



**Twenty-third Asia-Pacific Seminar on Climate  
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**Nationally Appropriate Mitigation  
Action (NAMA) Development  
in Lao PDR**

*Immala Inthaboualy  
Department of National Disaster Management and  
Climate Change , MONRE, Lao PDR*

*Email: [inthaboualy@gmail.com](mailto:inthaboualy@gmail.com)*

# Contents

- National Circumstance of GHG Inventories
- Policies Documents for Climate Change Mitigation Action in Lao PDR
- Information on NAMA Feasibility study in Lao PDR
- Institutional arrangements and inter-ministerial coordination
- Challenges faced in developing and implementing mitigation actions
- Lessons learned and suggestion for INDC, as appropriate

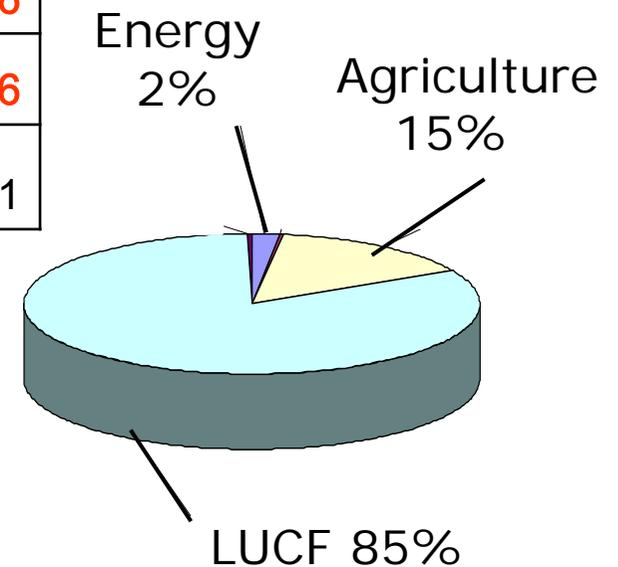
# Scope of Inventory

The inventory examines the emission by sources and removal by sinks of Greenhouse Gases (GHGs) of the following five sectors:

