

# **How to reduce greenhouse gas emissions from fossil fuel-fired electricity production?**

20 October 2014, Palais des Nations, Geneva

## **Introduction**

The Group of Experts on Cleaner Electricity Production from Fossil Fuels is mandated by ECE member States to carry out concrete, result-oriented activities that significantly reduce greenhouse gas emissions from fossil fuel-fired electricity production. These activities are implemented with the active participation of the United Nations Economic Commission for Europe (ECE) member States, representatives from the energy and financial sectors and civil society, independent experts, and academia.

According to its Terms of Reference, the Group of Experts concentrates on:

- (a) Regulatory and policy dialogue
- (b) Sharing best practices on cleaner electricity production from fossil fuels in the ECE region
- (c) Carbon Capture and Storage (CCS), as well as carbon utilization
- (d) Enhanced oil recovery with CO<sub>2</sub>
- (e) Advanced fossil fuel technologies for power generation
- (f) Evaluation of efficiency enhancing measures for coal-fired power plants including steam generators, air and flue gas systems, steam turbines, generators

This pre-session workshop is organized in response to requests by some member States to discuss recent developments in the above fields. The primary aim of the workshop is to present some practical tools that could be used to increase capacity of member States to tackle challenges of increasing conversion efficiency while decreasing emissions from their electricity sectors.

The workshop will be held on 20 October 2014, a day before the second session of the Group of Experts on Cleaner Electricity Production from Fossil Fuels. The findings of the workshop will be reported to the Group of Experts, with an aim to make the Group's regulatory and policy dialogue more concrete and substantive.

## **Programme**

### **Opening**

#### **Introduction of participants - Tour de table**

#### **Session 1: Carbon capture and storage: landscape, developments, stakeholders**

Moderator:

Participants:

Barry K. Worthington, Chair

UNECE Group of Experts on Cleaner Electricity Production from Fossil Fuels

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Global Carbon Capture and Storage Institute (GCCSI)

John Panek (?), Carbon Sequestration Leadership Forum (CSLF)

European Commission

UNFCCC

IPCC

#### **Session 2: Increasing conversion efficiency of fossil fuel-fired power plants**

Moderator:

Vladimir Budinský, Vice-chair

UNECE Group of Experts on Cleaner Electricity Production from Fossil Fuels

Participants:

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Clean Coal Centre (CCC) of the International Energy Agency (IEA)

#### **Update on capacity-building activities under UNECE's Air Convention**

Albena Karadjova, Secretary

UNECE Convention on Long-range Trans-boundary Air Pollution

#### **Ventus Project: Sharing information on power plants globally**

Kevin Robert Gurney, Senior Sustainability Scientist

Global Institute of Sustainability, Arizona State University

#### **Session 3: Emerging issues and means of implementation: technology transfer, capacity building and finance**

#### **Session 4: Conclusions and Way Forward**

#### **Cocktail reception**