



Asia-Pacific Partnership on Clean Development and Climate

The 2nd Ministerial Meeting in New Delhi, India, 15 Oct, 2007

Buildings & Appliances Task Forces Flagship Projects

1. **Harmonization of Testing Procedures**
 - **Lighting**, Motor, HVAC-R, and Electronics

2. **High Performance Buildings and Development**
 - **Green Building Flagship** in China:
 - Mayor's Training Center
 - Olympic Village Zero Building
 - Agenda 21 Building

15 Oct, 2007

Chair: Seong, Si-Heon

Co-Chairs: Ginsberg, Mark

Kathleen Hogan



Mission & Goals

- Use cooperative mechanisms to support the further uptake of increasingly more energy efficient *appliances*
- Promote best practice and demonstrate technologies in buildings and appliances
- Support the integration of appropriate *mechanisms* to increase the uptake of energy efficient buildings and appliances
- Systematically identify and respond to the range of barriers that limit the implementation of end-use energy efficiency practices and technologies



Approved BATF Projects

	Project No.	Project
Appliances (3)	<i>APP BATF PR – 012006</i>	Harmonization of Test Procedures
	<i>APP BATF PR – 022006</i>	Alignment of national standby power approaches
	<i>APP BATF PR – 032006</i>	Market Transformation
Buildings (8)	<i>APP BATF PR – 042006</i>	Building Certification
	<i>APP BATF PR – 052006</i>	Improvements to Existing Buildings
	<i>APP BATF PR – 062006</i>	Role enhancement of Building Energy Codes
	<i>APP BATF PR – 072006</i>	High Performance Buildings and Developments <ul style="list-style-type: none"> •Green Building Flagship in Beijing - Agenda 21 Building - Olympic Village Zero Energy Building - Mayor Training Center
	<i>APP BATF PR – 082006</i>	Utility Regulation and Incentives
	<i>APP BATF PR – 092006</i>	Smart Meters
	<i>APP BATF PR – 102006</i>	Green Leases
	<i>APP BATF PR – 112006</i>	Commercial Financing



Flagship Project 1.

Harmonization of Test Procedures – Compact Fluorescent Lamp

- **Goal**

- To develop a methodology for test procedures that measures CFL efficiency and performance which is harmonized among the participant countries
- To share the developed methodology and engage the international standards agencies
- To amass results using the methodology
- To facilitate mutual acceptance of accreditation of CFL testing facilities and the results of tests

- **Background**

- Many countries have test procedures, standards, and labeling (mandatory and/or voluntary) schemes for a wide variety of products. In the majority of cases, these test procedures and resulting performance levels are different, resulting in a worldwide patchwork of testing and performance requirements
- What is true for equipment and appliances in general is also true for CFLs. Harmonizing CFL test procedures and regulation will stimulate CFL sales and dramatically reduce the energy consumption of household lighting and abate greenhouse gas emissions



Continued...

