

EURACOAL

European Association
for Coal and Lignite



Energy in Europe – the role of coal

Committee on Industry, Research and Energy (ITRE)

9 November 2010

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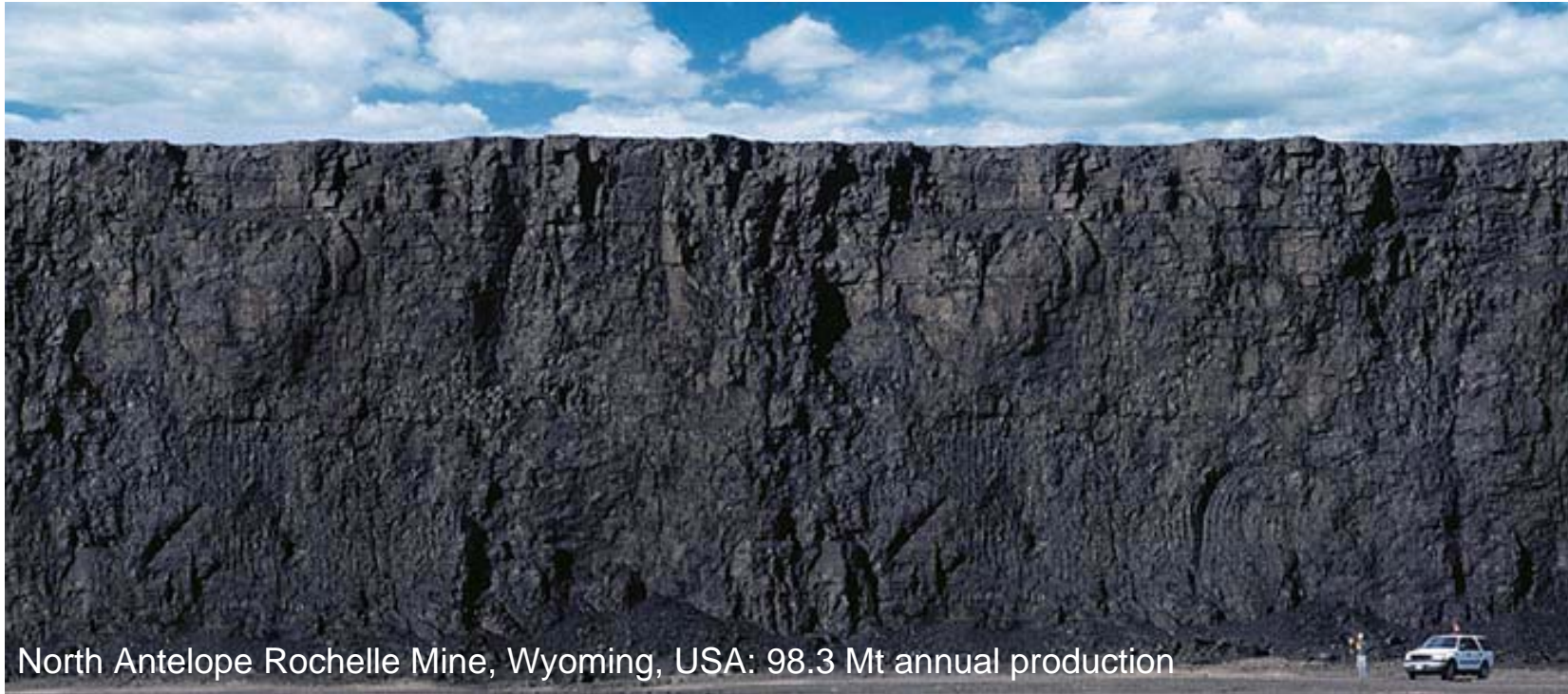
– Chairman EURACOAL Market Committee
– Managing Director, Coallmp

Overview

- Is coal a fuel of the future?
- Can coal be clean?
- Does Europe need coal?

Coal reserves are super abundant

- 997 billion tonnes or 144 years.
- Distributed in many countries.



