



World Business Council for
Sustainable Development

Future Technologies in the Cement Sector

Cement Sustainability Initiative (CSI) Workshop and Dinner Monday 19 May 2008

WBCSD North America Office
Washington DC, 20009

Together with a handful of other industries, the cement industry is in the spotlight of the current international climate change agenda to develop solutions to reduce harmful greenhouse gas (GHG) emissions. Markets in developing countries are growing, new plants are being built using best available technologies leading to high expectations for GHG reductions. However, research shows that new technologies are not being developed as rapidly as desired or do not have the expected climate impacts.

Our roundtable dialogue offers an international platform for about 30 industry specialists, equipment suppliers and academic institutions to exchange views and experience on the future technology needs of the cement sector and to better understand what different parties are doing or could be doing to address GHG emissions, resource and energy efficiency.

The objective of the workshop is to discuss future technology needs, highlight current developments, and identify key action needed to move forward. This will certainly touch upon how industry sectoral approaches could encourage more efficient program designs and energy efficiency target implementation or facilitate the research and development possibilities for innovative technologies.

AGENDA

INNOVATION AND TECHNOLOGY –needs and opportunities in the US

Setting the Scene: The Cement Plant in 2030

Cement production now and in 2030. Technology and innovation opportunities and needs. Current technology developments. Enabling factors and barriers.

- [US perspectives on climate change](#). Andy O'Hare, Portland Cement Association (PCA)
- [Views from Australia](#), Stuart Ritchie, Cement Australia
- [Views from the APP](#), Toshio Hosoya (JCA) / Yoshito Izumi (Taiheiyo Cement)

Presentations and moderated discussion

Moderator: Howard Klee, WBCSD

Innovation and Technology Development

What are cement industry, equipment suppliers and institutes doing to address GHG emissions? What is the potential of new technologies for the cement sector? Panel discussion featuring: raw materials for cement production, kiln technologies, waste heat recovery, fuels, and grinding.

- [Overview on technology development and implementation](#). Steven Miller, FLSmidth
- [Chances and Limitations of Technology Developments](#), Uwe Maas, Polysius

- [CO₂ abatement possibilities in cement plants](#). Heiko Schuermann, KHD Humboldt Wedag AG
- [Drivers of the US market](#). Rob Davies, Holcim
- [Drivers of the Indian market](#). Rakesh Bhargava, Shree Cement
- [Views on innovation and technology from Columbia](#), Frank Zeman, Columbia University

Short presentations and moderated panel discussion

Moderator: Rob van der Meer, HeidelbergCement

Carbon Capture and Storage in the Cement Sector

Status, potential, cost and other challenges. Incentives, policies needed.

- [Carbon Dioxide Control Technologies for the Cement Industry](#). Rob van der Meer, HeidelbergCement
- Frank Zeman, Columbia University

Presentations and discussion

Moderator: Stefanie Held

Technology Development and Deployment and Financing the Gap

Financing innovative technologies and technology transfer: approaches, challenges, incentives, policies needed.

- [Financing Technology Development and Deployment to Reduce GHG Emissions](#). Michel Folliet, IFC
- [Financing the Gap between Technology Development and Deployment in the Cement Sector](#). Suzanne Giannini-Spohn, EPA
- [Policy Measures for Energy and Climate Change in India](#). Rakesh Bhargava, Shree Cement

Moderator: Stefanie Held

Presentations and discussion

TECHNOLOGY AND POLICY

Encouraging R&D and innovation, and the role of sectoral approaches

- [Encouraging R&D and innovation through technology roadmaps: view from the IEA](#). Cecilia Tam, IEA
- [How can a sectoral approach encourage more research and development and implementation of innovative technologies?](#) Dan Klein, CCAP
- [What is the CSI doing?](#) Howard Klee, WBCSD

Panelists and discussion

Moving Forward

Key actions by the private and public sectors and financial institutions

- Andy O'Hare, Portland Cement Association (PCA)
- Yoshito Izumi, Taiheiyo Cement Corporation / Toshio Hosoya, JCA
- Rob van der Meer, Heidelberg Cement

Closing: Reactions and Challenges (all)