



BUILDINGS AND APPLIANCES TASK FORCE

7th Meeting

8-10 April, 2009

New Delhi, India

Project4: Building Certification

ZHANG Shicong

China. China Academy of Building Research

Project Summary

- Project Objective
- With the extensive data collection and analysis, begin development of practical benchmarking tools
- Set up the energy labeling method and procedure.
- Demonstrate the power of voluntary market transformation approaches, such as formal recognition programs, in improving energy efficiency in buildings.



Project Summary

- **Project Elements**

- Evaluate policy and management systems for building certification
- Pilot projects on building energy labeling
- Establish information exchange network for continuous revision and improvement (cancel?)
- Provide green building guides and related training materials to APP countries - (Cancelled)
- Share U.S. experiences on building data and benchmarking
- OOPER (Office Operational Building Energy Rating)
- Proposal: Building Energy Performance Certification **or** Building Fenestration Rating



Project Summary

- Project Output
 - <Policy and management systems for building certification> (In Chinese)
 - Local building certification center in different climate zones.
 - Pilot certification on the new headquarter of China National Petroleum Corporation.



Project Status Update

- Resource Update
- General Project Funds: (China) RMB400K
- Building energy performance Benchmarking : (Energy Foundation) \$ 100K for the Building energy data collection and analysis.
- Building Fenestration rating: (US) \$250K



Next Steps

- Building energy performance benchmarking (next three years)

Phase I: Data Collection.

Phase II: Comparison Analysis.

Phase III: Interface Development.

Phase IV: Pilot Testing.

Phase V: Policy and Program Options Analysis.



Next Steps

- Building energy performance benchmarking (next one years)
 1. Obtain existing data sets
 2. Review existing data
 3. Convene working group to review analysis
 4. Identify additional data sources
 5. Implement supplementary data collection
 6. Initiate data analysis



Next Steps

- Building Fenestration rating

Training:

- April 2009 - Simulation Manual Training Development
- May 2009 - Fenestration Simulation Software (THERM and WINDOW) Training in China
- July 2009 – Researcher training for Spectral Data Measurement at Lawrence Berkeley Laboratory

Laboratory Upgrade:

- August 2009 - Air Leakage testing lab



Project Contact Info

- Lead country :China . ZHANG Fulin, zhangfl@mail.cin.gov.cn
- Contact person: ZHANG Shicong, zsc2062198@yahoo.com.cn
- Building energy performance benchmarking
(Dhathaway@icfi.com, zsc2062198@yahoo.com.cn)
- Building Fenestration rating
rockyshi@263.net