



**Kingdom of Cambodia**  
**Nation Religion King**



**Ministry of Mines and Energy**  
**New and Renewable Energy Department**

**SE4All Workshop on Building standards**

# **Current status of Energy Efficiency in the Kingdom of Cambodia**

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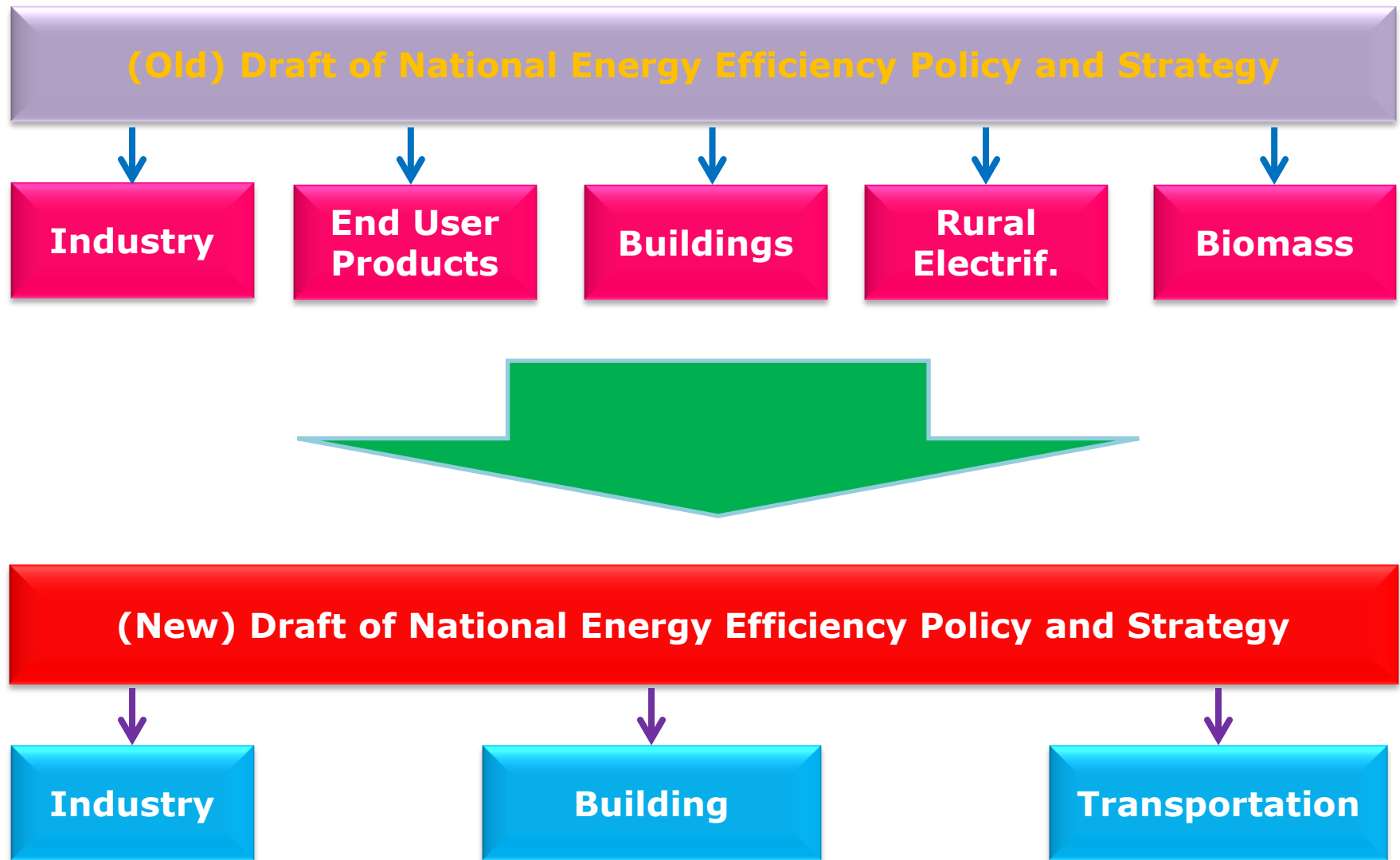
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# 1. Overall Energy Efficiency Policy



# 1.1 Goals

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In line with the National Energy Policy and with the INDC, the National Energy Efficiency Policy has two main goals:

- Improve the management of existing infrastructure (e.g. buildings) and industrial processes (e.g. for the use of fuel wood);
- Increase the transfer and adoption of energy efficient technology (e.g. fuel efficient vehicles and light bulbs).

