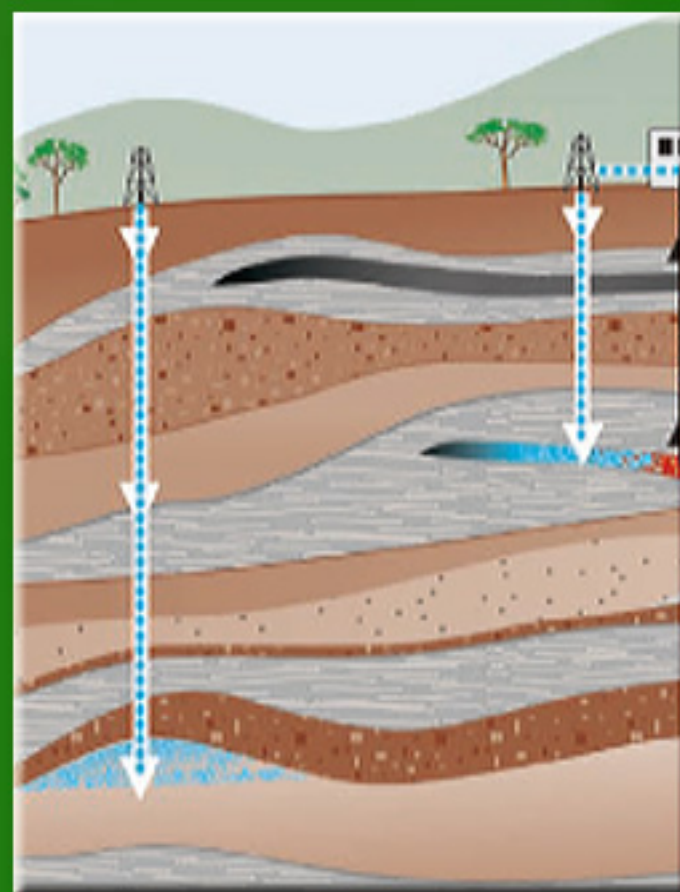
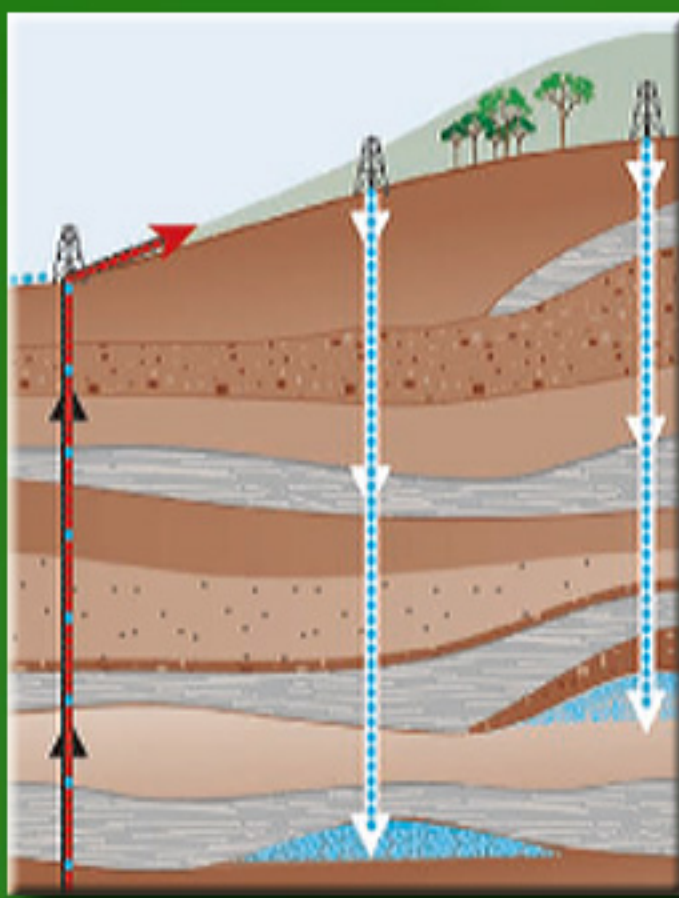
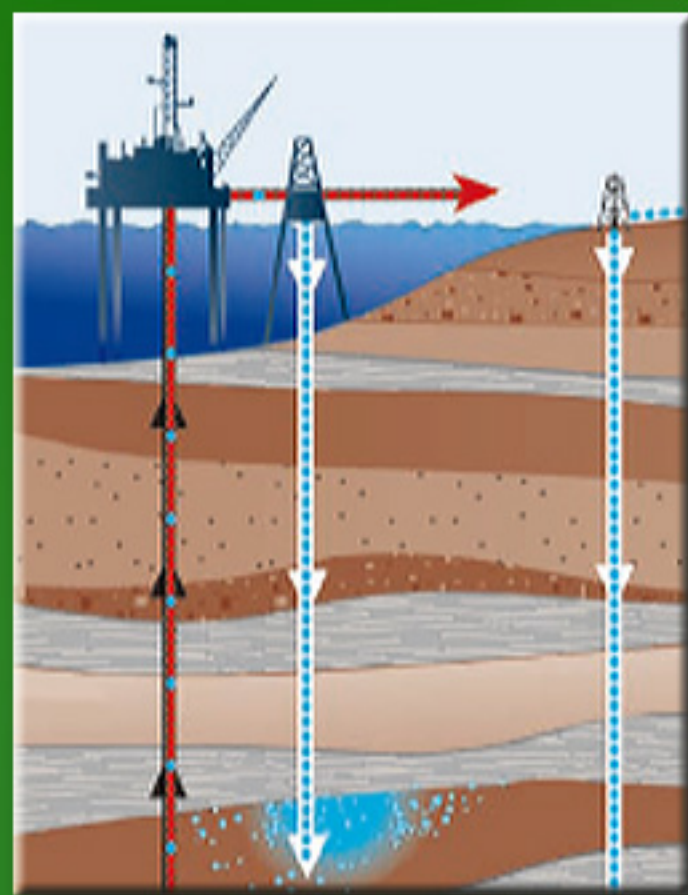


