



Overcoming Challenges and Leveraging Success Factors in MEPS Implementation

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Light Naturally

Implementing MEPS

First Time for MEPS

- “Learn to walk before you run”
 - There are legal and administrative structures to establish
- Simple, achievable MEPS outcomes for first implementation
 - Should be manageable for the anticipated administration and compliance resources
- Don’t create something novel, it’s a global market.
 - This may limit market competition due to additional compliance burden
- Look to your trading partners for engagement and alignment
- Access to a neighbouring country or regional registration system
- Availability of test laboratories – local or regional
- Plus...

Implementing MEPS

Reviewing Existing MEPS

- Know the market
 - Benchmarking product performance provides understanding of the current market and potential challenges especially for local manufacturers
 - Local market must be considered in relation to the global market
- Harmonisation of test methods and MEPS requirements
 - Use international test standards
 - Opportunity to establish a regional MEPS
- Maintaining confidence in local and regional test laboratories
 - Interlaboratory comparisons

Pacific Community

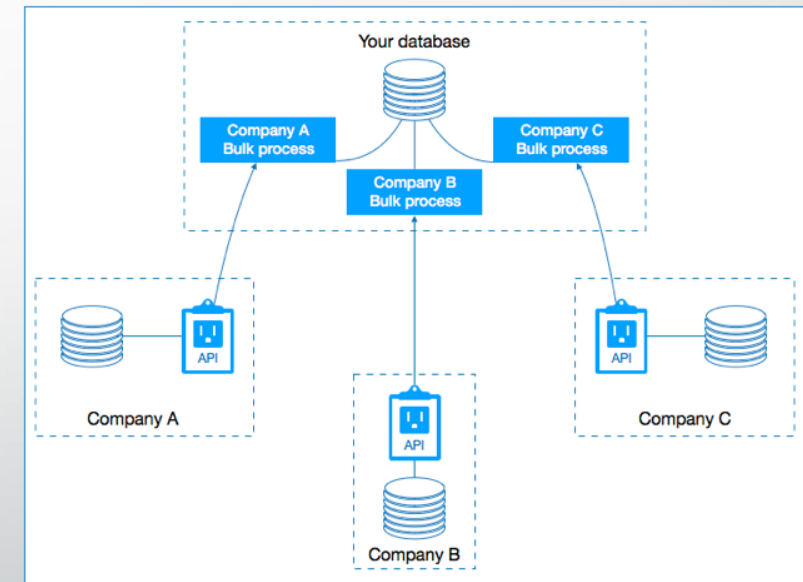
Regional Harmonisation

- Test Standards and MEPS aligned with Australia and New Zealand
- Pacific Appliance Database (PAD) linked to Australia/New Zealand Energy Rating database for a number of appliances



Reliant on third party country for timely

- Revisions of existing MEPS
- Establishing new MEPS for product expansion (e.g. LED lighting)



