



Experiences and Opportunities for CCS in China

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Outline of the presentation

- **Main domestic activities**
- **Cooperation activities**
- **Experiences**
- **Storage potentials**

Main Domestic Activities on CCS

- **Several experimental EOR (Enhanced Oil Recovery) projects have been implemented in oil fields;**
- **Several academic institutes are doing researches on carbon capture technologies, including post-combustion and pre-combustion technologies;**
- **In 2005, the CCS technology was integrated into the National Medium- and Long-term Science and Technology Development Plan towards 2020;**
- **High Tech Program may support CCS technology development.**

Cooperation Activities

- **China and UK signed a MoU on cooperation on near-zero emission power plant through CCS. The cooperation covers: 1) Develop knowledge & expertise in CCS; 2) Assessment of CCS potential; 3) Identify opportunities for demonstration & deployment in China; 4) Review costs & economics of CCS in China; 5) Options for financing R&D.**
- **China and the European Commission signed another MoU on near-zero emission power generation technology through CCS. Under the MoU, three phases of the cooperation are foreseen: 1) Exploring the options for zero emissions coal technology through CCS in China; 2) Defining and designing a demonstration project; and 3) Construction and operation of a demonstration project.**

Cooperation Activities

Geo-Capacity (EU project)

- **Coordinator: Geological Survey of Denmark and Greenland**
- **Total 26 partners, but Tsinghua University as the only Chinese partner.**

COACH (Cooperation Action within CCS China-EU)

- **Coordinator: Institute of French Petroleum**
- **Totally 21 partners, including 8 Chinese partners.**

Experience

- **Policy and financial support: domestic and international policy and financial support**
- **Ownership: entities of host do activities**
- **A consortium to implement projects: academic entities and business sector with support by government**

CO₂ storage potential (very initial estimation)

- **46 oil & gas reservoirs: 7.2 billion t-CO₂**
- **68 unmineable coal bed: 12 billion t-CO₂**

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