



Australian Government

Department of Resources, Energy and Tourism


ENHANCING AUSTRALIA'S ECONOMIC PROSPERITY

Australia-China Collaboration on Low Emissions Coal Technology



Introduction


Australia and China have a long history of working together to improve the economic and environmental performance of coal. The focus of this collaboration is moving towards low emissions coal technology including carbon capture and storage.



The Australian Government is keen to continue working with China to build our mutual understanding of and to support the further development of CCS.



Cooperative Framework


- Australia-China Joint Coordination Group on Clean Coal Technologies (JCG)
 - Bilateral Climate Action Partnership (CAP)
 - Asia Pacific Partnership (APP)
 - Direct cooperation between science agencies and universities
 - Commonwealth Science and Industrial Research Organisation (CSIRO) and the Thermal Power Research Institute
 - Other International Fora
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Joint Coordination Group on Clean Coal Technology (JCG)

- Established by national leaders
- Australia has committed \$20 million
- Initial projects endorsed by leaders include:
 - The Gaobeidian post combustion capture trial;
 - The Integrated Drying Gasification Combined Cycle trial and
 - Research collaborations in China and Australia.




PCC – A major focus of cooperation.

- Post Combustion Capture (PCC) – CO₂ is captured from power station flue gases.
 - CSIRO Supporting two pilot trials in China and design for a full scale project.
 - Four pilot trials in Australia.
 - Post Combustion Capture Laboratory established in Australia.
 - Two medium scale (Around 100,000 Tonnes Per Annum) projects under consideration.
 - Industrial scale projects could be supported under the CCS Flagship Program.
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Global Carbon Capture and Storage Institute

- Established in response to G8 challenge
 - Launched on 9 July
 - China is a foundation member
 - China Huaneng Group are foundation members.
 - Australian Government funding of \$100 million per annum
 - Currently developing capacity building activities with China and assisting with Greengen.
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Summary

Aim: To build a large scale Carbon Capture and Storage facility in China building on existing foundations. These foundations include:

- Capacity Building
- Geological Storage Assessment
- Pilot Trials of Post Combustion Capture
- Medium Scale Post Combustion Capture
- Research Collaboration
- Collaboration between China and other countries (EG NZEC)



Next Steps: Develop possible projects for consideration and approval by Chinese Authorities and industry