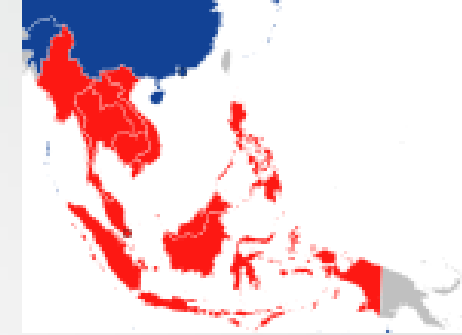
Pacific Appliance Database

Check Database

Registration No.	Product Type	Brand	Model No.	Standard	Televisions	Status	Country	Kiribati	Samoa	Solomon Islands	Tonga	Tuvalu	Vanuatu	Product ID
KIR-RF-000001	Refrigerators and freezers	Liebherr	ECN6156	AS/NZS 4474.1:2007/Amdt 2:2011	APPROVED		Kiribati							1920
KIR-RF-000002	Refrigerators and freezers	FISHER & PAYKEL	H160SL	AS/NZS 4474.1:2007/Amdt 2:2011	APPROVED		Kiribati							1940
SLB-RF-000002	Refrigerators and freezers	Haier	HRF220TW	AS/NZS 4474.1:2007/Amdt 2:2011	APPROVED		Solomon							0357
SLB-AC-000022	Air-conditioners	Haier	AS53TD1HRA / 1U53RA1ERA	AS/NZS 3823.1.1:2012	APPROVED		Solomon Islands							SLB-PR-000371
SLB-AC-000001	Air-conditioners	CHIGO	CS-25V3A-1CZ-W3/CS-25V3A- Y4Z	AS/NZS 3823.1.1:2012	APPROVED		Solomon Islands							SLB-PR-000401
SLB-RF-000001	Refrigerators and freezers	Haier	HRF340BS2	AS/NZS 4474.1:2007/Amdt 2:2011	APPROVED		Solomon Islands							SLB-PR-000473
SLB-RF-000003	Refrigerators and freezers	Haier	HCF264	AS/NZS 4474.1:2007/Amdt 2:2011	APPROVED		Solomon Islands							SLB-PR-000474
SLB-RF-000108	Refrigerators and freezers	MIDEA	HD-207FWEN	AS/NZS4474.2:2009	APPROVED		Solomon Islands							SLB-PR-000475
SLB-RF-000004	Refrigerators and freezers	Haier	HBM450HSA1	AS/NZS 4474.1:2007/Amdt 2:2011	APPROVED		Solomon Islands							SLB-PR-000476



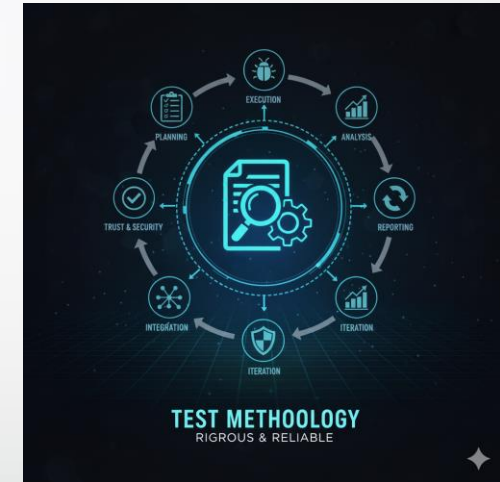
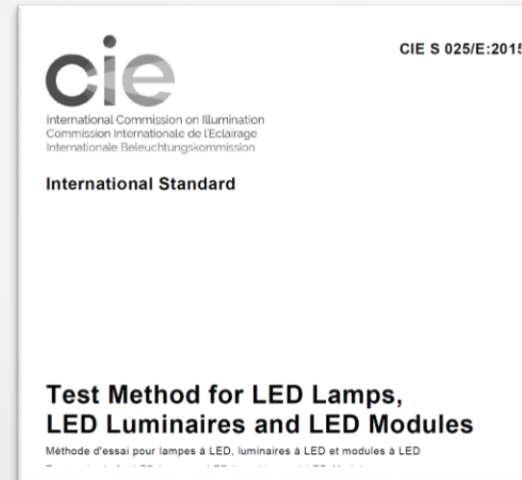
ASEAN – A Regional Policy Roadmap



Harmonisation of Energy Performance Standards for Lighting

Components

1 Harmonization of Test Methods



2 Product Scope and Evaluation Parameters

Non-directional lamps – LED

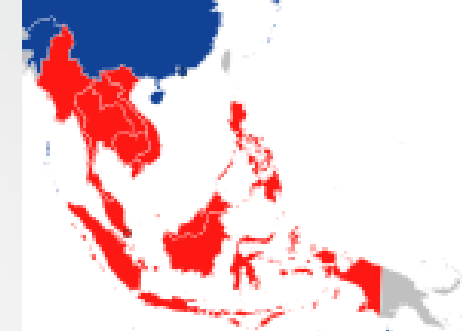


Linear lamps – LED & fluorescent





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Components

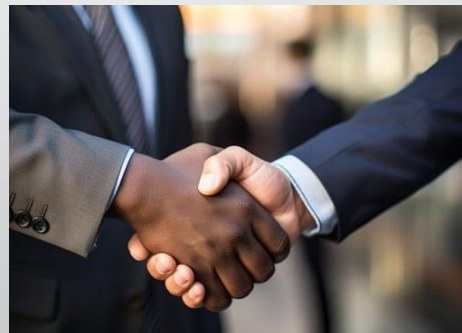
3 Harmonization of Minimum Energy Performance Standards

