



GREATER MEKONG  
SUBREGION  
CORE ENVIRONMENT  
PROGRAM

# Country Implementation Progress *THAILAND*

**23<sup>rd</sup> Annual Meeting of the  
GMS Working Group on Environment  
12 July 2017**

## Key Achievements in 2016

- ❖ Biodiversity Conservation Corridor in Eastern Forest Complex Project by Department of National Parks, Wildlife and Plant Conservation (DNP).
- ❖ Green Freight Project Office of Transport and Traffic Policy and Planning (OTP) Ministry of Transport.
- ❖ Establishment of the Steering Committee

# Context

## Biodiversity Conservation Corridors, EFCOM & WEFCOM by Department of National Parks, Wildlife and Plant Conservation (DNP)

**LoA** duration 15/04/14 to 14/04/16, latest Ext. to 31/12/17

### Pilot sites

#### ❖ Eastern Forest Complex

PA 1) Khao Chamao-Khao Wong NP, 2) Namtok Klong Kaew NP,  
3) Khao Ang Luenai WS, 4) Khao Soidao WS and  
5) Klong Krua Wai Chalerm Prakiat WS

14 Communities (villages) in 4 Provinces

#### ❖ Western Forest Complex (20 Communities in 2 Provinces)

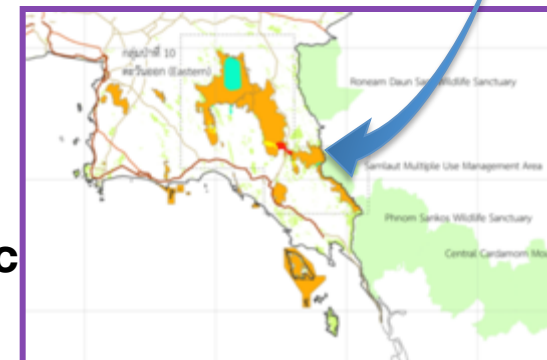
### Tasks

**A: Strengthened** Biodiversity Landscape and  
Corridor Management

**B: Community Level Conservation and Sustainable  
Livelihoods Practices**

**C: Supported** Capacity Building and Enhance Experience

**D: Supported** Administration and **Implementation** of LoA



# 2016 Achievements

## A: **Strengthened** Biodiversity Landscape and Corridor Management

### A1: Impact Assessment of CEP-BCI P1 in Western Forest Complex (WEFCOM)

- Organized a workshop to assess BCI P1 impact
- **Preliminary** Land-use Change Assessment



Tenasserim BCI Pilot Site: Forest Cover 2002



# 2016 Achievements

## A: **Strengthened** Biodiversity Landscape and Corridor Management

### A5: Development of Transboundary Biodiversity Landscape Collaboration between Thailand and Cambodia

- Study Visit of Cambodian Delegation at EFCOM, Thailand (10-13 October 2016)
- Bilateral Meeting in Bangkok
- **Developed** draft MoU on Cooperation on Protected Area and TBL Conservation and



# 2016 Achievements



## D: **Supported** Administration and **Implementation** of LoA

### D1: Support **for** the Administration and Implementation of

- October - December 2016
- Requested for LOA Extension
- Revised Inception Plan
- Determined Target areas and Action Plan
- Discussion and Meeting of Project Committee and Working Group



# 2017 Achievements



## A: **Strengthened** Biodiversity Landscape and Corridor Management

### A2: Habitat assessment of biodiversity conservation corridors in **Eastern Forest Complex (EFCOM)**

- Line transects survey (30% of target corridors)
- Camera traps installation



# 2017 Achievements

## A: **Strengthened** Biodiversity Landscape and Corridor Management

**A3: Development of Legal Instruments or Guidelines for Biodiversity Corridor Design and Conservation Management**

**A4: Development of Detailed Action Plan for Scaling up Biodiversity Landscape and Livelihoods Interventions**

- **Organized** 4 group discussions in 10 communities to develop guidelines and detailed action plan
- **Studied** people perceptions by interview and questionnaires







**Pilot sites** of CEP-BCI P1 (WEFCOM) and P2 (EFCOM) **have** high potential to be the **Transboundary Biodiversity Landscape**

## CEP-BCI P1

Communities in the pilot site WEFCOM continue the biodiversity conservation activities and achieve the village fund management.

