



SUSTAINABLE
ENERGY FOR ALL

SUSTAINABLE ENERGY FOR ALL

*Catalyzing Action to Transform the
World's Energy System*

13 March 2014

Sustainable Energy for All initiative

One Goal: Achieving Sustainable Energy for All by 2030

Three Targets:



ENSURING
universal access
TO MODERN ENERGY
SERVICES.



DOUBLING THE GLOBAL
RATE OF IMPROVEMENT IN
energy efficiency.



DOUBLING THE SHARE OF
renewable energy
IN THE GLOBAL
ENERGY MIX.

Energy and Sustainable Development

Pursuing three objectives simultaneously brings about immense benefits –
Broadening the narrative on Energy

Achieving the three objectives of Sustainable Energy for All...

... makes many development goals possible.



Ensuring universal **Energy Access**

- Improved **health**
Improved agricultural **productivity**
- Empowerment of **women**
- Business and **employment** creation
- Economic development and equity
- Achievement of the **Millennium Development Goals**



Doubling the share of **Renewable Energy**

- Affordable energy even where grid does not reach
- New opportunities for small entrepreneurs
- Decreased variability in energy costs
- Energy security and reduced import bills
- Reduced environmental impacts



Doubling the rate of improvement in **Energy Efficiency**

- Lighting / appliances that require less power
- Fossil fuel resources used more effectively
- Reduced energy costs for consumers
- Redistribution of electricity that now is wasted or lost
- More reliable electricity systems

Key Components and Stakeholders

An Inclusive Agenda

All parties must act...

...and work together to realize a world with Sustainable Energy for All

Governments

National governments
Public institutions
Cities and municipalities
Multilateral organizations
Bilateral development partners

Businesses

Energy companies
Financial players
All companies

Civil society

Organization
Academic institutions
Individuals



High-Impact Opportunities

A sample

Initial High-Impact Opportunity Areas	Action Area
Clean cookstoves, LPG & advanced fuels	Modern cooking appliances and fuels
Off-grid lighting/charging, Mini/micro grids, Island renewables	Distributed electricity solutions
	Grid infrastructure and supply efficiency
Grid connected renewables, Wind	Large scale renewable energy
Gas flaring, Energy smart foods, Corporate energy efficiency	Industrial and agricultural processes
EV, Fuel efficiency, 2 ⁿ generation bio-fuels	Transportation
Advanced lighting, Appliance efficiency, Cool roofs, Building energy efficiency	Buildings and appliances
Sustainable cities, country action	Energy planning and policies
Demand pull - renewables	Business model and technology innovation
Accelerating private financing through PPP	Finance and risk management
Resource map, SE investment index, Clean energy solutions center	Capacity building and knowledge sharing



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*Accelerating efficient lighting in developing
& emerging countries*



PHILIPS



nLtc National Lighting Test Centre
China



Public Private Partnership [2010]

- Global Environment Facility
- United Nations Environment Programme
- Philips Lighting, Osram
- China's National Lighting Test Center
- Government of Australia

