

Sustainable Energy Technology at Work - SETatWork

Opportunities in the German market

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Germany

- ETS Country Overview

German target in EU effort sharing

21% GHG reduction between 2008-2012 compared to 1990 levels
In 2008: 23.9%

German EU ETS Budget 2008-2012

453 million t CO₂eq
Reduction of emissions budget by 23% from first to second phase

Integrated Energy and Climate Programme

Reduce GHG emissions by 40% in 2020 compared to 1990 levels
Measures and laws in the field of energy efficiency, renewables,
transport sector and biofuels

New government

Extend the term of nuclear power plants
But energy efficiency and renewables will remain a prioritised policy field

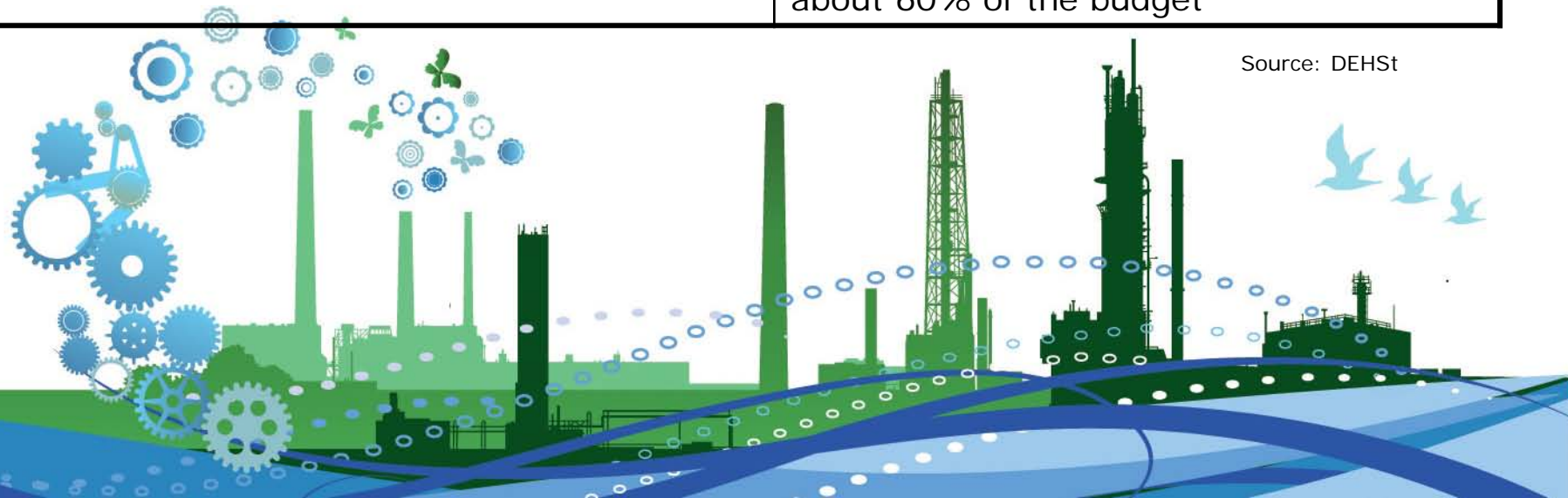
Germany

- ETS Industry Overview

Installations obliged to Emissions Trading:

Installations obliged to Emissions Trading	1.665
Installations with free allocation	1.625
Installations of energy industry	1.072
Industrial installations	553
Lowest annual allocation on an installation	4 EUAs/a
Highest annual allocation on an installation	19,6 million EUAs/a
Small-scale emitter (Installation with combustion heat capacity smaller than 25 MW)	792 installations; 8,1 million EUAs/a; 2% of the budget
Large-scale emitter	80 installations; 257 million EUAs/a; about 60% of the budget

Source: DEHSt



Germany

- Need & Opportunities

Sectors

Power and Heat
Cement and Ceramics/ Glass
Steel and Iron and Refineries
Paper and Pulp

Opportunities

Energy Management System
Fuel Switch
Polygeneration and Industrial CHP
⇒ Results backed by survey carried out by Deutsche Emissionshandelsstelle

Training needs survey by SETatWork

Energy Management System
Carbon Markets
Good Practice & Benchmarking
Policy Strategy & Monitoring

Implications

⇒ Training focus on Carbon Market, Energy Management Systems and efficiency measures
⇒ Inclusion of good practice

- Good Practice/Case examples

Bayerngas Ökobonusprogramm Gewerbe- und Industriekunden

Project managing entity: Bayerngas GmbH

Type of certificate: Emission Reduction Unit

Project type: JI Program of Activities

Description: Early conversion of heating systems to natural gas with commercial and industrial customers

Participants: SME and public facilities in Bavaria

Emission reduction: 50,000 t CO₂eq in 2008 to 2012

2008: 562 t CO₂eq reduction (10 Participants)

2009: approx. 10 new participants with approx. 2,000 t CO₂eq reduction

Plus: 10 already existing participants with approx. 3,000 t CO₂eq reduction

Germany

- SETatWork intervention

Training activities

Training workshop together with co2ncept plus and Bayern Innovativ
=> focus on Carbon Market, Energy Management and good practice
Further training 25 February 2010 with KfW Bank in Frankfurt

Dissemination activities

Carbon Expo 2009 in Barcelona
CEE Conference in Warsaw in 2009
OTTI-Workshop on promotional programmes on energy efficiency and
renewables
2nd Sustainability Conference in Neumarkt (Bavaria)

Contact with relevant stakeholders

Contact and co-operation with players like KfW, Bayern Innovativ, DIHK,
co2ncept plus and Federal Brick Industry Association in Germany

Germany

- Energy efficiency measures

Bayerngas

Early conversion of heating systems to gas

=> Eco bonus idea:

JIM.NRW - fuel switch or modernization of heating systems

JIM Hessen has just been launched

Lanxess AG

Project Type: JI Project

Reduce N₂O emissions from adipic acid production by redundant thermal decomposition

Emission reduction: 3.3 million t CO₂eq from 2008 till 2012

DEHSt Survey on JI projects

Fuel switch and energy efficiency

N₂O destruction

Mine gas processing

Biomass

Germany

- Match-Making activity

Match-Making with Chamber of Industry and Commerce, Munich, 10 March 2010:

Energy Management

Building Automation Technology

Heating, Ventilation and Air-Conditioning (HAVC)

Potential Match-Making with Association of German Chambers of Commerce and Industry

“Partnership for Climate Protection, Energy Efficiency and Innovation”



Germany

- Stakeholders & Initiatives

Industrial Associations

Chambers of Commerce and Industry

Banks

Training service companies

Find out more about the activities of SETatWork
and access the SETatWork Database at:

www.SETatWork.eu

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