

ETS Capacity Building Chile Delegation at DEHSt

12 December 2017



European Emissions Trading System (EU ETS) and its implementation in Germany

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The DEHSt at the German Environment Agency (UBA)

Federal Ministry for the Environment, Nature
Conservation, Building and Nuclear Safety (BMUB)

German Environment Agency
(UBA)

Division E
German Emissions Trading Authority (DEHSt)
at the German Environment Agency



Introducing the German Environment Agency (UBA)

TASKS

Scientific Work

Collecting Data



UBA supports the Federal Government, esp. the Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)

Information to the Public

International Co-operation

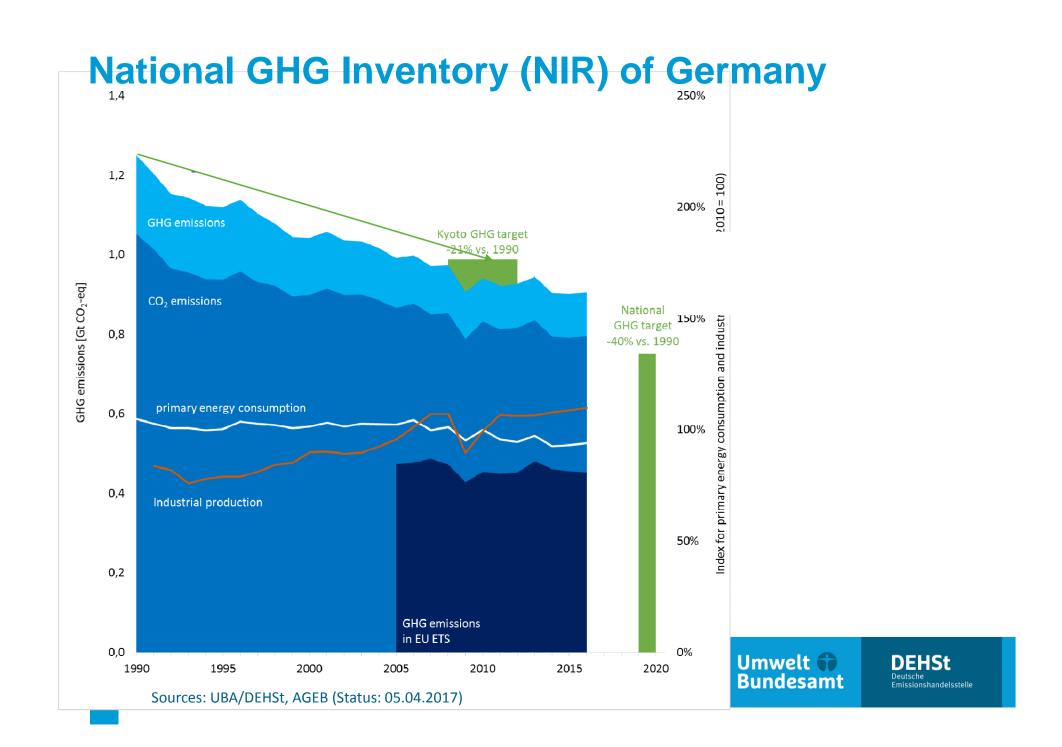
Implementing environmental legislation: such as EU ETS

