

First Announcement



CAPTURE AND GEOLOGICAL STORAGE OF CO₂

PARIS

5 - 6 NOVEMBER 2009

"CITÉ DES SCIENCES ET DE L'INDUSTRIE"

Organized by



Under the high patronage of

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Energy from fossil fuels has enabled the developed world to achieve a high standard of living, and developing countries are also counting on this energy source to achieve the same. Given this common aspiration, the demand for energy—mainly based on fossil fuels (oil, natural gas and coal)—is expected to rise sharply in the coming decades, leading to an unsustainable increase in greenhouse gas emissions.

Among these gases, CO₂ will represent the main share. To find solutions to help combat CO₂ emissions and fight global warming, we need to simultaneously:

- reduce energy consumption;
- reduce the carbon content in the energy mix;
- capture CO₂ and store it in underground geological formations.

CO₂ capture and storage has the potential to account for 20% of global greenhouse gas reductions. A number of initiatives are underway to encourage widespread deployment. Pilot sites are being run around the world and several countries and federations are already establishing directives and regulations to guide the development of this emerging technology.

To build on the success of the first two international symposia on emission reduction and CO₂ capture and geological storage, held in Paris in 2005 and again in 2007, IFP, ADEME and BRGM are organising a third event on the same topic in November 2009. **This time, the focus will be on the urgency of industrial deployment.** Indeed, the IPCC 4th assessment report indicates that the world must achieve a 50 to 85% reduction in CO₂ emissions by 2050 compared to 2000, in order to limit the global temperature increase to around 2°C.

Researchers, manufacturers, economists and financiers from all involved sectors, and public- and private-sector decision-makers who make economic and financial choices in this area, are the targeted audience for this symposium, which takes a global and cross-disciplinary approach. More than 500 participants from all over the world are expected.

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PRELIMINARY PROGRAMME

Thursday 5 November 2009

8.30 Welcome and registration

9.15 Opening address

SESSION I – Regulatory framework and strategies for enabling CCS deployment

Chairperson: Nobuo Tanaka, IEA

Regulatory framework

Co-chairperson: Kamel Bennaceur, Schlumberger

9.40 CCS: international status of political, regulatory and financing issues - Tom Kerr, IEA

10.00 EC regulatory framework - Scott Brockett, European Commission, DG ENV

10.20 Australian regulatory framework - John Hartwell, Ministry of Resources, Energy & Tourism, Australia

10.40 *Break*

Strategies for CCS deployment

Co-chairperson: Nick Otter, GCCSI

11.10 A power company perspective - Pietro Barbucci, ENEL

11.30 EC CCS demonstration network - Kai Tullius, European Commission, DG TREN

11.50 Strategies and policies for accelerating global CCS deployment - Nick Mabey, E3G

12.10 Panel discussion

13.00 *Lunch*

SESSION II - From pilot to demonstration projects

Chairperson: Philippe Vesseron, BRGM

Co-chairperson: François Kalaydjian, IFP

14.30 French pilot projects - Nicolas Aimard, Total

14.50 CO₂ storage - from laboratory to reality - Niels-Peter Christensen, Vattenfall

15.10 Otway project, Australia - Peter Cook, CO₂CRC

15.30 *Break*

Co-chairperson: Luc de Marliave, Total

16.00 CCS activities in Brazil - Thais Murce, Petrobras

16.20 Ketzin project, Germany - GFZ (speaker to be named)

16.40 US regional partnerships - Gerald Hill, Southeast Regional Carbon Sequestration Partnership, SECARB

17.00 Valuation and storage of CO₂: A global project for carbon management in South-East France - Gilles Munier, Geogreen

17.20 Panel discussion

18.00 *Evening reception*



PRELIMINARY PROGRAMME

Friday 6 November 2009

8.30 Welcome and registration

SESSION III - Technological challenges

Chairperson: Olivier Appert, IFP

Co-chairperson: Philip Ringrose, StatoilHydro

9.00 Carbon capture - Global technology blocks - Philippe Paelinck, Alstom

9.20 IFP novel concept for CO₂ capture - Ludovic Raynal, IFP

9.40 Oxy-combustion and other emerging capture technologies - Lars Stromberg, Vattenfall

10.00 Carbon capture for the steel industry - Jean-Pierre Birat, Arcelor-Mittal

10.20 *Break*

Co-chairperson: Isabelle Czernichowski-Lauriol, BRGM

10.50 Modeling CO₂ dynamics in the subsurface - Laurent Trenty, IFP ; Pascal Audigane, BRGM

11.10 CO₂ storage wells - challenges and solutions - Hans Peter Rohner, Schlumberger

11.30 Portfolio of monitoring technologies - Rob Arts, TNO

11.50 Risk management and uncertainties: Ensuring CO₂ storage safety - Hubert Fabriol, BRGM

12.10 Panel discussion

13.00 *Lunch*

SESSION IV - Structuring the CO₂ sector: Financing, capacity, society

Chairperson: Philippe Van de Maele, ADEME

Co-chairperson: Pierre Dechamps, European Commission

14.30 Financial, organisational, behaviour and economic aspects for the implementation of CCS in Europe - Peter Radgen, E.ON

14.50 Canada's investments towards implementation of CCS in Canada - Dubravka Bulut, Office of Energy Research and Development - Government of Canada

15.10 Different measures for the same target: Comparing emission trading versus emission performance standards - Sina Wartmann, Ecofys

15.30 *Break*

Co-chairperson: Paal Frisvold, Bellona

15.50 Public communication on CCS - Eric Drosin, ZEP

16.10 Aspects of education and training for the deployment of CCS - Klaus Willnow, Siemens AG

16.30 French research demonstration projects - François Moisan, ADEME

16.50 Panel discussion

17.30 Closing address

18.00 *End of symposium*



IFP is a world-class public-sector research and training center, aimed at developing the technologies and materials of the future in the fields of energy, transport and the environment. Since the skills necessary for the development of the CO₂ sector are the same as those used in oil and gas production, IFP is very well placed to act in all stages of the sector's activity: capture, transport and geological storage. IFP's ability to act and to innovate in the service of sustainable development is recognized at European level. Indeed IFP is a participant in many European projects aimed at reducing emissions of CO₂.

www.ifp.com

The French Environment and Energy Management Agency (ADEME) is a public agency under the joint supervision of the French Ministries for Ecology, Energy, Sustainable Development and Spatial Planning, and for Higher Education and Research. It participates in the implementation of public-policies in the fields of the environment, energy and sustainable development. The agency makes its expertise and consultancy skills available to business, local communities, public authorities and the general public and helps them to finance projects in five areas (waste management, soil preservation, energy efficiency and renewable energies, air quality and noise abatement) and to make progress with their sustainable development procedures.

www.ademe.fr

The BRGM is France's major public organization in the field of Earth Science applications dedicated to managing resources and surface and subsurface risks. It has four key roles: scientific research, support to public-policy development, international cooperation, and mine safety and risk prevention. Its expertise and research activities cover ten thematic fields: geology, mineral resources, geothermal energy, geological storage of CO₂, water, post-mining, natural risks, contaminated land and waste management, metrology, and information systems. It is placed under the joint supervision of the French Ministry for Higher Education and Research and the Ministry for Ecology, Energy, Sustainable Development and Spatial Planning.

www.brgm.fr

Partnership

This symposium represents an advertising opportunity for sponsors. For more information, contact: ■ IFP - yolande.rondot@ifp.fr ■ BRGM - b.gayet@brgm.fr

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