

Workshop for the Development of LED Lighting Standards and Testing Technology

Objectives

This project is tried to remove the trade barriers for the development of emerging LED lighting devices. The application of LED lighting devices can reduce the energy consumption in the lighting and make a great contribution to the sustainable development of our Earth. This can match the goal set up by the APEC Leader for the energy conservation and carbon deduction.

The **key objectives** of the project are:

- (a) Share the experience in the testing technology for LED lighting modulus and fixture.
- (b) Exchange the experience in the development of standards for LED lighting elements and device.

Background

Currently, the LED lighting standards and testing procedure is quite difference in different countries or regions. This will result the confusion and trade barriers for each APEC Economics. The common platform for the testing procedure and standards can speed up the development of LED lighting devices in this Region. It is expected that this workshop can organize the interesting Economics to develop a common protocol of the testing procedures and standards. The outcomes of this project will benefit the users, manufacturers, traders of the LED lighting devices that are made and sold in the APEC regions. This project will aim to set up the common interesting and platform for the development of LED lighting standards, including the lighting source, modules, fixtures, testing procedureetc. It is also expected to come out a mechanism for initiating different standards of LED lighting products and exchange the experiences about the LED technologies.

Purposes

The idea of this workshop has been discussed with the LED lighting industries in APEC Region in several occasions and got the strong support from industries. In order to remove the trade barriers in this Region or with other regions, the worldwide and acceptable standards are required. Indeed, this workshop is expected to raise great responses and supports from the APEC Economics so that it

can assist the reducing of trade barriers. Additionally, we hope that the widespread of standards can expand the development and application of LED lighting devices. This will help each Economics to achieve the goals of energy saving and environmental protection with less CO2 emission by high-efficiency products in the APEC regions.

Workshop General Information

The intended beneficiaries of the workshop are the users, manufacturers, and traders of LED optical lighting devices in the APEC communities. During this workshop, every party in the APEC Region is welcome to provide their suggestions and opinions to make the workshop more successful and realistic. Upon the project completion, the intended beneficiaries are welcome to use it to evaluate the performances of the LED lighting devices to be used, purchased, and traded for any other regions considered.

Chinese Taipei will seek the support from local LED optical lighting industry and help them to invite the interesting party to joint this workshop. The workshop will be fully funded by Chinese Taipei.

Workshop for the Development of LED Optical Lighting Standards and Testing Technology (Draft Schedule)

First day – Seminar(October 9, 2009)			
Time	Topic	Speaker	
8:30 ~ 9:00	Registration		
9:00 ~ 9:30	Opening Ceremony		
9:30 ~ 10:00	The strategy and status for the development of LED optical lighting industry in Taiwan	From MOEA/BOE (Chinese Taipei)	
10:00 ~ 10:20	Break		
10:20 ~ 11:10	The testing and evaluation technology for the optical performance of LED lighting	Dr. Yuqin Zong NIST(USA)	
11:10 ~ 12:00	The standards development for the LED lighting modules and fixtures	From T-Mark (Japan)	
12:00 ~ 13:00	Lunch Break		
13:00 ~ 13:50	The testing and standards requirement for the application of street lamp	From Zhejiang University (China)	

13:50 ~ 14:10	Break		
14:10 ~ 15:00	The safety requirement for the LED lighting	Dr. N. Narendran Lighting Research Center	
15:00 ~ 15:20	Break		
15:20 ~ 16:10	The testing facilities and capability in Taiwan	From ITRI (Chinese Taipei)	
16:10 ~ 17:00	Discussion		
18:00 ~ 21:00	Welcome Dinner		
Second Day – Panel Discussion(October 10, 2009)			
9:00 ~ 9:30	Citation Speech -- The future of LED optical lighting industry	From TEEMA (Chinese Taipei)	
9:30 ~ 12:00	Discussion	Panel Member: 6 speakers in the first day	
12:00 ~ 13:30	Lunch and Votes for Thanks		