

Meeting Report and Listing of Actions

Lites.asia - Seventh Workshop

Jakarta: 22-24 April, 2013

Summary of Actions

The seventh *lites.asia* workshop was held in Jakarta between 22-24 April 2013. Summary actions from the meeting are as follows.

Participants are:

Asked to make their national standards committees aware of the impending IEC vote on the Committee Draft of IEC 60969 and likelihood the revised CFL test methodology will be published for adoption early in 2014.

Asked to make their national standards committees aware of the impending IEC vote for a New Work Item to develop a Technical Standard for the Performance of CFLs. For those countries that are P-members of the IEC, encourage national committees to vote on the New Work Item.

Encouraged to share with other national and international stakeholders the listing of all LED standards completed and under development by the IEC to encourage widespread adoption and limit the development of local standards which may conflict and make later harmonisation challenging. The listing is available at www.lites.asia.

Encouraged to inform their national standards committees and other stakeholders of the availability 4E SSL performance specification for non-directional LED lamps, directional LED lamps, LED downlighting fixtures and LED replacements for linear tubes and to encourage comments to be submitted on the Draft Street lighting Performance (refer <http://ssl.iea-4e.org/task-1-quality-assurance/draft-performance-tier-review>).

Encouraged to inform national stakeholders of the availability of “lites.asia Regional LED Tropical Performance Criteria” as they may assist with the development of national standards that are appropriate to regional conditions and harmonise with other standards already in use internationally.

Encouraged to contact the lites.asia operating agent (info@lites.asia) to obtain more information on the lites.asia “cooperative labelling display project” if they are aware of planning or current product labelling compliance surveys.

Encouraged to promote the availability of the regional lighting information in the lites.asia communications library (<http://www.lites.asia/library>). Information available ranges from listings of relevant IEC standards, to images of product packaging, product test reports and training material.

The *lites.asia* Operations will:

Issue a news alert when voting begins on the IEC CDV of IEC 60969 and the New Work Item to develop a Technical Standard for the Performance of CFLs.

Publish the listing of LED standards completed and under preparation by the IEC

Inform members when the draft CIE unified test method for LEDs is published.

*Prepare a summary paper on the current state of standards and labelling development, and the supporting technical capacity within the region, and present at the next *lites.asia* meeting.*

*Include a session addressing street lighting in the next *lites.asia* workshop programme, and include additional presentations/discussion on daylighting at future workshops.*

Meeting Report

The seventh *lites.asia* workshop was held in Jakarta between 22-24 April 2013. The programme was split into two elements:

22-23 April: ***lites.asia* stakeholder forum**

24 April: **Lessons for Indonesian stakeholders from standards and labelling programmes around the region**

The programme and presentations from both elements are available at <http://www.lites.asia/downloads/jakarta-2013>. The workshop was funded by Australian Aid's (AusAID) Fast Start activities through the Department of Climate Change and Energy Efficiency, and supported by the Indonesia Government and Lighting Association.

***lites.asia* Forum**

41 stakeholders from 13 countries were represented at the forum. A number of impressive presentations stimulated robust discussions across a broad range of issues. The major areas covered are summarised below.

1. Recent IEC meeting outcomes

Lites.asia members whom also attended the recent IEC meetings in Milan and Korea provided participants with an update on the some of the discussions and issues arising from the meetings. Of particular interest to the *lites.asia* group were:

- The majority of outstanding issues with the revision to the CFL testing standard (IEC 60969) were resolved including the outstanding issue of definition of lamp lifetime. A revised draft will be considered during the panel meetings in Berlin with a Committee Draft for Vote (CDV) expected soon after. If the vote from national standards bodies is positive, it is likely that the revised CFL test methodology will be published for adoption early in 2014.

Action 1: *Participants to make their national standards committees aware of the impending vote on the Committee Draft of IEC 60969 and likelihood the revised CFL test methodology will be published for adoption early in 2014.*

Action 2: *lites.asia operating agent to issue news alert when voting on the CDV of IEC 60969 begins.*

- As anticipated minimum performance standards for CFLs will not be included in the IEC 60969 testing method. However, following much work by *lites.asia* members and other IEC delegates, including the presentation to the IEC of the *lites.asia* resolution from the Delhi meeting, the IEC meeting in Korea agreed to consider development of a technical standard for performance of CFLs. A new work proposal to formally develop this standard will be issued for voting by IEC P-members in the near future. However, support for the development of the performance standard was not unanimous at the IEC committee and therefore *lites.asia* members are strongly encouraged to request their national committees to positively support the proposal as at least 50% of votes need to

be positive for work to proceed. Further, five P-members must nominate experts to develop the standard or the proposal will fail.

Action 3: *Participants to make their national standards committees aware of the impending vote for a New Work Item to develop a Technical Standard for the Performance of CFLs. For those countries that are P-members of the IEC, encourage national committees to vote on the New Work Item.*

Action 4: *lites.asia operating agent to issue a news alert when voting begins on the New Work Item to develop a Technical Standard for the Performance of CFLs.*

- The development of standards for LEDs is ongoing at the IEC, with a suite of over 60 standards being prepared or complete dealing with the majority of measurements of LED lamps, caps and holders, control gears and luminaires. Details of some of the developments were presented to workshop, but it became clear participants from a number of countries were not aware of all the standards completed or under preparation. Agreement was reached that such a list should be prepared and made available to *lites.asia* member – Mr Roberto Cristobel of the Philippines kindly agreed to prepare this listing.

