

United Nations Environment Programme en.lighten initiative

How the integrated policy approach has been implemented? (Part I)

4 June February 2015, Bonn Harry Verhaar Head of Global Public & Government Affairs Philips Lighting

OSRAM

OSRAM



PHILIPS



National Lighting Test Centre China

en.lighten initiative

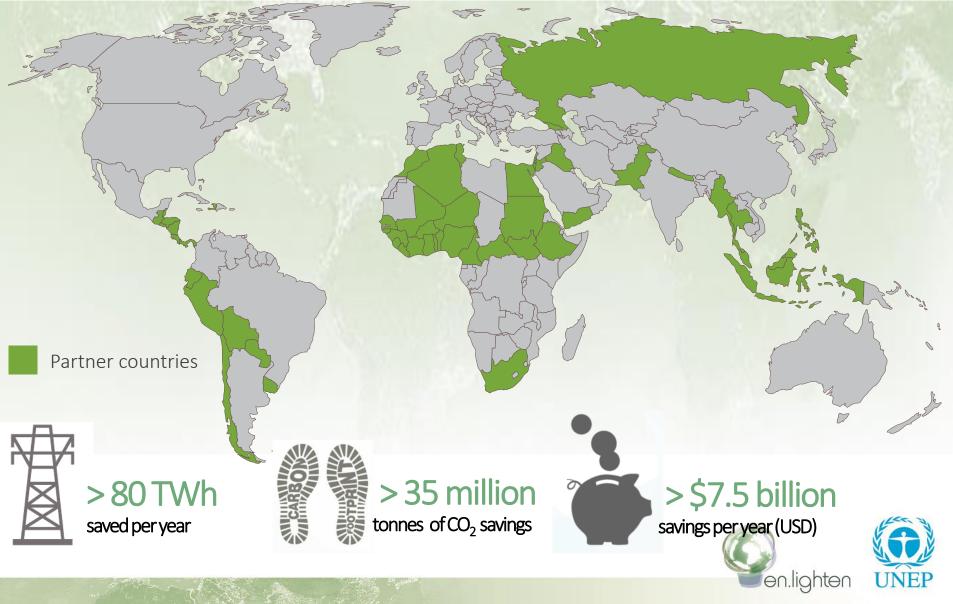
- Global consensus to phase out inefficient incandescent lamps by 2016*
- Support countries in making the move



* By 2016 all countries should have either phased-out inefficient incandescent lamps or have policies in place to phase-out within a given timeframe

en.lighter

66 Partner Countries and Benefits



The Integrated Policy Approach

- MEPS: ensure efficiency and quality of lighting products, removing obsolete technologies
- Supporting policies: promote public acceptance and demand for energy-saving lighting
- Monitoring, verification and enforcement: ensure regulatory compliance and a level playing field
- Environmentally sound management for sound disposal and/or recycling of used lamps





Global Status (2012) – Integrated Policy Approach

Minimum Energy Performance Standards

Supporting Policies

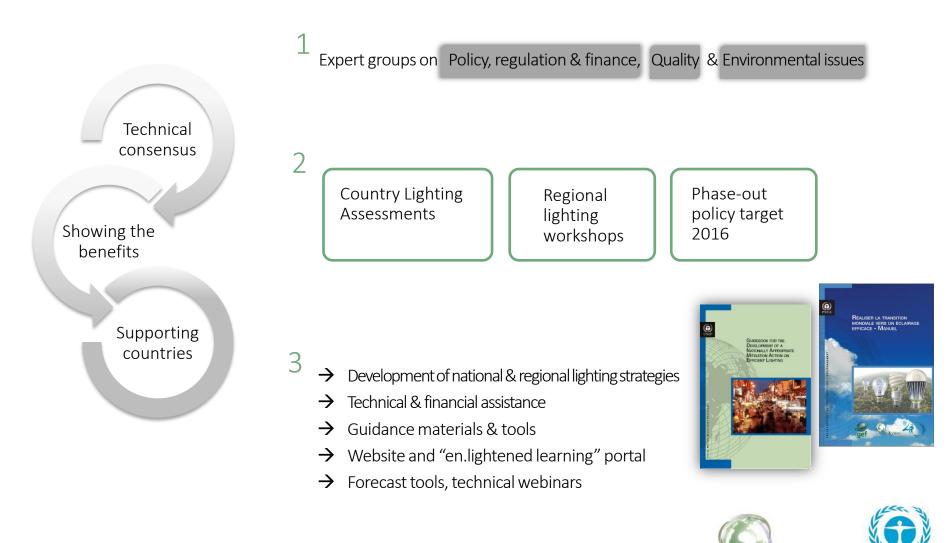




Monitoring, Verification & Enforcement

Waste Management

en.lighten Center of Excellence: Country Support



en.lighten



Thank You

www.enlighten-initiative.org





Back-up slides



Savings Potential – Stock Conversion

Hypothetical conversion of global lighting stock (2010) from inefficient to efficient lamps:

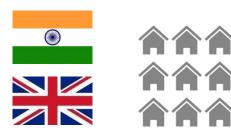
- Incandescent → CFL and LED
- Linear Fluorescent → Efficient T8 and T5
- High Intensity Discharge → Efficient Metal Halide
- Savings compares the energy consumption of stock inefficient vs. efficient lamps
- Global electricity for lighting was OVEr15%
 of total electricity consumption in the baseline
- Switching to efficient stock would save nearly
 40% of lighting electricity consumption



Global Benefits of Stock Conversion



Reduction of **1044 TWh** of electricity; equal to annual electricity consumption of:



Electricity savings capacity could electrify **1 billion households**

Compact Fluorescent Lamp

sis sis s

Over **US\$120** billion

annually in avoided electricity bills

Avoid over US\$230 billion

investment tied up in **280** large base-load coal-fired power plants



CO₂

Savings of over 530 million tonnes of CO₂ yearly; equal to annual CO₂ emissions of:





Global Benefits of Stock Conversion to 100% LED



Reduction of **1550 TWh** of electricity; equal to annual electricity consumption of:



Electricity savings could electrify **1.5 billion households**

sis sis s

Over **US\$175** billion annually in avoided electricity bills

Avoid over US\$345 billion

investment tied up in **415** large base-load coal-fired power plants







Savings of almost 800 million tonnes of CO₂ yearly; more than the annual CO₂ emissions of:





Global Efficient Lighting Forum