



Introduction of GELC

Xiaoxiao LI

Global Efficient Lighting Centre



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GELC

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About GELC

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Global Efficient Lighting Centre

UNEP Collaborating Centre for Energy Efficient Lighting

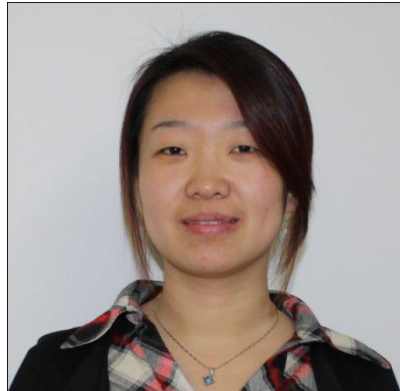


Nairobi, Sep.2011

Global Efficient lighting Centre (GELC) is a **non-profit organization cooperated with United Nations Environment Program (UNEP).**

About GELC

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Sixth lites.asia workshop – Delhi, India, 2-3 October 2012

NLTC and UNEP

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NLTC

Aptitude

- ◆ AQSIQ
- ◆ CCC and CQC certification
- ◆ NDRC
- ◆

Projects

- ◆ 863 projects
- ◆ 125 supporting projects
- ◆ PILES-LAM
- ◆

International Co-operation

- ◆ USA
- ◆ Japan
- ◆



NLTC and UNEP

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UNEP

*Leading department and authority
within the United Nations responsible
for Global Environmental Affairs*

- Promote international cooperation
- Make policy recommendations
- Review the world environmental situation, and consider of emerging international environmental issues
- Promote the acquisition of knowledge of the environment and the exchange of intelligence agencies



Mission & Vision

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Developing Countries &
Emerging Countries

Mission

- Promoting application of efficient lighting technology
- Providing guidance to user for better products
- Providing assistance to different countries to improve the quality of lighting products and lighting industry.

