

BASF's Strategy on Energy-Efficiency and Climate Protection

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 **BASF**
The Chemical Company

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Reduction of greenhouse gases

Groupwide Goal:

2002-2012:

Specific terms: **-10%***

* Specific terms:
greenhouse gas emissions
per ton of sales product

Reduction of GHG
emissions:

1990-2002:

Absolute terms: **- 38%**

Specific terms: **- 61%**

Status 2006:

2002 - 2006:

Specific terms: **- 12.4%**



BASF Strategy based on 5 pillars

Energy-Efficiency & Climate Change

Verbund



**Gas turbine
plants**



**Energy-
efficient
processes**



**Energy-
efficient
products**



**Technology
Transfer**



BASF Verbund and State-of-the Art Energy Generation

BASF Energy Verbund

- ↪ Heat from production processes power downstream production plants
- ↪ BASF generated **45%** of its global steam requirements from waste heat in 2006
- ↪ saved **1.6 million** metric tons of oil equivalents globally



State-of-the-art energy generation

- ↪ Combined cycle heat and power plants are front runners among energy conversion methods
- ↪ Fuel efficiency rate of almost **90%**
- ↪ Worldwide more than **75%** of the electricity is produced by CHP plants



Products for Energy Efficiency and Climate Protection

- ↪ Energy saving homes with BASF technologies contribute to lowering CO₂-emissions
- ↪ BASF fuel additives reduce yearly CO₂-emissions by about 12 million tons globally
- ↪ Plastics in cars reduce CO₂-emissions by 9.2 million tons in Western Europe
- ↪ OLEDs half electricity consumption and lower lighting costs for the consumer
- ↪ Chemical solvents remove carbon dioxide from power plant flue gases



Technology Transfer

First German company to join the Community Development Carbon Fund of the World Bank

2006 CDCF signed an agreement with the Kenyan energy supply company to finance the construction of a geothermal energy plant



Supply of catalysts to reduce nitrous oxide emissions at adipic acid production to PetroChina Company

- Reduction of more than 10 million tons of CO₂ yearly
- This is more than 1/3 of BASF's groupwide CO₂ emissions



Summary

- With our know-how and products we contribute to global climate protection
- Only competitive industries can provide solutions to climate protection
- Climate Protection is a global issue that calls for global solutions
- A climate protection agreement for the period after 2012 should include contributions of all major emitters
- Suitable regulatory instruments need to be installed
- IPCC successfully managed the scientific challenge, now we also need to successfully manage the political and societal challenge

