



# **Development of Plan for Projects Workshop**

**CSLF Meeting, Warsaw, Poland**

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**Agenda 15**

**TAB 22**



## Recommendations

- That the TG note the report [TAB 22]
- That the TG support the establishment of topic – focussed work shops



## Background – CSLF Projects Surveyed

1. What do you need to make the project succeed?
2. What advantages do you see from greater CSLF project interaction?
3. What else should the CSLF do?
4. ***Would you be interested in participating in a conference / workshop on CSLF projects? And if so, what format is desirable for you?***

Responses were received from 17 projects



## Survey results - general

Majority support focused, topic- specific workshops

- Enables delegates and stakeholders to share learnings from CSLF-recognized projects

Workshops should allow:

- Time for in-depth discussion of presentations
- Outcomes and discussions to be summarized - available to all CSLF members



## Survey results - specific

### Topics should be determined by members

- Lessons learned from storage exploration
- Saline aquifer projects
- Monitoring and verification techniques
- Environmental issues associated with amine emissions

### Sharing of learnings

- Knowledge should be distributed within CSLF projects to all members
- Workshops provide best platform for exchange of information

**Models include the Gordon Research Conferences and the American Association of Petroleum Geologists (AAPG) Hedberg Conferences.**



# Issues associated with CCS workshops

## Avoid duplication

- Many CCS conferences and workshops
  - Important platforms for *ad hoc* exchange of information
- Dilutes limited resources

Organisation	Event	Meeting Dates	Place
IEAGHG	Solid Looping	15-17 September	Alkmaar, Netherlands
	GHGT-10	19-23 September	Amsterdam, Netherlands
	Natural Releases of CO <sub>2</sub> : Building Knowledge for CO <sub>2</sub> Storage Environmental Impacts	2-4 November	Maria Laach, Germany
	Energy Efficiency and Clean Coal Technologies Workshop	25-27 October	Moscow
	APP - Oxyfuel Working Group Capacity Building Course	12 September 2011	Queensland, Australia
	2nd International Oxyfuel Combustion Conference	12-16 September 2011	Queensland, Australia
CSLF	CSLF Annual Meeting	6-8 October 2010	Warsaw, Poland
NETL	2010 CO <sub>2</sub> Capture Technology Meeting	13-17 September 2010	Pittsburgh, USA
CO <sub>2</sub> Net	SPE International Conference on CO <sub>2</sub> Capture, Storage & Utilization	10 - 12 November 2010 -	Louisiana, USA
ZEP	Building Public Awareness of CO <sub>2</sub> Capture and Storage (EESC)	13 October 2010	Brussels, Belgium
	General Assembly	13 October 2010	Brussels, Belgium
Industrial and Power Association	Clean Coal and Carbon Capture and Storage Conference (Industrial and Power Association)	21 October 2010	Falkirk, UK
Zeroemission Rome	Zeroemission 2010	8 September 2010	Rome, Italy
American Conference Institute	4th annual Carbon Capture and Sequestration Summit	29-30 September	Washington DC, USA
World Energy Council	World Energy Congress	12-16 September	Montreal, Canada
niversit� d'Orl�ans, CIRED, BRG	Workshop: First International Workshop on Biomass and CCS	14-15 October	Orleans, France
European Commission	Fossil Fuels Forum	18-19 October	Berlin, Germany
FENCO-ERA	The Fossil Energy Coalition Conference From FENCO-ERA to FENCO-NET	3-4 November	Cinquantenaire, Brussels
CO <sub>2</sub> CRC	National CCS Conference	28-30 November	Melbourne, Australia
APP-WEC	Cleaner Fossil Energy Task Force Meeting	13-15 September	Montreal, Canada
IQPC	CCS Symposium and Workshops	19-20 October	Brisbane, Australia

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## Issues associated with CCS workshops

### Working Groups:

Organisation	Network	Working Group
IEAGHG	Biofixation	
	CO2 Capture	
	Monitoring	
	Oxy-Fuel combustion	
	Risk Assessment	
	Wellbore Integrity	
	Modelling	
	High Temperature SLC	
	Social Research	
	Environmental Impacts of PCC	
CSLF	Policy	Capture Transport Integration Storage
	Technology	
European Union	CO2GeoNet	
	CO2NET	
	EuroGeoSurveys	
	EuroGIF	
	EnegyINet	
US DOE NETL-Carbon Sequest	Core R&D	Capture Geologic Storage Monitoring, Verification and Accounting Risk Assessment CO <sub>2</sub> Use/Reuse
	Global Collaborations	Regional Carbon Sequestration Partnerships CSLF
World Resources Institute	Carbon Capture Issues CO2 Transport Issues Siting and MMV Accounting and Liability Issues Integration CCS Community Engagement	
CO2GeoNet	Research Areas	Enhanced hydrocarbon recovery Monitoring Techniques Predictive numerical tools Risks and uncertainty Rock and fluid flow behaviour
	Joint Research Areas	Cap rock seal capacity for CO2 storage Creation of a conceptual model of gas migration in a leaking CO2 analogue Development of advanced seismic modelling capabilities BGS Ecosystem responses to CO2 leakage - model approach Geochemical monitoring for onshore gas releases at the surface Integrating risk assessment for storage performance assessment Interaction of CO2 with host rocks: experiments and models Monitoring of submarine CO2 fluxes and ecological impact Seal properties database Testing remote sensing monitoring technologies for potential CO2 leaks Unlithified seal deformation Application of tracers for monitoring CO2 storage CO2 storage in virgin seams and in coal seams stimulated by gasification Reactions between CO2 and borehole infrastructure Enhanced Oil Recovery from depleted oil reservoirs through CO2 storage Geological models, heterogeneity catalogue and scale-relations Feasibility of geophysics detect migration pathways in the subsurface Monitoring near surface leakage and its impacts Develop low cost alert system for storage, based on seismics Benthic experiments for marine monitoring and ecosystems impact

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## Actions from acceptance of Recommendations

- Identify how to initiate the targeted workshops\*
- Define the best workshop model for delegates and stakeholders
  - Partnership or coincide with existing events
  - Virtual meetings
- Identify resources for attendance to meetings and workshops
- Undertake an analysis of existing specialist conference/ project networks to avoid duplication

***\*Saudi Arabia has proposed to host a Storage and Monitoring Workshop***