

Press release

IEA and WBCSD announce technology roadmap outlining low-carbon growth pathways for the Indian cement industry

Delhi & Geneva, 26 February, 2013 – India’s fast-growing cement industry can reduce its carbon emissions by nearly half by the middle of the century, according to a technology roadmap issued today by the International Energy Agency (IEA) and the World Business Council for Sustainable Development (WBCSD). The roadmap development was spear-headed by the three co-chair companies, ACC, Shree Cement and UltraTech, who committed extensive resources and expertise from across their companies to lead the project. They were supported by the wider working group from the other CSI companies in India. The initiative, supported by the International Finance Corporation (IFC), was developed in collaboration with the Confederation of Indian Industry (CII) and the National Council for Cement and Building Materials (NCB).

Faced with massive infrastructure and housing requirements, India is the world’s fastest growing cement market – and will likely remain in that position for the foreseeable future. The new report, *Technology Roadmap: Low-Carbon Technology for the Indian Cement Industry*, outlines a way for the Indian cement industry to reduce its CO₂ emissions in 2050 by at least 210 MtCO₂ compared to a business-as-usual scenario. The savings roughly equal the total CO₂ emissions of Thailand in 2009. This transition will also have energy benefits, reducing energy consumption by at least 275 petajoules – which is as much as the current industry energy consumption of Singapore (or Norway or Philippines).

The Indian cement industry is one of the most efficient in the world and has made strong efforts to reduce its carbon footprint. Yet, opportunities for improvements still exist. The milestones set out in this roadmap would enhance the country’s energy security by limiting the growth in energy consumption, and would further reduce the direct CO₂ emissions intensity by about 45% from current levels by 2050.

The vision laid out in the roadmap is achievable; however the targeted reductions are ambitious. Decisive action by all stakeholders is critical to realize the vision laid out in this roadmap: to achieve the proposed levels of efficiency improvements and emissions reduction, government and industry must join hands to take collaborative actions in creating an investment climate that will stimulate the scale-up of financing required.

This is the first time that a technology roadmap will be followed by a ‘Phase II’, in which Indian CSI member companies will carry out a detailed feasibility study of low-carbon technology implementation at one specific plant per company. IFC will provide financial support for Phase II, and lessons learned will be shared with the wider cement industry in India and abroad through the CSI network.

World Business Council for Sustainable Development

4, chemin de Conches, CH-1231 Conches-Geneva, Switzerland,
Tel: +41 (0)22 839 31 00, E-mail: info@wbcasd.org
1500 K Street NW, Suite 850, Washington, DC 20005, US,
Tel: +1 202 383 9505, E-mail: washington@wbcasd.org
Web: www.wbcasd.org

International Energy Agency

9 rue de la Fédération
75739 Paris Cedex 15
France, Tel : +33 (0)1 40 57 66 00/01,
E-mail : info@iea.org, Web : www.iea.org

IEA and WBCSD announce technology roadmap outlining low-carbon growth pathways for the Indian cement industry

This roadmap was developed building on the success of the global roadmap published in 2009, which was the first report of its kind to provide an ambitious vision for carbon emissions reduction for one industry sector as a whole, up to 2050.

T Kumar, Joint Secretary, Department of Industrial Policy and Promotion, Ministry of Commerce and Industry indicated at the launch event on 25 Feb: "It is heartening to note that considerable efforts have been made by CSI towards the development of the low carbon technology roadmap for the cement industry in India. I welcome the analysis and urge the industry to come up with innovative solutions. I am happy to note that industry has already achieved 36 percent reduction in CO₂ emissions. With depleting limestone reserves, newer materials and newer technologies are needed for India's infrastructure development. The government has plans to spend US\$ 1 trillion on infrastructure development in the next five years."

Philippe Fonta, WBCSD CSI Managing Director said: "CSI member companies in India are able, thanks for IFC support, to scale up the implementation of low-carbon solutions in their own plants and across the cement industry more broadly. This will help ensure that leading companies in the CSI can continue to provide the growing volumes of cement required from the Indian market, and do this in a low-carbon and energy efficient manner."

Maria van der Hoeven, IEA Executive Director said: "The IEA is pleased to have partnered again with WBCSD to develop this national roadmap for the cement industry in India, the world's fastest-growing cement market. We applaud the Indian cement industry and the IFC for their initiative to undertake a second phase focusing on roadmap implementation and for their efforts to transition the Indian cement industry to a low-carbon pathway."

