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 CO$_2$ / 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
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
Contacts

Mr. Morgan Bazilian
Senior Advisor on Energy and Climate Change to the Director-General

M.Bazilian@unido.org
+43 1 26026 3880

Mr. Patrick Nussbaumer

P.Nussbaumer@unido.org
+43 1 26026 3812