

**Carbon Sequestration Leadership Forum**

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## **Status of CSLF Capacity Building Task Force**

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Chair, Capacity Building Task Force

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## The CSLF pioneered capacity building on CCS for developing countries.

- To date, six workshops have been held in:
  - Brazil
  - Mexico
  - Saudi Arabia
  - United States (for developing country participants)
  
- Topics covered include:
  - What CCS is and why it is needed
  - Introduction to capture, transport and storage
  - MVA and risk assessment
  - Policy, regulatory and financial issues

***Capacity Building Task Force formed in 2005.***

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**Others are now beginning CCS building capacity activities.**

- Global CCS Institute
- World Bank
- International Energy Agency

***Coordination is important and underway.***



## Unique CSLF Strengths in Capacity Building

- CSLF has the longest experience in capacity building.
- CSLF Membership by both industrialized and developing countries enables responsiveness.
- CSLF has the best ability to address policy, legal and regulatory issues as well as technical issues.
- It provides opportunity to networking and a deeper understanding of CCS related issues within member countries.



## Capacity Building Plan was approved in 2009.

- Updates original plan approved in Berlin in 2005
- Key elements include:
  1. Disseminate practical information;
  2. Build capacity in developing countries;
  3. Assist government and regulatory agencies; and
  4. Build academic and research institutions.
- Key Guiding Principle: Use a country-led process in which each country defines its own needs.



## Developing country Members expressed needs.

Audience	Expressed Need
Academic/ Research Institutions	<u>Mexico</u> <ul style="list-style-type: none"> <li>• Introduce CCS in academic curricula</li> </ul>
	<u>China</u> <ul style="list-style-type: none"> <li>• Technologies and systems integration</li> <li>• Engineering capacity of CCS pilots and demonstrations</li> <li>• Human resources</li> </ul>
Industry	<u>Mexico</u> <ul style="list-style-type: none"> <li>• Provide understanding of CO<sub>2</sub> capture in Power Plants, ammonia, and gas treatment</li> <li>• Provide understanding of permanent storage</li> </ul>
	<u>China</u> <ul style="list-style-type: none"> <li>• Engineering capacity of CCS pilots and demonstrations</li> <li>• Human resources and public awareness</li> </ul>
	<u>India</u> <ul style="list-style-type: none"> <li>• Engineers gain understanding of CSS for reducing CO<sub>2</sub> emissions from coal-based industries.</li> </ul>
	<u>Saudi Arabia</u> <ul style="list-style-type: none"> <li>• Harmonizing monitoring technologies to develop uniform monitoring protocols</li> </ul>
Government	<u>China</u> <ul style="list-style-type: none"> <li>• Information on how to establish a comprehensive and flexible regulatory environment</li> <li>• Human resources and public awareness</li> </ul>

***Implementation plan to meet these needs was developed.***



## Activities to be paid for by CSLF Capacity Building Fund.

- Composed of contributions by Members and others
- Contributions managed by US DOE
- Contributions to date total US\$ 2,055,792.20

Canada	US\$ 233,073.75
Global CCS Institute	US\$ 939,961.17
United Kingdom	US\$ 882,757.28
- CSLF Capacity Building Executive Board is to provide financial governance based on agreed-upon Terms of Reference.



## Capacity Building Fund Terms of Reference

- Initially drafted by Secretariat
- Discussed in meeting in Oslo for contributors and developing countries , March 2010. Attendees:

Secretariat	Norway
Brazil	Saudi Arabia (Task Force Chair)
Canada (by Phone)	United Kingdom
International Energy Agency	World Bank
- Few issues remain unresolved.





## Capacity building activities are stalled due to disagreements over Fund Terms of Reference:

### Unresolved Issues

- Can non-CSLF Member contributors be voting members of the Council?
  - Non-CSLF Member contributor: Global CCS Institute
- Can the CSLF Secretariat use the Fund for Program Management?
  - Currently estimated at 8% of Contributions or US\$ 164,463.38
- Membership of CSLF Capacity Building Executive Board

***Can these issues be resolved in this Policy Group meeting?***