North Antelope Rochelle Mine, Wyoming, USA: 98.3 Mt annual production

source: Bundesanstalt für Geowissenschaften und Rohstoffe (BGR), 2010

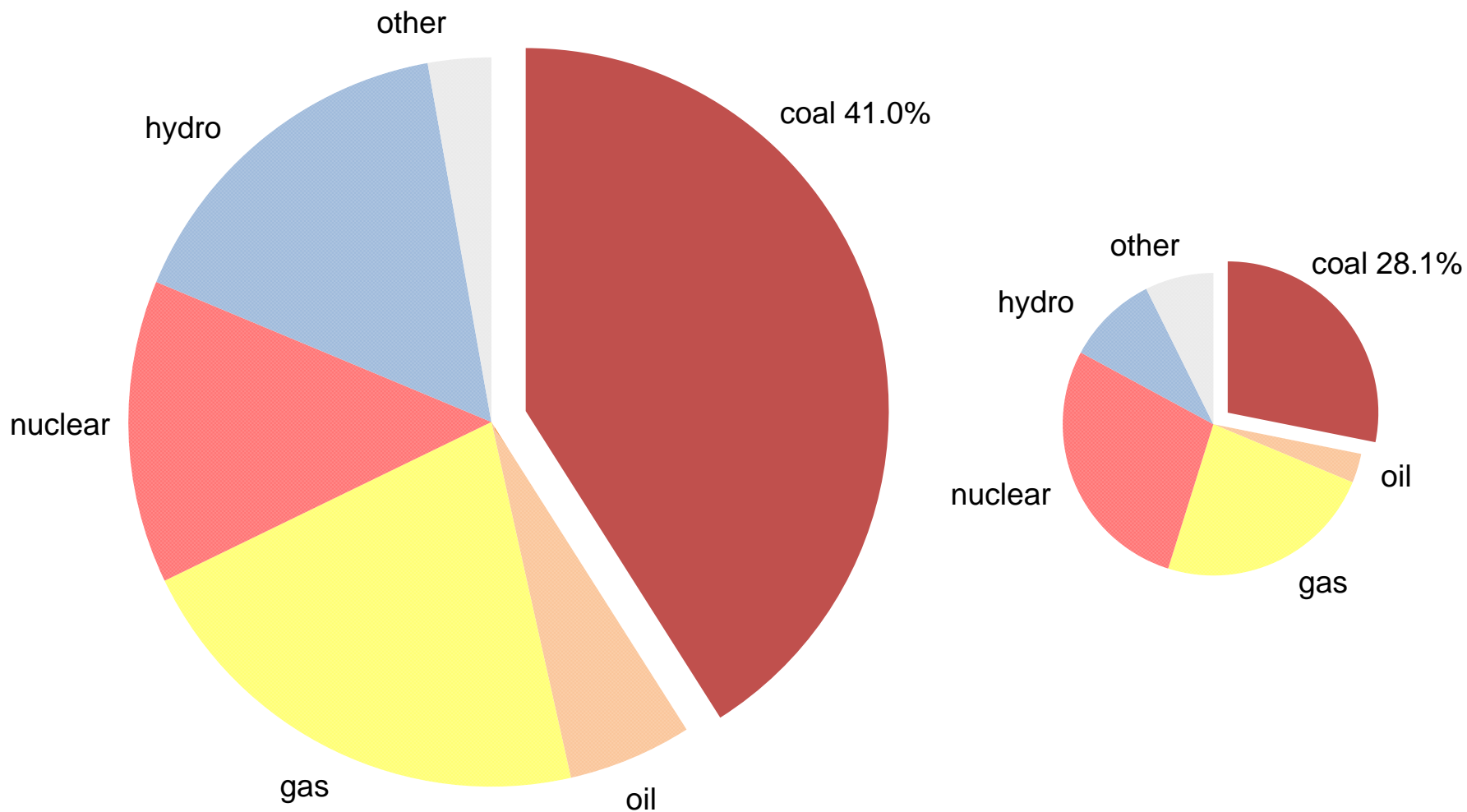
photo courtesy of Peabody Energy, St. Louis, MO, USA

Developing countries will rely on coal to build their economies.

