whole world starts consuming more and living the good life, can the planet stand the strain?



Heidelberg-Conference 2001

City to City Twinning for Climate Protection

Already now, more people flee from environmental disasters than from war.

1. Develop a framework for proactive, long-term partnerships and

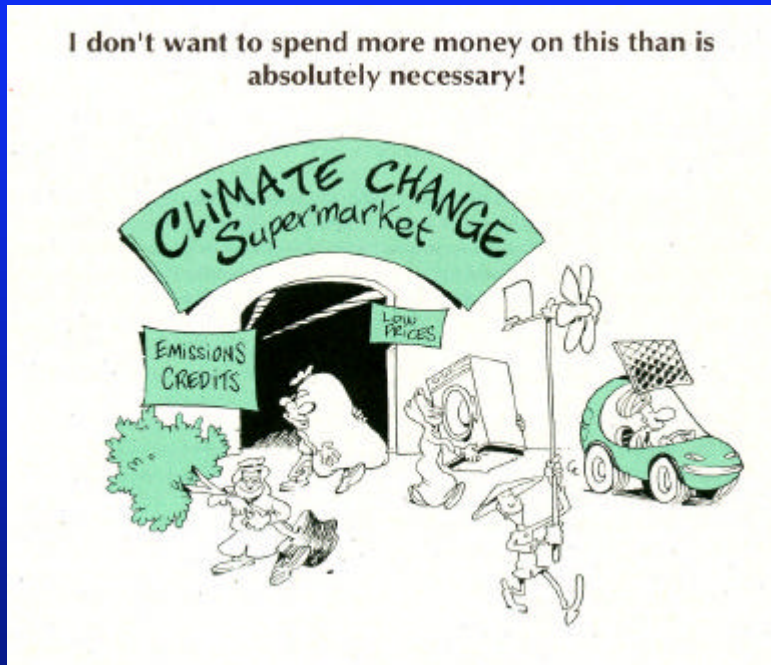
2. Exchange technical information and assistance on reducing GHG emissions.

We need a structure of such twinning schemes so that the partner local authorities derive maximum benefit from the exchange.



CCP Campaign

New Milestone (Twinning)



- Collaboration on CCP Project
- Utility Deregulation
- Emissions Trading
- Demand Side Management
- Renewables Projects
- Environmental Awareness & School E-Teams

6 Milestone for Heidelberg

Little Heidelberg Forest in Brazil

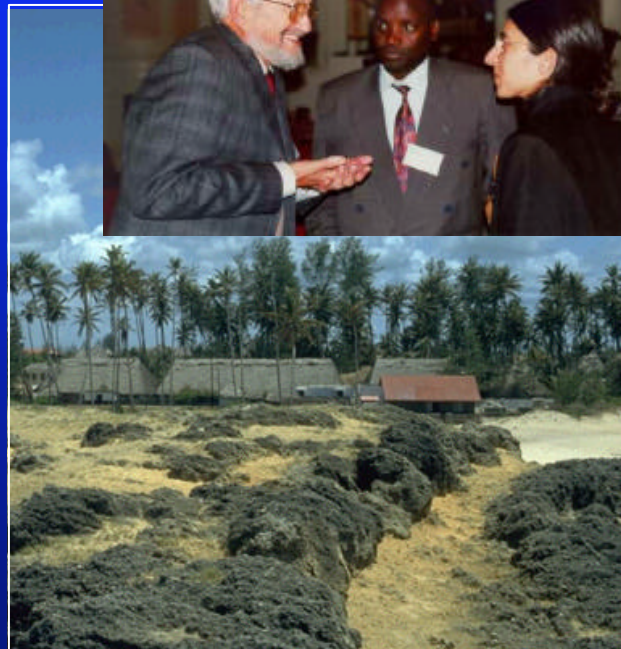
- Heidelberg – Parana
- Reforesting deforested areas in Southern Brazil
- Heidelberger citizens donate money for this project und the motto „One Euro for one tree“
- under the management of BUND
- Think global act global



6 Milestone for Heidelberg

Ecological Farming Gikonko/Rwanda

- Heidelberg – Gikonko Region
- Increasing productivity by ecological stabilisation and intensification
- Mixture of arable farming, forestry and livestock farming
- Co-operation with Mayor Justin Semanyenzi and the Heidelberg Association for the Promotion of Ecological Farming in the Tropics (Horst Fehrenbach)



Benefits from City to City Twinning

- Opportunity for multi-cultural exchange
- Forum for sharing expertise and gaining problem solving experience
- Means of garnering recognition for assisting other local governments in climate protection
- Personal professional growth on the part of the officials and staff taking part
- By including the private sector, a chance to increase the economic opportunities available to businesses in your city.

Nothing without our Network partners

ICLEI

- ICLEI Member since 1994
- Energié Cités Member since 1996
- Climate Alliance

