



**Asia-Pacific
Economic Cooperation**

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A Common Standard for Test Methods and Product Categorization

Submitted by: Expert Group on Energy Efficiency and Conservation
(EGEE&C)



**Aligning Energy Efficiency Regulations for
ICT Products: Developing a Strategic
Approach
Seoul, Korea
18 July 2012**

Aligning Energy Efficiency Regulations for ICT Products: Developing a Strategic Approach

18 July, 2012 – Seoul, South Korea



A Common Standard for Test Methods and Product Categorization

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• Session 1a Panelists

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- November 2009, the APEC Environmental Goods & Services Work Program
 - work to address non-tariff barriers and enhance market drivers to environmental goods such as explore greater harmonization and convergence of standards, particularly in the area of energy efficiency
 - work to address non-tariff barriers and enhance market drivers to environmental goods
 - explore greater harmonization and convergence of standards



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- Expert Group on Energy Efficiency and Conservation with support from the APEC Market Access Group commissioned a report:
- Reducing Trade Barriers for Environmental Goods and Services in APEC Economies” Mapping Exercise for Energy Efficient Products.



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- Selected energy-using products for the mapping excise include:
 - Air Conditioners
 - Refrigerators & Freezers
 - Domestic & Commercial Lighting
 - **Computers & Monitors**
 - Televisions
 - Clothes Washers & Dryers
 - Water Heaters



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Economy	Test Procedure	Mandatory Standard	Mandatory Label	Voluntary Label
Australia	US EPA ENERGY STAR VS	Under development (targeted for April 2013)	None	ENERGY STAR - Computers
Canada	US EPA tests	None	None	ENERGY STAR - Computer
China	CQC3114-2009	under development	None	China Energy Conservation Certification for computers
Hong Kong, China		None	None	Voluntary Energy Efficiency Labeling Scheme for Computers
Indonesia		under development	None	None
Japan	US EPA tests	Top Runner for Computers and Monitors	Label Display Program	ENERGY STAR - computers
New Zealand	US EPA tests	Under development (targeted for April 2013)		ENERGY STAR - computers
Korea	KS C IEC 62301	n/a	E-Standby Power Program for Computers (Warning Label)	E-Standby Power Program for Computers (High Standby Power Reduction Potentials)
Philippines		Under development	None	None
United States	US EPA tests	None	None	ENERGY STAR-Computer



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- Key Findings

- Few APEC economies have established mandatory programs for computers other than Korea's warning label and Japan's Top Runner program.
- ENERGY STAR has been introduced as a voluntary label in five economies – Australia, Canada, Japan, New Zealand, and the US.



- Additionally, China, Hong Kong, China, and Korea have developed their own voluntary programs.
- The Philippines and Indonesia are considering programs for computers.
- **Since then;** Australia and New Zealand have consulted on a proposal to introduce Minimum Energy Performance Standards and Energy Labelling for Computers and Monitors.
- Australia and New Zealand are also working with the Game Console industry to develop a voluntary code.



- Test Procedures

- US EPA test methods are widely adopted across member economies.
- Only China and Hong Kong, China use their own test methods and Korea adopts IEC 62301. The current situation presents a high potential for convergence.



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Recommendations Computers

- There is existing convergence in computer standards among the APEC economies, which presents a unique opportunity for APEC to facilitate further harmonization.
- Since most economies currently have programs for computers involving US EPA test methods, it is recommended that other member economies follow suit.




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Economy	Test Procedure	Mandatory Standard	Mandatory Label	Voluntary Label
Australia	US EPA Energy Star V5.2 tests	Under development (targeted for April 2013)	Under development (targeted for April 2013)	ENERGY STAR - Monitors
China	GB 21520-2008	Minimum Allowable Values of Energy Efficiency and Energy Efficiency Grades for Computer Monitors	China Energy Label - Computer Monitors	China Energy Conservation Certification for computer monitors
Hong Kong, China		None	None	Voluntary Energy Efficiency Labeling Scheme for LCD Monitors
Indonesia		Under development	None	None
Japan	US EPA tests	Top Runner Program for Monitors	Label Display Program	ENERGY STAR for Monitors
New Zealand	US EPA ENERGY STAR V5.2 tests	Under development (targeted for April 2013)	Under development (targeted for April 2013)	ENERGY STAR program for Displays
Korea	KS C IEC 62301	N/A	E-Standby Power Program for Monitors (Warning Label)	E-Standby Power Program for Monitors (High Standby Power Reduction Potentials)
Chinese Taipei	ENERGY STAR Program; IEC 62087 (On Mode); IEC 62301 (Standby Mode)	None	None	Energy Label Program for Monitors
United States	10 CFR Part 430 Subpart B App H, US ENERGY STAR	None	None	ENERGY STAR - Displays (Versions 4.1 and 5.1 specifications have been finalized. Effective date for 4.1 is May 1, 2010, for 5.1 is May 1, 2012)



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Recommendation Monitors

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- There is existing convergence in computer standards among the APEC economies, which presents a unique opportunity for APEC to facilitate further harmonization.
 - This can start from first harmonizing the modes of energy use, then the levels of energy efficiency.
 - It is recommended that other economies considering a program for monitors adopt either ENERGY STAR or IEC test standards

Thank You

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<http://www.apec-esis.org>

http://www.clasponline.org/ResourcesTools/Tools/SL_Search/SL_SearchResults



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