Action 5: *lites.asia operating agent to publish the listing of LED standards completed and under preparation by the IEC (when prepared by Mr Cristobel).*

Action 6: *Participants are encouraged to share with other national and international stakeholders the listing of all LED standards completed and under development by the IEC to encourage widespread adoption and limit the development of local standards which may conflict and make later harmonisation challenging.*

2. Non-IEC standards, performance specifications and testing developments in LEDs

Three items were covered relating to non-IEC performance specifications and related testing:

- A representative of the Commission Internationale de l'Eclairage (CIE) presented details of their efforts to create a globally unified test method for LED Lamps, luminaires and modules. It is anticipated this standard will be issued in draft form in September 2013.

Action 7: *lites.asia operating agent to inform members when the draft CIE unified test method for LEDs is published.*

- A summary review of the current state of development of LED Standards in Japan, including issues related to LED handling and safety (note this presentation will not be made available beyond participants as a number of items discussed were requested not to be made publically available).
- An update was given on the IEA's 4E Solid State Lighting (SSL) Annex activities. Of primary interest to delegates was:
 - Minimum performance requirements for 4 products have now been issued (non-directional lamps, direction lamps, down-lighting fixtures and replacements for

linear fluorescent tubes), with a draft performance requirement for street lighting expected to be issued shortly.

- Over 50 laboratories have signed up to the inter-laboratory comparison tests (IC2013). Testing is expected to be completed in September of 2013, with combined interim results completed by November. Efforts are being made to ensure participant laboratories that demonstrate appropriate abilities will be recognized by Accreditation Bodies for ISO 17025 SSL testing. More details are available at <http://ssl.iea-4e.org/>.
- Background and recent development in the USA DOE's CALiPER, NGL, and LED Lighting Facts Programs were presented. Details including the results of several thousand tests on LEDs over a number of years and, more recently, LED installations. These show rapidly improving LED performance levels and functionality (eg dimming), but still highlight areas for regulator and consumer caution. More details are available at ww1.eere.energy.gov/buildings/ssl/.

Action 8: *Participants are encouraged to inform their national standards committees and other stakeholders of the availability 4E SSL performance specification for non-directional LED lamps, directional LED lamps, LED downlighting fixtures and LED replacements for linear tubes and to encourage comments to be submitted on the Draft Street lighting Performance (refer <http://ssl.iea-4e.org/task-1-quality-assurance/draft-performance-tier-review>).*

3. Regional Harmonisation of Standards

Two presentations were made on regional harmonisation:

- A representative of BRESL, the UNDP/GEF funded Barrier Removal to the Cost-effective Development and Implementation on Energy Efficiency Standards and Labeling project, gave an update on the recent developments within their project. The goal of BRESL is to “*facilitate cooperation, harmonization and mutual-recognition of Energy Standards and Labels among developing countries in Asia*” and current has Bangladesh, China, India, Pakistan, Thailand and Vietnam as participants. Significant progress has been made in providing technical support for standards development and promoting regional awareness for seven products. However, of particular interest to lites.asia members is the work being done on CFL standards development and harmonisation. The project has already completed a comparative review of the policies, testing capacities and the degree of alignment of national standards to IEC 60969 and the ELI performance standard. Work is now focused on a potential harmonised performance standard for participants.
- The opportunities for regional harmonisation presented by the ASEAN's Harmonized Electrical and Electronic Equipment (EEE) Regulatory Regime, in particular the work being undertaken by their Joint Sectoral Committee on Electrical and Electronic (JSCEEE).

Following the presentations there was extensive discussions on the potential and desire for regional harmonisation and the routes that may lead to this outcome. It was agreed that a summary paper be prepared that examines the current state of standards and labelling development, and the supporting technical capacity, within the region. The outcomes of the summary paper are to be presented at the next *lites.asia* meeting for discussion and decisions on any future action, in particular whether to present a proposal for action to the JSCEEE's management committee meeting in May 2014. (Note the summary paper will also be submitted to the *en.lighten* programme in line with action 14 below).

Action 9: *lites.asia* operating agent to prepare a summary paper on the current state of standards and labelling development, and the supporting technical capacity within the region, and present at the next *lites.asia* meeting.

4. Standards, Labelling and Lighting in Indonesia

Representatives for the Indonesian Ministry of Energy and Mineral Resources, Ministry of Industry and the Association of Luminaires and Electrical Equipments Indonesia (ALIKI) gave an update on the drive to efficient lighting in Indonesia. The presentations were particularly interesting to participants as they investigated the challenges of ensuring quality as well as efficient products are delivered to less well off consumers, and the difficulties in developing indigenous production capacities given the large number of low cost imports, and the high investment costs associated with quality LED production.

