



UNEP/*lites.asia*

11th Regional Meeting on Lighting Policies

China Quality Certification Centre(CQC)

Lighting Electrical Appliances Department

Zheng Xuesheng



RoHS



1 About CQC

- the **largest** third-party professional **certification body** in China
- for lighting products certification
 - got more than **3,000** customs
 - issued more than **20,000** certificates

2 Work on lighting

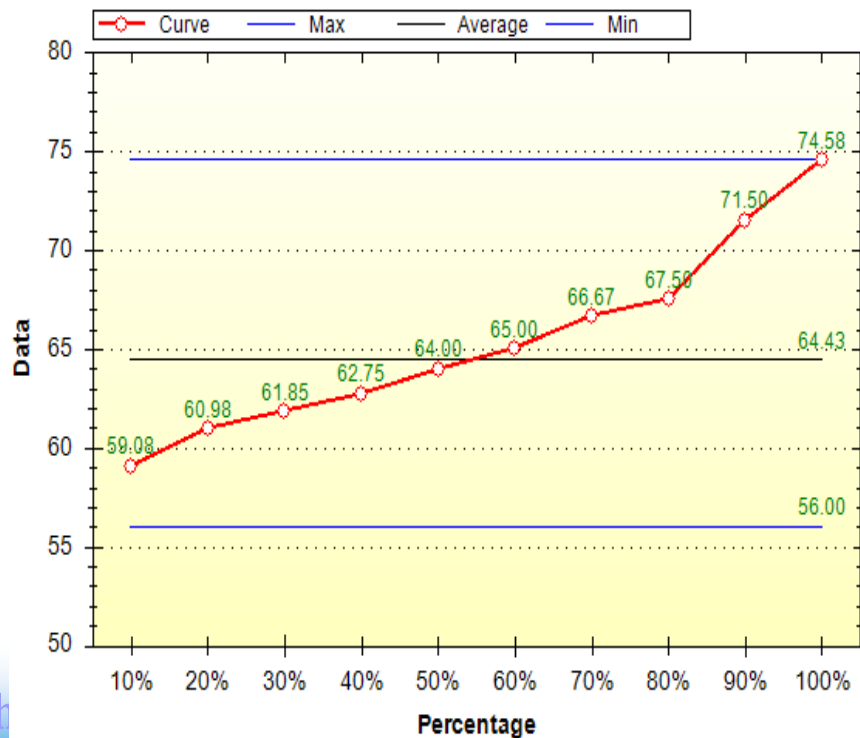
- research and establish lighting product standards
 - in order to guide the healthy development of lighting product industry in china, we track the development of technology of lighting product closely, and have established more than 10 criteria since 2010
 - ❖ performance and energy saving criteria



