



## European CO<sub>2</sub> Capture and Storage (CCS) Demonstration Project Network

2nd Advisory Forum, 16 June 2011, 08:30-13:45

Centre Borschette, Rue Froissard 36, Brussels

### Draft Agenda and pre-read annexes

Time	Subject	Presenter
08:30	Arrival and coffee	
09:00	Welcome from the European Commission	<b>G. Oettinger</b> , European Commissioner for Energy, or <b>H. Hilbrecht</b> , Director, DG Energy
09:15	Introduction to the agenda and review of the 2010 Advisory Forum recommendations by the Chairs	<b>J. Panek</b> , Head of Unit, DG Energy; <b>G. Sweeney</b> , Chairman, ZEP
09:35	Feedback from Rotterdam 2011 knowledge dissemination event	<b>S. Bennett</b> , DG Energy
09:50	<u>Discussion point 1</u> : <i>What has changed in the outlook for CCS over the past year and how can the CCS Project Network respond to these changes?</i>	Discussion led by <b>G. Sweeney</b>
10:20	Coffee	
10:40	Overview of CCS Project Network activities in the past year; Update on status of projects	<b>S. Thon</b> , DNV; <b>U. Gade</b> , Steering Committee Chair
11:00	Knowledge sharing and the Project Network: global context	To be confirmed
11:20	<u>Discussion point 2</u> : <i>How can the benefits of international knowledge sharing be realised most effectively?</i>	Discussion led by <b>J. Panek</b>
11:50	Expectations of non-member CCS projects and Member State governments for the contribution of the CCS Project Network	To be confirmed
12:20	Lunch	
13:10	<u>Discussion point 3</u> : <i>What recommendations should be made to the CCS Project Network Steering Committee for work in the coming 12-18 months?</i>	Discussion led by <b>G. Sweeney</b>
13:30	Conclusions from the Chair and recording of recommendations	Chair and Co-Chair



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## Annex I. Purpose and procedures

- A primary purpose of the Advisory Forum is to advise the Network's Steering Committee (representatives of each project that is a member) on topics that could usefully be addressed by the Network over the coming 12-18 months.
- The Advisory Forum reviews the progress of the network and specifies what information could most usefully be provided as an output of Network activities to ensure an accelerated introduction of CCS, e.g. by informing research activities, communication strategies or policy.
- For this first meeting the background reading includes:
  - Minutes of the Advisory Forum meeting 2010
  - CCS Project Network Sharing event reports
  - CCS Project Network Thematic Reports 2010-11All available at: <http://ccsnetwork.eu/index.php?p=networkAdvisoryForum2011>
- The meeting is an opportunity for representatives of a variety of CCS stakeholders to present requests and ideas for output that the Network could usefully work towards. This 'wishlist' of requests should be justified with sound reasons for how output would advance CCS development in Europe for the public good, and why it would be uniquely available from the Network. Furthermore, attention should be given to the format of the outputs of the Network to ensure that they are as valuable as possible.
- The Advisory Forum provides an opportunity for questions to be asked of the Network's Steering Committee about project progress and common challenges.
- The meeting should result in a succinct set of recommendations to be recorded and made to the Network's Steering Committee to be taken into account when planning the forthcoming Network activities.
- The Advisory Forum is not a privileged body that receives information/knowledge from the Network that is not public nor will their participants receive any preferential treatment with respect to knowledge sharing.
- Given the time constraints presented by the agenda and also the capacity of the meeting room (approx. 70 persons) written contributions will be a valuable way of ensuring that all voices are heard. Any written responses to the discussion questions from all stakeholders will be duly considered in the final recommendations. Please send these to [ener-ccsnetwork@ec.europa.eu](mailto:ener-ccsnetwork@ec.europa.eu) by the end of June 2011.
- More information on the European CCS Demonstration Project Network is available at [www.ccsnetwork.eu](http://www.ccsnetwork.eu), where the relevant contact details can also be found.



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## Annex II. Discussion Questions

Responses to these eight questions will be discussed during the meeting and incorporated into the recommendations to the CCS Project Network Steering Committee for implementation.