5. Update on *lites.asia* collaborative projects (Communications Library, Labelling Display Survey and the Regional LED Tropical Performance Criteria)

The *lites.asia* operating agent was very pleased to report extensive progress on a number of collaborative projects being undertaken with *lites.asia* members:

- The *lites.asia* Regional LED Tropical Performance Criteria has been completed and is available for adoption. Developed by experts in consultation with a large number of *lites.asia* members, the performance criteria provides guidance on appropriate test methodologies and performance levels for LEDs that operate in the region and experience high ambient temperatures, high humidity levels, variable supply voltages and insect ingress. Participants were encouraged to inform national stakeholders of the criteria as they may assist with the development of national standards that are appropriate to regional conditions and harmonise with other standards already in use internationally.

Action 10: *Participants are encouraged to inform national stakeholders of the availability of "lites.asia Regional LED Tropical Performance Criteria" as they may assist with the development of national standards that are appropriate to regional conditions and harmonise with other standards already in use internationally.*

- The *lites.asia* labelling display survey seeks to:
 - Improve current national understanding of levels of labelling compliance

- Measure the improvement in compliance rates through increased market surveillance and communication with suppliers
- Help countries considering the labelling schemes to understand some of the techniques for improving labelling compliance and hence potentially improve the initial scheme design

The project is now underway and any country planning or undertaking a labelling compliance survey is encouraged to contact the *lites.asia* operating agent to obtain more information on the cooperative project and potential join other countries in improving the accurate declaration of product performance to the consumer and national regulators. Countries already participating include Australia, Pakistan and Thailand.

Action 11: *If participants have knowledge of planning or current product labelling compliance surveys, they are encouraged to contact the lites.asia operating agent (info@lites.asia) to obtain more information on the lites.asia “cooperative labelling display project”.*

- The lites.asia Communications Library is now fully functional and is an excellent resource for *lites.asia* members to gain information on regional lighting information ranging from listings of relevant IEC standards, to images of product packaging, product test reports and training material.
- **Action 11:** *Participants are encouraged to promote the availability of the regional lighting information in the lites.asia communications library (<http://www.lites.asia/library>).*

6. Daylighting: An underused resource

Two presentations were given on the opportunities, and problems, associated with daylighting. The first was a general presentation on the concepts of daylighting and the opportunities it presents in terms of reduced energy consumption and improved health and education outcomes. Specific approaches to daylighting design were investigated, as were areas of concern including glare. A number of case studies demonstrated the remarkable results that can be achieved when daylighting is integrated appropriately into design. The second presentation concentrated on the Philippines successes in developing design tools for daylighting systems, and some of the challenges faced when seeking to have daylighting included in national building design requirements.

Discussions on the daylighting issue were extensive and delegates requested additional time is dedicated to the issue at later lites.asia meetings.

Action 12: *lites.asia operating agent to attempt to include additional presentations/discussion on daylighting at future lites.asia workshops.*

7. Updates on National Standards, Labelling and Compliance Activities from Participants

Participants from Pakistan and the People's Democratic Republic of Lao kindly presented updates on the evolving standards, labelling and compliance processes within their countries.

8. UNEP/GEF *en.lighten* programme Global Efficient Lighting Forum

The UNEP/GEF *en.lighten* programme gave details of the Global Efficient Lighting Forum to be held in Beijing 11-12 November, 2013. The forum aims to bring together international stakeholders (producers, regulators, experts, financiers, etc) to form a consensus on the direction for future action on efficient lighting around the world. The *en.lighten* programme is particularly keen to hear the experiences from Asia to date, the current status of standards and policies within the region, and the areas where assistance may be needed in the future. Delegates agreed that the operating agent should prepare a summary paper that examines the current state of standards and labelling development, and the supporting technical capacity, within the region. The outcomes of the summary paper are to be presented at the next *lites.asia* meeting for discussion with a final version to be submitted to the *en.lighten* programme when agreed by members. (Note the summary paper may also be used elsewhere in line with action 8 above). Participants are also encouraged to submit national position papers.

Action 13: *lites.asia* operating agent to prepare a summary paper on the current state of standards and labelling development, and the supporting technical capacity within the region, and present at the next *lites.asia* meeting.

9. Next meeting focus, location and timing

Representatives from the Philippines offered to host the next meeting (pending government approval) with the provisional date sometime in October 2013. In addition to the normal updates on developments within the IEC and ongoing reports on collaborative projects, delegates suggested the next meeting should have a specific section addressing street lighting in the region.

Action 14: *lites.asia* operating agent to confirm the next meeting venue and date (provisional the Philippines in October) and ensure a session addressing street lighting is included in the programme.

10. Sharing Standards and Labelling Experience with Indonesia

On the last day of the event, a special session was held specifically for a wide range of Indonesian lighting stakeholders (manufacturers, suppliers, regulators, testing laboratories, government officials, etc). The objective of the session was to provide these stakeholders with information on the standards and labelling processes that are in place within the region, and in particular the success *and* failures of those programmes from the viewpoint of various stakeholder groups, hence allowing Indonesia to learn from the combined experience of countries from throughout the region. Presentations were made by Australia, the Philippines, Sri Lanka and Thailand.