二氧化碳捕集封存与利用 技术经济研讨会

CO₂ Capture, Storage & Utilization 2010

上海 2010.09.15-16 Shanghai



亚化咨询
ASIACHEM

2010 二氧化碳捕集封存与利用技术经济研讨会

— 碳税框架与 CCSU 技术经济前景展望

English-Chinese Simultaneous Interpretation is Provided

Background

The Chinese government promised the CO₂ emission intensity will reduce by 40% -45% in 2020 than in 2005. At the same time, by 2020 the share of non-fossil energy consumption target is 15%, which means that fossil fuels still accounts for 85% of in the energy mix.

For China's energy and chemical industry, how to develop CO₂ Capture, Storage and Utilization (CCSU) technology, to realize the efficient and clean use of coal, will be the important issue in next 10 years.

In recent years, several CCSU projects are demonstrated. North Dakota's Great Plains SNG plant has cooperated with Canada Weyburn Oil field on CO₂ Enhanced Oil Recovery (CO₂-EOR) since 2000. BP and TOTAL has started CO₂ Capture & Sequestration (CCS) demonstration.

In China, Huaneng has build two CO₂ capture projects in Beijing and Shanghai respectively by the post-combustion CO₂ capture of coal fired power plant. China Power Investment also completed CO₂ capture pilot in Chongqing. Shenhua Group started the CCS project in Ordos nearing its CTL plant. PetroChina, Sinopec launched a CO₂-EOR pilot, China United Coalbed Methane (CUCBM) built CO₂ to improve oil recovery (CO₂-ECBM) pilot.

In addition, the Japanese Mitsui Chemicals uses CO₂ and H₂ for methanol production, and is seeking further industrialization. CNOOC has successful used CO₂ to produce biodegradable plastic.

In 2010, a research team from NDRC and Ministry of Finance announced a report of "China Carbon Tax Framework Design". The report proposed, by 2012, China government may initiate the tax of RMB 10-20 per ton CO₂.

The **CO₂ Capture, Storage & Utilization Conference** will be held Sep. 15-16 2010 in Shanghai. The upcoming event will focus on China's Carbon Tax design and policy and its impacts to industries (power generation, coal chemical and petrochemical, steel, cement etc.), the technology & economics of CO₂ Capture, Storage & Utilization projects, the outlook of CCSU particularly in CO₂-EOR, CO₂-CBM and CO₂ chemical utilization.

