



*Country Policy Updates: Efficient Lighting
Monitoring, Verification and Enforcement (MVE)*
Cambodia

Mr. Chanthearith Ou, Deputy Director
Ms. Vichet Ratha Khlok, Chief Office

Climate Change Department, Ministry of Environment



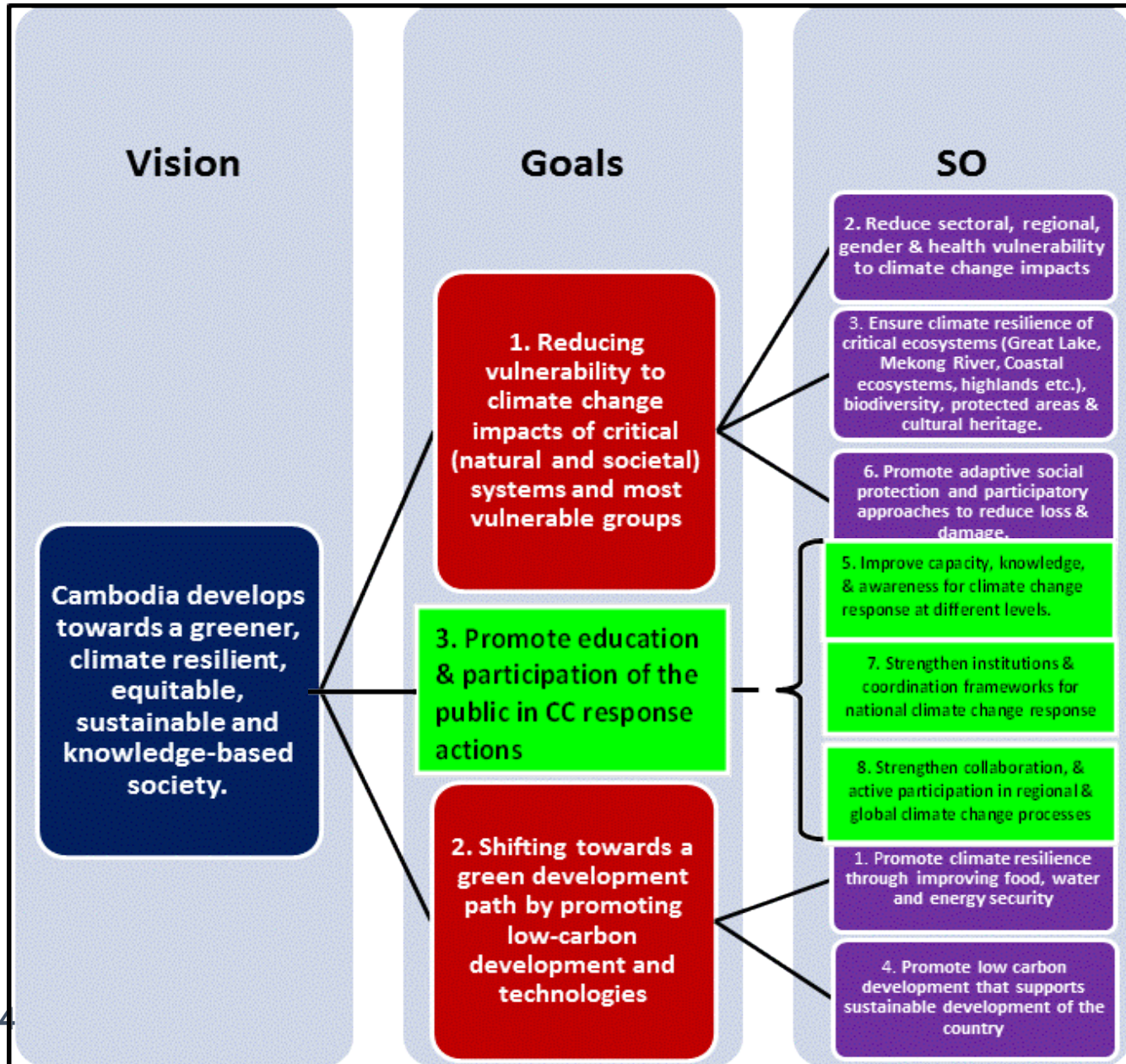
Presentation Outline

1. Regulatory Mechanisms
2. Supporting Policies
3. Monitoring, Verification and Enforcement
4. Energy Efficiency & Conservation Activities in Cambodia
5. Energy Savings Siem Reap – Promoting and Demonstrating Energy Conservation/EEP
6. Regional Programs
7. Future Plan
8. Requests

1. REGULATORY MECHANISMS

- **No plans** to phase-out incandescent/low efficiency lamps,
- **No voluntary or mandatory standards, rules or regulations** regarding the use of energy or sale of energy efficiency products.
- However, a ***regulatory framework exists for the Safety Label for Electric and Electronic Household Products***
- ***Prakas No. 1003, Determination of types of electrical and electronic products to be complied with Cambodian industrial standards as mandatory standard*** (MIME, Sept 2006)
- ***Energy efficiency and conservation (EE&C)*** is considered as an important component of sustainable energy development in Cambodia.
 - There is intent to develop a national strategy to address this.
 - Lighting is seen as a major opportunity for demand side management and some measures are in place to regulate lighting products.

