

# UNEP *lites.asia*

## Regional Efficient Lighting Policy Workshop

### Bangkok, Thailand

3-4 February 2015

A *lites.asia* regional efficient lighting policy workshop was held in the United Nations Conference Centre in Bangkok, Thailand on February 3-4, 2015. This workshop was the third in a series of *lites.asia* workshops hosted by the United Nations Environment Programme (UNEP) en.lighten initiative. These workshops are part of a capacity building project for efficient lighting monitoring, verification and enforcement (MVE) in Southeast Asia and the Pacific, funded by the Australian government and implemented by the UNEP en.lighten initiative. This workshop was co-hosted by the Thailand Department of Alternative Energy Development and Efficiency (DEDE), and the Electricity Generating Authority of Thailand (EGAT).

### Objectives

The workshop engaged participants in discussing opportunities for implementing harmonized policy for efficient lighting in Southeast Asia, and for ensuring adequate compliance mechanisms. It also provided a platform for discussion on financial mechanisms and options to mobilise funding to help support national and regional efficient lighting programmes.

### Participants

The workshop brought together over 70 participants. Delegates included policy makers from ministries of energy and environment, representatives from standards bodies, laboratories, industry organizations and development agencies from over 20 countries within Southeast Asia, South Asia, the Pacific and Europe.

A summary of key messages of the sessions is provided below. For further details on the various presentations, the slides can be downloaded on the [lites.asia website](http://lites.asia).



## Opening session

### Moderator

Mr. Gustau Mañez, Project Manager, UNEP-GEF en.lighten initiative

### Speakers

- Mr. Danai Egkamol, Deputy Director General, DEDE
- Mr. Kaveh Zahedi, Regional Director and Representative Asia and the Pacific, UNEP
- Mr. David Boughey, Assistant Manager, Lighting and Equipment Energy Efficiency, Australia Department of Industry and Science
- Mr. Gustau Mañez, UNEP en.lighten initiative

### Key take-away messages

- The UN Secretary General's Sustainable Energy for All initiative mandated UNEP to assist countries in accelerating the transition to advanced lighting, as one of the easiest means to optimize energy consumption and mitigate climate change.
- The ASEAN common market for goods and services to be established in 2015 offers a unique opportunity for member countries to adopt coordinated minimum energy performance standards (MEPS) and MVE schemes for lighting products.
- Compliance of lighting products with quality and performance standards is essential to ensure that countries achieve their energy consumption reduction goals.
- The Australian government has been supporting bi-annual *lites.asia* meetings since 2009 and is providing financial support to the UNEP en.lighten initiative to implement capacity building activities for efficient lighting MVE in Southeast Asia and the Pacific.
- UNEP will support the ASEAN Energy Efficiency & Conservation Sub-Sector Network (EE&C-SSN) should the region decide to prioritize coordinated action efficient lighting.

## Session 1 – Lighting Policy Progress Updates

### Moderator

Ms. Marie Leroy, Consultant, UNEP en.lighten initiative

### Speakers

- Country representatives
- Mr. David Boughey, Australia Department of Industry and Science
- Mr. Tony Bergen, International Commission on Illumination (CIE)
- Mr. Steve Coyne, Consultant, UNEP en.lighten initiative
- Mr. Gustau Mañez, UNEP en.lighten initiative

### Country needs

- MEPS for light emitting diode (LED) lamps.
- Development or strengthening of testing capacities and facilities.
- Technical guidance and best practice on efficient lamp lifetime testing.
- Financial mechanisms and incentives to overcome initial high cost of efficient lighting products.
- Information about most efficient and innovative technologies.
- Gathering accurate market data on ongoing basis.
- Regionally coordinated product information database.

### Key take-away messages

- Participating countries recognize the importance of efficient lighting for energy security and climate change mitigation, but they are at different levels of advancement in terms of policy and activities. Sharing of experience and best practices is therefore necessary.
- Participating delegates are in favour of the development and adoption of harmonized MEPS and MVE schemes across the ASEAN region. They requested UNEP to gather the conclusions and options identified during the workshop and present them to the ASEAN EE&C-SSN and ASEAN Center for Energy (ACE).
- The next meeting of IEC TC34 (the International Electrotechnical Commission technical committee on lamps and related equipment) will be held in Sydney on 25 May – 6 June, 2015. Southeast Asia countries with voting status and active standards development/maintenance are encouraged to send representatives.
- The final version of the CIE International Standard Test Method for LED Lamps, LED luminaires and LED modules will be published in March 2015.

## Session 2 – Best Practices for Enforcing Efficient Lighting Policies

### Moderator

Mr. Steve Coyne, Consultant, UNEP en.lighten initiative

### Speakers

- Mr. Bryan Douglas, Global Lighting Association
- Mr. Kitti Sukutamantunt, Illuminating Engineering Association of Thailand
- Mr. Ardi Moeharyoso, Indonesia Electrical Lighting Industry Association
- Mr. Huw Jones, Senior Enforcement Support Manager, National Measurement Office, UK
- Ms. Nicole Kearney, Senior Associate, CLASP

### Key take-away messages

- Poor quality products and non-compliance with performance standards damage consumers' confidence in efficient lighting products.
- The private sector is in favour of effective and transparent enforcement practices, which ensures a level playing field for all.
- Regional cooperation for MVE, as shown in Europe through the Ecopliant project, allows the potential to identify barriers and overcome them.
- Access to, and sharing of, compliance data is crucial to effective enforcement. Over the next six months, UNEP and CLASP will collaborate with Southeast Asia countries on the development of a prototype of a regional lighting product database.
- The Australian government is willing to share its experience in terms of product registration framework establishment and operating with Southeast Asia and Pacific countries. Modalities of this experience sharing have yet to be determined.

