

## **Our Target : climate protection – winning the future**

- Save direct / indirect energies and reduce CO<sub>2</sub> + other emissions.
- Get in contact with many people
- Create a better awareness energierelevant actions and processes
- Improve climate relevant behaviour.

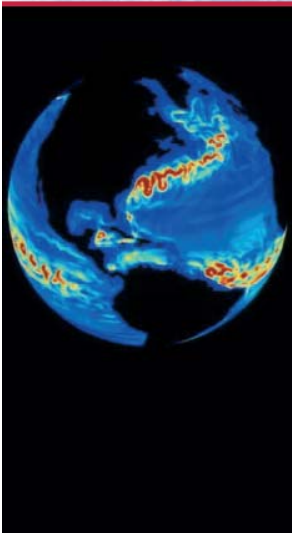
## **Typical fields of projects**

- Education and investive actions for rationel energy uses and renewable energies.
- 300 projects in 6 years.

## **Our company strukture:**

- Social GmbH, founded 1997  
sbsidies of 2-3 Mio. € per year
- Owners in Public-Private-Partnership :  
swb AG, EWE AG, German Essent GmbH, Free Hanseatic City of Bremen

## We support projects



Bremer Energie-Konsens has supported 300 Projects in 6 years :

Projects, that serve rationell use of energy or the introduction of renewable energies

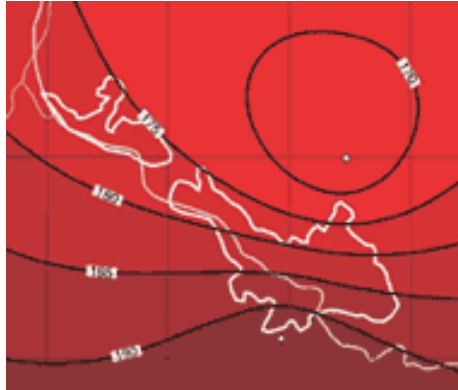
Projects „close to the market line“ (not profitable so far)

Projects with modell character (no support for everybody or already introduced techniques in Bremen)

The projects should be relevant for Bremen.

We support projects that will have a positive public echo and will motivate multiplikators.

# Potenzial studies for renewable energies



**Geothermie Atlas  
for Bremen**



**Biogas to earthgasnetwork**



**Heat from wastewater –  
The new energy source**



**Wood-pallett study**

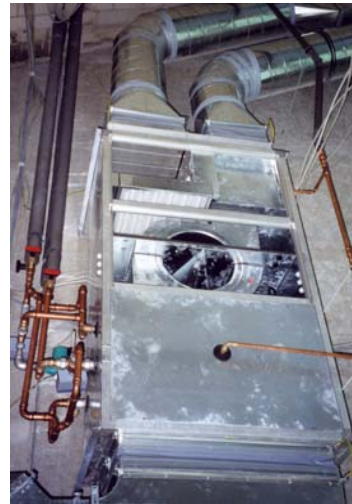


**Solar Heating**

# Modell projects Renewable Energies in Bremen



**Photovoltaik  
Cafe Ambiente**



**Climate with earth  
coolness in Floratrium**

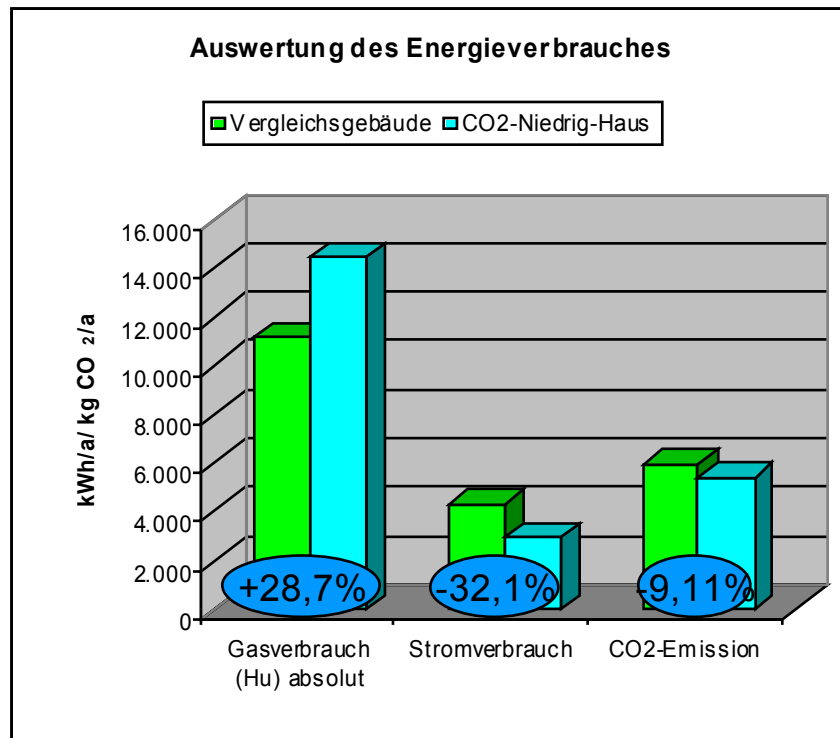


**Woodpellet heating  
system Bavendamm**

# Neubau: CO<sub>2</sub>-Niedrig-Häuser in Brokhuchting

## Earthgas instead of electricity :

10% CO<sub>2</sub>-Reduction  
only 0,5% more costs



# Europes first school in Passivhousestandard in Bremen

## Waldorfschool Parsevalstreet

Inauguration May 2001

### Heat energy consumption

14,7 kWh/m<sup>2</sup> per year (is 1,47 l  
oil/m<sup>2</sup>)

Most schools in Bremen need to  
times as much.