- **Timeline**

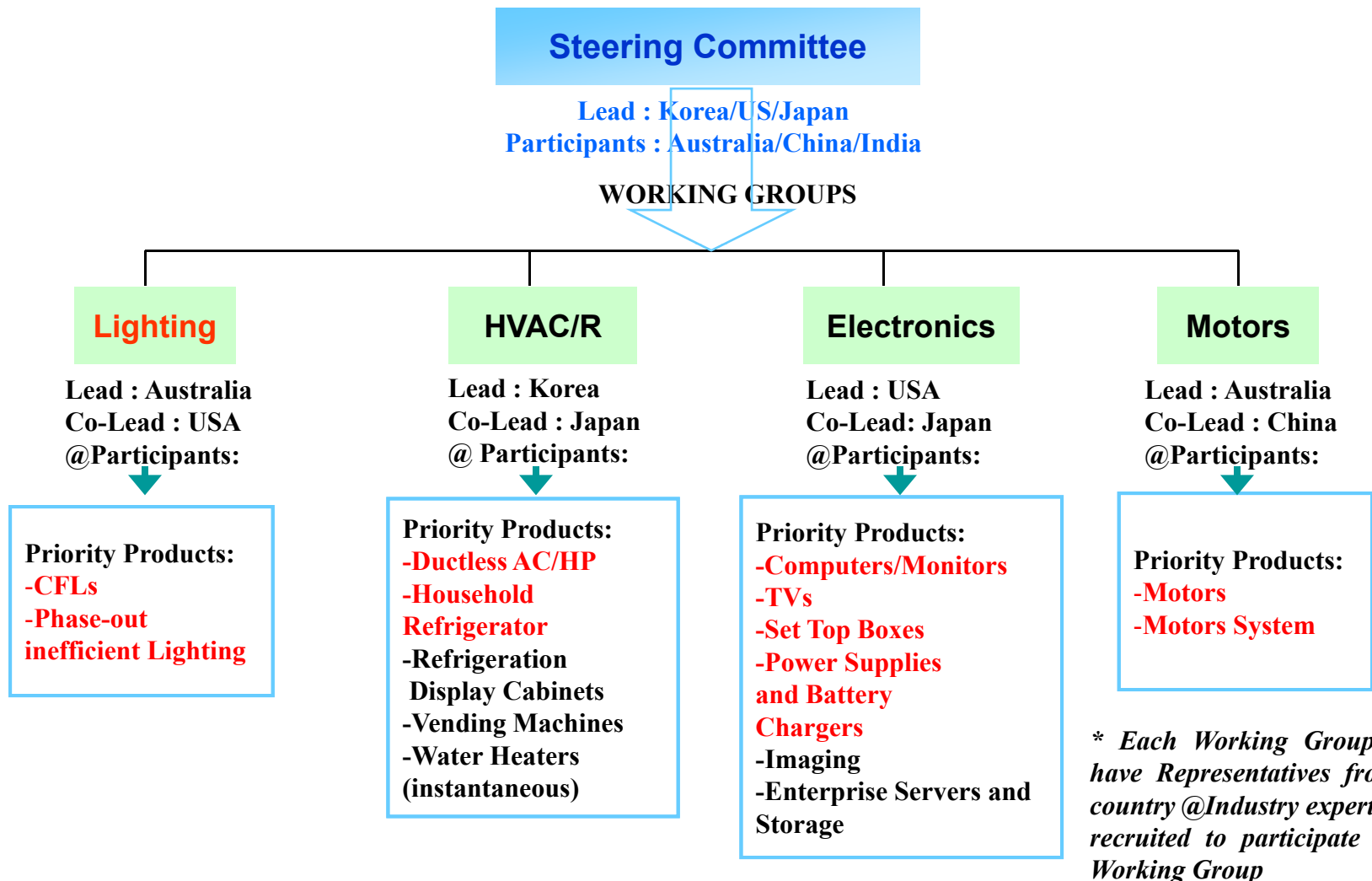
- Four phases of operation, July 2007 to January 2011
- Disseminate information and coordinate activities through email/workshops, possible Web site
- Overall management of sub- project to be coordinated through a working group, possibly to be chaired and supported by the Australian Government

- **Outcome**

- Through the establishment of this project over the next 5 years, the BATF initiative is expected to cost-effectively achieve an average reduction of **at least 5% in total residential and commercial energy use in partner countries** at the time of peak impact, compared to the base case without the harmonization
- Expect to reduce at least **75MtCO₂/year through APP countries**



Structure of Project 1 WGs





Flagship Project 2.

High Performance Buildings and Developments – Green Buildings Flagship in China

- **Project No** : APP BATF PR-072006
- **Objectives**
 - Promote the construction of and identify existing high performance buildings and developments for which information will be kept and maintained on the APP web portal.
 - Create proven building designs for mass production and deployment, using existing technologies with proven energy reduction
- **Participation and Management**
 - Leader : Michael Green, DITR, Australia
 - Co-Leader : Japan
 - Participants : China, India, USA



Activity

- First HPBAD meeting in Beijing, China, 30 March 2007
- Create APP web portal for information on high-performance buildings and developments
- **Green Building Flagship in Beijing proposed as a flagship project**
 - Mayors Training Center
 - Olympic Village Zero Energy Building
 - Agenda 21 Building



Outcomes

- Several high-performance buildings constructed or enhanced in Beijing
- Eventual dissemination of high-performance building principles throughout China and to other APP countries
- Increased trade in energy-efficient buildings-related products and services among APP countries
- Energy and cost savings
- GHG emissions reductions
- High energy saving impact



Mayors Training Center & Agenda 21 Building



Mayors Training Center



Agenda 21 Building



Olympic Village Zero Energy Building



- In the center of the Olympic Village, surrounded by athlete dormitories
- 3 floors overground, 1 floor underground
- 3067 m²
- Main functions: Living room and bedroom for children

Thank you !

