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Energy Agency



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# Managing long-term liability for geologic storage of CO<sub>2</sub>

Joint IEA-GCCSI Workshop

Paris, France

20-21 April 2015

# Things Ian & Sean heard yesterday (1)

- To date, permitting has required extensive dialog between all parties in government and with the applicant
- General consensus that, regardless of regulatory framework, liability remains a critical issue
- Difference in perception of risks associated with storage and the reality
- Clear that one of the main technical requirements to develop a project is contingency planning
- Many lessons learnt from permitting – in US, and presumably elsewhere – including need for responsive (performance-based, adaptive) regulation

## Things Ian & Sean heard yesterday (2)

- Uncertainties will exist in every project; however, existing projects have all faced different uncertainties
- At “closure”, active risk management should end; potentially, no need for monitoring (at least from a technical perspective)
- CCS communication has, by-and-large, ignored 40 years of research on risk perception and communication... Opportune time to start building on the basics.

## Things Ian & Sean heard yesterday (3)

- Trust and voluntary/involuntary nature of risk are the two largest issues facing CCS
- Need for more proactive communication on CCS, but be wary of “educating” the public (and Marxist pensioners)
- Many options exist for liability rules and compensation schemes
- Different perspectives expressed on both rules and compensation mechanisms – need to clarify the choices to be made.

# A workshop in four parts

- Part 1: Latest findings on risks of geologic storage and permitting experiences  
*Review of current state of knowledge associated with storage and permitting frameworks*
- Part 2: An economics of law approach to liability  
*Examine how law and economic incentives interact to drive behavior*
- Part 3: Approaches and experiences to date with liability and geologic storage  
*Review the existing approaches managing liability associated with CO<sub>2</sub> storage*
- Part 4: Developing Recommendations  
*Draw conclusions based on the previous discussion*

# Today: Turning theory into practice

1. Review the latest findings on liability based on both research and actual project experience;
2. Re-evaluate the nature and magnitude of the problem and potential solutions; and,
3. **Develop recommendations for governments that have yet to address liability for CO<sub>2</sub> storage**

# Today's agenda

## 09:00 Day 2: Opening Remarks

A review of Day 1

**Sean McCoy, IEA & Ian Havercroft, GCCSI**

## 09:00 Part 3: Approaches to and experiences to date with liability and geologic storage

A summary of case studies from around the world

**Ian Havercroft, GCCSI & Richard Macrory, UCL**

Alberta, Canada

**Jason Toner, Alberta Energy**

## 10:30 Coffee

Australia

**Matthias Raab, CO2CRC**

United States

**Jordan Kislear, US DOE**

## 12:30 Lunch

## 13:30 Part 4: Developing recommendations

Moderated discussion

**Richard Macrory, UCL & Ward Goldthorp, Crown Estate**

## 15:30 Closing Session: Trends, challenges and next steps

Closing remarks

**Sean McCoy, IEA & Ian Havercroft, GCCSI**

# Outputs from the meeting

- Presentations hosted on an [IEA meeting page](#) *with presenters consent*
- Workshop report on that summarizes discussion over the following days *without explicit attribution*
- Participants will be given the option to review the meeting report prior to its publication
- IEA and GCCSI will use the recommendations emerging from the workshop to inform their communication with other stakeholders