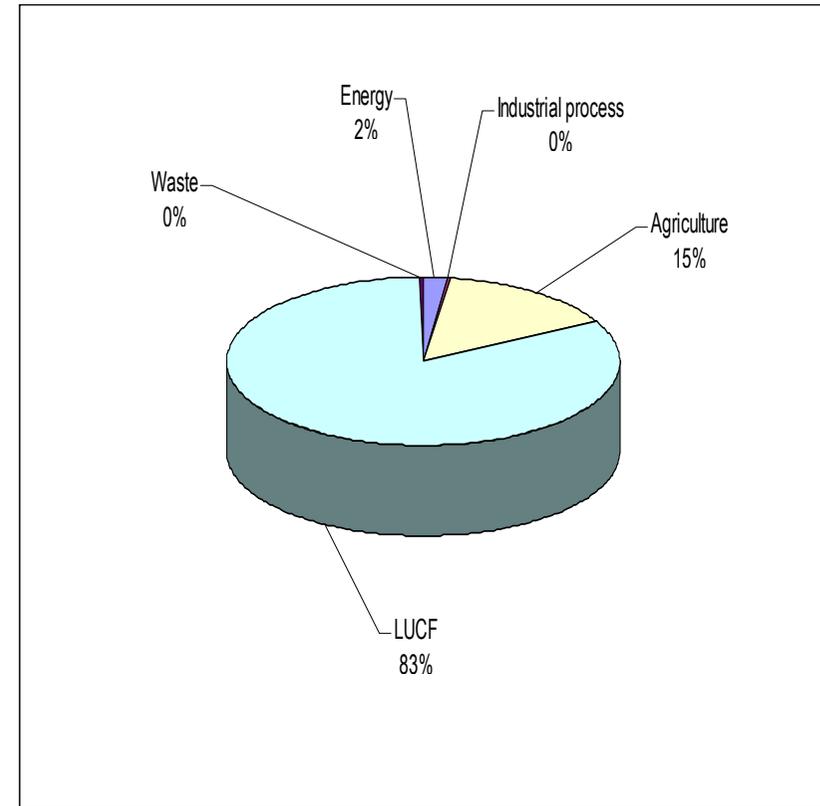
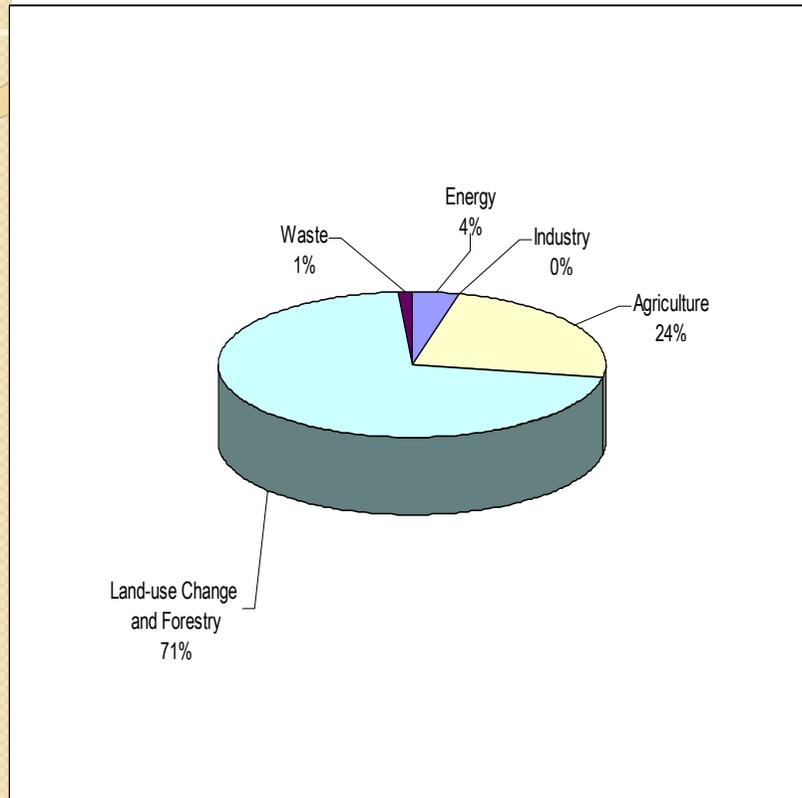
- ❖ Energy
- ❖ Industrial process
- ❖ Agriculture
- ❖ Land use change and forestry
- ❖ Waste

# Total emissions by sector CO<sub>2</sub> equivalent (%) year 2000

Sector	CO <sub>2</sub> Source	CO <sub>2</sub> sink	CH <sub>4</sub>	N <sub>2</sub> O	Total
Total	43,810	-2,046	6,441	2,537	<b>50,742</b>
Energy	1,003		14	21	1,039
Ind. proc.	48				48
Agricultur e			5,279	2,326	<b>7,606</b>
LUCF	42,758	-2,046	1,096	108	<b>41,916</b>
Waste			50	81	131



# Comparison of GHG Inventories for year 1990 and 2000 CO<sub>2</sub> equivalent



# Policy document and Data collection

- Relevant policy documents have been compiled and Analyzed in order to select the sector to focused Identify mitigation action in the select sector the document including:
  - ✓ The seventh National Socio-Economic Development Plan (2011-2015)
  - ✓ National Strategy on Climate Change of Lao PDR
  - ✓ Action Plan on Climate Change of Lao PDR for 2013-2020
  - ✓ National Strategy and Action Plan on Environment Sustainable Transport
  - ✓ Renewable Energy Development Strategy in Lao PDR
  - ✓ National Communication on Climate Change FNC & SNC
  - ✓ JICA basic Data Collection Study on Low Emission Public Transport System in Lao PDR

