



# **Capacity Building Task Force for Carbon Capture and Storage in Emerging Economies**

**Progress Report  
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## Objectives of Capacity Building

- Assist emerging economy Members to develop needed expertise and institutions
- Develop a set of educational resources that all CSLF Members can utilize
- Transfer lessons from CSLF Projects and other known Carbon Capture and Storage (CCS) Initiatives.



# Task Force on Capacity Building in Emerging Economies Major Milestones

- Melbourne September, 2004: capacity building activities first proposed
- Delhi April, 2006: Capacity Building Workshop approved
- Paris, March 2007: Capacity Building Workshop final details announced
- Pittsburgh, USA, May 7-11, 2007: **First** Capacity Building Workshop on Carbon Capture and Storage is held
- Porto Alegre Brazil, October 16-17, 2007: **Second** Capacity Building Workshop on Carbon Capture and Storage is held
- Al Khobar, Saudi Arabia, January 27-29: **Third** Capacity Building Workshop on Carbon Capture and Storage is held

# Membership of the CBTF has increased



- Australia
- Canada
- Colombia
- European Commission
- France
- India
- Italy
- Mexico
- Saudi Arabia
- South Africa
- United Kingdom
- United States - Chair



# Capacity Building Workshops: Current Results



- **First Workshop: Pittsburgh, USA - 50 participants from 7 countries**
- **Second Workshop: Porto Alegre, Brazil - 130 participants from 10 countries**
- **Third Workshop: Al Khobar, Saudi Arabia – Over 100 participants from 12 countries**

**Over 300 professionals  
have received CCS training**

# All Workshops are not Created Equal



## PITTSBURGH, USA

The Workshop was designed to:

- Give the participants an overview of basics of CCS
- Take advantage of the learning opportunities of the 6<sup>th</sup> Annual Conference on Carbon Capture and Sequestration held at the same venue
- Target the six CSLF member emerging economies: Brazil, China, Colombia, India, Mexico, and South Africa

# All Workshops are not Created Equal



## PORTO ALEGRE, BRAZIL

Organizers (Pontifical Catholic University, Petrobras, CBTF, and CSLF Secretariat) intended to:

- Provide a more in-depth tutorial of the topics presented in Pittsburgh
- Offer greater opportunity for two-way discussions between lecturers and participants
- Provide a forum for not only the six nations targeted for Pittsburgh workshop but to other developing nations as well as to expand global academic institutions' participation

# All Workshops are not Created Equal



## AL KHOBAR, SAUDI ARABIA

This workshop, though opened to all international interested nations, had a regional flavor:

- It emphasized CCS technologies as they relate to oil and natural gas
- Focused on 4 Themes:
  1. Commercial Aspects and Opportunities for Storage of CO<sub>2</sub> in Oil and Gas Reservoirs
  2. Technology Roadmaps and Their Importance
  3. Issues that Impact CCS
  4. The Needs of Emerging Economy Countries
- Offered a field visit to the Shaybah Field Gas-Oil Separation Plant



# Other Milestones and Issues to Consider



- Financing workshops continues to be an issue of concern and Task Force members will keep trying to determine options and available opportunities.
- The Chair of the Task Force, with the input of task force members, has developed a 2-year plan.
- Task Force plans to prepare, standardized core training modules for capacity building based on materials from initial workshops.
- Overlap of CCS capacity building activities being conducted by CBTF and other entities such as APEC, IEA GHG, APP, bilateral (eg. U.S.-China), etc.