### Details

classenrooms to the south to use  
solar energy

.30-40 cm insulation and 3-times  
glas windows

Ventilation for fresh and filtered air.

50 meter deep earth holes bring  
heating in winter and cooling in  
summer.



Every schoolboy or girl is heating  
the house as natural heating  
source - comparable to a 60 W.  
Solarsystems give hotwater and  
electricity  
rainwater for the toilets.

# Energieeffizient Old House: Renovation Bürger 202



In Germany first house with special quality seal  
„Plus for work and Environment“

Special seal for building projects, that keep  
standards in climate- and environmentprotection

Additional insulation:  
Energyconsumption of 24-family-house  
reduction of CO2 by 70 %.



# Energiereduction by recycling of houseparts: Bauteilbörse Bremen

Recycling of used houseparts

CO<sub>2</sub>-Reduction ca. 60%

Houseparts-Datasource in the internet:

[www.bauteilboerse-bremen.de](http://www.bauteilboerse-bremen.de)

Targetgroups:

Private people, Handicraft, Demolish companies,  
Building companies, Planningoffices and  
administration

„bauteillager bremen“

many reusable house parts to buy on the spot



# Climatehouse Bremerhaven

Edutainmentcenter according to the highest ecological standards

Serving as an example for best energy concepts

Investvolume is ca. 70 Mio. Euro. To be opened in summer 2006.

Energie-Konsens helps to realize the special planning process

CO<sub>2</sub>-Efficiency for extremely high conditions for the House- and climate technique

Integration of renewable energies

Coaching and support for the investors, integral Planning, innovative CO<sub>2</sub>-minimised energykoncepts, controlling, studies to CO<sub>2</sub>-emissions and personal bilanz of the visitors, dokumentation and publishing of the results.



# Energieeffizienz in offices + industry: Initiative „company-impulse“



\* Umfasst die bereits im Umgang mit dem Steckkontaktgerät Energie. Das schließt die Umwelt und bringt finanzielle Vorteile. Unsere Aktionswoche macht Sie „E-Fit“ und zeigt Ihnen, wie Sie Ihre Energieeffizienz steigern können.



- Energy costs in companies are too high.
- Studies and projects show, there are major potentials for reduction up to 30%
- To show these potentials and support companies achieve better results
- to motivate stakeholders in companies and industries with different instruments to realize measures for energy reduction and to accompany them during realisation
- Bremen is best practise case in Germany

Energie-Analyse kompakt  
kostenlos für mittelständische Unternehmen



Einfach Energie und Kosten sparen

GEWERBE MPULS

Internet-Energie-Check  
für kleinere Betriebe



Einfach Energie und Kosten sparen

GEWERBE MPULS

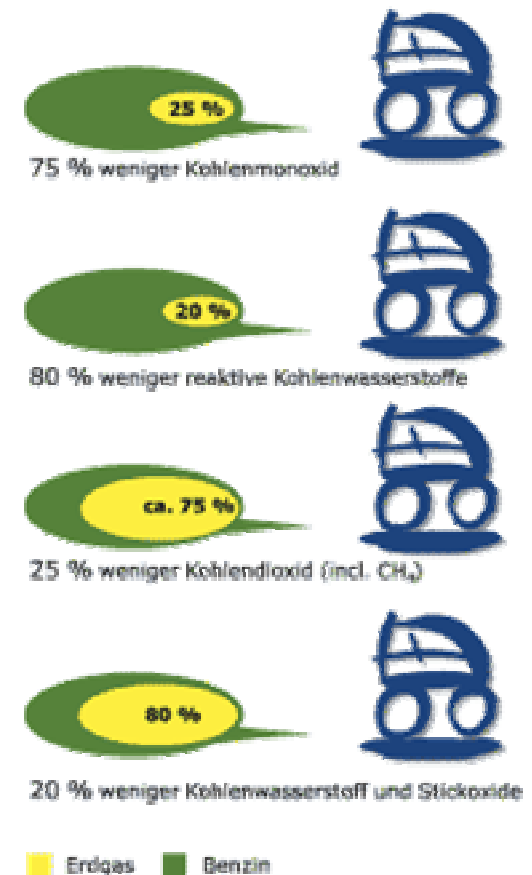
# Environmentally friendly Traffic: Bremen Initiative. Earth gas mobile