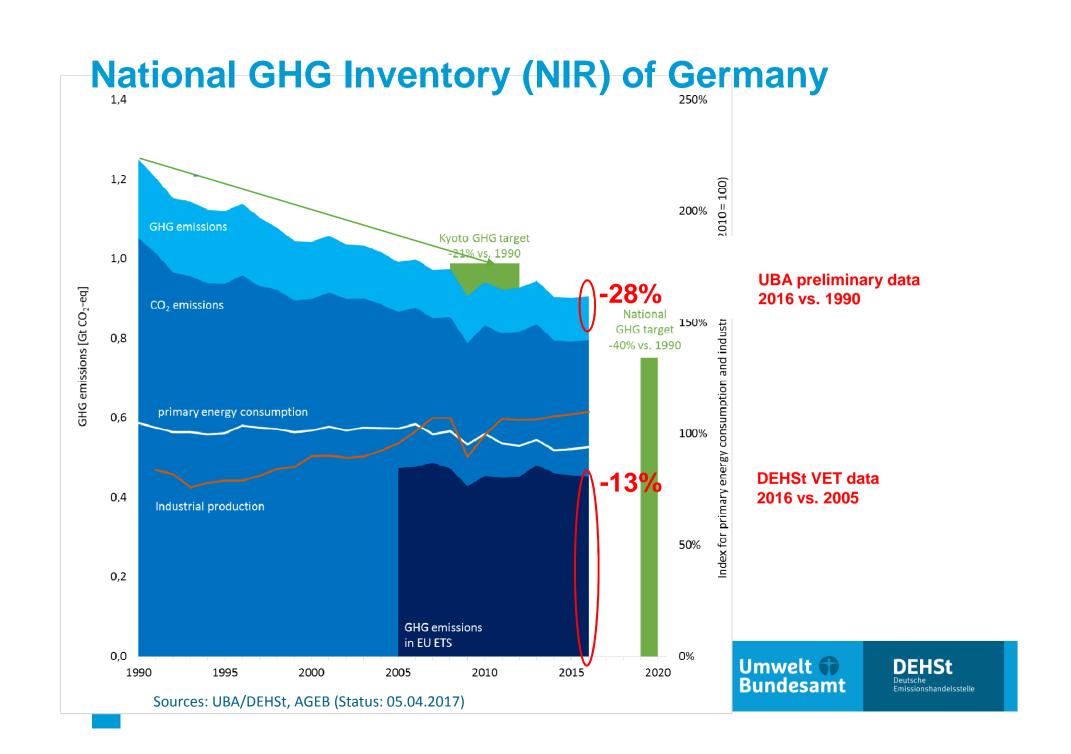
Since 2014 the UBA has also been supporting the Federal Ministry of Economy and Energy (BMWi) by providing scientific knowledge on energy questions and issues such as renewable energy sources.

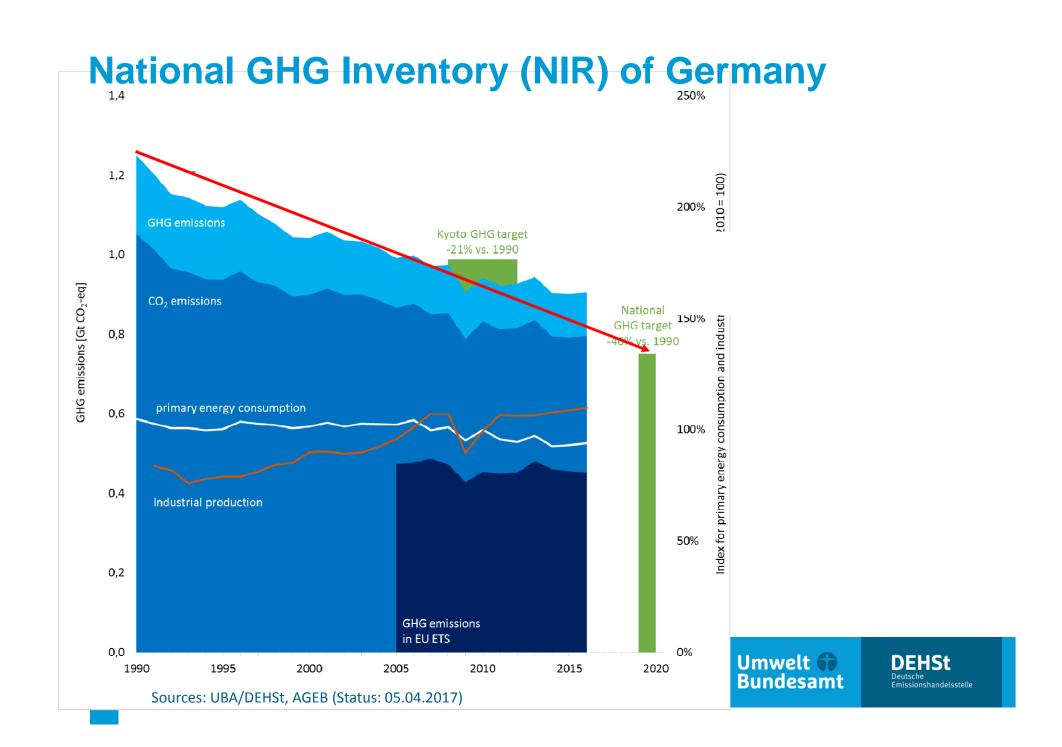
Outline

- Why Emissions Trading?
- Institutional Set-up and Administrative structure in Germany
- EU ETS implementation in Germany:
 - What has been achieved?
 - What are the challenges?







