

# CLEANER FOSSIL ENERGY TASKFORCE

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on behalf of John Hartwell,  
Cleaner Fossil Energy Taskforce Chair**

**Ministerial meeting  
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New Delhi, India**



# Cleaner Fossil Energy Taskforce Highlights

- The Task Force is firmly established and widely supported and has held three meetings averaging 42 participants
  - Berkeley, April 2006
  - Tokyo, July 2007
  - Beijing, July 2007
- Action Plan involving 13 projects endorsed by PIC at Jeju in Sept 2006.
  - Three additional projects endorsed by PIC in Tokyo July 2007
  - Three working groups established covering oil and gas, oxyfuel combustion, and coal gasification.
- The Task Force has developed a thematic approach covering major technologies and market access issues.
- It supports cooperative activities and projects that build capacity and accelerate the deployment of cleaner fossil energy and technologies.



# Cleaner Fossil Energy Projects

## Theme1: Carbon Storage

- CFE-06-e1: CO2 Capture and Storage Program
- CFE-06-e13: CO2 Enhanced Coal Bed Methane

## Theme 2: Advanced Combustion Technologies

- CFE-06-e2: Ultra-Supercritical Pulverised Coal and CCS Near Zero Emissions Workshop
- CFE-06-e3: Ultra Clean Coal
- CFE-06-e4: Oxy-fuel Combustion Program and Working Group
- CFE-06-e5: Callide A Oxy-fuel Demonstration
- CFE-06-e6: Assessing Post Combustion Capture Technologies for Emissions
- CFE-06-e12: Costs and Diffusion Barriers to Low Emissions Technologies
- CFE-07-e16: Cooperative research on cleaner fossil energy (United States and Korea)



# Cleaner Fossil Energy Projects

## **Theme3: Coal Gasification**

- CFE-06-e7: Integrated Gasification Combined Cycle with CCS Workshop
- CFE-07-e14: Advanced Adsorption Process Technologies for pre-combustion Capture of CO<sub>2</sub> in Coal Gasification Processes
- CFE-07-e15: Coal Gasification Performance Assessment Systems for Low Emissions IGCC systems

## **Theme 4 & 5: Oil and Gas Market Access and Infrastructure**

- CFE-06-e8: Asia Pacific Gas Market Growth
- CFE-06-e9: Evaluating & Reducing Emissions in Producing, Processing and Transporting Natural Gas
- CFE-06-e10: Information Exchange on LNG Public Education Campaigns
- CFE-06-e11: Asia Pacific Gas Hydrate Cooperation



# Post Combustion Capture (PCC) Technology

- Post-combustion capture (PCC) is a key low emissions technology for the power sector.
- It can be retrofitted to existing power stations or integrated with new plants to capture CO<sub>2</sub> emissions while reducing local pollutants.
- This project provides the research and pilot trials that are needed to support the commercial deployment of PCC.
- Pilot trials will be conducted at power stations in Australia and China.



**Lead Partners:** Australia and China

**Participating Partners:** Other partners are involved in capacity building and technical support

**Locations:** Australia, China

# Callide-A Oxy-Fuel Demonstration Project

- Oxy-fuel is a key low emission technology that has only been demonstrated at a small pilot scale.
- This project will be the world's first retrofit of oxy-fuel combustion to a coal fired power station.
- It will make a major contribution to the commercial development of this technology, within the APP and globally.



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