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Aligning Test Methods in Energy Efficiency Standards - From China's Perspective

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**Aligning Energy Efficiency Regulations for
ICT Products: Developing a Strategic
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Aligning Test Methods in Energy Efficiency Standards - from China's perspective



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Background



- In 2009, residential energy consumption in China reached **240 million toe**, almost the TPES of Canada or France.
- In 2011, China produced 122 million TVs (more than 50% of the global production), 1.13 billion mobiles (more than 70% global production) and 320 million micro-computers (more than 60% global production).
- Uniform test methods can save the cost of testing and compliance requirements, remove trading barriers. It can also speed the development of energy efficiency standards/labeling programs.

Test Methods in Energy Efficiency Standards for ICT products in China



- **Principles for selecting testing methods of ICT products**
 - ISO or IEC standards
 - Widely accepted standards/protocols/specifications (Energy Star, CoC of ErP etc.)
 - Self-developed

Products	Selection of Test Methods
External Power Supply	International Protocol
Computer Monitors	Self-developed
Copiers,	Energy Star
Printers/fax machines	Energy Star
Set-top boxes	Self-developed
Computers	Energy Star

Lessons from China's experiences for aligning test methods



Solid Technical Basis


- Technology neutral
- Adapted to the domestic market

Full Participation

- Stakeholders involving in the process: policy-makers, manufactures, testing labs, certification bodies
- Example: International efficiency marking protocol for external power supply




Barriers to aligning test methods of ICT products in APEC economies



- **Fragment of information**
 - Standardization bodies: IEC TCs
 - Industries: ECMA, Protocols, forums
 - Programs: Energy Star, European Directives, Labeling Program
- **Diversity**
 - Typical products
 - Testing environment
 - Usage profile
- **Participation**
 - Limited resources
 - Complexity of administrations
- **Capacity**
 - Policy makers
 - Manufactures
 - Testing lab.

Strategic way to align



Road map

- Outcomes
- Routes
- Timetable

Information Exchange

Demonstration

Implementation

- Regular workshop
- APEC information hub of international activities

- Target products
- Protocols or technical report

- Capacity Building
- Policy suggestions