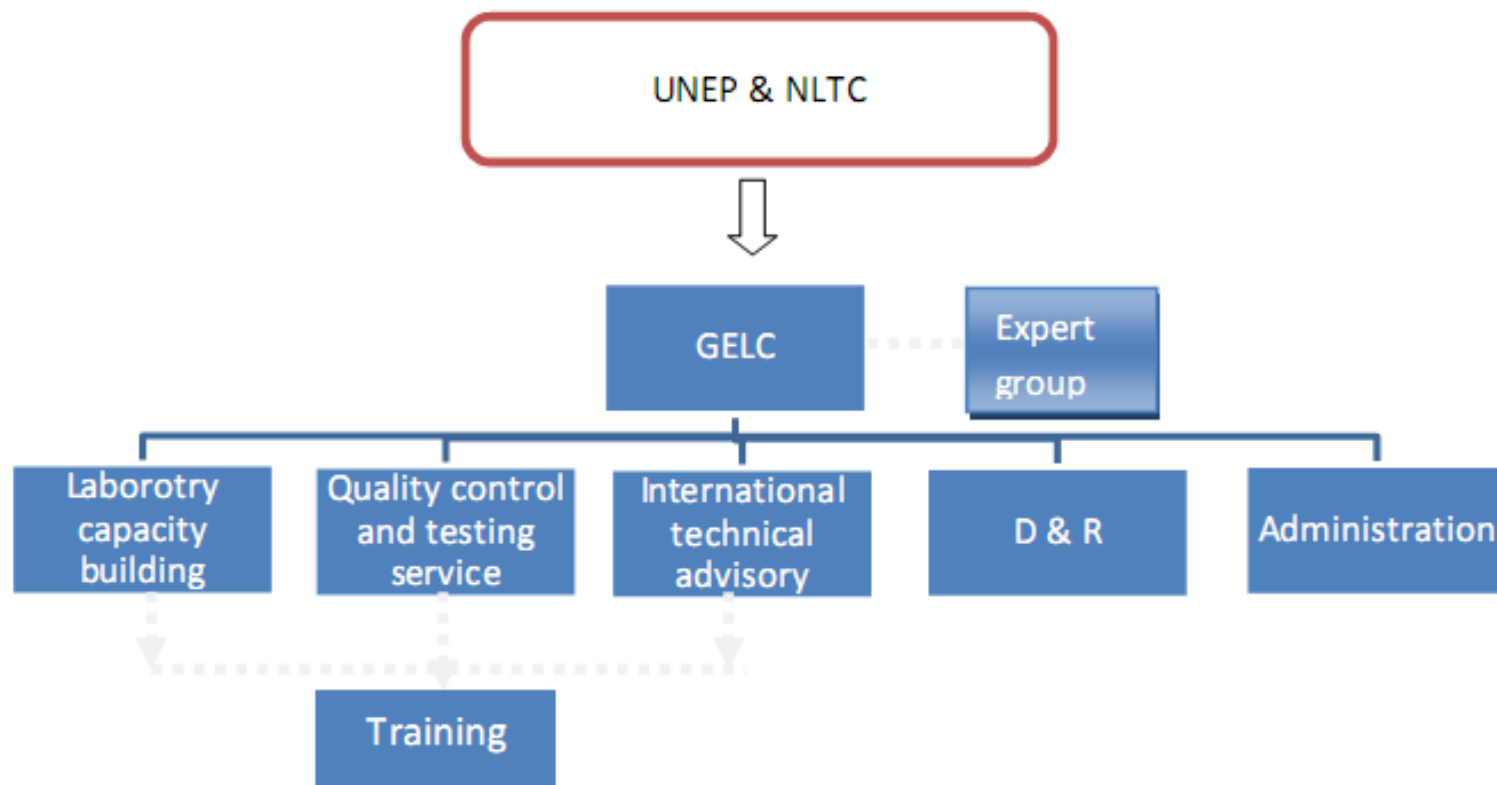
Vision

- Promote the efficient, environmental friendly and qualified lighting technologies in the world
- Energy saving &Environment protection



The structure of GELC

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Staff & Expert Group

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Staff

17 employees

- ◆ Bachelor degree or above_100%
- ◆ Master degree or above_88.2%
- ◆ Doctoral degree or above_17.6%.

Expert Group

Long-term experts:

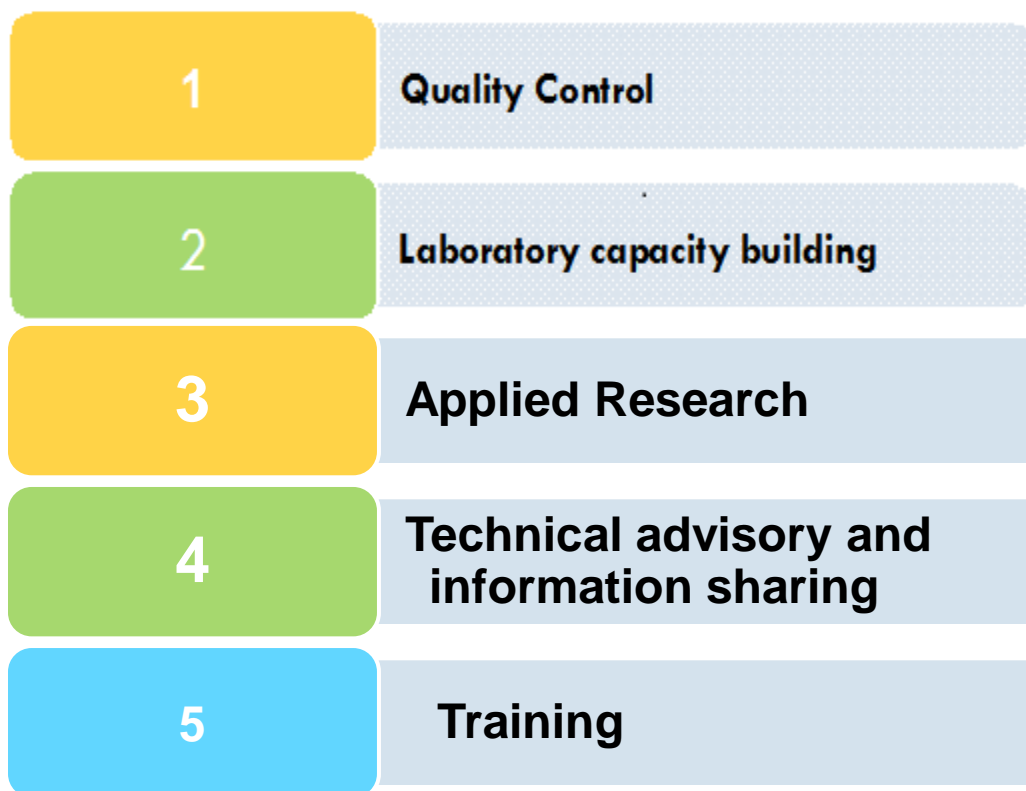
- ◆ Chinese lighting experts
- ◆ International lighting experts
- ◆ Professor from university/research institution/other international cooperation partners