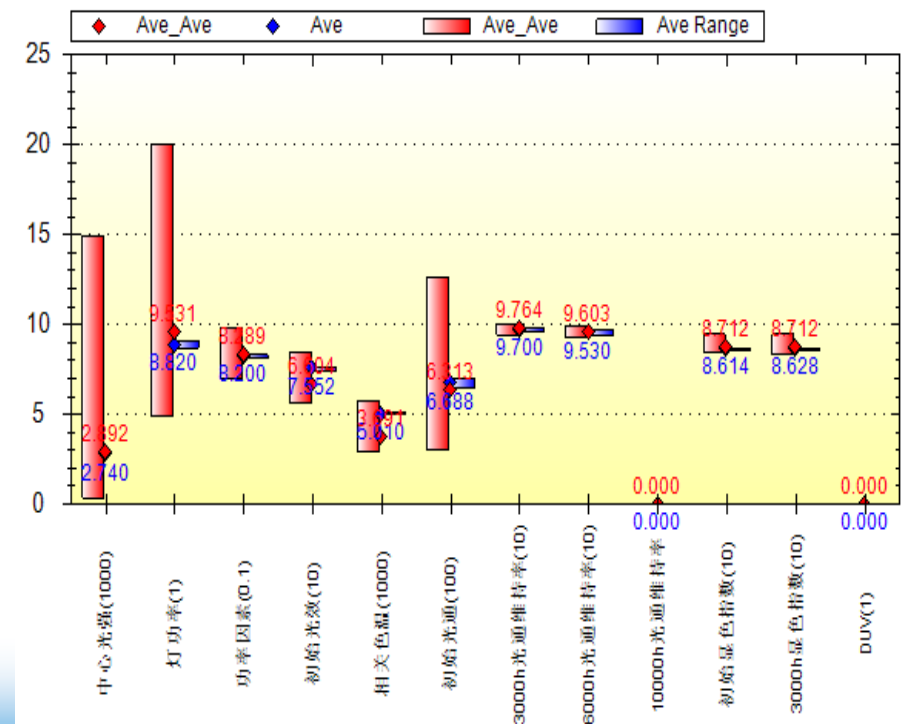
2 Work on lighting

- established a certified lighting product database
 - have collected 100, 000 pieces of data from 260 manufactures
 - comprehensively analyze the products' performance, learn about the current technical development situation of lighting products

初始光效均值分布统计



样品BPZ220/9 (FLP30-A9) E27.RZ分布统计



2 Work on lighting

- provide technical support to government for formulating and implementing the industry policies
 - have good cooperation with several government institutes
 - ❖ ministry of finance
 - ❖ the national development and reform commission
 - ❖ the ministry of commerce
 - ❖ the ministry of industry etc.,
 - our certification results are regarded as the technical threshold for government to support the enterprises' development.

2 Work on lighting

- provide technical consulting services to enterprises for helping them to improve their quality management ability
 - our client
 - ❖ Philips, Osram, Opple, etc.,
 - service
 - ❖ policy
 - ❖ standards
 - ❖ testing technology
 - ❖ lab construction

3 Our View

■ Case 1

- the situation in the early development of the LED lighting industry in China
 - ❖ From 2009 LED began to be applied widely in general lighting field
 - ❖ the products hadn't achieved a good performance
 - ❖ the manufactures claimed that their LED lighting products had a long service life of more than 50,000 hours and high efficacy of more than 100 lumens per watt.
 - ❖ the national standards for LED lighting had not been established
 - ❖ China had no technical criteria to verify the LED lighting products
 - ❖ China could not supervise the market at that time

3 Our View

■ Case 1

- CQC formulated the unified evaluation criteria for manufactures and the products in China in 2010
 - ❖ established the performance and energy conservation criteria
 - the nominal life service should be longer than 30,000 hours
 - the efficacy should be more than 85 lumens per watt for LED road luminaire
 - set up unified evaluation methods for all the technical parameters
 - the life testing time should be 10,000 hours, and the corresponding luminous flux maintenance factor should be higher than 86%

3 Our View

■ Case 1

- CQC formulated the unified evaluation criteria for manufactures and the products in China in 2010
 - ❖ carried out the energy conservation certification, which was composed of three processes
 - **type testing**, to verify that the technical parameters can meet the standards
 - **initial factory inspection**, to verify the products produced by the factory are the same as the sample and the factory has ability of controlling the products' quality
 - **the follow-up inspection**, the manufactures should accept CQC's annual inspection to maintain the validity of the certificate

3 Our View

■ Case 1

➤ Result

- ❖ CQC provided an evidence of what was good products
- ❖ CQC's certification results were widely recognized by the government, customs and manufactures
- ❖ the market order was maintained and the industry developed in the right direction

3 Our View

■ Case 1

➤ Current situation

- ❖ the efficient lighting technology is developing rapidly, the products are updated quickly
- ❖ cross-border products are emerging, such as smart lighting, intelligent lighting
- ❖ the market demands more urgently to build up standards and criteria to standardize market

