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European Association
for Coal and Lignite



Energy in Europe – the role of coal

Committee on Industry, Research and Energy (ITRE)

9 November 2010

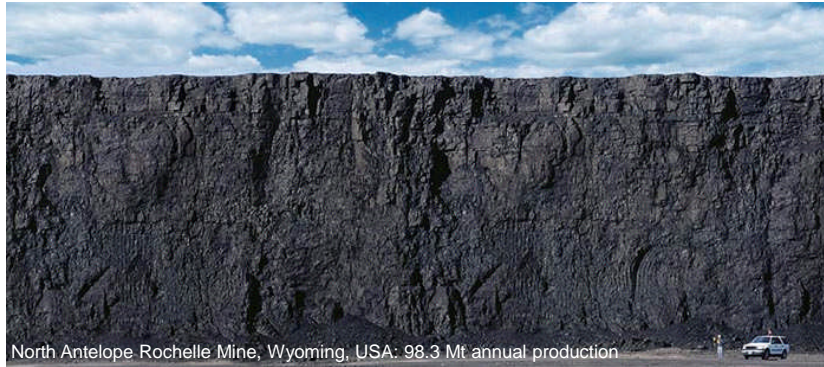
Nigel Yaxley – Chairman EURACOAL Market Committee
– Managing Director, Coallmp

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.



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.

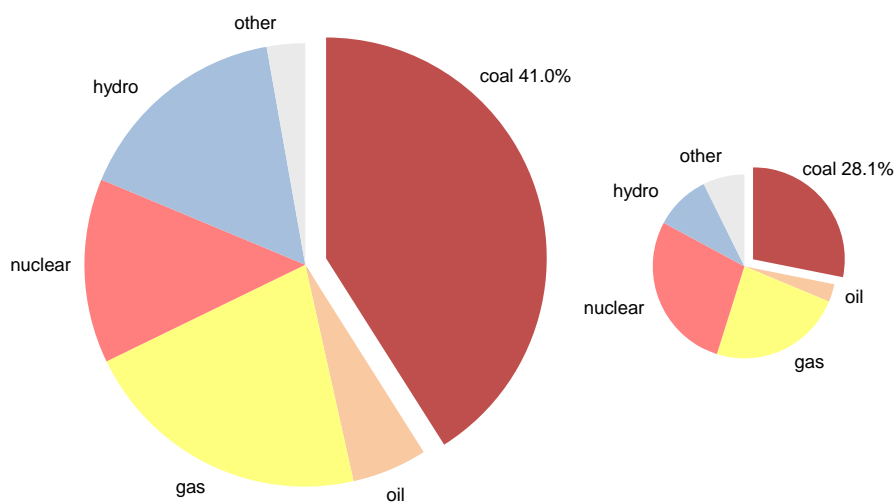
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Fuel sources for electricity generation, 2008

World: 20 181 TWh

EU-27: 3 341 TWh (16.6%)

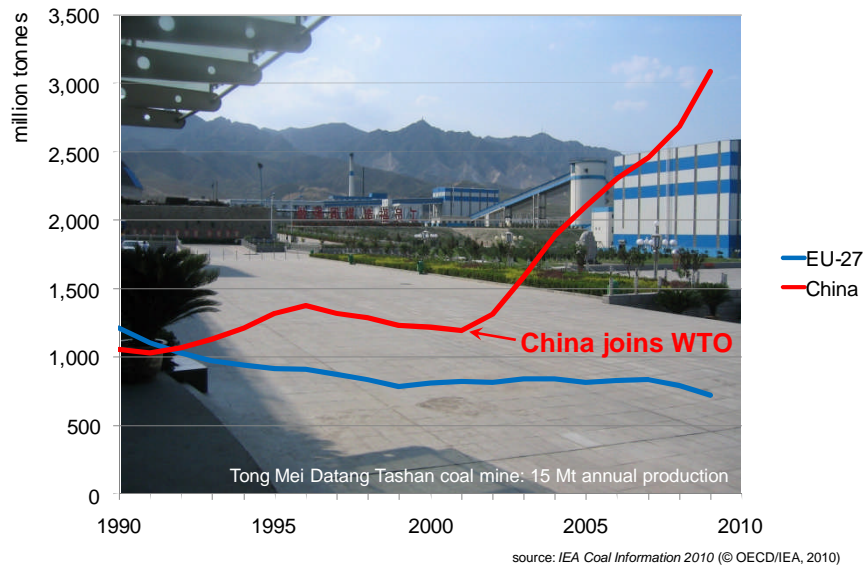


sources: IEA Key World Energy Statistics 2010 and IEA databases (© OECD/IEA, 2010)

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Coal in China and EU-27, 1990-2009



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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.

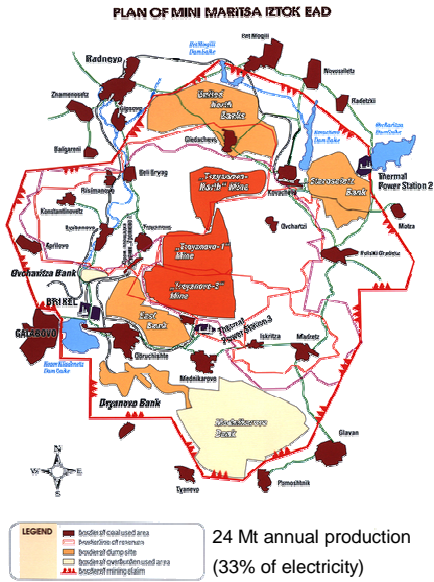
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Coal mining in Bulgaria – a 60-year plan



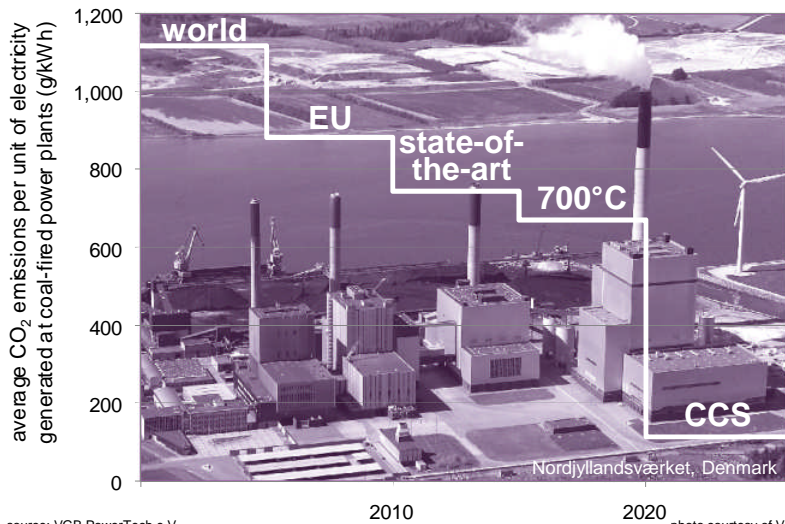
photo and map courtesy of Mini Maritsa-Iztok EAD, Radnevo, Bulgaria



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Modernisation and CO₂ capture & storage (CCS)



source: VGB PowerTech e.V.

photo courtesy of Vattenfall.

Continuous power plant modernisation and new CCS-ready plants.

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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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