Short-term experts:

- ◆ Depend on the special requests

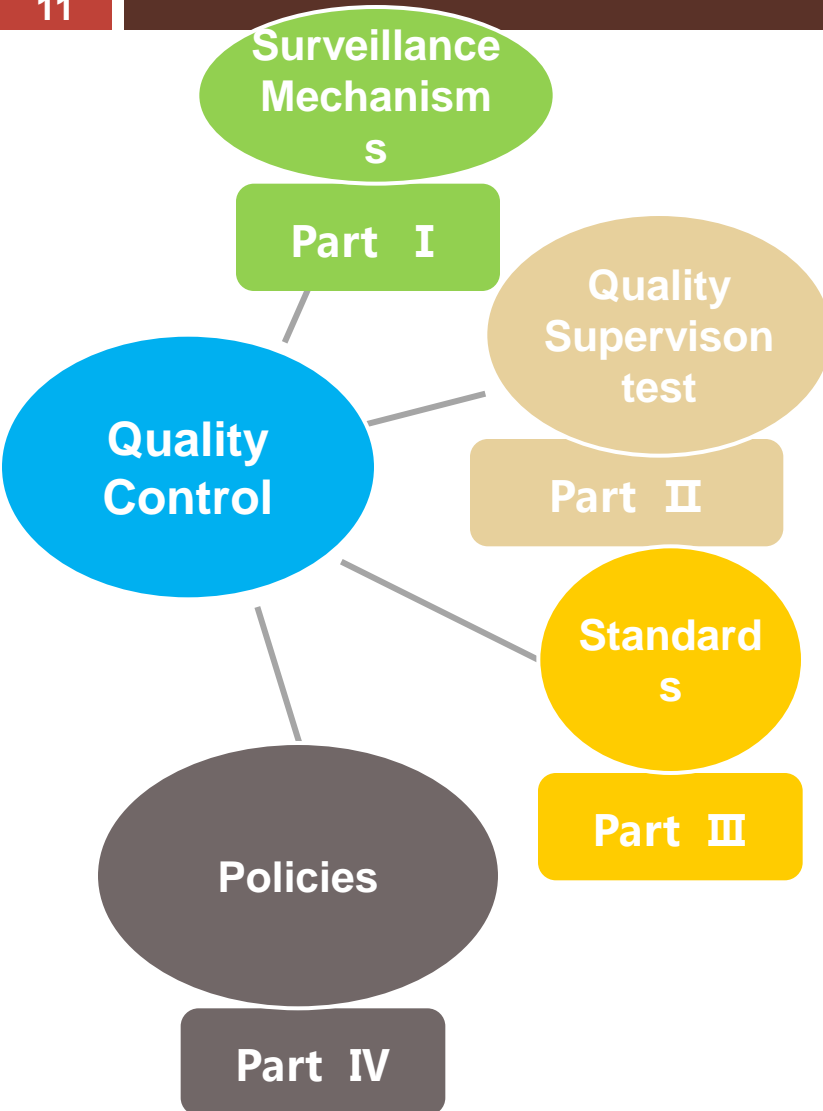
Services

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Quality Control

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- Provide technical advice for the development and implementation of effective product quality surveillance mechanisms
- Develop quality supervision test
- Assist to establish standards
- Assist to make policy

Customer:
**Country governments &
national institutions**

Laboratory Capacity Building

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1

Provide professional and technical advice to the countries to establish national, regional or private lighting laboratories and quality management systems

2

Provide professional and technical advice to the countries to enhance their national , regional or private lighting laboratories and quality management systems

