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**ECONOMIC COMMISSION FOR EUROPE**

**COMMITTEE ON SUSTAINABLE ENERGY**

Ad Hoc Group of Experts on Coal and Thermal Power  
Fifth session, 18-19 November 2002

**PROVISIONAL AGENDA FOR THE JOINT WORKSHOP ON  
“CARBON SEQUESTRATION – PATHWAY  
TO A SUSTAINABLE FUTURE FOR FOSSIL FUELS IN  
A CARBON CONSTRAINED WORLD”<sup>1</sup>**

to be held on Tuesday 19 November 2002  
from 3 p.m. to 6 p.m.  
at the Palais des Nations, Geneva

<sup>1</sup> This half-day workshop has been specifically scheduled to allow attendance by participants in both the twelfth session of the Committee on Sustainable Energy and the fifth session of the Ad Hoc Group of Experts on Coal and Thermal Power.

## **Introduction**

1. This Workshop is jointly organized by the Committee on Sustainable Energy and the Ad Hoc Group of Experts on Coal and Thermal Power.
2. It is estimated that the production and use of fossil fuels contributes to 64% of anthropogenic greenhouse gas (GHG) emissions worldwide and that power generation from fossil fuels is responsible for over one-third of global annual carbon dioxide (CO<sub>2</sub>) emissions. Despite CO<sub>2</sub> having a lower Global Warming Potential than other GHGs, its sheer abundance combined with its increasing emission levels indicate that if concentrations of GHGs in the atmosphere are to be decreased, significant reductions in fossil fuel generated CO<sub>2</sub> emissions would be needed. For public and policy acceptance fossil fuels need to respond to the challenge of today's increasingly carbon constrained world.
3. There are a limited number of options currently available for reducing GHGs arising from the generation of energy, notably (i) improving energy efficiency and (ii) use of low-carbon fuels. Carbon sequestration has now emerged as a third option. Carbon sequestration is commonly defined as "the capture and secure storage of carbon emitted from the global energy system".
4. The purpose of this Workshop is to provide a basic introduction to carbon sequestration together with a 'snapshot' overview of the current status of international collaborative efforts to develop carbon sequestration technologies. Carbon sequestration offers significant potential to reduce GHGs at costs and impacts that are economically and environmentally acceptable – as such, an assessment of the current costs and economic considerations will also be provided at the Workshop.
5. A general background paper on 'Carbon Sequestration' will be prepared by the secretariat (ENERGY/GE.1/2002/8).

Half-Day Workshop  
Geneva – 19 November 2002 (3 p.m. to 6 p.m.)

**PROVISIONAL PROGRAMME** as at 9 August 2002

**“Carbon Sequestration – Pathway to a Sustainable Future  
for Fossil Fuels in a Carbon Constrained World”**

Chairman: *Jacek PODKANSKI, Senior Energy Technology Specialist, Energy Technology Collaboration Division, IEA, Paris (Invited)*

3 p.m. **Chairman’s Opening Remarks:**  
Role of Carbon Sequestration in Offering a Potential Solution to the Challenge of a Carbon Constrained World and Introduction to the ‘Zero Emissions Technologies for Fossil Fuels’ (ZETs) Initiative

**Capture**  
Overview of Techniques and Approaches to CO<sub>2</sub> Capture  
*Speaker: Kelly THAMBIMUTHU, Chairman – Executive Committee, IEA Greenhouse Gas R&D Programme (Invited)*

**Storage**  
Overview of Storage Options, in particular Geological Formations, and Global Capacity of Potential CO<sub>2</sub> Storage Sites  
*Speaker: Nick RILEY, Programme Manager, Sustainable Energy & Geophysical Surveys, British Geological Survey, UK*

4.15 p.m. Coffee Break

4.25 p.m. **Selected R&D Initiatives**  
An Overview of Carbon Sequestration Activities and Projects supported by the European Commission’s Research Directorate  
*Speaker: Pierre DECHAMPS, Programme Manager – CCTs, European Commission DG RTD, Brussels (Invited)*

An Overview of the US Department of Energy’s National Energy Technology Laboratory (US DOE NETL) Carbon Sequestration Program and Technology Roadmap  
*Speaker: Charles SCHMIDT, Product Manager, US DOE NETL, USA*

**Economic Considerations**  
An Assessment of the Costs of Carbon Sequestration – An Economically Viable Option for the Future and in which Timeframe?  
*Speaker: Hans-Joachim ZIOCK, Earth and Environmental Sciences Division, Los Alamos National Laboratory, USA (Invited)*

**Chairman’s Closing Remarks**  
What are the prospects for carbon sequestration to meet the challenges for fossil fuels in a carbon constrained world and where should the focus for carbon sequestration lie?