# NAMA Initiative study in Lao PDR

- ❑ Mitsubishi UFJ Morgan Stanley Securities  
Cooperation with MPWT for Feasibility study NAMA  
in transport sector in year 2010
- ❑ Pursuant to Urban Transport Master Plan

## Phase 1 Study (2010)

Issues identified in the study for Transportation  
NAMA conducted in

- Lack of historical traffic data in order to determine the reference scenario
- Lack of data for detailed estimation of GHG emission reductions
- Uncertainty of MRV method based on the Traffic Demand Forecast

## Phase 2 Study (2011)

To study the feasibility NAMAs or Bilateral Offset Credit Mechanism (BOCM/JCM) application to the project activities, the following tasks shall be completed:

- Set up a reference scenario to reflect the historical trend
- Reassess the GHG emission reduction estimates
- Reassess the MRV method by means of a simulation model

# Phase 3 Study (2012)

Old bus Vehicle



Grant of new bus 42 Vehicles



## Demonstration public bus project

- ❖ The purpose for study public bus procurement with the assistance by JICA.
- ❖ To change the old bus vehicle to the new bus vehicle to modal shift for mass transit.

# Cooperation with Ministry of Environmental Japan in year 2012 -2014

## Year 2012-2013 (Transport sector)

- Promote use of Electric Vehicles in Vientiane Capital
- Identify "Business as Usual (BAU) Scenarios" and "NAMA Scenarios"
- NAMA emission reduction quantification
- Fuel efficiency data collection

## Year 2014 (Industry sector)

- Drafting NAMA implementation plan (documentation)
- Study on development JCM Model project in the Industry sector (in Savannakhet, Pakse)

## Draft NAMA Structure of the Implementation Plan

### Main part of the Plan

1. Objectives
2. Quantified GHG emissions reduction and sink  
(Emission Trend (BAU today and in future) by Sector or Actions)
3. Policies and measures toward achievement of the targets ( Lao PDR's NAMAs submitted to the UNFCCC)
4. Institutional Arrangement for Implementation and MRV
5. Report and Verification to and at NAMA committee

# Institutional Arrangement for the Climate Change

**National Environmental Committee (NEC)**



**National Technical Working Group  
on Climate Change**

Established on 11 February 2013

Duties

- Be as Secretariat to the NEC
- Provide suggestions to the NEC and MONRE
- Be the focal point for coordination between the Authorities
- Propose recommendations for the policy, strategy and legal document
- Be responsible for creation of policy, strategy and Support and monitor the Climate Change activities

**Chair: Director General Department of Disaster Management & Climate Change, MONRE**

**Members:**

- Ministry of Agriculture and Forestry
- Ministry of Energy and Mines
- Ministry of Public Works and Transport
- Ministry of Science and Technology
- Ministry of Industrial and Commerce
- Ministry of Public Health
- Ministry of Education and Sport



## Challenges faced in developing and implementing mitigation actions

- Establishment of the country specific default value for fuel efficiency by vehicle types will be useful for GHG emissions quantification of NAMAs options in the transport sector
- Capacity building on transport data collection may be required.
- Development of the other the listed NAMAs options will be required,
- Limited of National Climate Change expertise
- Limited of data for detailed estimation of GHG emission reductions
- Lack of financial support from government to Climate Change Mitigation and Adaptation



## Lessons learned and suggestion for INDC, as appropriate

- Now Laos has not much mitigation project at present, however, Laos consider all the possibility to cooperate with international organization for implementing mitigation policies to contribute to convention UNFCCC
- Government of Lao tried to Increase of households with electricity to 70 % of total by 2010 and to 90 % of the total by 2020; and Increase forest cover 65% in year 2015 and to 70% in the year 2020
- Contribution for mitigation should be base on the conditional in the country (Capacity, Budget available ... )



**Thank you for your attention**  
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