# 1.2 Strategies

There are 4 Main point in national strategies including Awareness raising, Financial incentives, Capacity building and standard.

## ➤ **National perspective**

- Eq. Reduce energy demand by 20% in 2035, relative to the business as usual scenario;
- Eq. Reduce CO<sub>2</sub> emissions by 1millions ton in 2035, relative to the business as usual scenario.

## ➤ **Sectoral perspective**

- Eq. Estimated share of 25% of total energy consumption in Building sector, 25% in industry Sector and 15% in transportation sector.

## 1.3 Cross-cutting Activities

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Some activities will be working together to achieve target with council-Ministries :

- Labelling
- Equipment inspection
- Audits
- Data collection and database system

## 2. Construction in Cambodia

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There are three different classes of authority issuing of construction permit as following.

### **1) The District Offices Hall**

Construction Permit Projects that consist of floor area equal or less than 500m<sup>2</sup>

### **2) Municipality or Provincial Hall**

Construction Permit of Projects that consist of floor area equal or less than 3,000 m<sup>2</sup>

## 2. Construction in Cambodia (Cont.)

### 3) Ministry of LMUPC

- Public or private buildings consist of flooring area of more than 3,000 m<sup>2</sup>
- Construction within the protected region, environmental reserve, historical and cultural sites
- Construction of new airport, seaport, train station, bus station, gas station and military buildings
- Construction that has extremely impact or danger to social and nation.



## 2.1. Activities in Building sector

Sector Target	Objectives	Activities	Target reduction	Priority (S, M, L)	Implementer
Buildings (25%)	Energy efficiency of buildings is improved	An energy efficiency building code for new buildings is established		M,L	MLMUPC
		Existing public buildings are held to a high energy efficiency performance standard	10%	S	MoE
		Establishment of an energy database at MME			MME
		Establish an energy manager program	1%		
	Education and awareness of energy efficiency in buildings has increased	Education of architecture students in energy efficiency (knowledge)		M,L	MoEYS
		Education of architects and planners in energy efficiency (basics)		M,L	MME
		An Energy Efficiency Information Resource Center is established		M,L	MME
		Study tours to selected examples of good practice of energy efficient buildings		M,L	MME
		Energy managers are trained and certified			
	Energy efficiency of end-user products has increased and residential electricity consumption is reduced	A compulsory national energy efficiency labelling system for household appliances is introduced		M,L	MEF, MIH, MoC, MoE, MME
		Promotion of improved and efficient cookstoves for rural and urban households		M,L	MEF, MIH, MoC, MoE, MME
		Electricity consumption of household appliances is measured/tested by certified institutions/ laboratories		M,L	MEF, MIH, MoC, MoE, MME
		Energy efficiency standards, laws and regulations concerning energy efficiency of end-user appliances are being elaborated and promulgated by government		M,L	MEF, MIH, MoC, MoE, MME
	End user of residential appliances are aware of the concept of energy efficiency and behave accordingly	Education programs in energy efficient behaviour are performed in schools		M,L	MoI, MME, MoEYS
		Publicity campaigns on energy efficient behaviour are published in the public media		M,L	MoI, MME, MoEYS

# 3 Future Plan (2017-2018)

N	Action Plan	2017												2018		
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	
1	AC S&L															
	➤ Establishing of TWG ( ISC/MIH, MME, MoC, DoC/MEF, Specialists)		→													
	➤ Market survey of AC		→	→												
	➤ Design AC S&L (including rating)		→	→												
	➤ Register system for AC (Digital)				→	→	→	→								
	➤ Reference Evaluation for AC (MOU, Equivalent evidences from independence Lab)				→	→	→	→	→							
	➤ Draft of Act/regulation on AC				→	→	→	→	→	→						
	➤ Capacity building				→	→	→	→	→	→	→	→	→	→	→	→
	• Seminar															
	• Dissemination of AC Standard and Labeling															
2	Building Energy code															
	➤ Establishing of TWG (MME, MLMUPC and Specialists)		→													
	➤ EC guideline (Norms & Target)			→	→	→										
3	EM System															
	➤ Define trainee of trainer		→													
	➤ Trainee of trainer ( Designated Hotels and Industries)				→	→	→	→	→	→	→	→	→	→	→	→
	➤ EM Manual							→	→							





**Thank you !!!**