Fuel sources for electricity generation, 2008

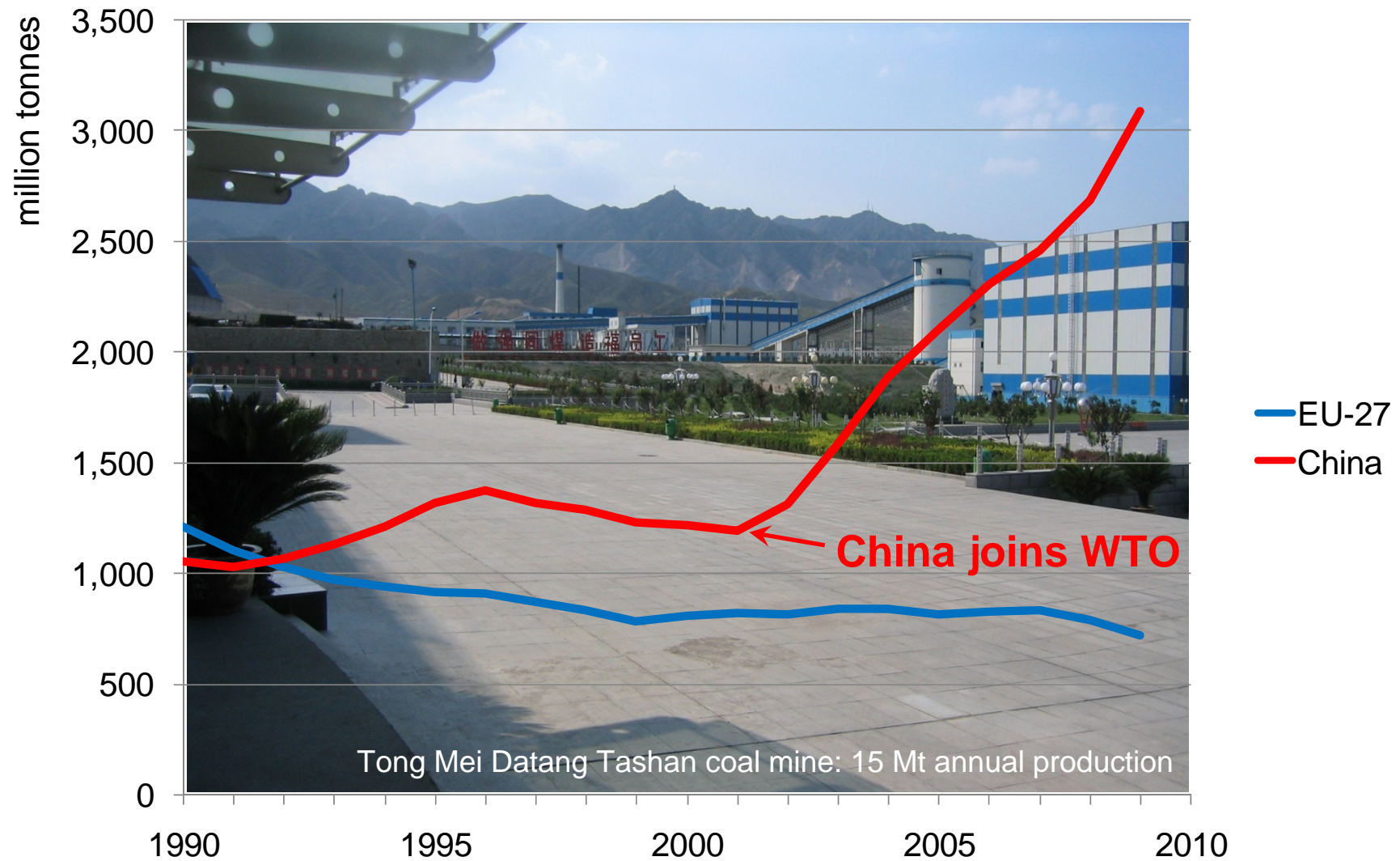
World: 20 181 TWh

EU-27: 3 341 TWh (16.6%)



sources: IEA Key World Energy Statistics 2010 and IEA databases (© OECD/IEA, 2010)

Coal in China and EU-27, 1990-2009



source: IEA Coal Information 2010 (© OECD/IEA, 2010)