3 Our View

■ Case 2

- E-commerce is becoming a main channel of selling in China
 - ❖ in 2014 the total deal was 2 trillion dollars
 - ❖ on 11th Nov one local lighting manufacture sold 15 million dollars.
 - ❖ some new issues are rising up with the development of e-commerce

3 Our View

■ Case 2

- China has no official supervision methods on the products sold online
 - ❖ the selling information of LED bulb lamps on the most popular shopping website

3 Our View

■ Case 2

- China has no official supervision methods on the products sold online



灿美家
CAN MEI JIA

淘宝神话
月销20万个

3W=2.5元
5W=5.9元
7W=7.9元
9W=9.9元
12W=12.9元
15W=15.9元

双12特价
2.5

全网销量第一品牌

¥ 2.50 包邮 20935人收货

灿美家 LED灯泡 E27螺口3W白光5W室内节能灯E14超亮B22卡口球泡灯

灿美家居专营店 广东 广州



华强
HUAQIANG

360°发光 一只包邮

¥ 3.9

100%质量保证
两年质保

¥ 3.90 包邮 20353人收货

华强 LED灯泡螺口超亮节能灯LED Lamp E27球泡3W琉璃泡光源单灯泡

广州放心网家居专营店 广东 佛山



鹏远光电
PENG YUAN GUANG DIAN

RMB
2.79

超耐久

一个包邮 三年质保

爆款

¥ 1.39 包邮 16419人收货

鹏远LED灯泡 e27螺口3w超亮5W照明 LED大功率9w球泡节能灯Lamp包邮

鹏远家居专营店 广东 东莞



内弗特

5W=5.5
7W=7.5
9W=9.5
12W=13.5

超亮省电
3W **1.8** RMB

¥ 1.80 包邮 15726人收货

内弗特LED灯泡 特惠节能单灯 e27螺口 E14超亮大功率 3W5WB22卡口

内弗特巴博特专卖店 广东 佛山

3 Our View

■ Case 2

- China has no official supervision methods on the products sold online
 - ❖ the selling information of the most popular LED bulb lamps on the shopping website
 - prices are between 20 cents and 70 cents!
 - sellmen claim the products have good quality, enegy saving and a long service life

LED bulb lamp with high quality and long service life can't come down such a low price

3 Our View

■ Case 2

- China has no official supervision methods on the products sold online

❖ result

- customers cannot judge the quality of product until they use them, their benefit will be influenced
- the development of excellent manufactures producing good quality products will be obstructed
- the lack of regulation will cause the market in disorder

3 Our View

■ Case 2

- China has no official supervision methods on the products sold online
 - ❖ why does it happen in LED lighting era?
 - LED lighting technology is different from traditional ones
 - traditional lighting technologies are mature during these years, quality of traditional lighting products are almost at the same level among different manufacturers
 - LED lighting technology is still not mature, the quality of LED lighting products produced by manufactures are really different.

3 Our View

■ Conclusion

- In China currently the efficient lighting technology develops rapidly, and e-commerce sale model develops rapidly too, all these new issues demand to build up new and suitable mechanisms to supervise the correct development of lighting industry.



Thank You!

