EURACOAL

European Association
for Coal and Lignite

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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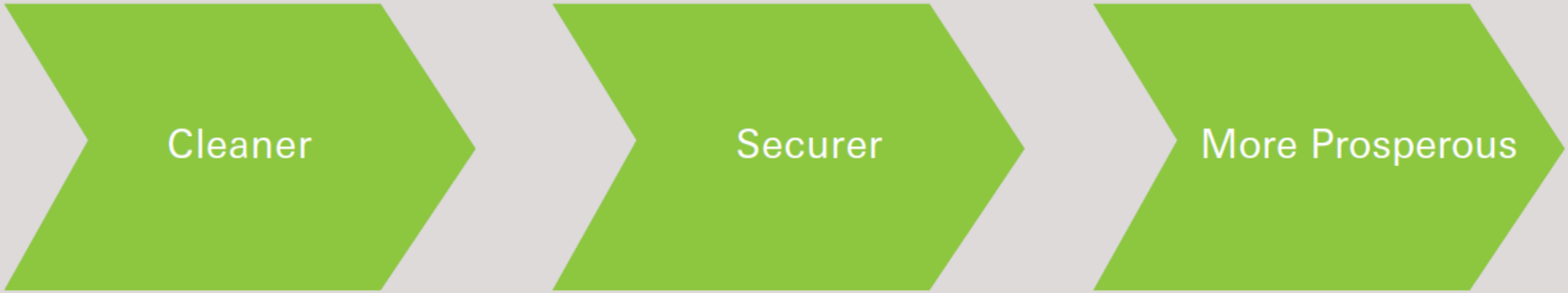
What are the objectives?



EURACOAL's 3-step strategy responds to these objectives.

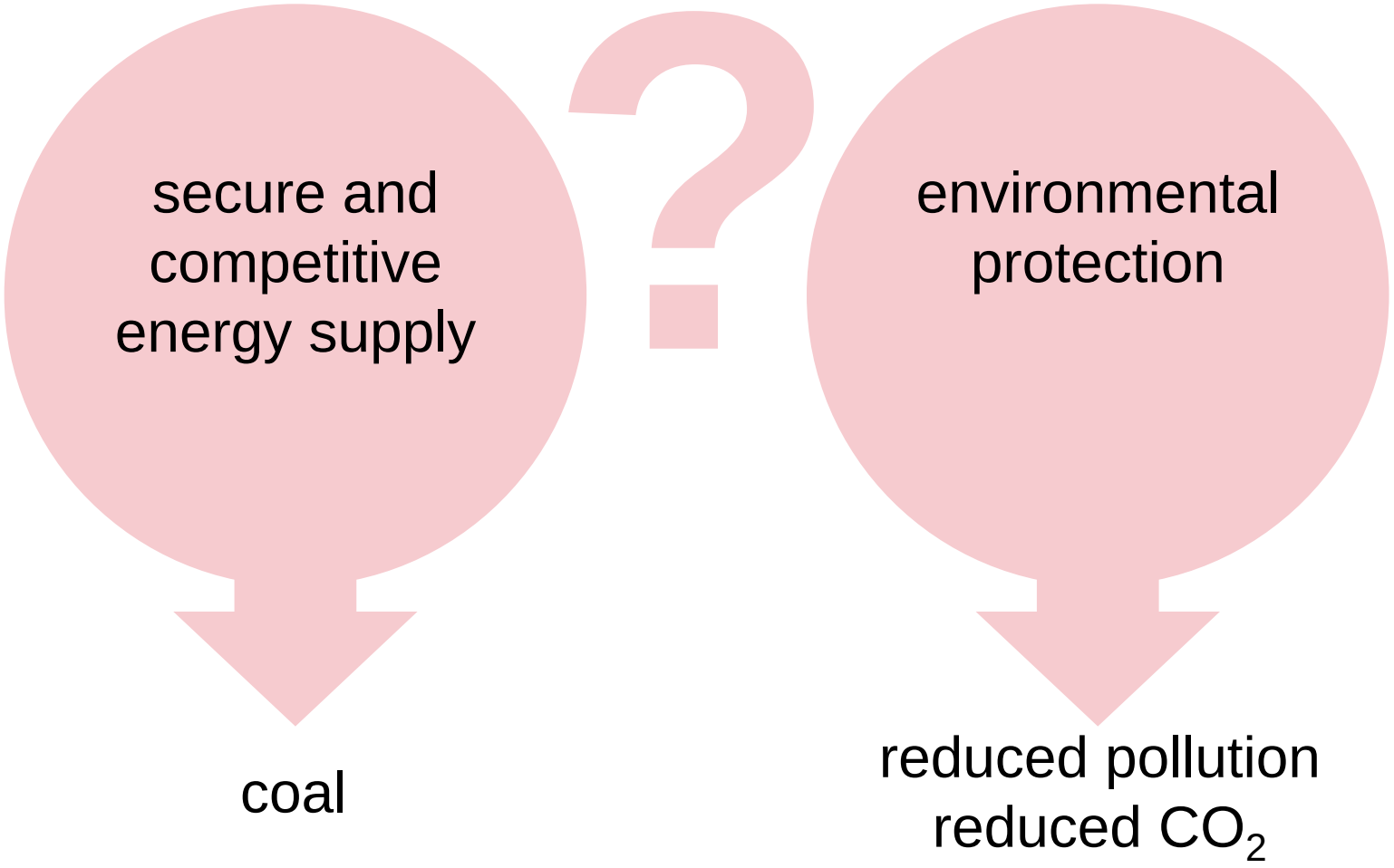
Because we need more power plants like this ...

