

Phasing-out of Incandescent Lamps and Energy Saving Lamps Promotion in China (PILESLAMP)

 联合国开发计划署
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The Challenge

Having been in the heated debate across borders, energy saving, especially the energy efficient (EE) lighting is the centre of focus for environmental sustainability initiatives owing to lighting's consumption of 19% and 12% of the gross global and Chinese national electricity production respectively.

Incandescent lamps (ILs) typically consume 4 times more energy to provide the same lighting service as the energy saving lamps (ESLs) such as compact fluorescent lamps (CFLs) while the latter can last up 10 times longer. Nowadays, in terms of the global manner, there is more than 70% of IL sale in contrast to the 6% of CFL sale as an EE lighting alternative. China has an important role in this context not only for being the third largest economy of the world, but also because of her decisive position as the leading manufacturing country of lighting products, e.g. her CFLs' production increased 30-fold from 1996 to 2007. Despite the growth, there is a considerable imbalance with 2/3 CFLs for export rather than for domestic consumption and China is still making up 1/3 of the world's ILs' production. So, it has been long the ongoing efforts of the Chinese government to promote ESLs and work towards the fading-out of ILs despite the obstacles arisen:

- Policy and regulatory
- Institutional
- Technical
- Financial
- Information and awareness
- Market

The Response

This project aims at achieving enhanced promotion and higher utilization of ESLs in China through the transformation of the local lighting products' market and phasing out of IL production and sale by focusing on 3 components to tackle the above mentioned obstacles:

1. lighting industry capacity enhancement to achieve conversion of IL manufacturing to ESL production; improvement of the quality of ESLs; and reduction of the waste and disposal from ESL production
2. ESL market development and product promotion to achieve strengthened promotion networks and marketing channels for ESLs in cities and rural

areas; to launch awareness campaigns to raise the demand for ESLs; and to bring about more affordable and accessible financing options for ESL applications

3. ESL policy and institutional support to establish investigation and analysis of China's ESL market improvement initiatives; and to give encouragement to IL manufacturers' conversion to ESLs

Achievements

Several global and national benefits could be achieved with the current project:

Globally, there will be improved quality and quantity of CFLs to meet the peak demand triggered from the current global phase-out movement, and eventually reducing CFL prices. If all ILs worldwide are to be replaced by EE CFLs, developing countries alone will be expected to cut the lighting electricity demand by 18%, contributing to the reduction of GHG emission.

Nationally, the quality and efficiency standard of lighting products will be enhanced together with the improvement of trial projects on collection and recycling of CFLs. China's rural areas where ILs or inefficient lighting are dominant, will also achieve improvement. With strengthened marketing channels, the private sector will be engaged with more active participation in developing ESLs in both cities and the countryside.

At A Glance

Project Start Time: 2008
Project End Time: 2012
Implementing Partner: National Development and Reform Commission (NDRC), China
Project ID: 00062179

UNDAF Goal: Outcome 3 – More efficient management of natural resources and development of environmentally-friendly behaviour to ensure environmental sustainability

CPAP: Outcome 6 –End-use energy efficiency and application of new and renewable energy technologies improved

Total Budget:	US\$ 84,000,000
GEF Fund:	US\$ 14,000,000
Government:	US\$ 18,900,000
Private Sector	US\$ 32,000,000
Other:	US\$ 600,000
In Kind Contributions:	US\$ 18,500,000

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