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1 About CQC

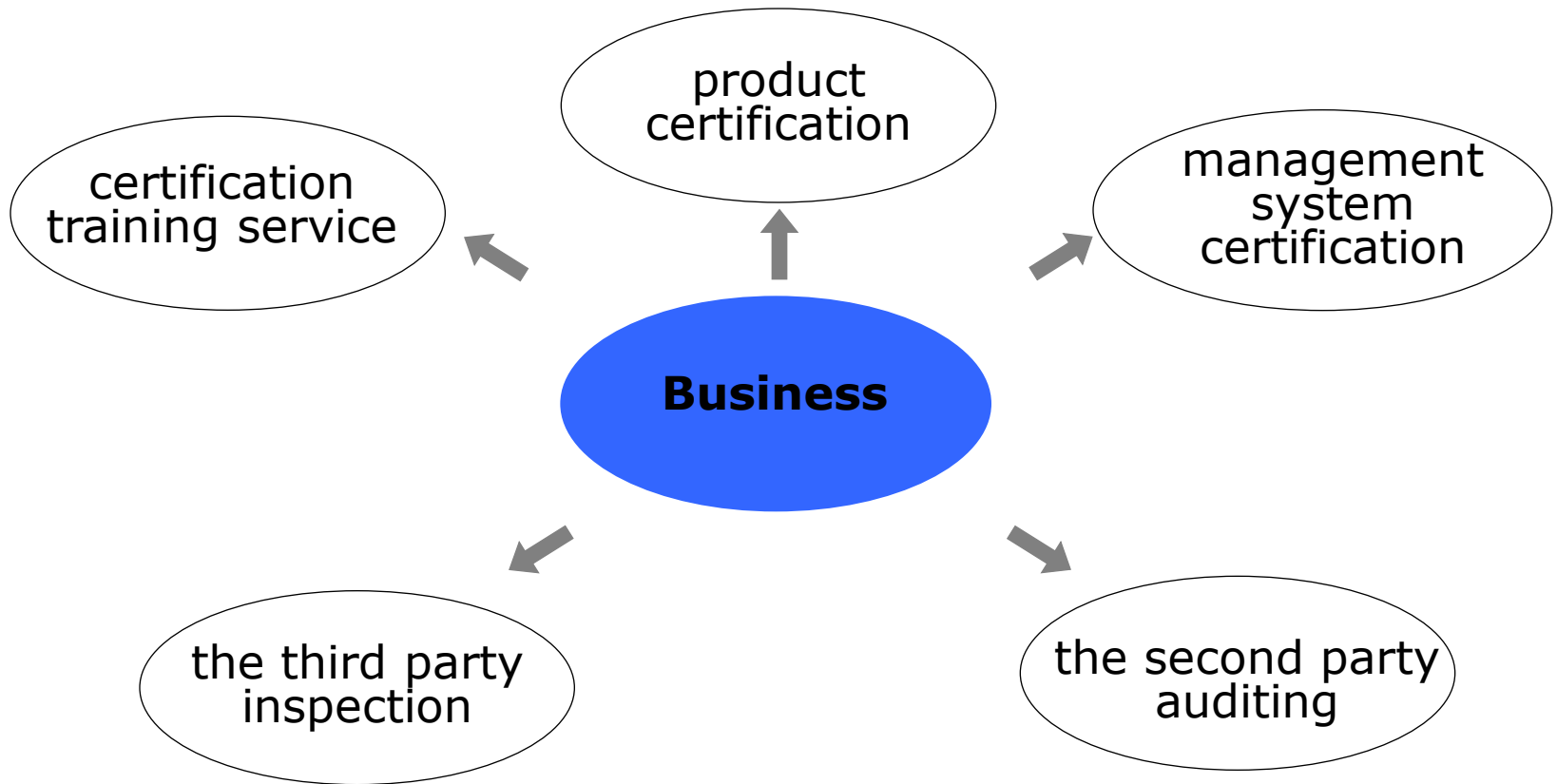
- the **largest** third-party professional **certification body** in China
- more than **1000** full-time employees
- established more than **30** branches at home and abroad
- more than **300** test laboratories