### Discussion point 1:

*What has changed in the outlook for CCS over the past year and how can the CCS Project Network respond to these changes?*

Since the last Advisory Forum we have learned more about the opportunities and challenges facing CCS demonstration projects in Europe. The CCS Project Network brings together solely the first CCS demonstration projects; this gives it a high level of focus on the progress and challenges experienced by those involved in these projects. There is a need for the agenda of the Network to be able to respond to new changes in the energy and climate landscape.

1. Can the CCS Project Network make a contribution to resolving outstanding challenges in crucial areas, such as: legislation, liability, and infrastructure?
2. What have we learned about communicating about CCS projects from the experiences at Barendrecht, Weyburn and Mongstad, and is there a role for the CCS Project Network in this area?
3. How can these actions be shaped to benefit potential users?

### Discussion point 2:

*How can the benefits of international knowledge sharing be realised most effectively?*

The CCS Project Network seeks to engage with the wider CCS community worldwide to raise awareness and understanding of CCS demonstration, to assist in lowering costs and to facilitate adoption of the technology. European CCS demonstration projects will not cover all of the possible combinations of capture, transport and storage techniques, yet in order for informed investment and policy decisions to be made for CCS deployment it will be important to understand the efficacy of the available options. In 2010 the CCS Project Network took steps towards structured engagement with demonstration projects in Canada and the US, and held a first workshop with US project developers.

4. How might the CCS Project Network proactively engage with other bodies that are active in CCS worldwide, in order to meet its objectives?
5. What will be the key outcomes of effective international collaboration?



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**Discussion point 3:**

*What recommendations should be made to the CCS Project Network Steering Committee for work in the coming 12-18 months?*

The CCS Project Network has been initiated to leverage information that is generated in the projects for diffusion to policy-makers and other stakeholders, and to bring projects together to enable them to cooperate and learn from each other about good practices for addressing the challenges of large-scale CCS demonstration.

6. What challenges do you expect CCS demonstration projects – at all stages of development – to face in the next 12-18 months?
7. How do you think the CCS Project Network might best address these challenges?
8. What contributions, based on your existing experiences, do you think you could make to the work of the CCS Project Network to help overcome these challenges, and what type of interaction might you envisage?



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## Annex III. Actions in response to the recommendations of the 2010 Advisory Forum

- 1) **(More) frequent and extensive knowledge harvesting and dissemination:**
  - a) Increase the frequency of knowledge sharing events and their external output  
→ Minutes of knowledge sharing events are now more detailed.
  - b) Steering Committee and ZEP to explore additions to knowledge reporting template and interlink of the PN output with CCS EII's KPIs  
→ Finalised knowledge sharing template published in January 2011 after consultation with ZEP and integration with CCS EII KPIs.
  - c) Recommended new themes: Onshore storage sub-group; funding models; inter-relation between risk management and communication/public engagement (e.g. risk-communication strategy)  
→ Storage is now a theme for discussion in 2011, with distinction between onshore and offshore where appropriate.  
→ Relationship between risk management and public engagement is integrated into Public Engagement theme.
  - d) Seek to highlight what is common, not unique for the projects  
→ This is hopefully reflected in the 2010-11 Thematic Reports.
- 2) **More regular/frequent consultation of stakeholders:**
  - a) Advisory Forum held more often? Longer meetings?  
→ The 2011 Advisory Forum has been brought forward to June. It would be possible to hold another in 2011 if this was considered valuable.
  - b) More regular links to ZEP Task Forces  
→ There has been at least one representative of the CCS Project Network at all recent Task Force meetings and an intranet page established for sharing feedback.
  - c) Linking with broader CCS community – other networks (CO2Net, ...), R&D entities, smaller projects  
→ As a first step, workshop was held in March 2011 in Lacq at the invitation of Total. Representatives of the CCS Project Network held discussions on communication, storage experience, and oxy-combustion with representatives of the Getica, Ivanic/Zutica, K12-B, Ketzin, Lacq, Longannet and Sleipner projects.
- 3) **Contribution to wider CCS issues – SC to consider PN's contribution on:**
  - a) CCS Directive implementation, incl. financial liability&security and hand-over of sites; Bridging funding gap; Best practices in storage site selection and preparation; NER 300  
→ As a first step, best practices in site selection and preparation are now discussed in the Storage theme of the CCS Project Network.
- 4) **International relationships:**
  - a) Steering Committee to play a role in linking up with large-scale projects outside EU  
→ A workshop was held in February 2011 with representatives of the US DOE and Regional Sequestration Partnerships.
  - b) Coordination between Project Network and Global CCS Institute thematic groups  
→ Collaboration with the Global CCS Institute is ongoing and resulted in the joint knowledge dissemination event in Rotterdam in May 2011.