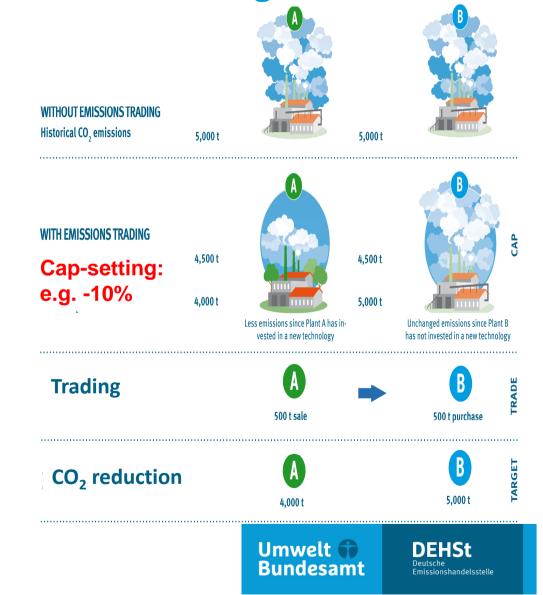


Carbon pricing: Why Emissions Trading?

EU ETS is an European
 Climate Change Policy
 Instrument
 for the sectors energy, in

for the sectors energy, industry and aviation setting an overall CAP as a target for CO₂-reduction. It gives economic incentives for the implementation of **cost-efficient** abatement measures:

- » Energy-efficiency
- » Fuel Switch
- » Renewable Energy
- Principle: <u>Cap & Trade</u>
- EU ETS gives <u>flexibility</u> to the industry



German Emissions Trading Authority (DEHSt): TASKS

1. provide the infrastructure for emissions trading in Germany

- allocate and issue the EU allowances to installation and aircraft operators
 - free allocation according to EU wide allocation rules
 - coordinate auctioning of allowances and publish the results monthly
- approve operators' monitoring plans and check emissions reports
- administer the accounts of the German part within the EU ETS and the national Kyoto Registry (account management)

2. contribute to the development of emissions trading

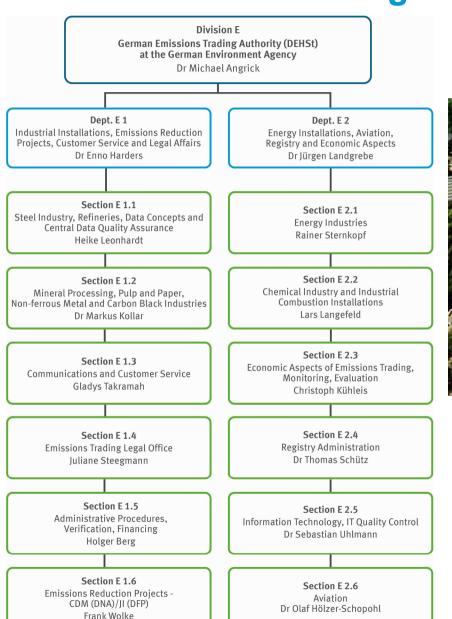
- draft national and international reports (ETS data → NIR)
- cooperate with EU and UNFCCC

3. approve JI and CDM projects

- Designated National Authority (DNA) / Designated Focal Point (DFP)
- 4. Compensation payments for indirect ETS costs (electricity)



German Emissions Trading Authority (DEHSt)





Staff: ~ 170 employees





German Emissions Trading Authority (DEHSt): TARGETS

Our ambition is to set up Emission Trading as **environmentally** and **economically** effective as possible.