1 About CQC

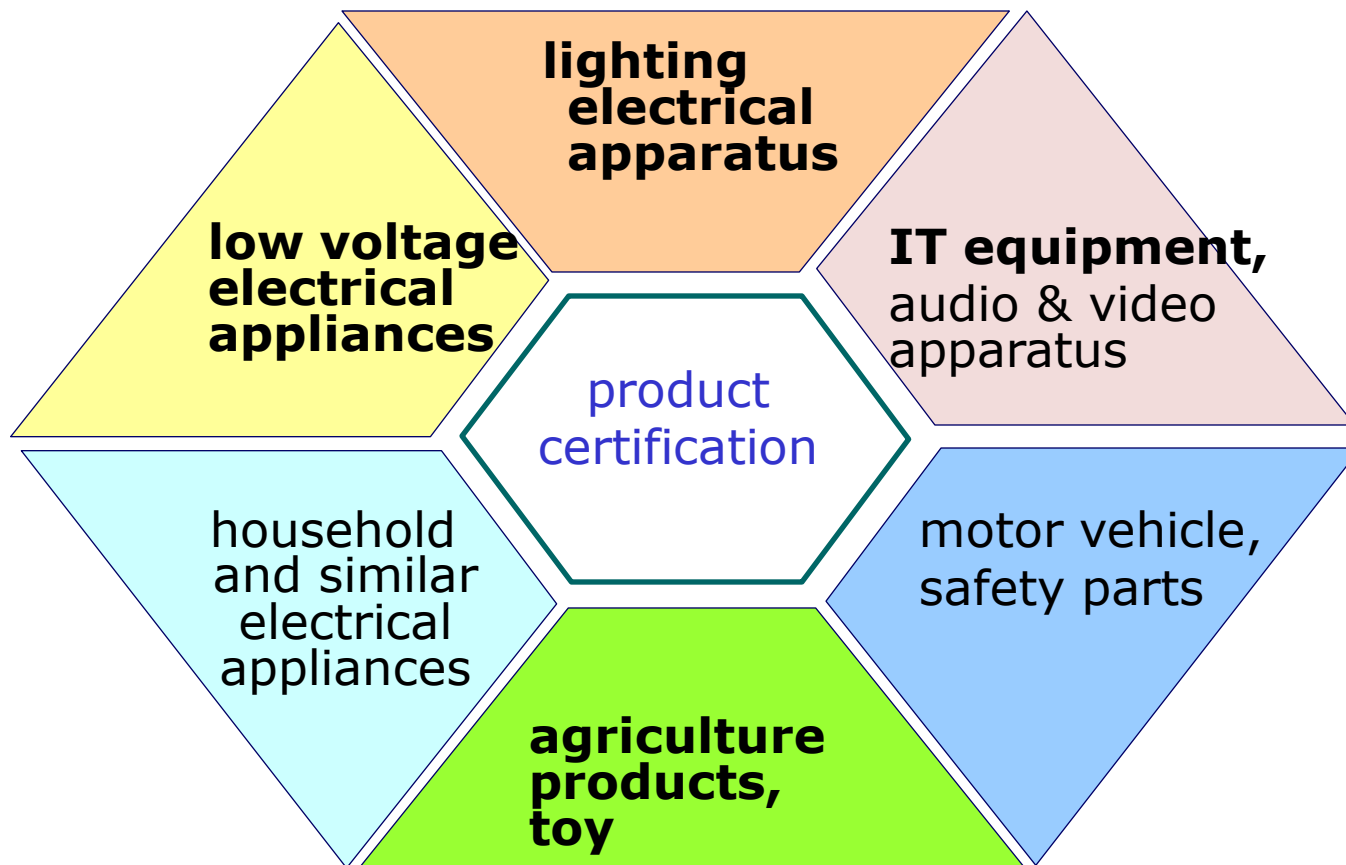
- established partnership with 27 certification bodies from 22 countries and regions



