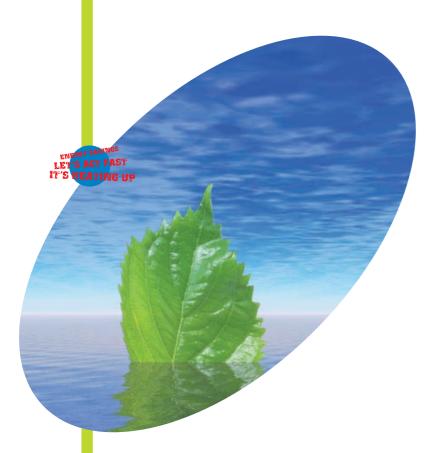
REDUCTION OF EMISSIONS AND GEOLOGICAL STORAGE OF CO₂

INNOVATION AND INDUSTRIAL STAKES



Under the patronage and in the presence of

Serge Lepeltier*
Minister for Ecology and
Sustainable Development

François d'Aubert*
Minister-delegate for Research

Patrick Devedjian Minister-delegate for Industry

With the support of the European Commission,

International Energy Agency

PARIS

15-16 SEPTEMBER 2005

HOTEL "LE MÉRIDIEN ÉTOILE"

Organized by







^{*}to be confirmed.

INTERNATIONAL SYMPOSIUM

The risks associated with climate change demand large-scale initiatives aimed at reducing ${\rm CO_2}$ emissions to levels substantially lower than those currently anticipated. The economic and industrial stakes are therefore considerably high.

The purpose of the symposium is to examine the role of technical innovation as well as the capture and geological storage of CO_2 in reducing greenhouse gas emissions. This symposium will also consider new technological approaches in the light of the resources needed to finance such operations.

Using a broad and multidisciplinary approach, this symposium is intended not only for researchers, industrialists, economists and financiers in the various sectors concerned but also for public and private-sector decision-makers required to make economic and financial choices in this area.

Organization Committee

Pierre Dechamps - European Commission
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Lars Stromberg - Vattenfall
Tore A. Torp - Statoil

PRELIMINARY PROGRAMME

Thursday 15 September 2005

9.15	Talk by a French Minister		
	SESSION I - The international stakes in emissions of greenhouse gases		
	Outlook for global ${ m CO}_2$ emissions. The global and regional scenarios		
9.40	C. Mandil and J. Podkanski (<i>IEA</i>): alternative scenarios for energy use and CO ₂ emissions out to 2050.		
10.00	P. Fernandez Ruiz (European Commission, RTD Energy): WETO study.		
10.20	R. Socolow (<i>Princeton University</i>): the stabilisation of CO ₂ emissions in the coming 50 years.		
10.40	Break		
	Evolution of the international context, the stakes and factor four issues		
11.10	D. Dron (ENS Mines de Paris): costs of climate impacts and ways towards factor four.		
11.30	D. Reiner (MIT/Cambridge University): CO ₂ emissions reduction policy. The United States situation.		
11.50	P. Horrocks (European Commission, DG Environment) (to be confirmed): post-Kyoto scenarios.		
12.10	Round table		
12.55	Lunch		
	SESSION II - CO ₂ emission reductions in energy and transport sectors		
	Reducing ${ m CO}_2$ emissions during the production and conversion of fossil energies (fixed installations)		
14.30	L. Stromberg (Vattenfall): production of electricity from fossil fuels without ${ m CO_2}$ emissions.		
14.50	G. Haupt (Siemens): combined cycles using hydrogen.		
15.10	I. Wright (BP): CO ₂ emission reductions in the oil and gas industry.		
15.30	Break		
	Reducing CO ₂ emissions in the transport sector		
16.00	S. Perkins (OECD) (to be confirmed): sustainable transport systems.		
16.20	A. Morcheoine (ADEME): the prospects of reducing ${\rm CO_2}$ emissions in the transport sector (cars and aviation).		
16.40	W. Steiger (Volkswagen AG) (to be confirmed): the contribution of biofuels and alternative fuels to reducing ${\rm CO_2}$ emissions in the transport sector.		
17.00	Round table		

Friday 16 September 2005

9.00	Talk by a French Minister		
	SESSION III - Technological progress in the capture and geological storage of \mathbf{CO}_2		
9.20	P. Dechamps (European Commission, Research Energy Conversion and Transport): European projects on CO_2 capture and storage.		
	Capture of CO ₂		
9.40	P. Feron (TNO): innovative CO ₂ capture concepts.		
10.00	N. Otter (Alstom): capture of CO ₂ in pre- and oxy-combustion.		
10.20	Break		
	Geological storage of CO ₂		
10.50	N.P. Christensen <i>(GEUS)</i> : geological storage capacity.		
11.10	T.A. Torp (Statoil): feedback from industrial CO2 storage projects.		
11.30	P. Le Thiez (IFP) and I. Czernichowski (BRGM): the main paths of current research.		
11.50	H. Casterman (GDF): long term industrial experience with underground gas storage.		
12.10	Round table		
12.55	Lunch		
	SESSION IV - Regulatory, economical and financial aspects		
	Legal and regulatory framework for capture and geological storage		
14.30	J. Roberts (DEFRA-UK): UK's perspective of the regulatory framework for ${ m CO_2}$ storage.		
14.50	S. Solsbery (ERM): monitoring and reporting of CCS in the European Union Emission Trading Scheme.		
15.10	G. Görne (Greenpeace Germany): social need and public questions and perceptions.		
15.30	3O Break		
	Economic and financial impact		
16.00	G. Heddle (CO_2 -CRC) (to be confirmed): investments needed for CCS deployment.		
16.20	L. Segalen (European Carbon Fund): the characteristics of the ${\rm CO_2}$ markets: players, volumes exchanged, and term and spot transaction prices.		
16.40	J.M. Gires (Total): CO ₂ management.		
17.00	Round table		
17.45	Closing Address - talk by a French Minister		

INTERNATIONAL SYMPOSIUM

IFP is a Research and Development, Training and Information Services center active in the field of energy. Since the skills necessary for the development of the CO_2 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 CO_2 .

The French Environment and Energy Management Agency (ADEME) is a public institution. It contributes to set up policies for environment protection, energy management and sustainable development.

The Agency puts its expertise and council at companies, local authorities and general public disposal. It financially supports projects in the following fields: waste, soil preservation, energy efficiency and renewable energies, air quality, noise reduction.

ADEME also helps organisations and people to make progress in their sustainable development actions.

BRGM is the research and public expertise institution of reference in the application of the geosciences to sustainable development. A pioneer in research on the geological storage of CO_2 since the beginning of the '90s, BRGM is currently a partner in about fifteen European and French projects. For the next three years, BRGM has set itself two priority objectives: identify storage sites, preferably near the places of emission, and determine safety criteria for long-term storage.

Partnership

This symposium is an opportunity for sponsors to communicate and advertise. For further information, contact yolande.rondot@ifp.fr

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