



**United Nations Environment Programme  
en.lighten Initiative**

**Draft ECOWAS  
Regional Efficient Lighting Strategy**

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**ECOWAS Workshop on Appliance Standards and Regulations  
Institutional Capacity and Efficient Lighting Policies  
Cotonou, Benin September, 2013**



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for Economic Cooperation  
and Development



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National Lighting Test Centre  
China

# Objectives of Regional Efficient Lighting Strategy

- “ To promote rapid uptake of efficient, high quality on-grid and off-grid lighting products
  - “ while permanently removing any inefficient lamps from the market in the ECOWAS Region
- “ Increase national and regional demand for high-efficiency, high quality on-grid and off-grid lighting products
  - “ in the medium-term to be met with local production, thus increasing economic growth in the lighting sector
- “ Increase access to high-efficiency, high quality on-grid and off-grid lighting products



## Objectives of Regional Efficient Lighting Strategy (cont'd)

- “ Reduce operating costs of lighting
  - “ with particularly considerable positive impact on low income households
- “ Reduce greenhouse gas and mercury emissions from lighting-related electricity consumption
  - “ by reducing consumption
- “ Reduce life-cycle footprint of lighting-related products and usage
- “ Establish sustainable end-of-life treatment schemes and facilities for lighting products



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# Expected Benefits from transitioning to efficient lamps

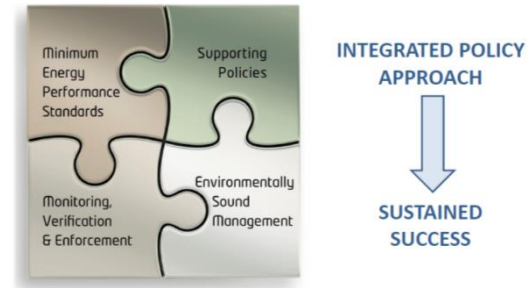
- “ Annual energy savings of about 2.43 TWh
  - “ approximately 6.75 % of the total electricity consumption
- “ Resulting energy savings
  - “ enough to supply total annual electricity consumption of at least 2.4 million households
  - “ assuming household consumption of 1000 kWh/yr
- “ Regional annual financial savings
  - “ over US\$220 million
  - “ yielding an average amortization time of just 3 months



# Methodology for Development of Regional Efficient Lighting Strategy (RELS)

## Application of Integrated Policy Approach on 4 Themes

- Minimum Energy Performance Standards
- Supporting Policies and Mechanisms
- Monitoring, Verification and Enforcement
- Environmentally Sound Management



## Establishment of 4 Working Groups on the 4 Themes to provide inputs to RELS

## Thematic Group Composition – ECOWAS Country Representatives

- Energy Ministry
- Rural Electrification Agency
- Standards Authority
- Industry Ministry
- Lighting Experts/Private Sector

## Country Missions – Benin, Cote d’Ivoire, Ghana, Nigeria, Senegal



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# Outline of Strategy

## ” 2. INTRODUCTION

- 2.1 GOALS AND OBJECTIVES OF ECOWAS REGIONAL EFFICIENT LIGHTING STRATEGY
- 2.2 REGIONAL BACKGROUND INFORMATION

## ” 3. SITUATION AND NEED FOR STRATEGY

- 3.1 SUMMARY OF STATUS OF LIGHTING IN ECOWAS REGION
- 3.2 BARRIERS TO THE TRANSITION TOWARDS EFFICIENT LIGHTING IN THE REGION
- 3.3 FRAMEWORK FOR EFFICIENT LIGHTING LEGISLATION
- 3.4 COMPELLING NEED FOR A REGIONAL EFFICIENT LIGHTING STRATEGY



# Outline of Strategy

- “ **4. METHODOLOGY FOR THE DEVELOPMENT OF THE STRATEGY**
- “ **5. KEY ACTIVITIES UNDER REGIONAL EFFICIENT LIGHTING STRATEGY**
  - 5.1 MINIMUM ENERGY PERFORMANCE STANDARDS
  - 5.2 SUPPORTING POLICIES AND MEASURES
  - 5.3 MONITORING, VERIFICATION AND ENFORCEMENT
  - 5.4 ENVIRONMENTALLY SOUND MANAGEMENT
  - 5.5 POWER SECTOR REFORMS NEEDED TO SUPPORT THE STRATEGY
- “ **6. FINANCING OPTIONS FOR THE STRATEGY**
- “ **7. NEXT STEPS**



# IMPLEMENTATION PHASES

- “ Phase 1: July 2014 to December 2015
- “ Phase 2: January 2015 to December 2016
- “ Phase 3: January 2017 to December 2020
- “



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# National & Regional Activities



## ***Enabling framework for integrated policies + Roles of Key Stakeholders and Expected Outcomes of their Actions***

- “ Do the Key Activities cover all the relevant regional and national activities on MEPS?
- “ Are all stakeholders covered?
- “ Are their roles and expected outcomes duly considered?
- “ How would you prioritize the national and regional activities?
- “ What are the key barriers and risks towards the implementation of the Strategy?



## *Timeframe and Measuring Progress*

- “ Is the phasing of the activities satisfactory?
- “ What are the milestones, indicators and means of verification?
  - “ for monitoring and measuring progress of the implementation of the Strategy
- “ Complete the Log Framework Analysis
  - “ Refer to the illustration table



# Log Framework Analysis



# ***Financial Considerations***

- “ What are the estimated costs of the activities?
- “ What budget is available for the activities at the national and regional levels?
- “ How would you prioritize the following financing options for the national and regional activities of the Strategy?
- “ Domestic Sources
  - Government Administered Programmes
  - Utility Administered Programmes



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# *Financial Considerations (cont'd)*

- “ Private Sector Funding
- “ Non-Domestic Funding
  - International Donors
  - International Lending Institutions
- “ Carbon Financing
  - Clean Development Mechanism (CDM)
  - Nationally Appropriate Mitigation Actions (NAMAs)
  - Other Carbon Financing



# Working Group Sessions

## **“ Session A**

**“ *Enabling framework for integrated policies + Roles of Key Stakeholders and Expected Outcomes of their Actions***

## **“ Session B**

**“ *Timeframe and Measuring Progress***

## **“ Session C**

**“ *Financial Considerations***





**Thank You.**

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