Major advantages of coal in the EU

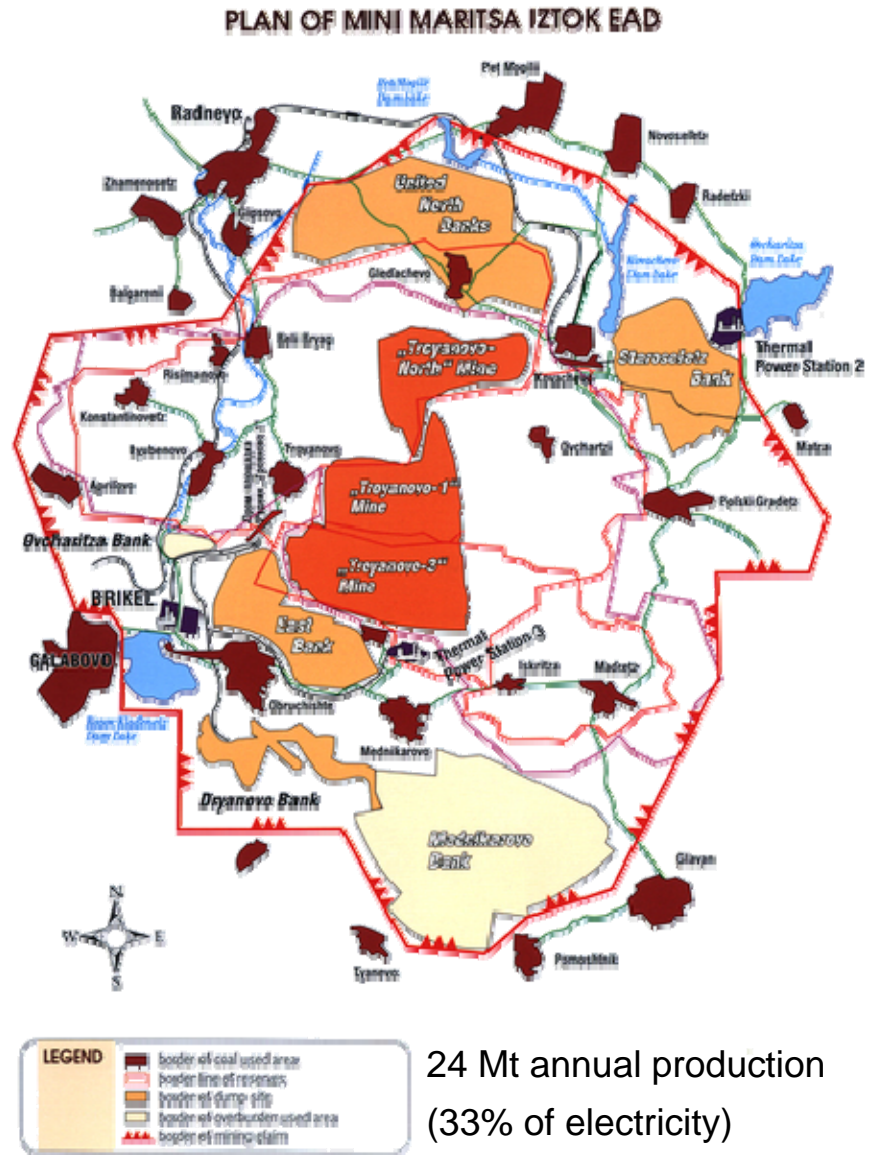
- The EU's main indigenous energy resource: almost **80% of EU-27 domestic fossil fuel reserves**.
- Hard coal and/or lignite are **available in many EU Member States**.
- Coal balances the EU energy mix and **avoids security of supply and price risks**.
- **Coal mining and value chain create wealth** in the EU, particularly in a number of disadvantaged regions.
- The coal industry **employs around 280,000 people**.

All primary energy sources have their pros and cons.

