



World Business Council for
Sustainable Development



China Business Council for
Sustainable Development



Cement Sustainability Initiative Workshop Future Technologies and Innovations in the Cement Sector in China

- **Exploring opportunities for future technologies and innovations**
- **Discussing possibilities, impacts and potential of a cement sectoral approach**

16-17 November 2008

Shangri-La Kerry Centre Hotel, No 1 Guanghua Road, Beijing 100020, China

There is a growing sense of urgency as the world seeks to tackle challenges related to energy and climate and the earth's long-term sustainability. Climate change will not be solved without collaboration and technology cooperation with China, an extremely important field for the cement industry. Clean cement production provides one of the largest opportunities for reducing both greenhouse gas (GHG) and local air pollution, yet it has proved a major challenge, because of the fractured, small-scale nature of the industry in China.

With this roundtable, the CSI is seeking to establish an effective platform to engage the business community in China and reach out to key policy makers on some of the issues this industry is currently grappling with: Information is now available for the global cement industry through the cement sectoral initiatives of the CSI, including the Cement CO₂ protocol ("CO₂ Accounting and Reporting Standard for the Cement Industry"); capacity building in the industry worldwide; monitoring, reporting and verification, and the establishment of the global cement CO₂ and energy performance database. This database includes information from cement plants as a function of fuel, location, technology and other critical parameters.

We would like to receive the participants' feedback on the results of this database and jointly explore the results of another key project: a comprehensive study on the global cement industry and the practical potential for it to contribute to future GHG reductions, including modelling of factors specific to the cement sector. Lastly, advancements in technology deployment and development are key to ensuring the cement sector can face emission reduction challenges, and will be another focus area.

The meeting and dinner reception and following workshop provide an opportunity to exchange information and expert views on the key drivers and real potential for technology advancement and efficiency/emissions improvements in the cement industry in China and across the world. It offers an international platform for about 80 industry specialists, policy/economic analysts and academic institutions to exchange views and experience on the issues that this industry is currently confronted with and share some of the results on work so far. The objective is to highlight likely future developments, discuss future needs and innovation, and discuss potential actions looking forward.

This event will be moderated by Lee Solsbery, ERM Global Technical Director.

Sunday 16 November

1. Welcome and introduction

Context for this workshop (Dr Howard Klee, Project Director, WBCSD CSI) [English Chinese](#)

2. Expert perspective (Ms Li Liyan, Division Director, China Climate Change Coordination Office, National Development and Reform Commission (NDRC))

3. Expert perspective (Mr Xu Yongmo, Vice President, China Building Materials Federation; Vice President, CBMF) [English Chinese](#)

4. China's Cement Sector today (Professor Cui Yuansheng, Vice President, Institute of Technical Information for Building Materials Industry of China, National Cement Information Network) [English Chinese](#)

5. Remarks by CSI member (Mr Patrick Verhagen, Senior Vice President, Holcim)

Monday 17 November 2008

1. Welcome and keynote speeches

1. Context (Dr Howard Klee, Project Director, WBCSD CSI) [English Chinese](#)
2. Development Plan and Policy for the Chinese cement industry (Mr Yang Chaofei, Director General, Department of Policy and Law, Ministry of Environmental Protection) [English Chinese](#)
3. Overview of China's Cement Sector today (Ms Zeng Xuemin, China Cement Association) [English Chinese](#)

2. Greenhouse gas emission reductions in the cement industry

1. A global cement database (Mr Eamon Geraghty, Technical Director, CRH Europe, CRH) [English Chinese](#)
2. CO2 emission measurement and reduction with cement industry in China (Professor Wang Lan, Cement Working Group, CBCSD Energy Efficiency and GHG Reduction Project) [English and Chinese](#)
3. Plenary discussion

3. Energy security and future energy forecasts (Mr Han Wenke, Director of Energy Research Institute, National Development and Reform Commission (NDRC)) [English Chinese](#)

4. Modeling the future cement industry (Dr Howard Klee, Project Director, WBCSD CSI) [English Chinese](#)

5. Innovation and technology development (Moderator: Dr Martin Schneider, Chief Executive, European Cement Research Association)

What is the future outlook?

- Optimization and innovation in the cement burning system (Mr Cai Yuliang, Director of Resource Centre, Sinoma) [English and Chinese](#)
- Developing a cement technology roadmap (Mr Dolf Gielen, Senior Analyst, International Energy Agency) [English Chinese](#)

Transition to the future outlook

- Vertical roller mills for cement grinding: the 'OK Mill' (Mr Palle Steenbøl, General Manager, FLSmidth) [English Chinese](#)
- Potential for blending to contribute to emissions reductions (Dr Guanshu Li, Senior Engineer, Lafarge) [English and Chinese](#)
- Potential for switching to less carbon-intensive, Alternative Fuels and Raw materials (AFR) (Mr Wang Huanzhong, General Manager, Huaxin Cement) [English Chinese](#)
- Carbon capture and storage (CCS) (Dr Martin Schneider, Chief Executive, European Cement Research Association) [English Chinese](#)

5. Open (facilitated) discussion amongst all participants on possible areas for future action and useful next steps, closing remarks