1. REGULATORY MECHANISMS



Cambodia Climate Change Strategic Plan



Consultation Workshop

1. REGULATORY MECHANISMS

The Cambodia Climate Change Strategic Plan (CCCSP)

Goal 2: Shifting towards a green development path by promoting low-carbon development and appropriate technologies

- Strategic Objective 1:
 - Promote climate resilience through improving food, water and energy security
- Strategic Objective 4:
 - Promote low-carbon planning and technologies to support sustainable development

The Sectoral Climate Change Strategic Plan (SCCSP)

- Ministry of Industry Mines and Energy (MIME) is preparing its Sectoral Climate Change Strategic Plan and Action Plan

2. SUPPORTING POLICIES

- Awareness raising newsletter for consumer on energy efficiency developed by the Ministry of Industry, Mines and Energy
- Promotion and Demonstration of Energy Conservation in Siem Reap funded under Energy and Partnership-Mekong project (EEP)
 - Awareness raising materials: leaflets, posters, Radio and TV spots
 - Awareness raising workshops

3. MONITORING, VERIFICATION AND ENFORCEMENT

- **Mandatory lighting test standards (Parkas No.1003)**
 - These mandatory standards have been established by adopting the relevant IEC test method standards.
 - These include performance specifications for double-capped fluorescent lamps and tungsten filament lamps for general lighting service; safety requirements for tungsten filament and self ballasted lamps for general lighting service (CFLs); and general requirements for luminaires (lighting chains).
- **Safety Label for Electrical and Electronic Household Products**

4. Energy Efficiency & Conservation Activities in Cambodia

- **Objective:** to strengthen cooperation in energy efficiency and conservation through Institutional capacity building and increasing private sector involvement including enhancing public awareness as well as expanding markets for energy efficient products
- **Energy audit in building:**
 - On-the-job training (OJT) for the local engineers (more involvement of the local engineers and giving the opportunity for the engineers from the other ASEAN countries to join the audits)
 - Collection of more accurate data and information for Energy Management
 - Identification of the present energy consumption and their own benchmark (Target)
 - The audits teams take the recommendations for EE&C under the consulting of the Japanese experts through the intensive energy audits

4. EE & C Activities in Cambodia

Building

- Energy Audit Training and Site Visit for building
- Seminar-Workshop on Energy Conservation for Buildings in Southeast Asia

Industry

- Energy Audit training and site visit for Industry
- Seminar-Workshop on PROMEEC for Major Industry in South East Asia (2005 Phnom Penh, Cambodiana Hotel)

Energy Management

- Intensive Seminar Workshop
- Site Visit of Factory and Building
- Training on Energy Management Handbook

ASEAN Energy Cooperation on EE & C

ASEAN Energy Awards: have been implemented in some big hotels in Cambodia

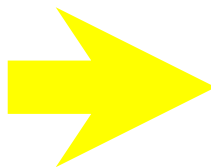


5. Energy Savings Siem Reap – Promoting and Demonstrating Energy Conservation in Siem Reap, Cambodia

5.1 About the Project

Project Title	Energy Savings Siem Reap – Promoting and Demonstrating Energy Conservation in Siem Reap
Project Duration	Jan 2011 – December 2012
Project Objective	To raise awareness of energy efficiency and energy conservation in the context of climate change and sustainable development, and to demonstrate the practical feasibility of simple energy conservation measures by installing solar water heaters in selected sites and distributing CFLs.
Target Beneficiary	[1] Solar Water Heater: Public and Private Sector [2] CFL: Residential people in Siem Reap Town
Main Activities	[1] Awareness Raising and Capacity Building [2] Demonstration