3

Support the development of round robin test for lighting products

Applied Research

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- 
- **Lighting standards and test methods**
 - **Advanced, common and bottleneck lighting technologies**
 - **Accelerating deployment of efficient lighting technologies in developing and emerging countries**

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Technical advisory and information sharing :

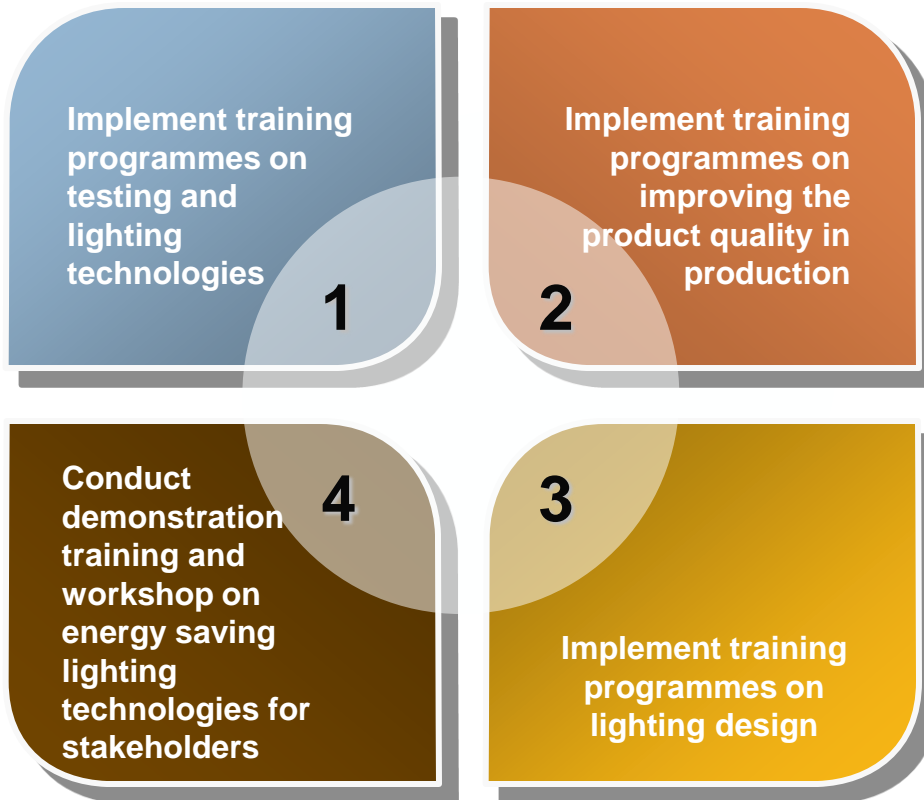
Lighting quality

Technology, policy and regulatory development on efficient lighting

Sixth lites.asia workshop – Delhi, India, 2-3 October 2012

Training

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"We focus on training industry"

Ongoing Work

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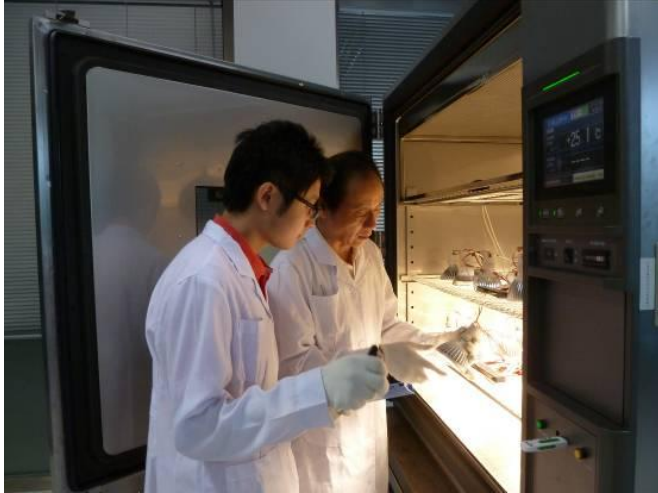


1. Research on LED test method
2. Efficient lighting product quality information platform
3. Establish lighting laboratory for enterprise and country government
4. Global lamp quality check
5. Round robin test



