HELE Coal Technology Roadmap
-- Process

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IEA, Paris, 8-9 June 2011
IEA Technology Roadmaps

To date: Biofuels; Buildings; CCS; CSP; Cement; E&PIH Vehicles; Nuclear; Smart Grids; SPP; Wind
Key technologies for reducing energy-related CO$_2$ emissions

Analysis underpins development of technology roadmaps.
The role of coal in meeting recent growth in energy demand

Demand for coal has been growing faster than any other energy source and is projected to account for more than a third of incremental global energy demand to 2030.
... and in meeting recent growth in electricity generation

The growth in electricity from coal over the past decade represents almost half of total growth
Coal demand growth comes from developing countries
China’s incremental demand of the last two years is equal to TOTAL EU coal use and not far off TOTAL US 2009 consumption.
World installed coal-fired generation capacity in the 450 Scenario and the Current Policies Scenario

- Reduced capacity needs from the Current Policies Scenario to the 450 Scenario
- Total installed capacity in the 450 Scenario

Peak coal capacity in the 450 scenario before 2020
HELE Coal Roadmap – content

- To identify milestones for the development of coal technologies for power generation to 2050;
- To cover technical, financial, policy and other matters important to generation of electricity from coal;
- To address regional implications of this development pathway, particularly for major coal-using countries.

Global leaders agreed a target of limiting temperature increase to 2°C at the UN climate change talks in Cancun in 2010
HELE Coal Roadmap – provisional timetable

Jun 2011  Workshop on the long-term vision for the deployment of clean coal

May – Sep 2011  Review of coal-fired power generation: technologies, policies, regulation, ...

Jun – Nov 2011  Regional workshops in US, China, India and Eastern Europe

Oct – Dec 2011  Drafting of roadmap

Dec – Feb 2012  Review of draft roadmap, editing and design

Jan 2012  Workshop to review conclusions

Mar 2012  Publication of roadmap
Thank you

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