



## Taking stock of progress and identifying next steps

### 6<sup>th</sup> IEA International CCS Regulatory Network Meeting, 27-28 May 2014, IEA Paris

A flurry of activity took place between 2005 and 2011 during which time many OECD governments developed and implemented regulatory frameworks for geologic storage; since then, the pace of developments in the area of CCS law and regulation has slowed. In countries that have regulatory frameworks for CCS, the extent to which these frameworks have been tested varies: some governments have detailed frameworks that are being applied to demonstration projects (e.g., United States, Alberta) while others have detailed frameworks but few projects (e.g., Australian Federal Government, European Union member states). Of course, many other countries have yet to establish frameworks, but have processes underway that may lead to their development (e.g., New Zealand, South Africa) in the near future. The objective of this meeting is to better understand progress to date around the world, develop a more complete understanding of the next steps for countries at all stages of regulatory development, and provide a forum for information sharing that can allow all countries to benefit from the lessons that are being learnt today.

#### Day 1: Tuesday, 27 May 2014

08:30	Registration	
09:00	<b>Opening Session</b>	
	Welcome and opening remarks	Philippe Benoit, Energy Efficiency & Environment Division, IEA
	Scene setting for meeting	Sean McCoy, CCS Unit, IEA
09:30	<b>Session 1: Developing regulatory frameworks</b>	<b>Chair: Nigel Bankes, University of Calgary, Canada</b>
	New Zealand	Barry Barton, The University of Waikato, New Zealand
	Indonesia	F.X. Sutijastoto, Ministry of Energy and Mineral Resources, Indonesia
	GCC Countries	I-Tsung Tsai, Masdar Institute, United Arab Emirates
10:30	Coffee	
	South Africa	Muzi Mkhize, Department of Energy, South Africa
	Japan	Ryozo Tanaka, RITE, Japan
	Botswana	Oarabile Seiphemo, Department of Geological Survey, Botswana
12:00	Lunch	
13:00	<b>Session 2: European developments</b>	<b>Chair: Navraj Singh Ghaleigh, Edinburgh Law School, United Kingdom</b>
	Norway	Mette Agerup, Ministry of Petroleum and Energy, Norway
	Poland	Adam Wójcicki, Polish Geological Survey, Poland
	Germany	Almut Fischer, Federal Ministry for Economic Affairs and Energy, Germany
	Upcoming Review of the EU Directive	Beatrice Coda, European Commission
14:30	Coffee	

<b>15:00</b>	<b>Session 3: Developments in North America</b>	<b>Chair: Wendy B. Jacobs, Harvard Law School</b>
	US Federal environmental regulations for geologic storage	Bob van Voorhees, Carbon Sequestration Council, United States
	Regulating the US DOE RCSP projects	Jarad Daniels, United States Department of Energy
	Canadian federal and select provincial developments	Kathryn Gagnon, Natural Resources Canada
	Alberta	Rob Bioletti, Alberta Energy
<b>17:00</b>	<b>Closing remarks</b>	
<b>19:30</b>	<b>Dinner</b>	

**Day 2: Wednesday, 28 May 2014**

<b>09:00</b>	<b>Session 4: Trends, challenges and next steps in CCS regulation</b>	<b>Chair: Ian Havercroft, GCCSI</b>
	Panel discussion	Nigel Bankes, University of Calgary, Canada Barry Barton, The University of Waikato, New Zealand Navraj Singh Ghaleigh, Edinburgh Law School, United Kingdom Wendy B. Jacobs, Harvard Law School, United States
<b>10:10</b>	<b>Coffee</b>	
<b>10:40</b>	<b>Session 5: Emerging findings from research that may impact regulation of geologic storage</b>	<b>Chair: Tim Dixon, IEAGHG</b>
	Soil gas monitoring techniques and implications for MMV plans	Katherine Romanak, University of Texas at Austin, United States
	Offshore monitoring for geologic storage	Douglas Connelly, National Oceanography Centre, United Kingdom
	Risk management and best practice for CO <sub>2</sub> storage site closure – key messages from the CO2CARE project	Jens Wollenweber, TNO, Netherlands
	Reducing risk and uncertainty through modelling	Grant S. Bromhal, National Energy Technology Laboratory, United States
<b>12:30</b>	<b>Lunch</b>	
<b>13:30</b>	<b>Session 6: The relationship between standards and regulation</b>	<b>Chair: Barry Barton, The University of Waikato, New Zealand</b>
	The role of international standards in harmonizing environmental performance	Céline Kauffmann, Organization for Economic Cooper
	How does industry use standards?	Denis Deutsch, TOTAL, France
	ISO TC 265 Process and update	Hervé Quinquis, IFP Energies nouvelles, France
	What does CSA 741-12 say about geological storage?	Sean McCoy, IEA
<b>15:30</b>	<b>Closing Session: Trends, challenges and next steps</b>	
	IEA CCS Law and Regulation Database	Sean McCoy, IEA
	How can the network help you?	Juho Lipponen, IEA
<b>16:00</b>	<b>Close</b>	