### Session 3 – Financing the Transition to Efficient Lighting

#### Moderator

Mr. Anthony Watanabe, Asia Clean Innovations

#### Speakers

- Ms. Rakshya Thapa, UNDP
- Mr. Rajiv Garg, UNEP
- Mr. Asad Mahmood, ENERCON Pakistan
- Mr. Mek Meksarikul, Kasikorn Bank

#### Key take-away messages

- Financing opportunities for efficient lighting programmes include international finance and national mechanisms, such as national energy efficiency funds, or utility-led energy service company development.
- Private banks can play a leading role in the establishment of energy efficiency financing schemes (cf. example of the energy efficiency fund of the Kasikorn Bank, Thailand).
- The Global Environment Facility (GEF), the Green Climate Fund and the Climate Technology Center and Network all offer technical assistance opportunities for efficient lighting programmes and activities in developing countries.
- UNEP and UNDP, together with the GEF, have developed a “programmatic approach” to project proposal on efficient lighting and appliances. The GEF has agreed in principle on a framework proposal, and each country willing to develop a national project will be able to do so through a simple and fast process. UNEP and UNDP stand ready to assist countries in this effort.

### Session 4 – Update on *lites.asia* Collaborative Activities

#### Speakers

- Mr. Sommai Phon-Amnuaisuk, Project Director, International Institute for Energy Conservation (IIEC)
- Ms. Liu Qian, Supervisor, Global Efficient Lighting Center (GELC)
- Ms. Marie Leroy, Consultant, UNEP en.lighten initiative

#### Key take-away messages

- UNEP has been working with partners including CLASP, IIEC and GELC to implement capacity building activities for efficient lighting activities in Southeast Asia and the Pacific, with the support of the Australian government.
- 100 models of compact fluorescent and light emitting diode (LED) lamps were sampled in late 2015 from six ASEAN markets and are currently being testing in China. Test results will be shared regionally.
- Six lamp testing laboratories located in ASEAN countries are engaged in an inter-laboratory comparison testing activity for LED lamps.
- Upcoming collaborative activities include a laboratory training workshop at GELC in April 2015, webinar broadcasts, publication of technical guides on MVE, and development of a prototype regional product information registry.

## Session 5 – MVE and Compliance Best Practices

### Moderator

Mr. Steve Coyne, Consultant, UNEP en.lighten initiative

### Speakers

- Ms. Nicole Kearney, Senior Associate, CLASP
- Ms. Kritika Rasisuddhi, Electricity Generating Authority of Thailand
- Mr. Pitarn Chaichinda, Illuminating Engineering Association of Thailand
- Mr. Pramoth Unhavaithaya, Thai National Committee on Lighting Standards

### Key take-away messages

- Regional initiatives and knowledge transfer, common MVE guidelines and private sector involvement are key success factors for enforcing efficient lighting standards (as demonstrated by the Asia-Pacific Economic Cooperation (APEC) regional collaboration on compliance efforts).
- EGAT recognizes standardization is critical to ensure lighting products' quality and efficiency.
- Because energy performance standard requirements for lighting products in Thailand are voluntary, there is no legal means to enforce compliance.
- Government bodies can play a major role in improving customer knowledge and awareness by demonstrating the use of energy efficient lighting products.

## Session 5 – Closing Session

### Speakers

- Mr. Mozaharul Alam, Regional Climate Change Coordinator, UNEP
- Mr. David Boughey, Assistant Manager, Lighting and Equipment Energy Efficiency, Australia Department of Industry and Science
- Mr. Gustau Mañez, UNEP en.lighten initiative

### Key take-away messages

- A meeting communiqué was reviewed and endorsed by the meeting participants.
- UNEP will gather the conclusions of the meeting and develop a project concept for the ASEAN harmonization of lighting standards, to be reviewed by the ASEAN EE&C-SSN and Center for Energy.
- It is uncertain whether there will be more *lites.asia* meetings in the future –depending on funding availability-, but Australia is looking to keep the website accessible and updated.

### Next steps

- UNEP to gather conclusions from the meeting, prepare the ASEAN lighting standard harmonization project concept for review by the ASEAN EE&C-SSN and Center for Energy, and secure funding.
- UNEP and partners to deliver remaining outputs of the Southeast Asia MVE project including laboratory training, webinars, technical guidebooks and regional product database prototype.
- The Australia government to explore options to share its experience on its lighting product registration framework with Southeast Asia and Pacific countries.
- Interested countries to nominate representatives for the next IEC TC34 meeting.
- Countries willing to develop and implement efficient lighting programmes and activities to contact UNEP for support on project concept and funding request development.