Harmonization of Minimum Energy Performance Standards: The ASEAN countries will progress (possibly in a staged progress) towards agreed target reference MEPS of 80 lm/W by 2023, as mandatory MEPS for all non-directional LED lamps and linear LED and fluorescent lamps within the agreed scope. The MEPS would be periodically reviewed, revised and/or expanded at an interval of 5 years or less.

4 Testing Infrastructure: interlaboratory comparisons



5 Mutual Recognition Agreements (MRA)

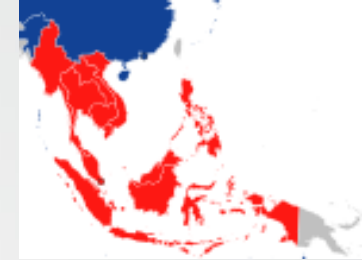


6 Reporting – establish regional product database

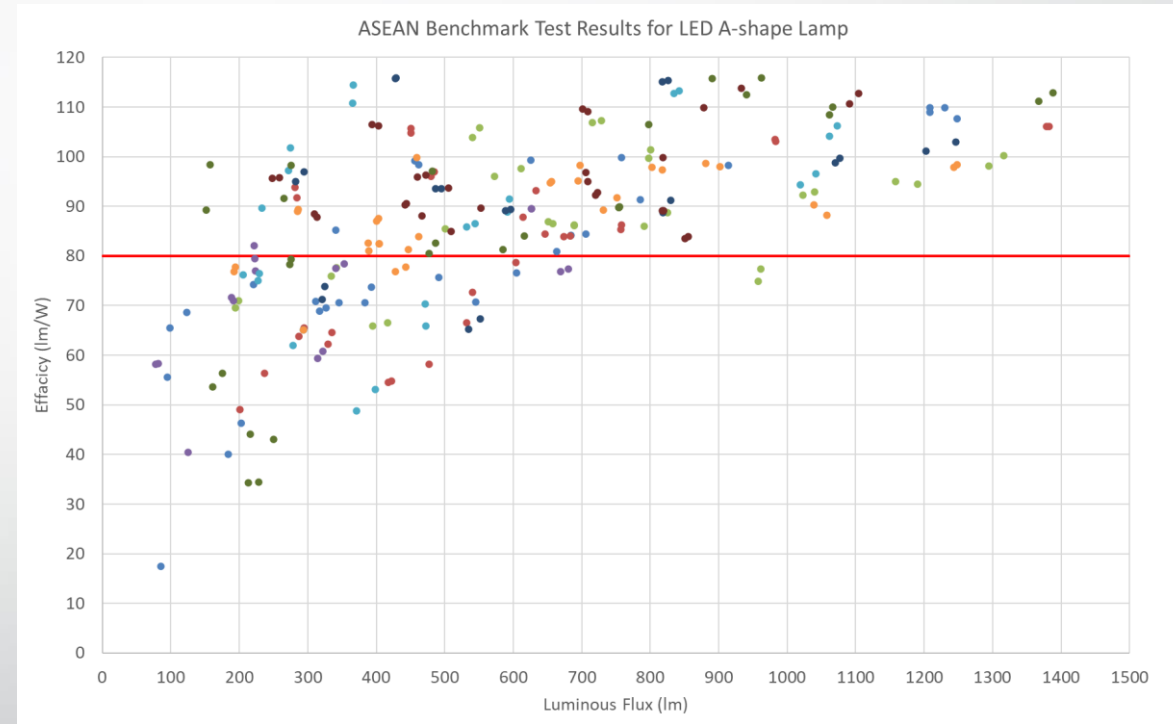
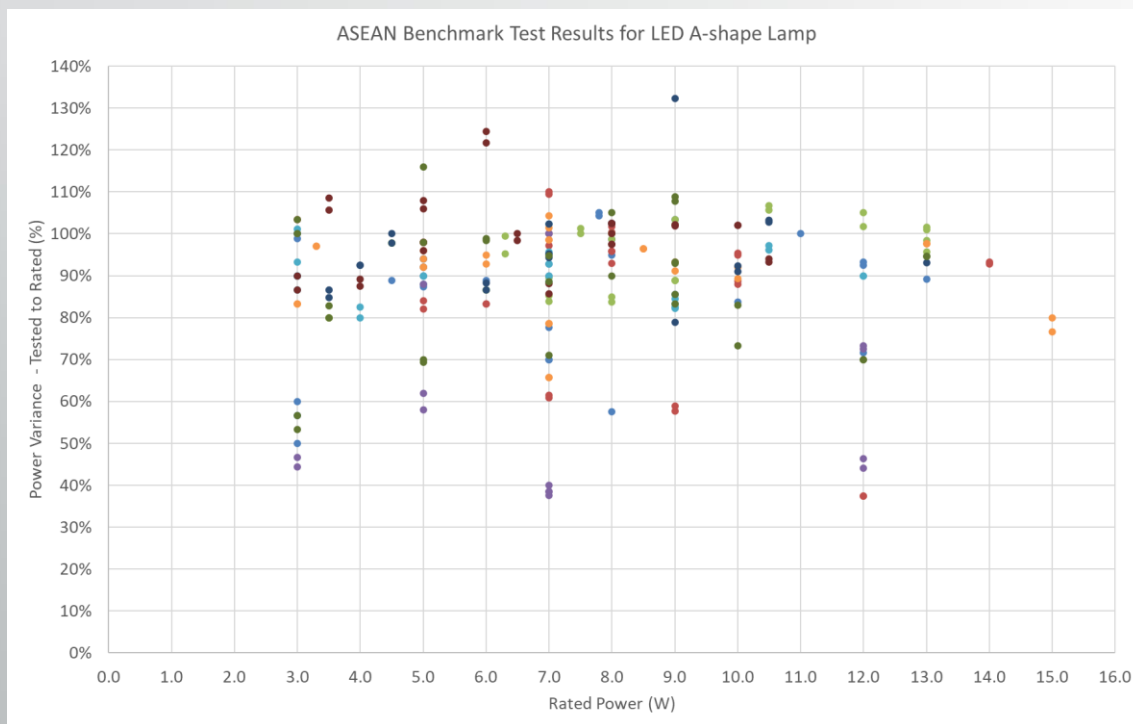




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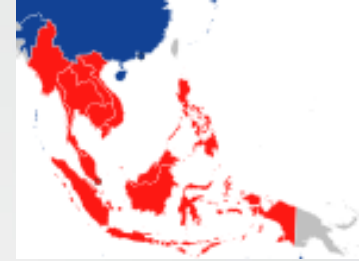


