



BUILDINGS AND APPLIANCES TASK FORCE

7th Meeting

8-10 April, 2009

New Delhi, India

Theme 7: High Performance Building & Developments

Ms Julie Claydon, Australia

Mr. Shinji Takami, Japan

presented by Mr. Norman Barth, US

Projects in Theme 7

High Performance Buildings and Developments

- Summary
 - 9 projects; 1 completed; 1 discontinued
 - 3 projects from 2006; 5 projects from 2007; 1 from 2008
 - 1 Flagship: Green buildings in China
- Coordinator: Michael Green



Projects in Theme 7

High Performance Buildings and Developments

- **06-26** APP web portal for information on high-performance buildings and developments
- **06-27** Green building flagships in China
- **06-28** SB08 – 6th World Sustainable Building Conference (*Completed*)
- **07-42** High performance commercial buildings in India
- **07-43** Regional energy efficiency centers in India
- **07-44** Promotional framework for passive design and solar energy technologies in energy-efficient buildings
- **07-45** Indian high buildings initiative: Data centers pilot
- **07-46** China Building Energy Rating Tool (CBERT; *Discontinued*)
- **08-49** Green SpacesTM-IT / ITeS Special Economic Zone



Project Summary (06-27)

Manager: Mark Ginsberg

- **Participating Partner Countries and Organizations:** China: Ministry of Science and Technology (MOST), Ministry of Construction (MOC), Beijing Science and Technology Development Commission, Guo’Ao Development Company, National Development and Reform Commission (NDRC). USA: US Department of Energy, Alliance to Save Energy, Lawrence Berkeley National Laboratory, Oak Ridge National Laboratory, White Box Technology.
- **Milestones Reached:** Olympic Village: The Olympic Village Micro-Energy (Near-Zero Energy) Building was completed.
- **Next Steps:**
 - Mayors’ Training Center: The curriculum development is expected to begin in 2008, with a possible exchange of Mayors and/or “paired-city” programs.
 - Olympic Village: n/a (project completed)
 - Center of Excellence: Plans for a venue should be determined in 2008.



Project Summary (06-28)

Manager: Michael Green

Completed

- **Participating Partner Countries and Organizations:** China and India
- **Deliverables and Milestones Reached:**
 - SB08 Conference held in September 2008
 - Workshops conducted on high performance buildings in China in June 2008
 - Workshops conducted on high performance buildings in India in October 2008



Project Summary (07-42)

Manager: Norman Barth

- **Participating Partner Countries and Organizations:** India
- **Milestones Reached:**
 - Step 1 (Energy and comfort performance audits of 10 existing commercial buildings – pre-ECBC era buildings) nearly complete – nine of 10 buildings audited.
 - Step 2 (Energy performance validation through computer models) completed.
 - Step 3 (Energy demand forecast and potential of energy efficient measures in commercial buildings) is in progress.
- **Next Steps:**
 - 1. In the next phase, 3 more solar passive buildings from the remaining climate zones will be build in various soft wares to progress on step 3 of estimating energy saving potential using computer models in all the 5 climate zones of India.
 - 2. With the help of evaluated simulation softwares low energy solar passive strategies for all the climate zones of India will be established.



Project Summary (07-43)

Manager: Norman Barth

- **Participating Partner Countries and Organizations: India**
- **Milestones Reached:**
 - Fixed Obligation Grant (FOG) Agreement signed with See Tech
- **Next Steps:**
 - Signing of Grant Agreement with CEPT
 - Meeting the identified milestones by See Tech and CEPT and disbursement of Grant to both
 - Decision/Approval of USAID regarding commitment of grant assistance to WBREDA
 - Detailing of budget requirements with respect to salient activities of REECs
 - Development of Implementation Roadmap of REECs and its execution.
 - Business Plan for CEPT to be discussed with other partners and stakeholders.



Project Summary (07-44)

Manager: Gauri Singh



Project Summary (07-45)

Manager: Mark Ginsberg

- **Participating Partner Countries and Organizations:** India: Ministry of Power/Bureau of Energy Efficiency, Confederation of Indian Industry (CII), National Association of Software and Services Companies (NASSCOM). USA: US Department of Energy, US Agency for International Development, Lawrence Berkeley National Laboratory, Alliance to Save Energy. Private sector partners include: Conzerv, IBM, HP, Network Appliance Systems, Wipro Technologies, Tata Communication, Emerson.
- **Milestones Reached (Selected):**
 - Participation and presentations at NASSCOM conference in Mumbai (February 2009)
 - Participation in BEE/CII working groups to develop Indian Guidelines for electrical and mechanical system guidelines (February 2009)
 - Participate in NASSCOM Green Initiative (Mumbai conference and working group meeting in Bangalore in (March 2009)
 - Presentation to industry and government in Delhi - BEE/CII sponsored (February 2009)
 - Support development of information materials (leveraging guide developed in US for GSA and FEMP)
 - Planned, organized and delivered an full day best practices workshop in Bangalore including delivering keynote speech (March 2009)



Project Summary (07-46)

Manager: Michael Green

- **Participating Partner Countries and Organizations:** China
- **Actions Since Last Update:**
 - Met with Chinese Officials from the Ministry of Construction in October 2008
 - Chinese Officials were not interested in the development of this rating tool so it has been cancelled.



Project Summary (08-49)

Manager: Kamal Meattle



Project Status Update

- Resource Update
- What money/in-kind is committed



Input Needed from Project Team

- Commitment required
- Resources required
- Information required
- Meetings required
- Work required