Date: Sep. 15-16, 2010

Venue: Grand Metropark Jiayou Hotel, Shanghai

Topics

1. China's Carbon Tax Design & Policy Outlook
2. China Carbon Emission Control Targets & Timetable
3. The Impacts of Carbon Tax to Main Industries
4. Technology & Economics of CCSU
5. Challenges of Large-scale CO₂ Emission Reduction
6. China CCSU Projects Update & Outlook
7. Pre- & Post-combustion Capture and Oxyfuel Combustion
8. CO₂-EOR Progress & Outlook in China
9. CO₂ to Methanol & Degradable Plastics Technology & Demonstration
10. CCSU's Environmental Constraints & Technology Solutions

Preliminary Agenda

Sep.14. 2010 Tuesday

12:00~22:00

Pre-conference Registration

Sep.15. 2010 Wednesday

09:00~17:30 Speech

Sep.16. 2010 Thursday

09:00~17:30 Industrial Travel:

JINLONG – CAS (Taixing, Jiangsu);

Shanghai EXPO Travel

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Eminent Speakers



SU Ming Deputy Director of Fiscal Institute, Ministry of Finance, PRC

Mr. Su is drafter of "the framework of China's carbon tax system design", which proposed that carbon tax should be levied RMB 10-20 per ton CO₂ in 2012, and RMB 40-50 per ton in 2020



SHEN Pingping The former vice president of PetroChina Corp.

Professor, Chief Scientist of National 973 CO₂-EOR Programs
The former president of Research Institute of Petroleum Exploration and Development, CNPC



ZHANG Jian DGM of SINOPEC Shengli Oilfield Engineering Company

Sinopec completed CO₂ capture demonstration plant in July 2010, which has 3-4 Mt of annual CO₂ capture for enhanced oil recovery in Shengli Oilfield. 1 Mt/a CO₂ capture process package is under developing.



WANG Heming DGM of Shenhua Coal Liquefaction Corp. (Ordos)

The director of 100,000 t/a CCS demonstration project of Shenhua Coal Liquefaction (Ordos). The project will be completed by the end of 2010, It is planned to reach 1 Mt/a and 3 Mt/a of CO₂ storage capacity in future.



XU Shisen Deputy Director of Technology Dept., Huaneng Group

Mr. Xu is the technology director of 3,000 t/a CO₂ Capture Demonstration Project of Huaneng Beijing thermal power plant, and the technology director of 100,000 t/a CO₂ Capture Demonstration Project of Huaneng Shanghai Shidongkou Project. Mr. Xu is also the General Engineer of GreenGen.



XIAO Gang Chief scientist of CNOOC New Energy Company

Coal-based clean energy is one of the fields that CNOOC focuses on. CNOOC also intends to develop CO₂ utilization technologies, through which may form new chains of energy and resource.



FU Xiaokang Director, International Department, CUCBM

China United Coalbed Methane Co., Ltd took on the cooperation project between China & Canada – "The research of Inject/Bury CO₂ to enhance the recovery of CBM"



XIA Lei Managing Director, ASIACHEM Consulting

Mr. Xia is dedicated to the research & consulting for coal based energy & Chemical industries, including clean coal conversion and CO₂ utilization.



To be confirmed Mitsui Chemicals

Mitsui Chemicals has finished the pilot of 100 t/a methanol production by CO₂, and it seeking for the opportunity to establish a commercial project.

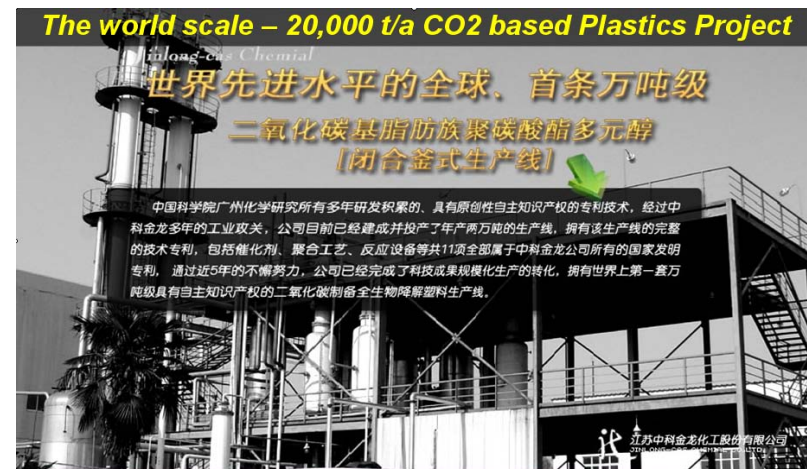


LIU Baohua

Research Fellow of Guangzhou Institute of Chemistry, CAS

Mr. Liu is dedicated to the research of synthesis & industrialization of CO₂ based polymers. He is the technical leader of world scale CO₂ based polymer plant - JINLONG-CAS.

