



Challenges and Opportunities for CCS in the Iron and Steel Industry

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IEA Greenhouse Gas R&D Programme



A collaborative research programme founded in 1991 as an IEA Implementing Agreement fully financed by its members

Aim: Provide members with definitive information on the role that technology can play in reducing greenhouse gas emissions.

Scope: All greenhouse gases, all fossil fuels and comparative assessments of technology options

Focus: On CCS in recent years

Producing information that is:

- Objective, trustworthy, independent
- Policy relevant but NOT policy prescriptive
- Reviewed by external Expert Reviewers
- Subject to review of policy implications by Members

Membership



Evaluating technology options to mitigate greenhouse gas emissions

ieaghg

ALSTOM        **EPR2**

CIAB   **ExxonMobil**

ConocoPhillips   **Schlumberger**

DOOSAN Doosan Babcock   **SCOTTISHPOWER**

EnBW   **REPSOL YPF**

e-on         **VATTENFALL**

B&W power generation group  **Enel** L'ENERGIA CHE TI ASCOLTA.  **GLOBAL CCS INSTITUTE**  **JGC**  **RWE** The energy to lead  **Statoil**

IEAGHG Activities



- **Task 1: Evaluation of technology options**
 - Based on a standard methodology to allow direct comparisons and are peer reviewed
- **Task 2: Facilitating implementation**
 - Provision of “evidence based information”
- **Task 3: Facilitating international co-operation**
 - Knowledge transfer from existing, laboratory, pilot and commercial scale CCS projects globally
- **Task 4: To disseminate the results as widely as possible.**

Specific Focus on CCS



Power Sector

- Coal, natural gas and biomass

Industrial sectors

- Gas production and oil refining
- Cement sector
- Steel industry

Cross cutting issues

- Policy/Regulations
- HSE
- Transport and system infrastructure