# Overview of the IEA Greenhouse Gas R&D Programmes Activities

*CIAB Associates Meeting*

*23rd – 24th June 2010*

*Paris, France*

www.ieaghg.org

# Membership

ALSTOM
B&W
power generation group
BG GROUP
bp
CEZ GROUP
Chevron
CIAB
VATTENFALL
ConocoPhillips
TOTAL
Enel
L'ENERGIA CHE TI ASCOLTA.
Statoil
eni
Evaluating technology options to mitigate greenhouse gas emissions
ieaghg
e·on
Schlumberger
EPRI
RWE
The energy to lead
REPSOL YPF
JGC
GLOBAL CCS INSTITUTE
ExxonMobil

# What IEAGHG does

***Technical evaluations of mitigation options***

- Comparative analyses with standardised baseline

***Assist international co-operation***

- International research networks

***Assist technology implementation***

- Near market research
- GCCSI

***Disseminate information***

# Global Context

International Policy Setting

Implementation actions

CIAB

Policy & Implementation

Technical

IEA CLEAN COAL CENTRE

- National/Corporate policy setting
- National/Corporate research programmes

# Technical Evaluations

### *Recently reported*

- Safety in capture and transport
- Site characterisation criteria
- Corrosion and selection of materials for CCS
- Well integrity
- Biomass CCS
- Operating flexibility of power plants with CCS

### *Due to be Reported*

- Removal of impurities from $CO_2$
- Water Usage and Loss Analysis of Bituminous Coal Fired Power Plants with $CO_2$ Capture
- Development of a Global $CO_2$ Pipeline Infrastructure
- Environmental Impact of Amine Emissions during Post-Combustion Capture

# International Cooperation

## *Research networks*

- Post combustion capture
- Oxyfuel
- Solid Looping
- Operational flexibility and system integration - NEW
- Monitoring and modelling of $CO_2$ injection
- Well bore integrity
- Risk Assessment
- Communications research - NEW

## *Practical R,D & D*

- Weyburn-Midale Canada
- CO2SINK, Germany
- CO2Remove
- Dynamis
- MOVECBM, Poland

## *Supporting Activities*

- CATO-2
- UK CCS Competition
- Regional Partnerships programme

# Implementation

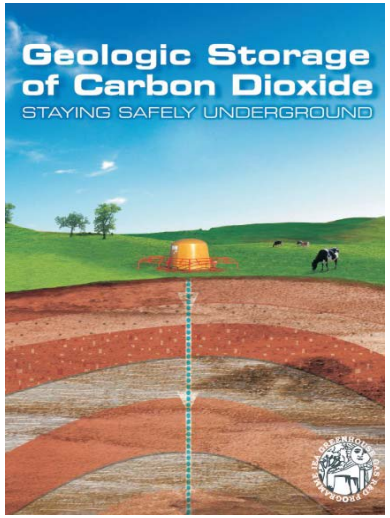
## *International Bodies*

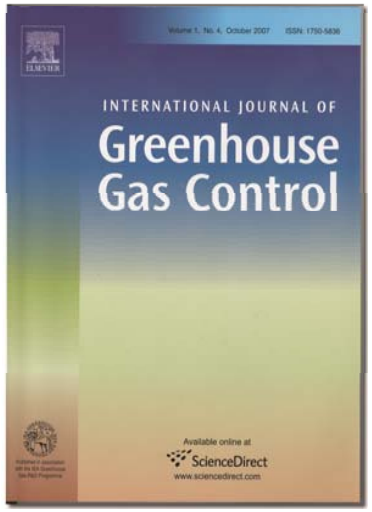
- London Convention/OSPAR
- UNFCCC/SBSTA
- IEA/CSLF/GCCSI/G8
- EU ZEP
- CSLF Technical Group
  - Speaking Observer
  - Participant in Task Forces
- FENCO-ERA
- UNIDO

## *Direct activities*

- GCCSI
  - Near market research
  - Technical support/secondments
- IEA Regulators network
  - Co-founder
- International Summer School series
  - Mentored programmes at GHGT conferences

# Dissemination




**GHGT-10**

**16th – 19th September 2010 Amsterdam, The Netherlands.**

**www.ghgt.info**

# Interactions with members

***Attendance at ExCo meetings***

- CIAB regularly attend

***Study ideas/voting rounds***

- CIAB have suggested a topic for consideration

***Expert comments on studies/overviews***

- CIAB comment on overviews

***Participation in network meetings/expert groups***

- CIAB members

# Thank You

New web site: www.ieaghg.org please register

Contact me : johng@ieaghg.org

See you at GHGT-10 www.ghgt.info