Thomas Davenport, IFC's Director for South Asia said, "The private sector can play a leading role in providing innovative business solutions to address climate change, which is also an important regional priority for IFC. This technology roadmap is a unique example of one industry collectively supporting India's low-carbon development goals. We applaud the leadership shown by CSI member companies in India to voluntarily come forward to support long-term climate change mitigation."

The India roadmap has been developed collaboratively by the WBCSD's CSI and the IEA. It has been led by CSI member companies in India which represent around 60% of the country's cement production. They are: ACC Ltd, Ambuja Cements, HeidelbergCement India Ltd, Lafarge India Private Ltd, My Home Industries Ltd / CRH, Shree Cement, Shree Digvijay Cement Co Ltd – Cimpor Group, UltraTech Cement and Zuari Cement. Since the start of the project, Dalmia Bharat Cement Ltd and Jaypee Cement have joined the CSI. The IEA has brought expertise in data analysis and modeling, and roadmap development. Technical consultancy was provided by the Confederation of Indian Industry (CII) and National Council for Cement and Building Materials (NCB). The roadmap and technical papers are available at www.wbcscdcement.org/india-tech-roadmap.

IFC supported the development of technical papers on reduction of greenhouse gas emission. These are customized to the Indian cement industry. Going forward, IFC will also enable CSI member companies to undertake a resource efficiency assessment at their manufacturing facility to examine the feasibility of implementation of these technologies. The assessment will identify specific areas where investments in energy efficiency, technology up-gradation and material conservation can lead to reduction in greenhouse gas (GHG) emissions.

Supported by:



IEA and WBCSD announce technology roadmap outlining low-carbon growth pathways for the Indian cement industry

#

About the World Business Council for Sustainable Development (WBCSD)

The WBCSD is a CEO-led, global coalition of some 200 companies advocating for progress on sustainable development. Its mission is to be a catalyst for innovation and sustainable growth in a world where resources are increasingly limited. The Council provides a platform for companies to share experiences and best practices on sustainable development issues and advocate for their implementation, working with governments, non-governmental and intergovernmental organizations. The membership has annual revenues of USD 7 trillion, spans more than 35 countries and represents 20 major industrial sectors. The Council also benefits from a network of 60 national and regional business councils and partner organizations, a majority of which are based in developing countries. www.wbcscd.org

About the Cement Sustainability Initiative (CSI)

The Cement Sustainability Initiative (CSI) is a global effort by 24 leading cement producers, with operations in more than 100 countries. Collectively these companies account for around 30% of the world's cement production and range in size from very large multinationals to smaller local producers. In India, CSI members account for around 60% of production. All CSI members have integrated sustainable development into their business strategies and operations, as they seek strong financial performance with an equally strong commitment to social and environmental responsibility. The CSI is an initiative of the World Business Council for Sustainable Development (WBCSD). www.wbcscdcement.org

About the International Energy Agency (IEA)

The International Energy Agency (IEA) is an autonomous organisation which works to ensure reliable, affordable and clean energy for its 28 member countries and beyond. Founded in response to the 1973/4 oil crisis, the IEA's initial role was to help countries co-ordinate a collective response to major disruptions in oil supply through the release of emergency oil stocks to the markets. While this continues to be a key aspect of its work, the IEA has evolved and expanded. It is at the heart of global dialogue on energy, providing reliable and unbiased research, statistics, analysis and recommendations. www.iea.org

About the International Finance Corporation (IFC)

IFC, a member of the World Bank Group, is the largest global development institution focused exclusively on the private sector. We help developing countries achieve sustainable growth by financing investment, providing advisory services to businesses and governments, and mobilizing capital in the international financial markets. In fiscal 2011, amid economic uncertainty across the globe, we helped our clients create jobs, strengthen environmental performance, and contribute to their local communities—all while driving our investments to an all-time high of nearly \$19 billion. For more information, visit www.ifc.org and www.ifc.org/southasia. Follow us on www.facebook.com/IFCsouthasia.

For more information, please contact

International Energy Agency
ieapressoffice@iea.org

World Business Council for Sustainable Development
Philippe Fonta, Managing Director, Communications
fonta@wbcscd.org
+41 22 839 3104

World Business Council for Sustainable Development
Caroline Twigg, WBCSD India Coordinator
twigg@wbcscd.org
+91 958 294 5539

To be added to the WBCSD press distribution, please e-mail WBCSD [here](#).

Follow WBCSD on [Twitter](#)