

Conference on Regulating and Financing Carbon Capture and Storage (CCS)

organised by Swiss Re Centre for Global Dialogue & International Risk Governance Council (IRGC)

7–8 November 2007, Swiss Re Centre for Global Dialogue, Rüschlikon, Switzerland

Wednesday, 7 November 2007

09.00–10.30 **Opening Session**

Introduction and setting the scene

Chair: Donald J. Johnston, Chairman of the IRGC Board and formerly Secretary General, Organisation for Economic Co-operation and Development (1996–2006)

09.00–09.15

Conference opening

Christian Mumenthaler, Member of the Executive Board, Chief Risk Officer, Swiss Re, Switzerland

Donald J. Johnston, Chairman of the IRGC Board and formerly Secretary General, Organisation for Economic Co-operation and Development (1996–2006)

09.15–09.45

Presentation

Carbon capture and deep geological sequestration: an overview

Prof. Granger Morgan, Chair Professor, Department of Engineering and Public Policy, Carnegie Mellon University, USA

09.45–10.05

Presentation

CCS in the context of climate change mitigation

Prof. Ed Rubin, Department of Engineering and Public Policy, Carnegie Mellon University, USA

10.05–10.30

Presentation

The CCS regulation challenge

Thomas Kerr, Senior Energy Analyst and Attorney, International Energy Agency, France

10.30–11.00

Break and refreshments

11.00–12.45

Session 1

Providing confidence in CCS technology and its associated risks

Chair: Dr. Lutz Cleemann, Executive Vice President of Allianz Global Corporate & Specialty (AGCS), AZT Risk & Technology, Germany

11.00–11.15

Presentation

Current state of CCS technology and future challenges

Dr. Dietmar Keller, Deputy Manager of the RWE IGCC CCS-Project, RWE Power AG, Germany

11.15–11.30

Presentation

The risk management challenge

Dr. Wolfgang Heidug, General Manager CO2 Policy, Shell International Renewables, The Netherlands

11.30–11.45

Presentation

The commercialisation challenge

Iain W. Wright, CO2 Project Manager, BP Alternative Energy plc, UK

- 11.45–12.00 Presentation
The communication challenge
Prof. Ragnar Löfstedt, Director, King's Centre for Risk Management,
King's College London, UK
- 12.00–12.45 Panel and plenary discussion
Assessment of risks of CCS
moderated by Dr. Lutz Cleemann, Executive Vice President of Allianz Global Corporate &
Specialty (AGCS), AZT Risk & Technology, Germany
- Additionally in the panel discussion:
Adrienne Atwell, Senior Vice President, Head of Facultative Oversight, Swiss Re America,
USA
- 12.45–14.30 Lunch
- 14.30–18.00 Session 2**
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- Legal enabling for the rapid start of diverse full-scale demonstration projects**
Chair: Prof. Granger Morgan, Chair Professor, Department of Engineering and Public Policy,
Carnegie Mellon University, USA
- 14.30–15.00 Presentation
Recommendations by the IRGC for the regulation of CCS
Prof. Elizabeth Wilson, Assistant Professor of Energy and Environmental Policy and Law,
Humphrey Institute of Public Affairs, University of Minnesota, USA
- Legal enabling for CCS: policy approaches in different regions**
- 15.00–15.15 Presentation
CCS policy in China
His Excellency Dr. Liu Yanhua, Vice Minister, Ministry of Science and Technology, PR China
- 15.15–15.30 Presentation
CCS policy in the EU
Scott Brockett, CCS Policy Desk Officer, Environment DG, European Commission, Belgium
- 15.30–15.45 Presentation
CCS policy in the US
Casie Davidson, Research Scientist, Joint Global Change Research Institute, Pacific
Northwest National Laboratory, USA
- 15.45–16.15 Break and refreshments
- 16.15–16.30 Presentation
CCS within Kyoto and beyond
Heleen de Coninck, Researcher, Energy Research Centre of the Netherlands (ECN), The
Netherlands
- 16.30–16.45 Presentation
Policy approaches globally
Florin Vladu, Programme Officer, Technology Adaptation, Technology and Science
Programme, UNFCCC Secretariat, Germany
- 16.45–17.45 **Panel and plenary discussion**
moderated by:
Prof. Granger Morgan, Chair Professor, Department of Engineering and Public Policy,
Carnegie Mellon University, USA
- 17.45–18.00 **Introduction to open access website on CCS legislation**
Ian Havercroft, Centre for Law and the Environment, University College London, UK
- 18.30–19.30 Apéro
- 19.30–22.00 Dinner

