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United Nations Environment Programme en.lighten initiative

Securing the climate change benefits of efficient lighting in South-East Asia and Pacific economies via monitoring, verification and enforcement capacity building activities

lites.asia, Manila, The Philippines

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Australian Government
AusAID



PHILIPS



nLTC National Lighting Test Centre
China

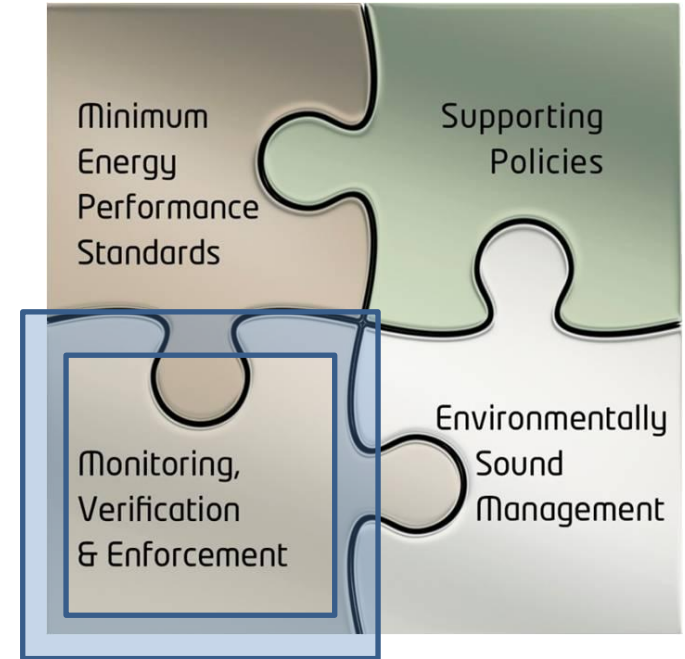
Goals

1. Reduce GHG emissions in South-east Asia and the Pacific through lighting monitoring, verification and enforcement (MVE)
2. Increase UNEP en.lighten outreach to support countries' rapid transition to energy-efficient lighting
3. Support the rapid transition to high efficiency lighting and to phase out inefficient incandescent lamps



Scope

- Focus: **Monitoring, verification and enforcement**
- Association of Southeast Asian Nations (ASEAN) and Secretariat of the Pacific Community (SPC)
- Asian country experts and resources



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Content

- Content will be based on *Achieving the Global Transition to Energy Efficient Lighting Toolkit*, Section 4, Ensuring Product Availability and Conformance.”
- New resources will be developed to address the needs and market situation in target countries.



- Suggestions are welcome!
- Please refer us to colleagues
- Complete the survey...

Return to:

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Monitoring, Verification and Enforcement

- **Monitoring:** Process to check product efficiency measuring performance claims against a nominated standard
- **Verification:** Declarations of conformance by lighting suppliers are confirmed by independent third parties
- **Enforcement:** Action taken against suppliers of non-compliant products, as a result of finding fault through either monitoring or verification



Monitoring

- Measurement process that any party can use to check product efficiency
- Involves measuring performance claims against a nominated standard in a consistent manner, using accurate instrumentation applied by qualified staff in controlled conditions



Verification

- Measurement process whereby declarations of conformance by lighting suppliers are confirmed, often by independent third parties
- It can be commissioned by the supplier (to confirm claims), but may be conducted by other parties to challenge declarations



Enforcement

- Action taken by administrators against suppliers of non-compliant products, as a result of finding fault through either monitoring or verification
- Enforcement requires rigorous and transparent monitoring and verification processes.



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Key activities

1. Coordinate and develop resources
2. Assess markets and products to establish baselines
3. Engage intensive emitters of GHGs to accelerate country efforts
4. Assist region & countries to develop a strategic plan and draft proposals



Tasks

1. Coordinate and develop resources

- Establish regional information sharing network
- Conduct benchmark testing of lamps (~100 models)
- Create “best practice templates” for lighting test laboratories
- Publish four guidebooks (topics to be identified)
- Conduct training, per identified needs (see survey)

2. Assess markets and lighting products to establish baselines

- Determine key factors for evaluations
- Retain experts for training and guidebooks
- Conduct market research and surveillance
- Convene lites.asia meetings



Tasks

3. Engage greatest emitters of greenhouse gas to accelerate their efforts

- Update regional status report, including current policies and new forecasts of GHG emissions, energy and economic savings
- Select several countries for intensive focus, to demonstrate that lighting MVE can reduce greenhouse gas emissions

4. Assist region & countries to develop a strategic plan and draft proposals

- Draft regional MVE plan/s
- Set regional and national priorities for MVE activities
- Assist intergovernmental organizations and countries to draft proposals



Timeline

Year	Year One				Year Two			
Month	3	6	9	12	15	18	21	**
Tasks	Nov-13	Jan-14	Apr-14	Jul-14	Oct-14	Jan-15	Apr-15	Jun-15
1.0 Coordinate & develop resources								
1.1 Test lamps	Plan			Report 1		Report 2		Final Report
1.2 Create lab templates		Template						
1.3 Training sessions	x	x	x	x	x	x	x	
1.4 Frameworks for sharing data		Plan	Launch	Maintain				
1.5 Publish guidelines		Guide 1	Guide 2	Guide 3	Guide 4			
2.0 Assess baselines; surveillance	Plan	Report 1		Report 2		Report 3		Final Report
2.1-2 Determine factors; train researchers								
2.3 Market research & surveillance	Plan	Launch surveillance	Launch reporting	Continuous reporting				
2.4 lites.asia meetings			Meeting 1	Meeting 2		Meeting 3	Meeting 4	
3.0 Engage GHG-intensive countries	Bilateral	Bilateral	Bilateral	Bilateral	Bilateral			
4.0 Proposals for implementing MVE	Proposal 1	Proposal 2	Proposal 3	ongoing support				



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Thank You

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