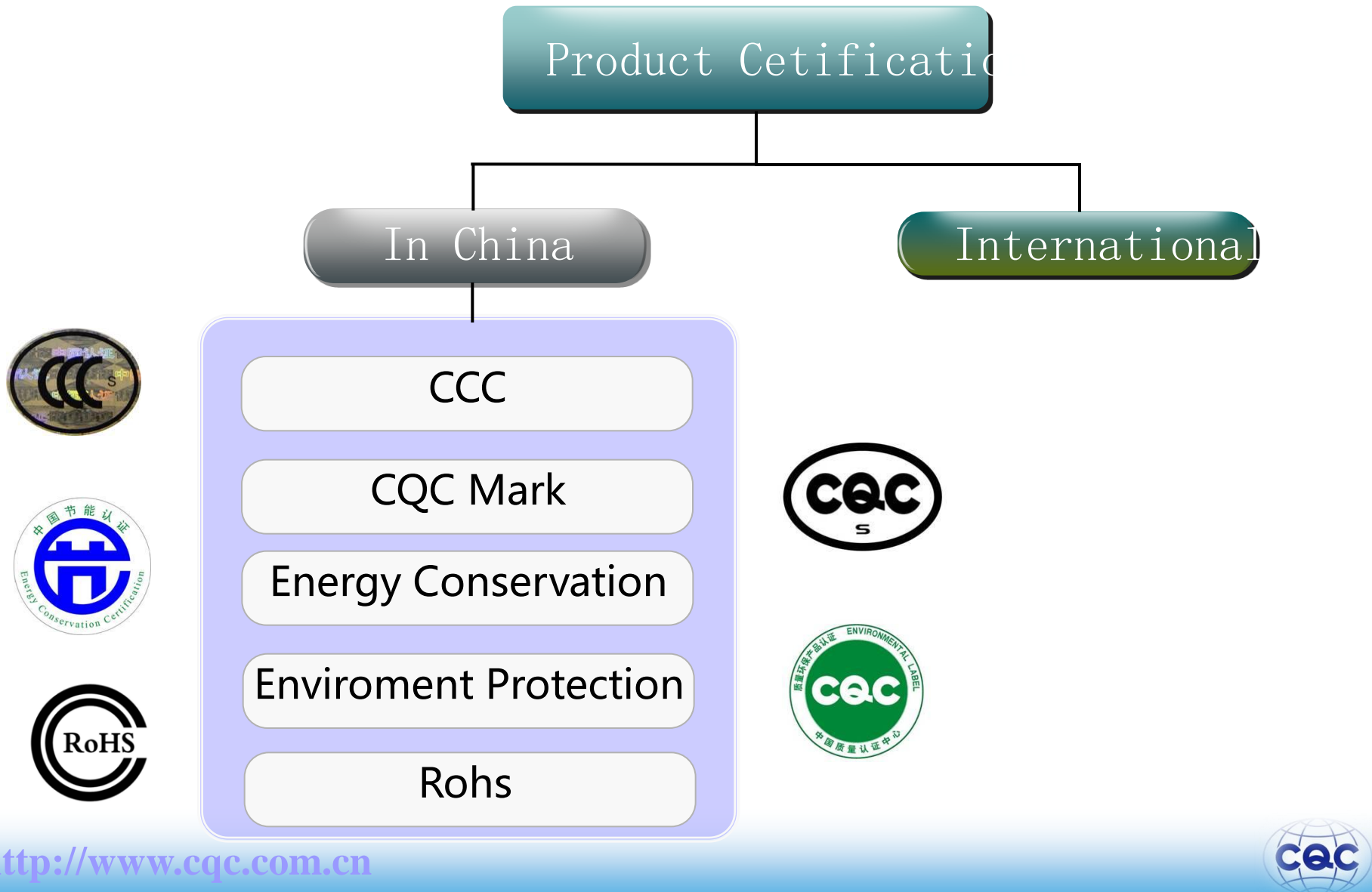
1 About CQC



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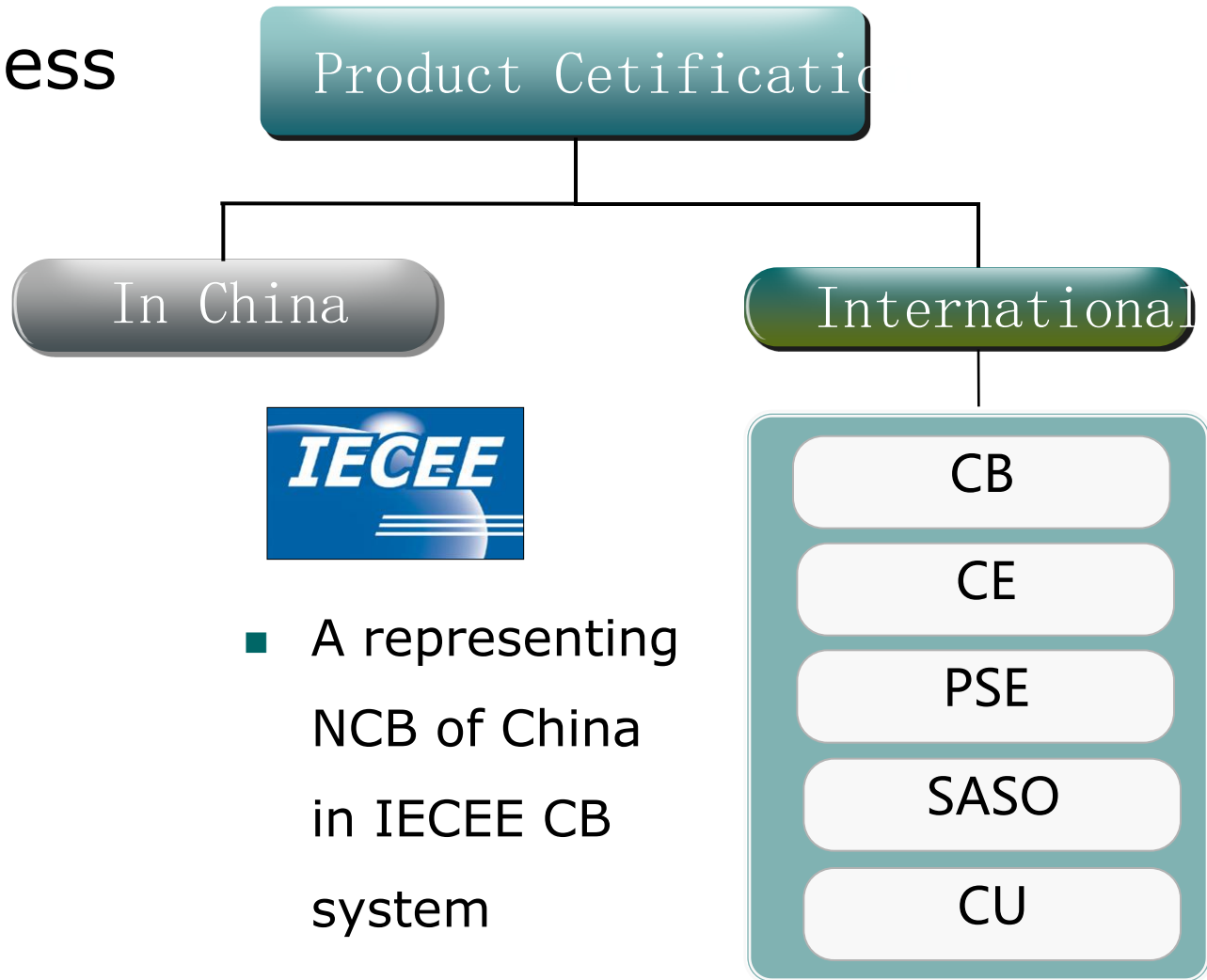


1 About CQC



1 About CQC

- business



2 Work on lighting

- research and establish lighting product standards
 - established more than 10 criteria since 2010
 - ❖ performance criteria



table lamp for visual task



photovoltaic supplied LED road and street lighting system

2 Work on lighting

- research and establish lighting product standards
 - established more than 10 criteria since 2010
 - ❖ mercury content certification specifications



compact fluorescent lamp



double-capped fluorescent
lamp

2 Work on lighting

- established an certified lighting product database
 - collected 100, 000 pieces of data from more than 260 manufactures

Based on the collected data, we promote establishment of national standards.