That requires:

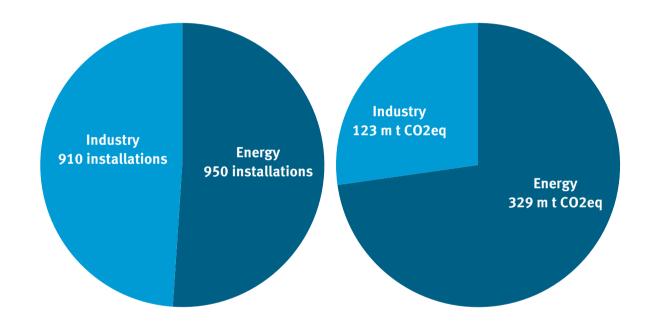
- to ensure the ecological integrity of the instrument
- to avoid market distortions
- to minimize transaction costs
- to facilitate trading by an efficient interaction between traders, trading platforms and the registries



EU ETS in Germany: What has been achieved?



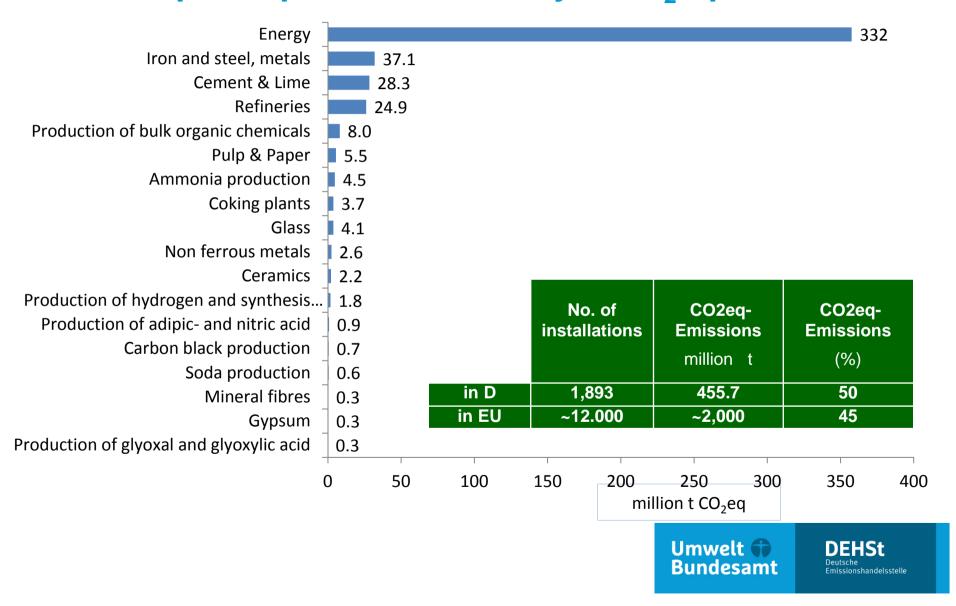
German ETS Emissions - Energy and Industry 2016



Source: DEHSt; as of 03/04/2017

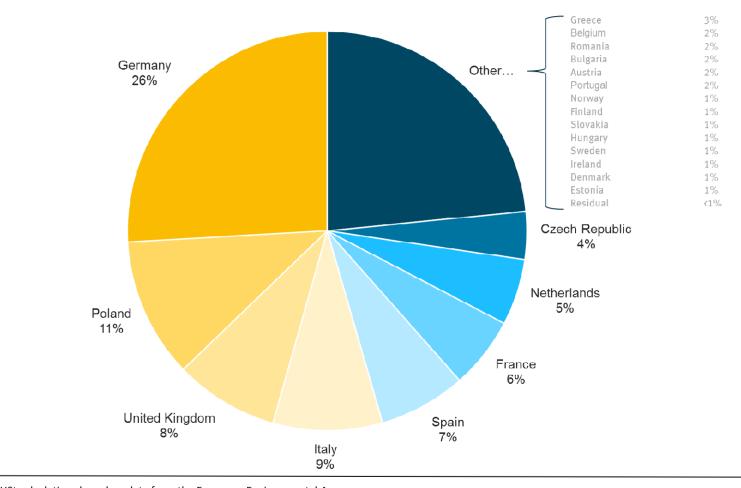


EU ETS participants in Germany – CO₂eq emissions



Structure of the EU ETS 2016

Share of emissions by EU Member States



Source: DEHSt calculations based on data from the European Environmental Agency.

