

# Carbon Capture 2009: Status and Outlook

July 15-17, 2009  
Washington DC

Thursday, July 16, 2009

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8:00-9:00      *Registration and Continental Breakfast*

9:00-9:15      **Chairman's Welcome**

## Session I: Changing Policy Directives

9:15-9:45      **New Carbon Policies at the EPA**

*How will EPA regulate carbon?*

- *Massachusetts vs. Supreme Court*
- *GHG tracking as first declared step*
- *New definition of Best Available Control Technology (BACT) for coal power*
- *Sequestration handling*

**Lisa P. Jackson**, Administrator, U.S. ENVIRONMENTAL PROTECTION AGENCY (invited)

9:45-10:15    *Morning Networking Break*

## Session II: Economic and Technical Risk Factors for Capture Projects

10:15-11:30   *Panel Discussion:*

### **The Carbon Management Process: From CO<sub>2</sub> Tracking to Transport to Underground Injection**

- *What types of carbon tracking systems are generators and utilities using? What is the level of their adoption?*
- *New developments in compression technology – lowering the energy penalty*
- *Building CO<sub>2</sub> pipeline backbones: status*
- *Snapshot of the latest announced sequestration pilots by the regional partnerships*
- *Developments at the states towards settling questions around sequestration leakage liability*

*Moderator:*

**Sherry Tucker**, Consultant, DENBURY RESOURCES

*Panelists:*

**Glen Andersen**, Program Principal, Energy Program, NATIONAL CONFERENCE OF STATE LEGISLATURES

**Chris Hunter**, Vice President, CLIMATE CHANGE CAPITAL

**Eddy Isaacs, Ph.D., FCAE**, *Executive Director*, ALBERTA ENERGY RESEARCH INSTITUTE  
**Philip Jagucki**, SCHLUMBERGER CARBON SERVICES  
**Charles McConnell**, *Vice President of Carbon Management*, BATTELLE  
**Lindene Patton**, *Chief Climate Product Officer*, ZURICH FINANCIAL SERVICES GROUP

11:30-1:30 *Group Luncheon*

*Session III: Funding the Transition to Carbon Capture*

1:30-2:30 **International Policies and Funding Increases for Carbon Capture and Sequestration Pilots and R&D**

*The EU is on the verge of directing 10-12 billion in Euros from carbon credits into a raft of new pilot projects, on top of 5 already approved. Australia is committing sizeable resources, Alberta is allocating \$2 billion to clean up emissions from oil sands and coal projects, with more from the central government, while China is increasingly supportive of capture retrofit and IGCC projects, offering a huge market for innovative technologies and new projects. This session will outline the large and growing commercial opportunities available for US developers and capture technology vendors emerging overseas.*

*Presenters:*

**Dr. William Kyte, OBE**, *Senior Advisor, Climate Change*, E. ON AG, *Honorary President*, UK EMISSIONS TRADING GROUP (ETC) LTD., and *Chief Advisor, International Climate Policy*, EURELECTRIC  
**C. Lowell Miller, Ph.D.**, *Director, Office of Sequestration, Hydrogen and Clean Coal Fuels*, U.S. DEPARTMENT OF ENERGY

2:30-3:00 **Update on DOE Loan Guarantees and Capture R&D Funding**

*This presentation will provide an inside-view of the stimulus funding mechanism at DOE for new capture projects and retrofits, highlighting program goals, selection criteria, and steps in the application process.*

**Darren Mollot, Ph.D.**, *Senior Program Manager, Office of Fossil Energy*, U.S. DEPARTMENT OF ENERGY

3:00-3:30 *Afternoon Networking Break*

3:30-4:30 *Panel Discussion:*

**The New Financial Equation: Leveraging ARRA Funding for Capture Pilots and Retrofits**

*Equity, lenders and developers discuss how access to DOE loans and loan guarantees change the financial equation. Will it be enough to compensate for the drying up of capital and credit on the markets? How far will this first wave of Stimulus support extend in terms of projects on the drawing board or even “shovel-ready”? Will 2009-2010 policy and law changes in total finally remove the uncertainty that has been crippling retrofit and new project investments of late?*

*Moderator:*

**Richard Shields**, *President*, AMERICAN OPERATIONS CORPORATION

*Panelists:*

**John Clapp**, *Managing Director*, Global Power, CITI MARKETS & BANKING

**Gerd Goette**, *Vice President and Managing Partner*, SIEMENS VENTURE CAPITAL (SVC)

**Joe Tondy**, *President*, TONDU CORPORATION

**Scott Fisher**, *Director*, Policy Coordination, NRG ENERGY

July 17, 2009

8:00-9:00      *Registration and Continental Breakfast*

9:00-9:30      **Market Outlook for Carbon Capture and Sequestration**  
*Activities are underway in all developed countries to control carbon emissions from power plants. Recent funding increases in the EU, Canada and Australia, not to mention the US, may be priming the market for vendors with commercial solutions and services. China also offers a very large market, with 1-2 new coal plants built every month. This presentation will analyze the drivers and trendlines for different types of fossil power plants and solutions, and the likely impacts of stimulus funding on US capture-related companies.*

**Mark Taylor**, *Associate*, NEW ENERGY FINANCE

Session IV: Capture Demonstration Projects Update

*This session will bring the preceding discussion down to earth by profiling four exciting capture pilots from the US and Europe. Presenters will discuss the unique economic, permitting and operational issues around implementation of capture systems.*

9:30-10:00      Update on E.ON CCS Demonstration Projects  
**Dr. William Kyte, OBE**, *Senior Advisor, Climate Change*, E. ON AG, *Honorary President*, UK EMISSIONS TRADING GROUP (ETC) LTD., and *Chief Advisor, International Climate Policy*, EURELECTRIC

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10:00-10:30      *Morning Networking Break*

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10:30-11:00      Plant Retrofit Project at **Lacq, France – 60,000 Tons/Year**  
**Philippe Paelinck**, *Director CO2 Market*, ALSTOM, FRANCE

- 11:00-11:30 *Plains CO<sub>2</sub> Reduction (PCOR) Partnership Projects at Fort Nelson and Williston Basin*  
**Edward Steadman**, *Senior Research Advisory, Energy & Environmental Research Center*, UNIVERSITY OF NORTH DAKOTA
- 11:30-11:45 **Chairman's Concluding Remarks**
- 11:45 Conference Adjourns