Asia-Pacific Economic Cooperation

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Overview on Asia Pacific Emerging Energy Regulations

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Aligning Energy Efficiency Regulations for ICT Products: Developing a Strategic Approach
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Overview on APAC Emerging Energy Regulations

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Highlights of APAC Energy Regulations

- Significant increase of both mandatory and voluntary energy regulations in APAC region.
- Commonalities:
  - Most of the regulations implemented or in development are legal requirements or having timelines to transit from voluntary to mandatory.
  - Several APAC MEPS (Minimum Energy Performance Standard) for Computers from different economies started to adopt "Energy Star 5.0/5.2 TEC framework + ECMA-383 power adders on graphics" as criteria.
  - Several APAC MEPS for Computer Displays & Imaging products have also adopted Energy Star specification as technical requirement.
- Differences:
  - Most of the regulations include mandatory unique labeling and/or certification requirements.
  - Although adopting the TEC criteria, individual MEPS still has its own definition on product classification dissimilar from Energy Star.
  - Different criteria on test/reporting scheme: several economies mandated local 3rd-party testing and not accepting self-test.

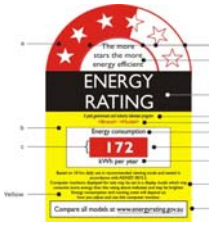
Existing Challenges

- Unique labeling, testing & certification requirements.
  - Lack of harmonization among various mandatory energy requirements from the region could signify the impact on getting product market access, as well increasing the cost and regulatory uncertainty.
- Industry Coordination
  - Wide-range coverage with unique language of individual economy
  - Less transparent legislation process and lack of direct communication channel between industry and authorities in certain economies
  - Even when the effective timeline/schedule has been set by governments, several programs are still being defined without concrete requirement/standard available
  - Lack of a pan-region industry association

Industry Position & Actions

- Position of industry negotiation
  - **For Voluntary Requirement:** Recommend to be in line with ENERGY STAR requirements and framework.
  - **For Mandatory Requirement(MEPS):** Recommend to harmonize with (Energy Star 5.0 + ECMA 383 definitions and classifications on GPU);
  - **Testing and data:** Support the harmonization based on ENERGY STAR test methods. Test report shall be accepted by any manufacturer's self-testing or accredited 3rd party laboratory in any economy.
  - **Labeling:** NOT supporting any type of mandatory labeling scheme, should be on a voluntary basis. Also alternatively support a framework whereby the government does not mandate energy efficiency levels, neither requiring labels on compliant products. Instead, only requiring specific marking on products that do not meet efficiency levels.
- Industry actions underway
  - Engage in the newly formed ITI Asia Pacific Environmental Network (AEN)
    - The ITI AEN group should determine priorities and details of strategy and tactics. Provide a non-competitive forum to share information and leverage common interests
  - Participate in informal/local influence groups
    - Informal ICT group (S. Asia base focusing on regulation development in Thailand, Vietnam, etc): most participant companies are all ITI members
    - Local trade associations – FICCI, MAIT (India WEEE/RoHS), TechAmerica (China RoHS), AIIA (Australia MEPS), etc
    - APEC as a potential influence group (current focus on energy)
  - Each company continue to lobby and influence

Q & A



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Energy Regulation Landscape

(mandatory)

Economy	Requirement*	Type**	Scope	Effective Timeline	Labeling/Requirement	Testing Methodology
AU/NZ	MEPS	L	Computers	2013/4/1 (pending)	No label	Aligning with Estar
			Display		Label required for Display	Aligning with Estar
China	China Energy Label (CEL)	L	Imaging	Jul 01,2011	Label required on packaging or product Text in product documentation	Aligning with Estar
			Display (Revision)	Nov 01,2011	Must meet min Grade 2	Aligning with Estar
			Computers	Jan 1, 2013	Label required on product	Aligning with Estar
Japan	JEL (Top-Runner)	L	Computer (revision)	TBD	No labeling	Top-runner standard
	JEL (Top-Runner)	L	Printer	TBD	No labeling	Top-runner standard
Korea	E-Standby (Revision)	L	Display (Revision)	Jul 1, 2012	Specific warning label required for non-compliant product	Aligning with Estar & ErP Lot 6 Tier 2
		L	Computers (revision)	Jul 1, 2012		Aligning with Estar
Chinese Taipei	MEPS	L	Display	Jul, 2013	Label is required, detail TBD.	Aligning with Estar
Vietnam	Energy Efficiency Labeling	L	Printer, Display,	Jan 1, 2015	Energy Label is required Requirement (Pending)	Aligning with Estar

*MEPS: Minimum Energy Performance Standard; HEPS: High Energy Performance Standard
** Type: L – Legal; V - Voluntary

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Energy Regulation Landscape

(Voluntary & will be mandated later)

Economy	Requirement*	Type**	Scope	Effective Timeline	Requirement	Testing Methodology
India	BEE	V --> L	Computers	NB: Apr, 2011 to be mandated in 2 or 3 years	Label on packaging & product. Aligns with EStar criteria.	Aligning with Estar
				DT: Pending		
			Imaging	CY 2012 To be mandated in 3 years		
S. Korea	E-Standby Revision	V --> L	Server	V: Jul 1, 2011 L: TBD	Standard in development and tend to adopt E-star Server 2.0; mandatory grade labeling proposed.	To align with Estar
Chinese Taipei	Energy-saving Label	V	Computers	TBD	Voluntary label	Aligning with Estar
Thailand	MEPS	L & V coexist	Computers, Display, Imaging	Not identified yet	Label is required. Detail is in development.	In development ; TBD
	HEPS					

*MEPS: Minimum Energy Performance Standard; HEPS: High Energy Performance Standard
** Type: L – Legal; V- Voluntary