RWE BoA 2 & 3 lignite-fired power plants at Neurath in Germany

... and less like this.

Replacing old with new reduces emissions – by up to 40% for CO_2

The energy policy dilemma – is there a contradiction?



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

➔ **Invest in state-of-the-art**

- investment by industry
- state provides stable framework

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

➔ **Enhance efficiency / plan for CCS**

- materials research, new components
- plan for a public CCS infrastructure that connects power AND industrial plants to CO_2 storage sites
- regulatory framework development

III. For the day after tomorrow

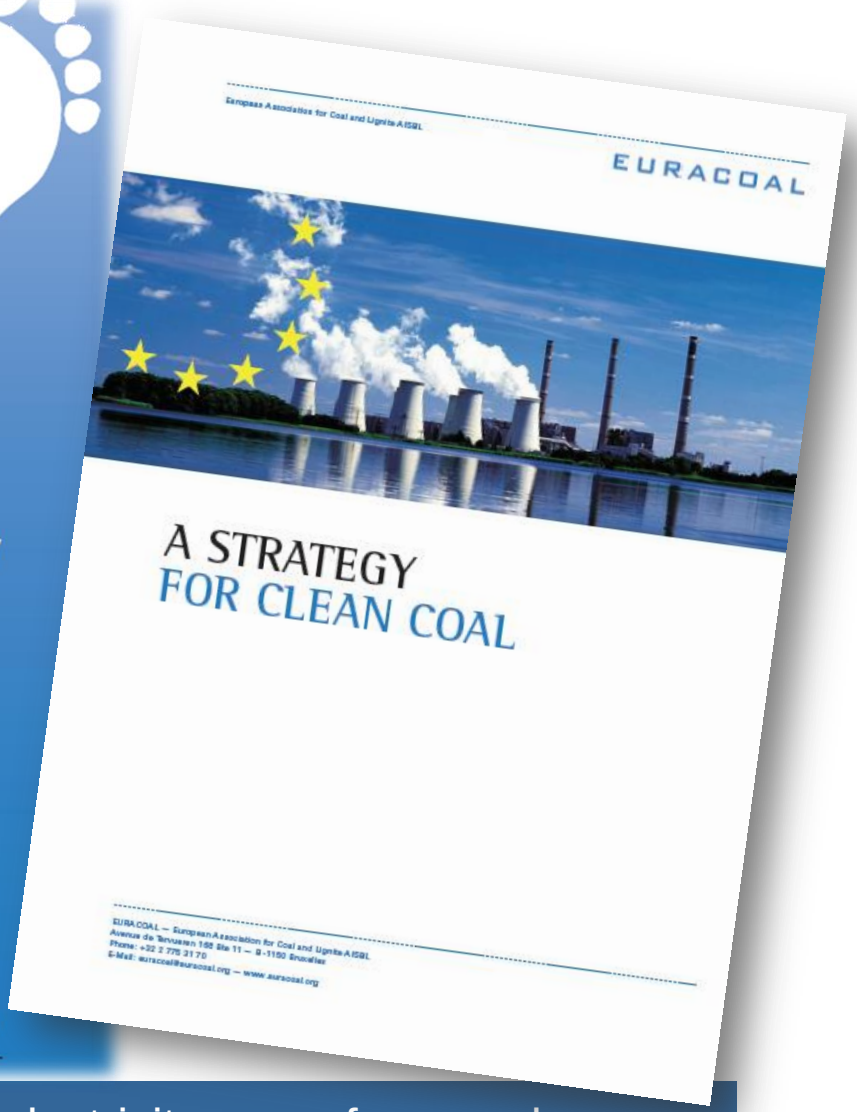
- widespread demonstration and deployment of CCS
- coal & lignite as chemical feedstock to replace oil and gas
- CO_2 utilisation

➔ **Low-carbon power generation / coal as feedstock for chemicals**

- development of CO_2 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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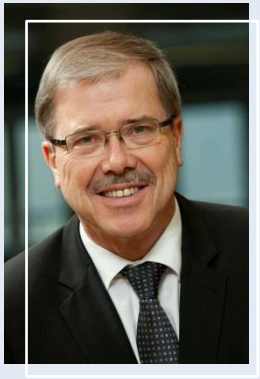
Thank you!



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