



BUILDINGS AND APPLIANCES TASK FORCE

7th Meeting

8-10 April, 2009

New Delhi, India

Improvements to Existing Buildings

Theme 5

BATF-06-18 to BATF-08-48

Project Summary

- Project Objective
 - Continuous monitoring of energy performance
 - No-cost/low-cost measures
 - Voluntary market transformation approaches
 - Portfolio management strategies
 - Cost-effective energy efficiency retrofits
 - Improve the energy efficiency of residential buildings
 - Programs and activities



Project Summary (2)

- Project Elements
 - BATF-06-18 Training workshops: on energy management, low-cost EE in existing buildings, tools, standardization, technical issues
 - BATF-06-19 Pilot implementation of no-cost and low-cost EE measures in existing buildings
 - BATF-06-20 Proposed framework screening tool for evaluating potential for retrofits
 - BATF-06-21 Retrofit of Existing Building Chillers in India
 - BATF-06-22 Develop a guide to retrocommissioning of existing buildings
 - BATF-06-23 Energy efficiency upgrade: low energy high rise project (including international extension)
 - BATF-07-38 The urban climate project – building clean and efficient cities
 - BATF-07-39 Australian-Indian building tune-ups
 - BATF-07-40 Energy management program in India
 - BATF-07-41 Tianjin green office building retrofit
 - BATF-08-48 Existing Building Renovation in China

Project Summary (3)

- Recent Project Outputs
 - (06-23) Feb 2009 - Stage 1 of Low Energy High Rise has been achieved with the final report on the Australian surveys, research and analysis on non technical barriers completed.
 - (07-38) Mar 2009 – ICLEI (grantee) has engaged in MOUs with two cities, Rajkot in Gujarat and Coimbatore in Tamil Nadu, and is working with these cities to develop their Clean Development action plans. On March 12-13, ICLEI held a national APP workshop for more than 25 cities and 100 participants.
 - (07-39) Feb 2009 - Objective 1: Building Owner Commitment, a scoping activity undertaken to establish the suitability of buildings for upgrade and to ensure that pre-commitment by building owners is locked in, has been completed.



Project Summary (4)

- Recent Project Outputs
 - (07-40) Mar 2009 – Project assistance led to launch of an Energy Efficiency Star Rating Program for office buildings in India; Workshops and “train the trainer” programs were organized/conducted; Support was provided for 6 hospital energy audits in Gujarat; “Energy Efficiency in Hospitals - Best Practice Guide” was prepared and launched by BEE; A Paper on “Preparing the Next Generation of Architects and Engineers to Design and Construct Sustainable Buildings – An Educational Initiative” was prepared and circulated to project partners to solicit ideas on the next round of activities under the Curriculum Enhancement and Capacity Building program; and Tip sheet on “Energy Efficiency in Data Centres” was developed with support from LBNL and shared with all the major IT players and NASSCOM – national association for IT and ITES companies.
 - (07-41) Oct 2008 – Project cancelled because Tianjin Environment Protection Bureau decided not to proceed.
 - (08-48) Nov 2008 – Developed and reviewed energy-efficient renovation plan; Prepared case study of building renovation and disseminated case study in publications and conferences; Next meeting is on March 30 where project team will present its final report.

Next Steps

- (06-23) Completion of Regional strategy papers (Stage 2 milestone 2) for China and India.
- (07-38) Urban Climate Project team will work with the coordinating teams within Rajkot and Coimbatore to evaluate and identify a range of clean development interventions; ICLEI will bring targeted technical and resource assistance to the cities, will establish baseline emissions levels without interventions, and will begin evaluating the impacts of proposed interventions.
- (07-39) Continue with Objective 2: Establish Energy Use Baseline and Modelling; Second Progress Report is due on 15 June 2009.



Next Steps (2)

- (07-40) Review of “Educational & Curriculum Enhancement” for architectural students with two courses in the field of Building Science and Energy Modeling and recommend revisions; Planning of Building Energy Audit and M&V Accreditation Training Program in partnership with Alliance for an Energy Efficient Economy; Support Public Implementation Unit, Department of Health and Family Welfare, Government of Gujarat for developing framework of energy efficient procurement of HVAC equipment; Conceive a study to evaluate the potential of energy efficiency in small public sector buildings.
- (08-48) Next steps to be determined following March 30 meeting. Construction expected to begin shortly.

Input Needed from Project Team

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