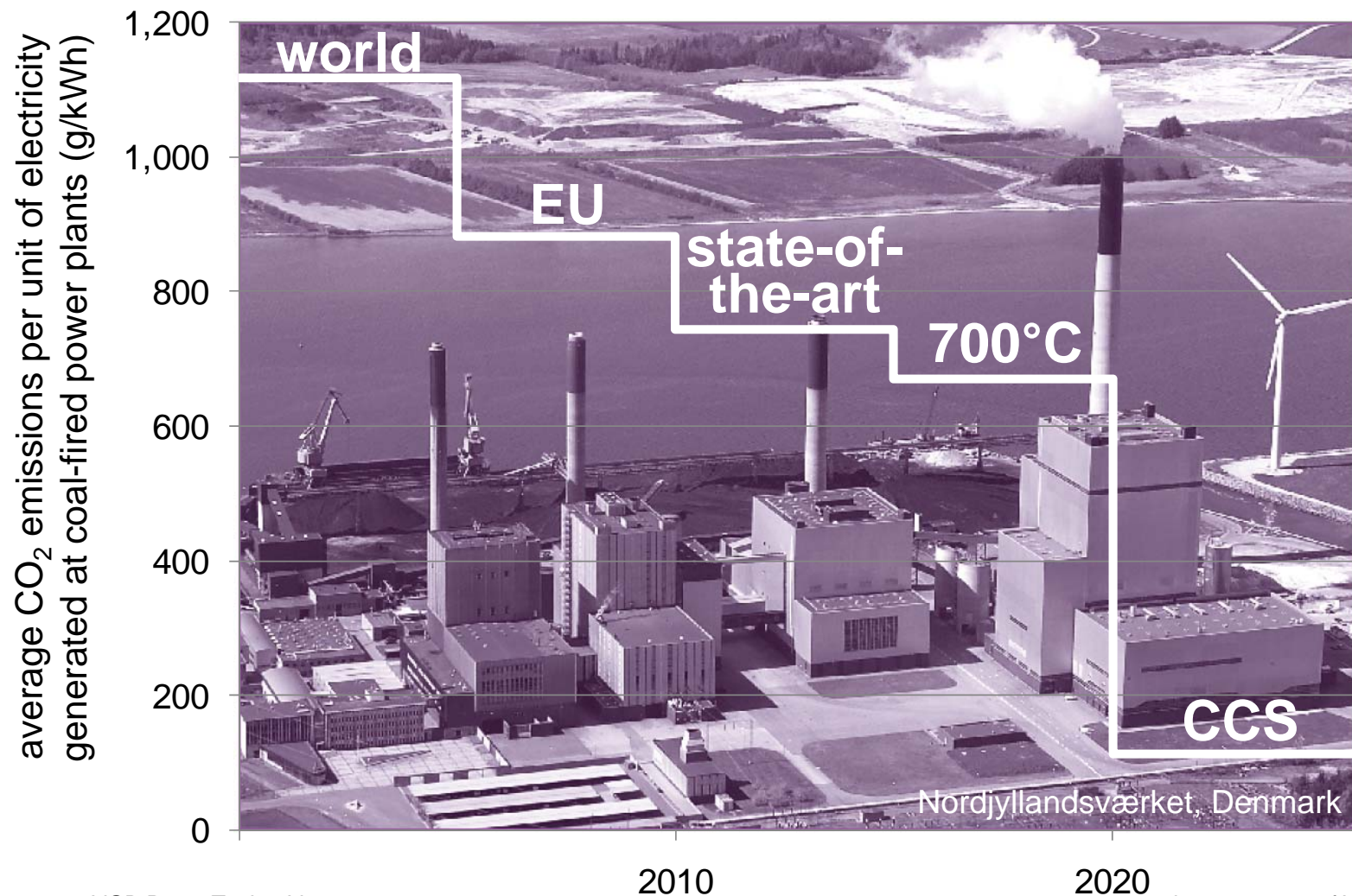
Coal mining in Bulgaria – a 60-year plan



photo and map courtesy of Mini Maritsa-Iztok EAD, Radnevo, Bulgaria



Modernisation and CO₂ capture & storage (CCS)



source: VGB PowerTech e.V.

photo courtesy of Vattenfall.

Continuous power plant modernisation and new CCS-ready plants.

Conclusions

- Is coal a fuel of the future?

- Yes: coal is the world's fastest-growing source of primary energy and the No.1 fuel for power generation.

- Can coal be clean?

- Yes: coal is safe, reliable, affordable and becoming ever-more sustainable. Low CO₂ emissions can be achieved with CCS.

- Does Europe need coal?

- Yes: coal provides energy diversity. Indigenous coal reduces energy import dependence and generates wealth.

Coal is an important part of a balanced energy mix.

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Thank you!



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