

CCS: Options for Energy Intensive Industry

Tentative Agenda

Venue: Beijing Xinyuan Hotel, European Style Multifunctional Hall on the Second Floor No. 6 Shifangyuan, Haidian, District Beijing, 100036 Beijing, P.R. China

Thursday, December 5 09:00-18:00

09:00 – 10:15 Session I: Opportunities for CCS in key energy-intensive industries

Session Chair: Zhang Jiutian, Director, ACCA21

Peng Sizhen, Deputy Director-General, ACCA21, Opening Remarks

Philippe Benoit, Division Head, Energy Efficiency and Environment, International Energy Agency, Opening Remarks

Juho Lipponen, Head of CCS Unit, IEA, Role of CCS Globally – Perspectives from 2013 IEA CCS Roadmap

Dennis Best, Policy Analyst, IEA, CCS in Energy Intensive industry in China - Findings from 2012 IEA-MOST Workshop

10:15 - 10:30 Tea Break

10:30 – 12:00 Session II: Sectoral applications for CCS: Examining costs and policy considerations

Session Chair: Juho Lipponen, IEA

Dennis Van Puyvelde, Global CCS Institute, Global industry demonstration and sector specific costs

Li Huiquan, Institute of Process Engineering, Application of CCUS in Steel Industry

Dr. Xu Jinhua, CCS Application in China's Cement Industry: Carbon Abatement Potential and Challenges.

Robert Williams, Senior Research Scientist, Princeton Environmental Institute (PEI), Princeton University

15 minute Q&A

12:00 - 13:00	Lunch (Champs-Elysées Ave Cafée on the Ground Floor)
13:00 - 14:30	Session III: Sectoral applications: Emerging areas and early opportunities
	Session Chair: Simon Bennett, IEA Zhang Xian, ACCA21, CO ₂ Utilization Technology Assessment in China
	Wei Wei, Shanghai Advanced Research Institute, Early opportunities of CO2 utilization in China
	Huang Kaiyao, Institute of Hydrobiology, CAS, Combination of bio-technology and CCS in cement and steel industries in China
	Zhai Rongrong, North China Electronic Power University, Renewable technology and CCS
	15 minute Q&A
14:30 - 14:45	Tea Break
14:45 - 16:30	Session IV: Early opportunities: CCS options for the cement industry
	Session Chair: Wang Yutao, China Cement Association
	Rob van der Meer, Director EU Public Affairs, Global Environmental Sustainability, Heidelberg Cement. Global Experience with CCS Pilot Projects

Heidelberg Cement, Global Experience with CCS Pilot Projects

Thomas Hills, Researcher, Imperial College, *Technical Options for Capture and CCS Applications in the Cement Industry*

Liu Ruizhi, Tianjin Cement Research and Design Institute - Effective approaches to designing systems fit for CCS in China

Sui Tongbo, Sinoma, Sinoma's Effort and Perspective on Energy Saving and CO2 Mitigation

15 minute Q&A

16:30-17:45 CCS in Cement Applications: Industry roundtable dialogue Chair: Wang Yutao, CCA

Li Xiaochun, Institute of Rock Soil Mechanics, Chinese Academy of Science, Potential and Opportunities for CCS in China's Cement Industry (15 minutes)

Discussion:

- With a focus on capture technologies, what are key technical areas that Chinese enterprise may consider as they engage in R&D and pilots?
- What steps can link Chinese enterprise to international/consortium projects to develop global cement or similar industry CCS pilots?
- What critical barriers specific to china's Cement enterprises create the biggest barriers to CCS, how can industry overcome these challenges?

17:45 – 18:00 Workshop closing remarks

Philippe Benoit, Head of Energy Efficiency and Environment Division, IEA Peng Sizhen, Deputy Director-General, ACCA 21

18:00 Jixiang Hall, Chaoxianggong Restaurant on the First Floor