



Tour of the World-China

GLA Board Meeting

2013 Apr.25 Philadelphia

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Contents

- **1.Key new standards that have been developed or under development.**
- **2.Any data about penetration of solid state lighting products in the market.**
- **3.Any new information about incandescent lamp phase-out and other product phase out.**
- **4.New requirement on avoiding Hazardous substances.**
- **5.Governmental programs to stimulate energy efficiency and energy efficient lighting.**



1-1. LED lighting Standards

- Chinese manufactures pay close attention in standardization work. Now several standards about LED lighting products have released.

	Standard No.	Standard Name
1	GB 19651.3-2008	Miscellaneous lamp holders-Part 2-2: Particular requirements-Connectors for LED-modules
2	GB 19510.14-2009	Lamp control gear-Part 2-13:Particular requirements for d.c. or a.c. supplied electronic control gear for LED modules
3	GB 24819-2009	LED modules for general lighting-Safety specifications
4	GB/T 24823-2009	LED modules for general lighting-Performance requirements
5	GB/T 24824-2009	Measurement methods of LED Modules for general lighting
6	GB/T 24825-2009	DC or AC supplied electronic control gear for LED modules-Performance requirements
7	GB/T 24826-2009	Terms and definitions of LEDs and LED modules for general lighting
8	GB 24906-2010	Self-ballasted LED-Lamps for general lighting services>50V safety specifications
9	GB/T 24908-2010	Self-ballasted LED-lamps for general lighting services-Performance requirements
10	GB/T 24907-2010	LED lamps for road lighting Performance specifications
11	GB/T 24909-2010	LED lamps for decorative lighting
12	QB/T 4057-2010	LEDs For General Lighting-Performance Requirements



1-2.New LED lighting standards

Mar. 20, 2013; issued by CSSLA

- **Classification of Non-directional Self-ballasted LED-lamps for general lighting services.**
- **Classification of self-ballasted LED-reflector lamps.**
- **Non-directional Self-ballasted LED-lamps for general lighting services-Performance requirements.**



2-1. Industry Status

- **The SSL sales volume in 2012 has a 30% growth of compared with 2011. The proportion between the export and domestic markets is half and half.**
- **SSL industry in China is characterized by large amount of enterprises, but the scale is relatively small.**



2-1. Industry Status

- **Enterprise engaged in LED lighting products consists of three categories.**
- ✓ **(1) Traditional lighting enterprise convert to produce LED lighting products.**
- ✓ **(2) Enterprises that produce LED extension chip or package, extends to the downstream production of lighting products.**
- ✓ **(3) No previous relationship with the lighting and the LED industries. Those enterprises find the prospects of SSL development, and join the production of LED lighting products.**

- **Now, the main products are replacement products, such as LED bulb, reflector lamps, down lights, tube lights, a small amount of ceiling lamps, panel lights.**



2-2. Domestic Market

- **The domestic market has turned from street lights to LED indoor lighting, Those LED lightings are mainly used in hotels, shopping malls, supermarkets, underground parking spaces, which serves as new projects or lighting renovation project.**
- **In 2012, the China central government carries out a subsidy to LED lighting products for the first time. Through call for bid, it provides subsidies to bid-winning enterprise and product. Subsidized product categories include: reflector lamps, down lights, street lights and tunnel lights.**



2-3. International Market

- **China has become the production base of LED lighting products.**
- ✓ **Most well-known international brands have production in China, such as Philips, OSRAM, GE, etc.**
- ✓ **Japanese brands, such as PANASONIC, TOSHIBA, SHARP, NEC, etc.**
- ✓ **Large supermarket chains in Europe and the United States have OEM production in China, such as IKEA HOMEDEPOT.**



2-3. International Market

- **Main export products are replacement products. There are also some outdoor lighting products, such as street lamps, lawn lamps, Japanese market is Ceiling lamps.**



3. Phase out Inefficient Lighting

- **November 1, 2011, 5 Departments of China have the joint announcement for China Roadmap of Phase-out Incandescent Lamps.**
- **The project are still carrying out , and now in the second stage.**

Stage	Time		Phase-out Incandescent Lamps Plan
	Starting Time	Ending Time	
Stage 1	Nov,1,2011	Sep,30,2012	Transition Period
Stage 2	Oct.1.2012	Sep,30,2014	Banned for Import and Sales of 100W and above
Stage 3	Oct.1.2014	Sep,30,2015	Banned for Import and Sales of 60W and above
Stage 4	Oct.1.2015	Sep,30,2016	Mid-term Evaluating Period Policy Adjustment
Stage 5	Oct.1.2016		Banned for Import and Sales of 15W and above Or Policy Adjustment according to Mid-term Evaluating



3. Phase out Inefficient Lighting

- **Incandescent lamps manufactures are transforming to produce fluorescent lamps or LED lamps.**
- **The market demand for incandescent lamps has no obvious decline until now.**
- **It is estimated that this demand will gradually reduce in the future.**



4. Avoiding Hazardous Substances

- **China association of lighting industry advocates using solid mercury to replace liquid mercury and it has a remarkable effect.**
- **For example, this method greatly reduces the amount of mercury content in lamp tube. Thus reduces the mercury pollution during production.**



4. Avoiding Hazardous Substances

- **China is now carrying out the standards revising project about the requirement of mercury content in fluorescent lamps.**
- **For example, in new revised CFL standards, the requirement about the amount of mercury content is under 2.5 mg.**
- **At present, the majority of Chinese CFL products could meet the standards.**
- **The ratio of straight tube fluorescent lamp using solid mercury has greatly improved.**



5. Governmental Programs

- **In 2012, the subsidies for high efficiency fluorescent lamps are still carried out by Chinese government.**
- **Meanwhile, in order to promote the application for high efficient lighting, subsidies are also initiated for LED Lighting Products.**



5. Governmental Programs

- **NDRC and MOF are initiating LED lighting subsidies project. This will promote the LED lighting application in domestic market.**
- **The project includes outdoor and indoor light.**



Thank You!