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<b>Project Number:</b> BATF-09-51	<b>Task Force:</b> Buildings and Appliances
<b>Title of Project:</b> Improving Energy Efficiency in Buildings through Improved Operations	
<b>Lead Partner Country:</b> China	
<b>Participating Partner Countries and Organizations:</b> ICF International (US and China) China Ministry of Housing and Urban-Rural Development (China) China Academy of Building Research (China) China Standard Certification Center (China) Q&S Engineering (US)	
<b>Project Location</b> (Country, State/Province, City): China, Guangdong, Guangzhou; China, Sichuan, Chengdu; China, Guangdong, Shenzhen; and up to 7 additional cities.	
<b>Project Manager Information</b>	
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<b>Project Start Date:</b> September 1, 2008	<b>Date of Project Status Update:</b> October 2009

**Actions Since Last Update:**

The project aims to reduce energy use and emissions in existing buildings in China by substantially leveraging the approach and technical resources of a market-based initiative. This project will improve energy efficiency in existing buildings in China through no-cost and low-cost operational best practices and limited technology upgrades, drawing on ICF International's seven-plus years of on-the-ground experience supporting the EPA eeBuildings program.

During this reporting period, ICF has completed development of its program infrastructure that will support the city-by-city implementation approach. This included development of tools and resources for a multi-city implementation model. The key program tools and resources for target cities includes a revised Building Performance Monitoring Tool (BPMT), an excel-based tool to monitor and analyze building consumption data, training presentation materials, an automated building opportunity assessment tool, and a building management guidebook for facilities staff. The program has used these tools and resources to support program activities in three Chinese cities, and will continue to evolve these tools and resources while expanding the program offering to seven additional cities in the coming months.

Since the last update, ICF, along with its local implementation partner, China Academy of Building Research (CABR), has begun implementation of the program model in two initial cities: Chengdu and Guangzhou. In May, ICF and CABR met with prospective program partners, including private sector property management companies, government construction agencies, building research institutes, and local universities in Guangzhou and Chengdu to recruit potential partners and plan program activities.

In June, ICF delivered training to the Chengdu Property Management Association (CDPMA) that included an overview of the financial value of operational improvements, instructions on tracking building energy performance, and guidance for no-cost and low-cost operational improvement implementation. ICF delivered training, tools, and resources to 46 Chengdu property managers representing 214 buildings and 4.4 million square meters of building floorspace. The program activities were attended by local press, which distributed both video and newspaper coverage. Following this, ICF conducted opportunity assessments for select buildings in Chengdu and will share recommendations for improving energy performance with CDPMA and its members.

In August, ICF delivered the program model to partners in Guangzhou, including training for 78 property managers and building engineers responsible for over 923 buildings amounting to over 5 million square meters of floorspace and opportunity assessments for selected buildings. In July and August, ICF conducted selected opportunity assessments and partner recruitment activities in Shenzhen to schedule program activities for the coming fall.

**Date Completed:**



**Deliverables Since Last Update:**

1. Final No-Cost and Low-Cost training presentation (June 2009)
2. BETA Building Performance Monitoring Tool (June 2009)
3. Draft No-Cost and Low-Cost Energy Saving Guidebook (June 2009)
4. Financial Value Training (June 2009)
5. Energy Performance Monitoring Tool Training (June 2009)
6. Building recruitment folder (June 2009)
7. Chengdu Property Management Association (CCDPMA) workshop resource folder (June 2009)
8. News coverage of the Chengdu Property Management Association Event (June 2009)
9. BETA Automated Opportunity Assessment (September 2009)
10. Guangzhou workshop resource folder (September 2009)

**Date Completed:** see above

**Milestones Reached:**

Completed key outputs for Phase 1, including:

- Selection of target cities;
- Prioritization of cities for implementation;
- Identifying members of the building community in target cities;
- Recruiting key partners; and
- Completion of a set of tools for training and implementation in program cities, including case studies, the BPMT, Opportunity Assessment tool, training presentations, and guidebook.

Contributed to progress towards key outputs for Phase 2, including:

- Conducted building recruitment activities in Chengdu, Guangzhou, and Shenzhen;
- Delivered program model in Chengdu and Guangzhou, including training on building performance monitoring and no-cost and low-cost measures; and
- Developed plans for activities in Shenzhen.

**Next Steps:**

- Continue program activities in Chengdu, Guangzhou, and Shenzhen
- Conduct workshop in Chengdu in November (in coordination with the Western China Property Managers Association Workshop) to provide additional support in implementation of energy-saving measures and identify possible case studies.
- Initialize building recruitment activities and implementation in additional cities
- Revise tools and resources for dissemination to additional cities as needed
- Begin preparation of documenting results and recognizing achievement in participant buildings

**Proposed Project End Date:** August 31, 2010

**Project Already Complete:**  Yes  No



**Other Information:**

Please attach any supplemental project information to this form.