Ongoing Work

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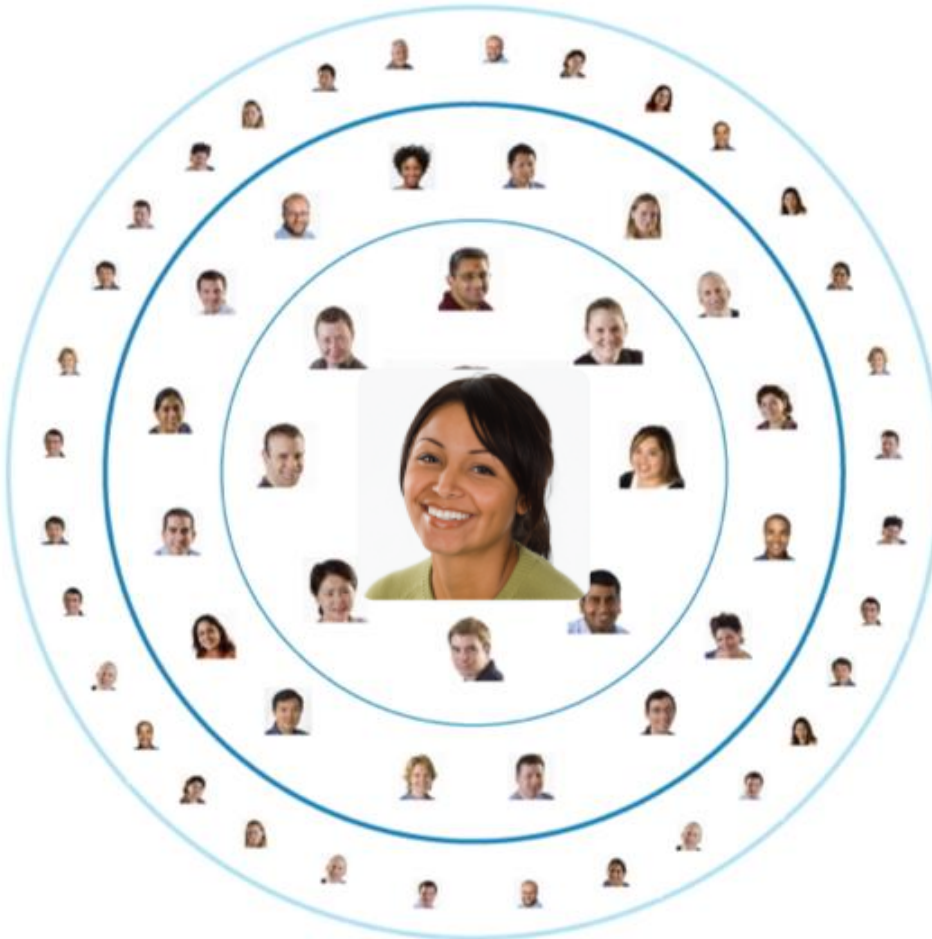
Research on the accelerated life test method for LED lighting products

Research on the Photometric, colorimetric test and evaluation method of LED lighting products

Research on OLED lighting technology

Ongoing Work

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**Efficient lighting
product quality
information
platform**

Raw material information

Equipment purchase information

Demands for lighting products

Information of lighting products both
domestic and abroad

Ongoing Work

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**Help Swedish government
and Chinese enterprise
establish lighting laboratory**

- Equipment purchase
- Technical training_with
senior lighting experts

Management system, personnel,
environment, equipment operating
training to be followed.....

Ongoing Work

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Global lamp quality check

Latin America
Middle East
North Africa and
Southeast Asia

- Help decision-makers in developing countries recognize the importance of quality lighting,
- Demonstrate the value of strengthening national quality control and testing systems.
- Increase awareness of quality issues in lighting and encourage countries to develop measurement, verification and enforcement schemes.



Ongoing Work

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Round robin test

- ◆ Have identified the mode of samples
- ◆ Preparing for the samples



Future Prospect

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We are looking for:

Cooperation with Asia countries

Working on laboratory capacity building

Working on regional standards

Working on LED round robin test

Thank you!

- Xiaoxiao LI
- Global Efficient Lighting Centre
- No. A3, Changpocun, Dabeyiao, Chaoyang District, Beijing, 100022, China
- Ph: +86-10-67708989 Ext. 4106
- Fax: +86-10-67761445
- lixiaoxiao@gelc.com