Accelerate transition to efficient
lighting



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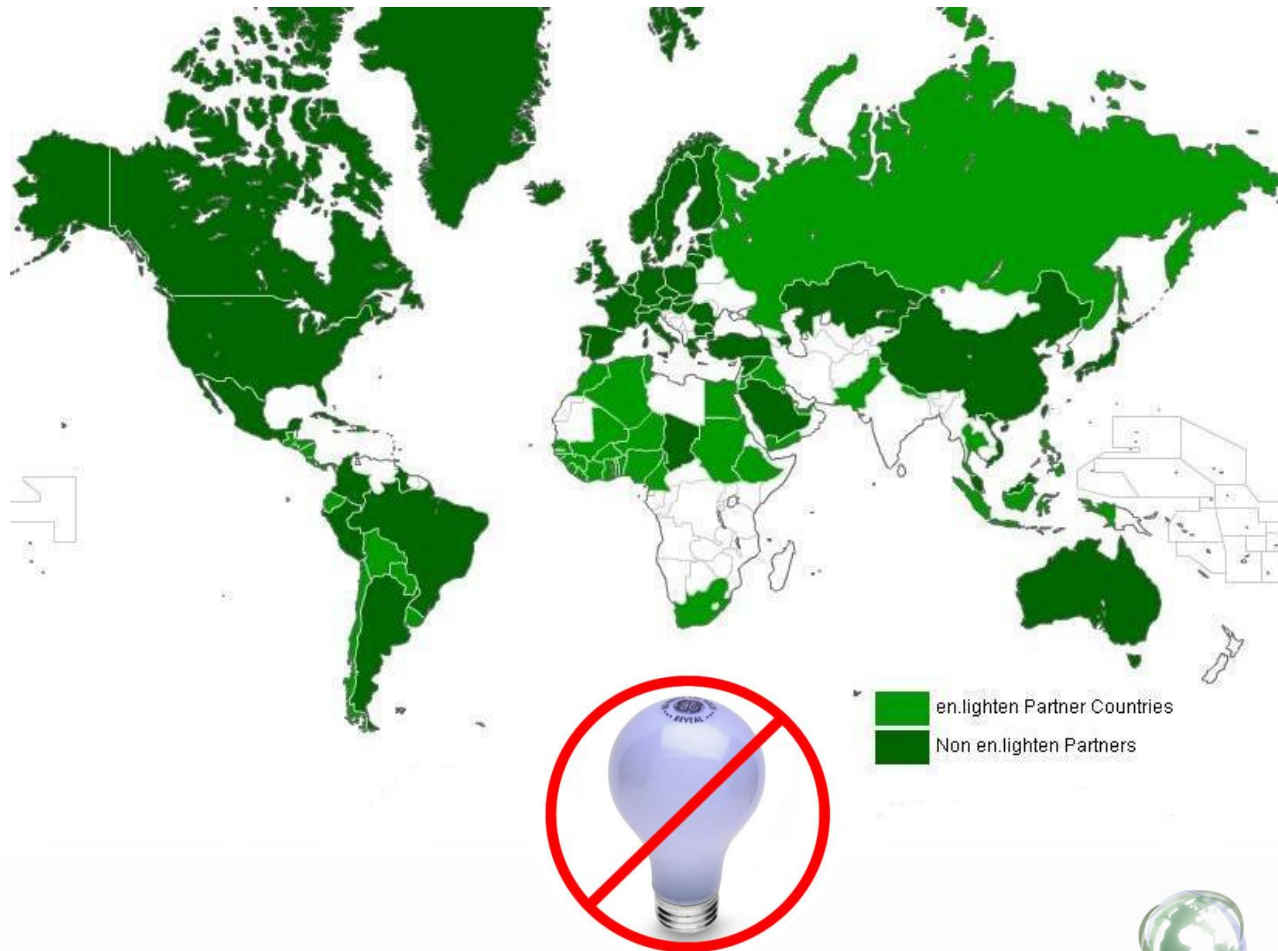
Inefficient Incandescent Lamps Phase-out 2010