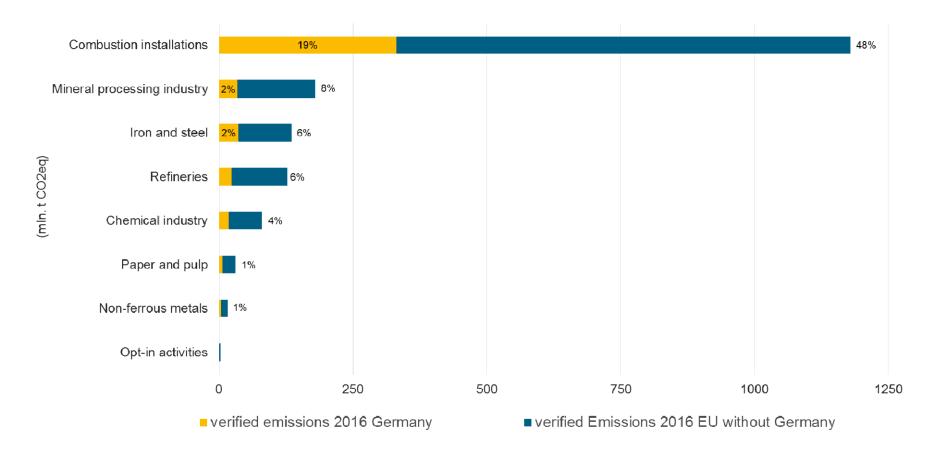
Umwelt DEHSt
Bundesamt

Deutsche
Emissionshandelsstelle

As of: 15/06/2017

Structure of the EU ETS 2016

Share of emissions by ETS sectors



Source: DEHSt calculations based on data from the European Environmental Agency.

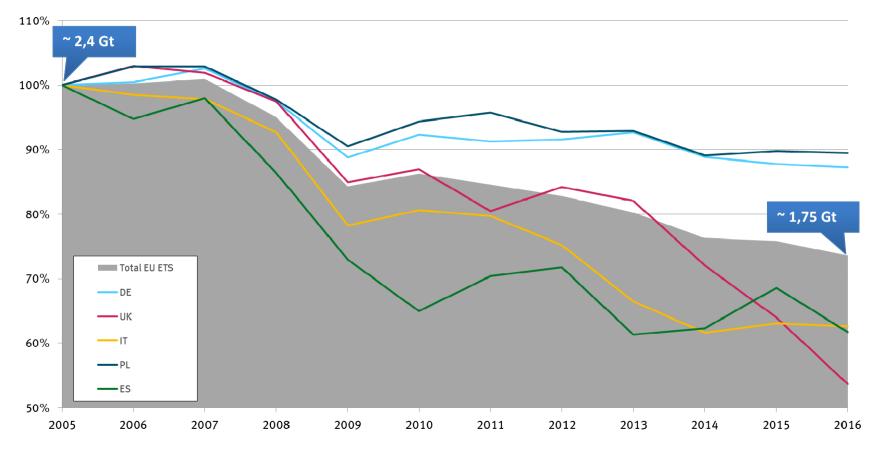
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Emission Reductions in EU ETS by 2016 (EU 31 and Germany)

Comparing the Largest Emitters



Emissions between 2005 and 2012 include an estimation of historical emissions for the scope of the third trading period.

Source: DEHSt calculations based on data from the European Environmental Agency.

As of: 15/06/2017



Results: EU ETS emissions in Germany

- Consequent reduction of CO₂ emissions; in 2016: -13% (2005)
- Phasing out nuclear energy in Germany could be compensated without increase of CO₂ emissions!
- Total phase-out of nuclear energy by 2022
 29 plants until 2015, further 8 plants by 2017, 2019, 2021, and 2022)
 2015: 11 GW remaining nuclear capacity (=14.1% of power generation)

But:

In the average of the EU and many other MS higher emission reductions!



Conclusions

Emissions trading ...

- ... is the most important pillar of climate policy in Europe. As an economic instrument emissions trading allows emission reductions for as low costs as possible.
- ... is effective and reliable! But can only be as ambitious as the CAP is set!
- ... causes low administrative effort and transaction costs, if allocation rules are simple and evident: Auctioning is the best option here!
- ... goes along with other climate change policy instruments
 (e.g. promotion of renewable energies, greening of the tax system,
 efficiency standards)

Thank you!

Dr Jürgen Landgrebe

This presentation is based on a speech held by the German Emissions Trading Authority (DEHSt) and is not clear for publication. Check against delivery. References and quotations from the presentation must at all times be approved in written form by the DEHSt.

