

THE 19TH AIM INTERNATIONAL WORKSHOP



A Designing of Low Carbon Development Plan for Cambodia toward 2050

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1. Introduction

Cambodia:

- Total land area: 181 035km2
- Population: about 15 million
- An agricultural country with more than 80% of the population living in the rural area
- More vulnerable to the impacts of climate change which caused a lot of human lives, properties, infrastructures, agriculture products, animals, and human health.

Cambodia's Natural Disasters



- Increasing demand for economic development
- Some structural adjustments are needed to keep increasing economic growth with low greenhouse gas (GHG) emissions, thus adopt Low Carbon Development Plan

2. Purpose

The Low Carbon Development Plan (LCDP) is developed with the objective to reduce GHG emission and at the same time to ensure economic growth, poverty eradication, natural resource sustainability, sound waste management, and green investment attraction and green job creation.

> 3. GHG Inventory 1994 and 2000 (SNC)

GHGs by Source and Sink

Total CO₂eq. (Gg)

LCDP identified four tangible polices and a dozen strategies. In order to conduct quantitative analysis of these strategies, a couple of numerical models: Extended Snapshot Tool (ExSS) and Agriculture, Forestry and other Land Use Activity model (AFOLUA), and Waste Model developed and applied. The models project quantitative future activities and environmental loads, and identify measures to be implemented in order to achieve certain environmental and other targets.

GHG Inventory	GHG Inventory
1994	2000
1,881	3,444
10,560	21,112
-17,907	-24,565
273	229
50	-
-5,142 (Net sink)	220 (Net emitter)
	GHG Inventory 1994 1,881 10,560 -17,907 273 50 -5,142 (Net sink)

4. LCDP toward 2050

		• Ellergy 1 development plan		
Four Policies	Dozen Strategies	Model Use	 Demography Agriculture Agriculture Agriculture AroLOA AroLOA AroLOA BroloA BrolA	
Green environment	Sustainable forest management	AFOLU	Waste Land use etc.	
	Sustainable waste management	ExSS/Waste	• Energy	
Harmonization of green economy, society and culture	Green agriculture	AFOLU	 Energy system Industrial structure Ouantitative Policies Forestry 	
	Green transport	ExSS	 Transport demand Agriculture Agriculture 	
	Green energy	ExSS	productionLCSStrategies• Waste management• Land-use conversion• Finance	
	Green tourism	ExSS	• GHG emission etc. • Human resource etc.	
	Green human resource development	ExSS	6. Conclusion	
	Green financial mobilization	ExSS/Waste	LCDP can bring Cambodia tow achieve certain targets.	
	Green technology and investment	ExSS	- GHG emission reduction	
Blue economy	Green merchant marine and sustainable	ExSS/AFOLU	- Economic growth, poverty reduction, human resource	
	coastal zone management		development, effective natural resource management an	
Eco-village	Low carbon infrastructure	ExSS	environmental sustainability and sound waste	
	Green building	ExSS	management.	



Low Carbon Development Tool