Industrial Travel

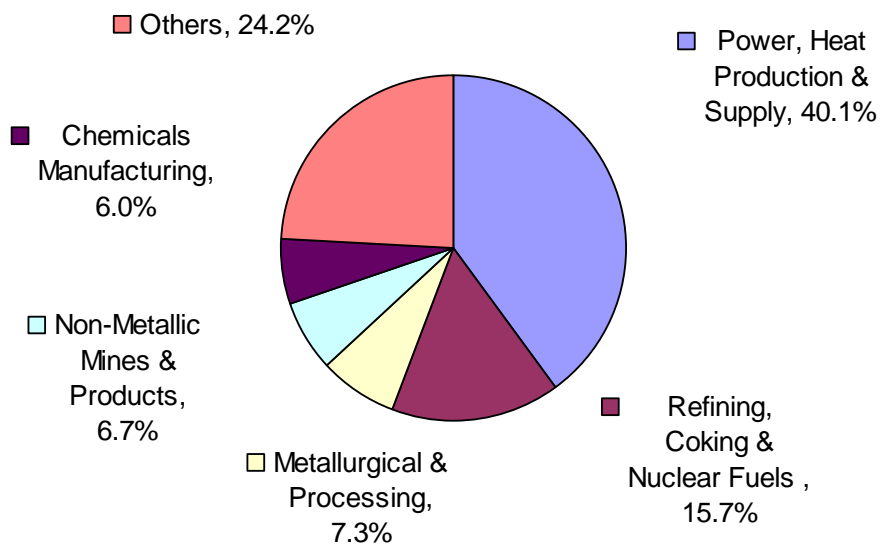


CO₂ Capture, Storage & Utilization 2010

Please visit www.chinacoalchem.com/events/2010CCSU/ for updates

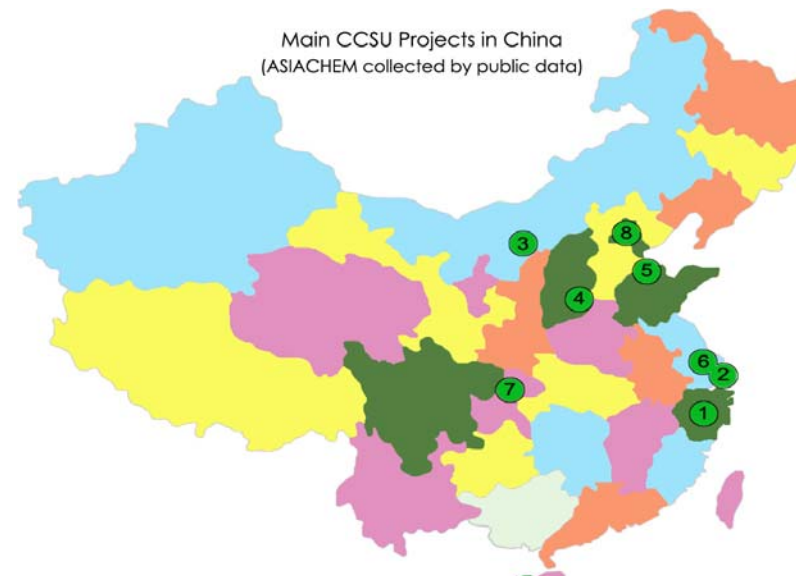
Carbon Tax and CCSU Technology & Economics Outlook

China CO₂ Emission by Sectors



Source: CAS 2010

Main CCSU Projects in China
(ASIACHEM collected by public data)



	Location	Company	Description	Utilization	Capacity kt/a	Status
1	Quzhou, Zhejiang	Zhejiang Jinju Chemical	Industrial CO ₂	Food Grade	120	Startup in 2008
2	Shanghai	Shidongkou No.2 Power Plant of Huaneng	Power Plant CO ₂	Food Grade	100	Startup in 2009
3	Ordos, Inner Mongolia	Shenhua Coal to Liquid & Chemical	CTL CO ₂	Geo-Sequestration	100	To Complete in 2010
4	Changzhi, Shanxi	Shanxi Dachuan Zhongtian Coal Chemical	Industrial CO ₂	Food Grade	100	Startup in 2006
5	Dongying, Shandong	Sinopec Shengli Power Plant	Power Plant CO ₂	EOR	35	Startup in 2010
6	Taixing, Jiangsu	Jinlong-CAS Chemical	Industrial CO ₂	Plastics	20 (Polymer)	Startup in 2008
7	Chongqing	China Power Investment Shuanghuai Plant	Power Plant CO ₂	Food Grade	10	Startup in 2009
8	Beijing	Gaobeidian Power Plant of Huaneng	Power Plant CO ₂	Food Grade	3	Startup in 2008
9	Dongfang, Hainan	CNOOC	Industrial CO ₂	Plastics	3 (Polymer)	Startup in 2009