## Annex IV. Participants in the CCS Project Network Advisory Forum 2010

Full Name	Representing	Organisation
Kirsty Anderson	Longannet Project	Scottish Power
Pietro Barbucci	Porto Tolle Project	Enel
Emma Batchelor	UK	Office of Carbon Capture and Storage
Bas Batelaan	Ferrybridge/Peterhead Project	Scottish and Southern Energy
David Baxter	EC	Joint Research Centre
Simon Bennett	EC	DG Energy, European Commission
Karl Bergman	Jaenschwalde Project, Project Network Steering Committee	Vattenfall
Heinz Bergmann	ZEP Coordination Group	RWE
Maarten Berkhout	Magnum Project	Nuon
Lara Blake	EC	DG Energy, European Commission
Chris Bolesta	EC	DG Energy, European Commission
Grant Budge	Hatfield Project, Project Network Steering Committee	Powerfuel
Jeff Chapman	Industry Organisation	CCSA
Niels Peter Christensen	ZEP Task Force Technology	Vattenfall
Annette Cutler	R&D	CO2NET
Luc de Marliave	Lacq Project	Total
Eric Drosin	ZEP Task Force Public Communication	ZEP
Ramon Fernandez Cuellar	Compostilla Project, Project Network Steering Committee	Endesa
Paal Frisvold	ZEP Advisory Council	Bellona
Francois Giger	ZEP Task Force Policy & Regulation	EDF
Annemarieke Grinwis	Netherlands	Ministry of Economic Affairs
Wolf Heidug	International Organisation	IEA
Kristoffer Hetland	ZEP Task Force Policy & Regulation	Statoil
Heinz Hilbrecht	EC	Director, DG Energy, European Commission
Peer Hoth	Germany	Federal Ministry of Economics and Technology
Cristiana Ion	Turceni Project	Romanian Ministry of Economy, Trade and Business



		Environment
Robin Irons		E.ON
Francois Kalaydjian	ZEP Advisory Council, Chairman	IFP
Eelco Kruizinga	CCS Project Network	DNV
Salvatore Lombardi	R&D	CO2GeoNet, Sapienza University of Rome
Martin Madrid	Compostilla Project, Project Network Steering Committee	Endesa
Milenka Mitrovic	Non-EU Government	Natural Resources Canada
Marian Motocu	Turceni Project	CE Turceni
Christian Oeser	France	Ministry of Ecology, Energy, Sustainable Development and the Sea
Nick Otter	International Organisation	GCCSI
Philippe Paelinck	ZEP Task Force Demonstration & Implementation	Alstom
Pedro Palencia de Sarria	Spain	Ministry of Industry, Tourism and Trade
Jan Panek	EC	DG Energy, European Commission
Bob Pegler	International Organisation	GCCSI
Wiktor Raldow	EC	DG RTD, European Commission
Philip Ringrose	Sleipner/Snohvit Project	Statoil
Raphael Sauter	EC	DG CLIMA, European Commission
Hans Schoenmakers	ROAD Rotterdam Project, Project Network Steering Committee	Maasvlakte JV
Jeroen Schuppers	EC	DG RTD, European Commission
Philip Sharman	ZEP Advisory Council	Alstom
Tone Skogen	ZEP Government Group / Norway	Ministry of Petroleum and Energy
Esa Suoninen	FINNCAP - Meri-Pori Project	Fortum
Graeme Sweeney	ZEP Advisory Council, Chairman	Shell
Derek Taylor	International Organisation	GCCSI
Steinar Thon	CCS Project Network	DNV
Claudia Tomescu	Turceni Project	Institute for Studies and Power Engineering
Piotr Tulej	EC	DG CLIMA, European Commission
Kai Tullius	EC	DG Energy, European Commission



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Evangelos Tzimas	EC	Joint Research Centre
Robert van der Lande	ZEP	Secretariat
Elzbieta Wróblewska	Poland	Ministry of Economy
Nicolas Ximénez Bruidegom	ZEP Task Force Demonstration & Implementation	Shell
Helen Young	Kingsnorth Project	E.ON