Thursday, 8 November 2007

08.30–10.15 Session 3

Exploring the means to attract commercial investment in CCS

Chair: Prof. Carlo Jaeger, Head, Department for Global Change and Social Systems, Potsdam Institute for Climate Impact Research, Germany

08.30–08.45

Presentation

Exploring the means to attract commercial investment

Dr. Paul Zakkour, Principal Consultant, Energy & Climate Change, Environmental Resources Management (ERM), UK

08.45–09.00

Presentation

Incentivising CCS through market based mechanisms

Prof. Catrinus J. Jepma, Professor of Energy and Sustainability, Department of Economics and Business, University of Groningen, The Netherlands

09.00–09.15

Presentation

Threats and opportunities in the commercial deployment of CCS

Jeff Chapman, Chief Executive, The Carbon Capture and Storage Association, UK

09.15–10.15

Panel and plenary discussion

Exploring the means to attract commercial investment in CCS

moderated by: Prof. Carlo Jaeger, Head, Department for Global Change and Social Systems, Potsdam Institute for Climate Impact Research, Germany

Additionally in the panel discussion:

Iain W. Wright, CO2 Project Manager, BP Alternative Energy plc, UK

10.15–10.45

Break and refreshments

10.45–12.30 Session 4

Resolving the long-term liability contractual risk of slow CO2 leakage

Chair: Christopher Norton, Partner, Environment and Climate Change, Lovells LLP, UK

10.45–11.00

Presentation

The long-term liability contractual risk of slow CO2 leakage

Christina Ulardic, Vice President, Risk Management, Swiss Re, Switzerland

11.00–11.15

Presentation

Options for managing liability in CCS technology

Cliff Warman, Senior Vice President, Environmental Practice, Marsh, UK

11.15–11.30

Presentation

Managing the "triple bottom line" risk

Gudmundur Sigurthorsson, Senior Vice President, Det Norske Veritas (DNV), The Netherlands

11.30–12.30

Panel and plenary discussion

Resolving the long-term liability contractual risk of slow CO2 leakage

moderated by: Christopher Norton, Partner, Environment and Climate Change, Lovells LLP, UK

12.30–14.30

Lunch

Focused lunch time discussions:

Focus 1: **Financing carbon capture and storage**

Moderated by: Prof. Carlo Jaeger, Head, Department for Global Change and Social Systems, Potsdam Institute for Climate Impact Research, Germany

Focus 2: **Resolving the long-term liability contractual risk**

Moderated by: Prof. Richard Macrory, Director, Centre for Law and the Environment, Faculty of Laws, University College London, UK

Focus 3: **Coordination of carbon capture and storage policy**

Moderated by: Prof. Ed Rubin, Department of Engineering and Public Policy, Carnegie Mellon University, USA

14.30–16.00

Session 5

Policy implementation and public confidence

Chair: Christopher Bunting, Secretary General, IRGC, Switzerland

14.30–14.45

Presentation

Perceptions of geologic sequestration in California's Central Valley

Gabrielle Wong-Parodi, Research Associate, Energy and Resources Group, University of California, Berkeley, USA

14.45–15.00

Presentation

Public perception and confidence in CCS

Jared Huffman, Assemblymember, California State Assembly, USA

15.00–15.15

Presentation

Public perception of CCS

Dr. Gabriela von Goerne, Climate Campaigner, Greenpeace Germany, Germany

15.15–16.00

Panel and plenary discussion

Policy implementation and public confidence

moderated by: Christopher Bunting, Secretary General, IRGC, Switzerland

16.00–16.15

Break and refreshments

16.15–17.00

Conclusion

16.15–17.00

Summary and conclusion of the conference

Prof. Granger Morgan, Chair Professor, Department of Engineering and Public Policy, Carnegie Mellon University, USA

18.30–19.45

Side event: Public session on CCS (Risk Talk)

led by Prof. Elizabeth Wilson, Assistant Professor of Energy and Environmental Policy and Law, Humphrey Institute of Public Affairs, University of Minnesota, USA