5.2 Compact Fluorescent Lamps (CFLs)

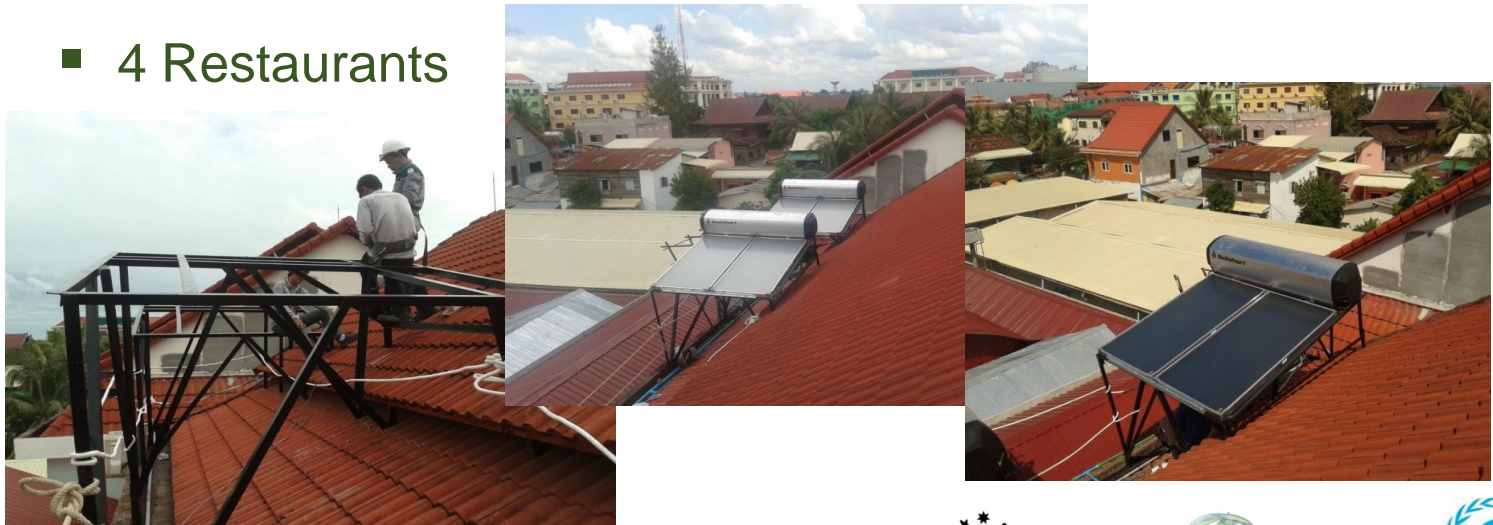


- August – October 2012
- Siem Reap Province: 14 Communes/Quarters (114 Villages)
- Carbon emission reductions
 - Distribution of 15,000 lamps of 11W and 15,000 lamps of 14W
 - Emission reductions: 720 tons CO₂/year, or 4321 tons CO₂ over the product lifetime of the lamps (six years)



5.3 Solar Water Heaters (SWHs)

- November 2012- February 2013
 - 20 Solar Water Heaters:
 - 5 Hotels
 - 2 Guesthouses
 - 4 Restaurants



5.4 Energy Efficiency Labels

- The **Department of Energy Technique (DET)** of the Ministry of Industry, Mines and Energy (MIME) in 2011 collaborates with Climate Change Department (CCD) to translate energy efficiency labels for selected electric appliances sold in the markets.
- Labels for selected products: Air Conditioners, Refrigerators, and Fans



6. Regional Programs

- Cambodia participates in the ASEAN-Japan, *Promotion on Energy Efficiency and Conservation (PROMEEC)* program activities.

7. Future Plan

1. EE & C

- Collecting data of Cambodia end-users in the different economic sector
- To promote EE & C technologies capacity building for both sectors in Cambodia, public and private
- To provide economic benefits to the energy end-users through EE & C role (perception among the public and private decision makers)
- To promote EE products in implementing EE project
- To translate of ASEAN Energy Management Handbook in National language

2. Standard and Labeling for Energy End-Use

- To prepare voluntary or mandatory standards, rules and regulations regarding the use of energy
- To train the customer on some appliances are imported along with the energy performance labels of the country of manufacturing
- To promote national standard and labeling for Energy End-Use in Cambodia

8. Request

1. For Energy Efficiency and Conservation (EE&C)

- Fund to prepare EE & C policy and regulatory in Cambodia
- International consultants or advisors to process of EE & C activities in Cambodia
- To learn experiences on Energy Audit, especially for EE & C success experiences in outside countries
- Further support for scaling up the promoting EE & C activities

2. Standard and Labeling (S & L) for Energy End-Use

- To train on Energy End-Use of Standards and Labeling in local and outside countries
- To cooperate with Cambodian standard Institute on S & L for Energy Efficiency Products (EEP)
- Fund to promote S & L for EEP in Cambodia, especially for Lighting Ballast, Refrigerator, Air Conditional, Fan, etc.
- To disseminate to all stakeholders and customers on S & L for EEP through training, Seminar, Radio, TV and so on.

Thank You!

សូមអរគុណ!

