



United Nations Environment Programme en.lighten initiative

Objectives, Approach and Main Achievements

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National Lighting Test Centre
China



Efficient Lighting in Response to Global Energy Challenges

- Lighting ≈ **15% of global electricity consumption**
6% of greenhouse gas emissions (GHG) emissions
- Electricity generated from fossil fuels leads to GHGs
- Electrical supply in many countries cannot reliably meet demand

Efficient lighting allows for:

- ✓ Improved grid stability and electrification capacity
- ✓ Improved lighting service at lower cost for end-users
- ✓ Avoided investment in power generation
- ✓ Released funds for investment in other priorities: infrastructure, health, education



The UNEP en.lighten initiative

Public-Private Partnership helping address the climate and energy challenges in developing and emerging economies



Australian Government
AusAID



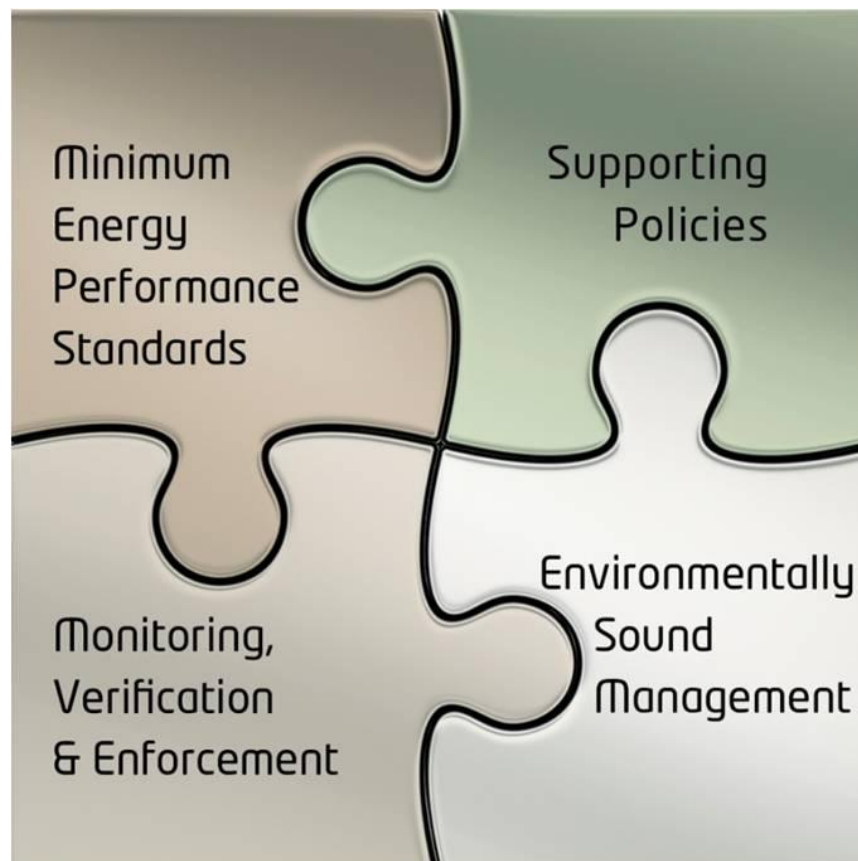
National Lighting Test Centre
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- **OBJECTIVE:** accelerate the global market transformation to energy efficient and environmentally sustainable lighting in the residential sector
- **TARGET:** phasing-out of inefficient incandescent lamps and replacement with high efficiency alternative technologies
- **APPROACH:** expert guidance, technical and policy support, and pragmatic tools to assist countries in their transition to efficient lighting



The Integrated Policy Approach

A Technical Consensus



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Global Efficient Lighting Partnership Programme

- Voluntary initiative open to all developing countries worldwide
- 67 Country Partners to date

Expected outcomes:

- Phase-out inefficient incandescent lamps and penetration of high efficiency lighting technologies through policy change
- Implementation of monitoring, verification and enforcement (MVE) and support activities



The Global Partnership Programme



Pilot Projects

National/Regional Efficient Lighting Strategies

- ✓ Stakeholder-driven approach to the market to the transition to energy efficient lighting
- ✓ Ensures a smooth and long term transition
- ✓ Engages high level policy makers
- ✓ Secures international recognition for energy efficiency efforts and helps accessing international funding



National and Regional Efficient Lighting Strategies



Main achievements

- **2 Regional Efficient Lighting Strategies:** Central American Region and the West Africa Region
- **4 National Efficient Lighting Strategies:** Chile, Uruguay, Tunisia, Jordan
- **Technical support** provided to ongoing lighting projects, in Cote d'Ivoire, Vietnam, Egypt, Russia, and others
- Ongoing Southeast Asia **monitoring, verification and enforcement project**



A world map with several regions highlighted in green: North America, South America, Europe, Africa, Asia, and Australia. A lightbulb icon is crossed out by a red circle, indicating a negative or rejected idea.



Inefficient Incandescent Lamp Phase Out (2014)



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Southeast Asia Efficient Lighting MVE projects

Objective

Build capacity to strengthen efficient lighting Monitoring, verification and enforcement (MVE) in Southeast Asia countries

- Funded by the Australian government
- Implemented by UNEP en.lighten
- Myanmar is a partner country (together with Cambodia, Indonesia, Philippines, Thailand, Vietnam)



MVE Project Activities

- Regional lites.asia workshops – last one in Bangkok in Feb 2015
- Regional lamp sampling and testing activity
- Interlaboratory comparison testing
- Development and publication of regional reports
- Publication of technical guidebooks
- Broadcasting and recording of technical webinars



Tools and Resources

Tools

- Global Efficient Lighting Policy Map
- Country Lighting Assessments
- Forecast modelling tool

Guidebooks

- Accelerating the Transition to Efficient Lighting Toolkit
- National/Regional Efficient Lighting Strategy Guide
- Nationally Appropriate Mitigation Action (NAMA) Guide

Collaborating Centres

- Global Efficient Lighting Centre
- Ambilamp Academy



UNEP Efficient Appliances and Equipment Programme



- A new project, founded in 2014
- Builds upon the success and lessons learnt of en.lighten
- Expands the Integrated Policy Approach from lighting to the next high-impact opportunities in energy efficiency improvement





Thank You



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