Benchmarking performance - before





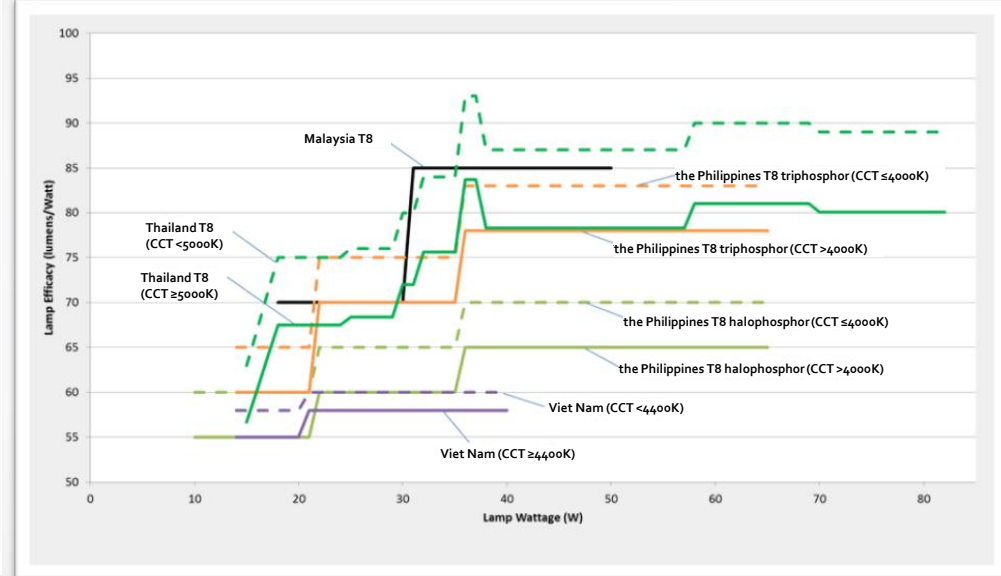
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Before

Country	Incandescent Lamps	Compact Fluorescent Lamps	Linear Fluorescent Lamps	Light Emitting Diode Lamps	Ballasts	HID Lamps
Brunei						
Cambodia						
Indonesia		✓ (V) Under revision		Planned	Planned	
Lao PDR						
Malaysia	✓ (M)	✓ (M)	✓ (M)	✓ (M)	✓ (M)	
Myanmar						
the Philippines		✓ (M)	✓ (M)	Planned		
Singapore	✓ (M)	✓ (M)		✓ (M)		
Thailand		✓ (V)	✓ (V)	(V) Under development	✓ (M)	
Viet Nam	✓ (M)	✓ (M)	✓ (M)	Planned	✓ (M)	✓ (M)

(M) mandatory; (V) voluntary



Now

Country	Non-directional LED Lamps			Double-capped LED Lamps		Double-capped Linear Fluorescent Lamps		
	MEPS Level (lm/W)	CIE S025 Adoption	IEC 62612 Adoption	MEPS Level (lm/W)	CIE S025 Adoption	MEPS Level (lm/W)	CIE 084 Adoption	IEC 60081 Adoption
Brunei Darussalam	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cambodia	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indonesia	80	YES	YES	100	YES	N/A	YES	YES
Lao PDR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Malaysia	60	N/A	YES	75	N/A	70/75	YES	YES
Myanmar	80	YES	YES	80	YES	80	YES	YES
the Philippines	90	YES	YES	100	YES	100	YES	YES
Singapore	100	YES	YES	100	YES	75	YES	YES
Thailand	90	YES	YES	120	YES	100	N/A	YES
Viet Nam	60	YES	YES	80	YES	55/60	N/A	YES

Africa

Harmonised MEPS and Test Methods

- East African Community (EAC)

- EAS 1064-1:2022, Lighting Products – Minimum Energy Performance Standard (MEPS) – Part 1 – Lamps (1st Edition) covering energy efficiency and functional performance requirements, sampling and test methods for general service and tubular lamps.
- EAS 1064-2:2022, Lighting Products – Minimum Energy Performance Standard – Part 2 – Luminaires (1st Edition) covering energy efficiency and functional performance requirements, sampling and test methods for ambient luminaires and outdoor/streetlight luminaires.

- Southern Africa Development Community (SADC)

- SADC HT 109:2021 Minimum Energy Performance Standards (MEPS) for Lighting

- The Economic Community of West African States (ECOWAS)

- Considering adopting Nigerian Standard as regional standard
- NIS 1209 Minimum energy performance standard — Lighting products - Parts 1: Lamps & 2: Luminaires

- **There is strong consistency between EAC, SADC and Nigeria (ECOWAS) standards**

ECONOMIC COMMUNITY OF WEST
AFRICAN STATES (ECOWAS)



EAST AFRICAN COMMUNITY (EAC)



SOUTHERN AFRICAN DEVELOPMENT
COMMUNITY (SADC)





Thank you

Questions?