Clean Coal: a joint responsibility of industry and government

International Coal and Climate Summit
on clean coal technologies – opportunities and innovations

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What are the objectives?

EURACOAL’s 3-step strategy responds to these objectives.
Because we need more power plants like this ...

RWE BoA 2 & 3 lignite-fired power plants at Neurath in Germany
Replacing old with new reduces emissions – by up to 40% for CO$_2$
The energy policy dilemma – is there a contradiction?

**Coal**
- Secure and competitive energy supply

**Environmental protection**
- Reduced pollution
- Reduced CO₂

**NO** – the answer is “clean coal”
The challenge for the coal industry is to show the public that:

- Clean coal technologies can minimise the environmental impact of coal use

Clean coal is:

- a technological pathway to attain long-term acceptance of coal
- an economic solution which can be implemented step by step
- a flexible approach which can be implemented by all countries

Clean coal is a strategic approach to safeguard coal as part of the future
A 3-step clean coal strategy

I. Introduce state-of-the-art technology to reduce emissions from existing plants – an ecologically friendly and economically affordable first step.

II. Develop the next generation of high-efficiency, flexible technologies to minimise resource consumption and further reduce CO$_2$ emissions.

III. Deploy technologies for CO$_2$ capture, transport and storage as less integrated and therefore less complex activities within the context of a public CCS infrastructure open to all.

An “infrastructure-first” approach will ensure that CCS is widely deployed.
A joint responsibility of industry & government

I. What we can do today
- power plant modernisation
- construction of new CCS-ready power plants

II. What is possible tomorrow
- further technology development: power plant efficiency >50%
- refine low-carbon CCS power plant designs based on results from successful pilot plants already built

III. For the day after tomorrow
- widespread demonstration and deployment of CCS
- coal & lignite as chemical feedstock to replace oil and gas
- CO₂ utilisation

- Invest in state-of-the-art
  - investment by industry
  - state provides stable framework

- Enhance efficiency / plan for CCS
  - materials research, new components
  - plan for a public CCS infrastructure that connects power AND industrial plants to CO₂ storage sites
  - regulatory framework development

- Low-carbon power generation / coal as feedstock for chemicals
  - development of CO₂ transport and storage infrastructure
  - development and demonstration of new coal utilisation concepts

An “infrastructure-first” approach will ensure that CCS is widely deployed.
EURACOAL calls for a 3-step clean coal strategy

17% of EU primary energy and 27% of EU electricity come from coal.

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Thank you!

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