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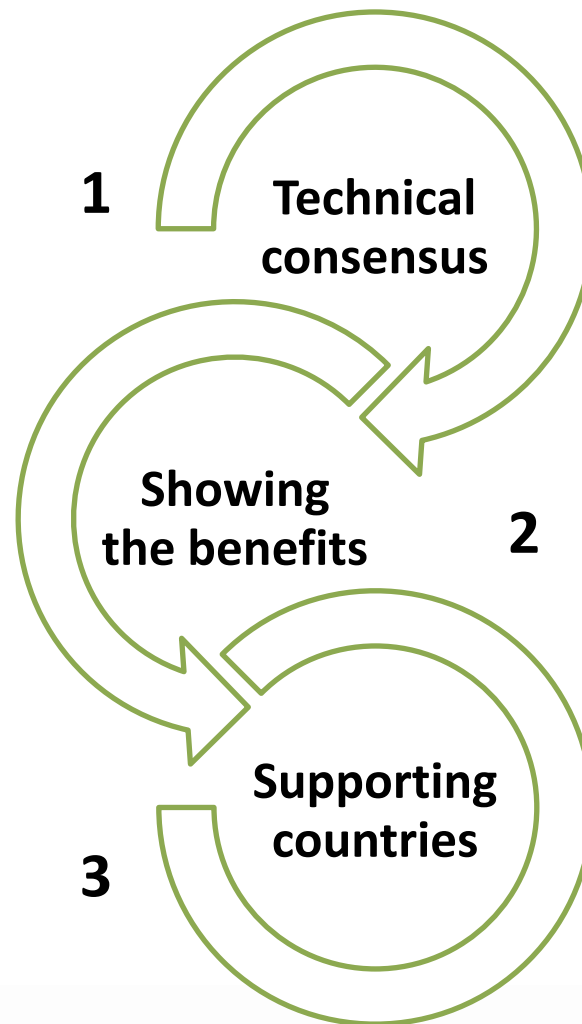
Inefficient Incandescent Lamps Phase-out 2014



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The en.lighten initiative in 3 steps



Technical Consensus

- Most effective approaches to promote the transition
- Multi-stakeholder representation and knowledge is key

Technical expert groups

Policy, regulation & finance

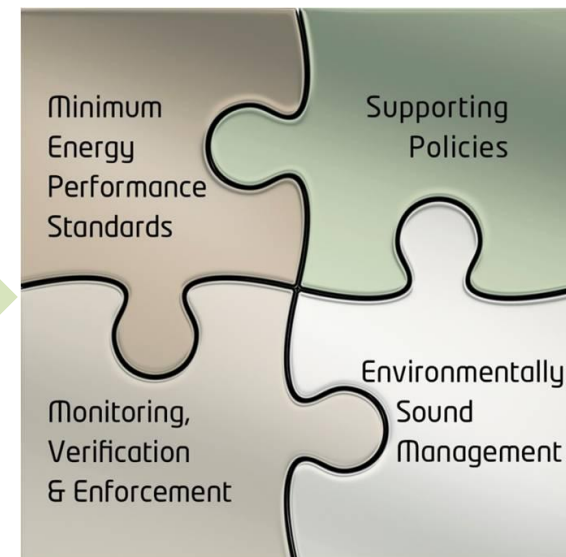
Australia, Cuba,
European
Commission,
South Africa,
India, Philippines,
USA, UK, ECOS,
Clinton Climate
Initiative, TERI,
USAID, ELCOMA,
UNDP, World
Bank

Quality

Sweden, USA,
Philips, Osram,
GIZ, Asian
Development
Bank, CALI
(China), INMETRO
(Brazil), NLTC
(China),
University of
Toulouse (France)

Environmental issues

Brazil, India,
Japan,
Philippines, South
Africa, USA,
European
Environmental
Bureau, European
Lamp Companies
Federation, Zero
Mercury Working
Group



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UNEP

Technical consensus - standards

1. Globally **harmonized minimum energy performance standards** (MEPs) to ensure the efficiency and quality of energy-saving lighting products.
2. Supporting **policies and mechanisms** to restrict the supply of inefficient lighting and promote the demand for energy-saving products.
3. **Monitoring, verification and enforcement** (MVE) programs to discourage the distribution of non-compliant products.
4. Environmentally sound management which include establishing **maximum mercury content limits** and setting up collection, sound disposal and/or recycling programs for spent lamps.



Supporting countries

- Technical assistance: lighting center of excellence
- Development of national-regional lighting strategies
- Guidance materials and tools
- Focused trainings, webinars

