

Global Technology Roadmap for CCS in Industry

CSLF Technical Group Meeting
16 March 2010 - Pau, France

Presented by Bill Koppe, Global CCS Institute



Objective

To advance the global uptake of low-carbon technologies in industry, particularly by involving developing countries and transition economies, by developing a **Global Technology Roadmap for CCS in Industry** and building the analytical foundation allowing to identify early opportunities for pilot/demonstration projects

Expected outcomes

- To provide relevant stakeholders with a vision of industrial CCS up to 2050
- To strengthen the capacities of various stakeholders with regard to industrial CCS
- To inform policymakers and investors about the potential of CCS technology



Rationale

- Industry accounts for approx. 40% of total energy-related CO₂ emissions
- The majority of industrial energy use and CO₂ emissions takes place in developing countries
- CCS is one of the few low-carbon options for energy-intensive industries
- Developing countries should be informed and participate in technology development and deployment
- Lots of attention for CCS in the power sector, but limited for industry thus far

Context

- Motivated by the need to stabilize greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system
- Request from the international community to develop and deploy advanced technologies for moving towards a low-carbon economy, and explicit request for the preparation of Energy Technology Roadmaps



Approach

- Desktop review and analysis informed by sectoral assessments
- Series of workshops with selected stakeholders
- Will build on past and on-going work, e.g. IEA CCS Roadmap, Cement Technology Roadmap, etc.
- Key to success will be open exchange with ongoing initiatives such as CSLF and others

Sectoral focus

High-purity CO₂ / capture-ready options; Cement; Iron and steel; Refineries; Industrial options involving biomass

Timeframe

Workshops to take place during the course of 2010 and Roadmap expected to be completed by the **end of 2010**

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Funders

- Global CCS Institute
- Ministry of Petroleum and Energy





Implementing Agency

United Nations Industrial Development Organization



Partners

- International Energy Agency
- IEA Greenhouse Gas R&D Programme
- Energy Research Centre of the Netherlands









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