- 3 year support programm
- up to 2.500 € to buy an earth gas mobile or switch from petrol
- Target for the support programm:  
3 times more earthgas mobiles in Bremen and Bremerhaven til 2005
- Bremer Energie-Konsens und swb Enordia



PKW Abgasemissionen im Vergleich Benzin-Erdgas



# Change consumers behaviour

## Energy saving competition

Competition of 7 apartment blocks for seniors of the Bremer Heimstiftung

### Targets

- Reduction of Energy- and waterconsumption 10% establish sustainable energyreduction
  - transferable organisationsstruktures for other senior homes and hospitals
  - create a seal
  - integrate energysaving behaviour in education plans of the school for nurses
  - promote energieeffizient behaviour in the private sector
- **Result after 2 project years**
- 1,8 Mio. kwh heat
  - 28.000 kwh electricity
  - 9.200 m<sup>3</sup> water
  - 107.000 € running costs

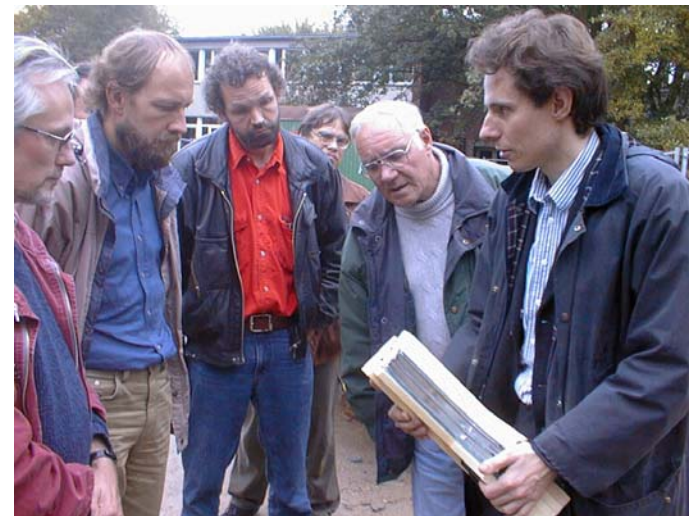


# New building impulses through education of architects and engineers

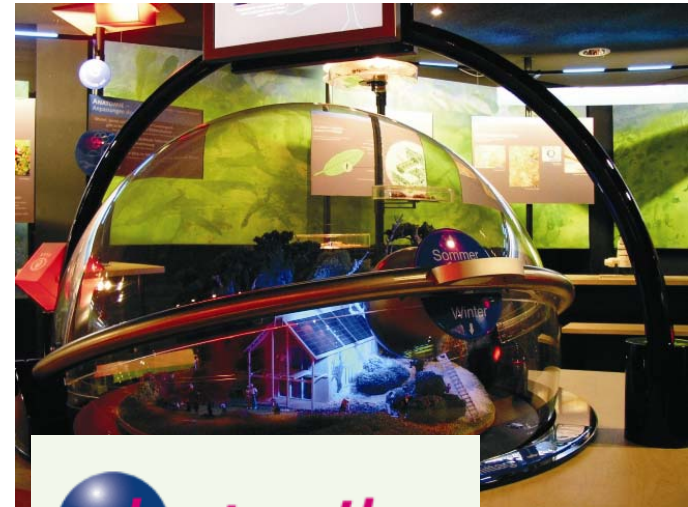
With „Bremen Impulse: Building + Energy “ the Bremer Energie-Konsens wants to transfer Know-how about energyefficient buildings into every day life.

Experts, families and tenants shall be trained to integrate environmentally friendly and enrgy efficient techniques in the building and renovation process.

During the first 3 years we already had more than 2.500 participants..



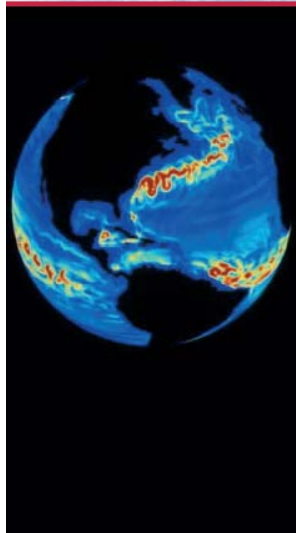
# Knowledge transfer: multifunctional Exponats or Seminars



## Educate the children

- Bremen Competition „**Youth invents**“  
Special price „Energy and climate protection“
- **school project 3/4plus**
  - successful energy- and waterreduction in 155 schools in Bremen and Bremerhaven
  - since projectstart 1994
    - heatenergyreduction: - 30 %
    - waterconsumption : - 20 %
    - CO<sub>2</sub>-reduction: ca. 26.500 tons
- **transfer of ideas for climate protection**
  - like energy theatre for primary schools
- **support of Solar 4 School**
- **scholarships**





Further informations:  
<http://www.energiekonsens.de>

**Bremer Energie-Konsens GmbH**  
Am Wall 140  
28195 Bremen  
Tel.: 0421/37 66 71-0  
email: [info@energiekonsens.de](mailto:info@energiekonsens.de)