## CEP-BCI P2

- **Severe conflict exists** between human and wildlife (elephant) in EFCOM
- All stakeholders (Gov., NGO, Private, Communities) cooperate in biodiversity conservation and solving the wildlife conflict
- Neighbour (Cambodia) **considers** and **agrees** to combat the illegal forest encroachment, cutting and poaching including wildlife conflict

## WEFCOM

- Sharing impacts, **lessons** learnt, best practices and recommendations resulting of CEP-BCI P1 in WEFCOM
- Report of Impact assessment on **lessons** learnt, best practices, recommendations, and institutional feedback
- Report of Land-use Change Assessment



## EFCOM

- Land use classification of biodiversity conservation corridors
- Habitat assessment report of biodiversity conservation corridors
- Guidelines for biodiversity corridor design and conservation management
- Detailed action plan for implementing the corridor for scaling up biodiversity landscape
- Guidelines for alternative livelihoods development to sustain biodiversity landscape management
- List of implemented ecosystem/habitat restoration and conservation activities
- List of developed livelihood practices



## Transboundary Biodiversity Landscape Collaboration between Thailand and Cambodia

- Agreed draft MoU on Cooperation on PA Management and Biodiversity Conservation of TBL between Thailand and Cambodia
- Framework for managing transboundary functions under MoU including action plan
- Study visit of Thai Delegation to Cambodia
- Exchange visit or on-job training for Cambodian officials for building capacity





- Project duration : (24 Months) December 2014 – November 2016 ,  
– extension 30 June 2017 : Total 28 months

## Major Tasks

- Project Opening Event
- Green freight technology and Financial Workshop
- Eco driving training
- Green Freight technology testing
- Backhauling management
- Project Closing Event

# 2016 Achievements

## Project Opening Event

6 March 2015



More than 200

persons from

relevant agencies

- Government agencies
- Transport companies
- Financial support organisations



Opening remarks By Mr. Arkom Termpitayapaisit,  
Minister of Transport

Opening remarks By Mr Yasushi Negishi,  
Country Director

Thailand Resident Mission ADB

# 2016 Achievements



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## Green Freight Technology and Financial workshop



The financial support is one of the key factors for GFT implementation, especially for SME

Summary the financial model for all Selected 4 Green Freight Technologies

13 November 2015

- SME Trucking/ Logistics companies,
- Financial institutions,
- Private Banks,
- Government agencies,
- Green Freight Technology Suppliers

No.	GFT	% Saving	Investment (THB)	Payback (Year)	remark
1	Advanced Vehicle Aerodynamics	8%	120,000	1.54	Only head and side skirting
2	Low Rolling Resistance Tire	6.85%	63,000	0.95	Radial to Energy Tire
3	Air suspension with axial lifter for diesel engine	0.06 (L/Km)	90,000	0.54	Only empty Backhauling
4	Computerized vehicle routing and scheduling (GPS)	5%	22,200	0.46	Has an annual service fee for cellular

# 2016 Achievements

## Eco driving training

Practical Training time is about 200 minutes, 5 Trucks, 20 Truck Drivers and 2 Driver trainers per day or 5 days period

- **Eco-driving** training had been conducted by Ruamkit Rung Ruang Service Co. Ltd in Chonburi dated 7,9,10,16,17 July 2016.
- **Eco-driving** training **having 2 sections: theory and Practice**
- The driving result was collected to compare with the **post-test** after **they learnt** the Eco driving theory





# 2016 Achievements



## Green Freight technology testing

### Summary GFT testing result

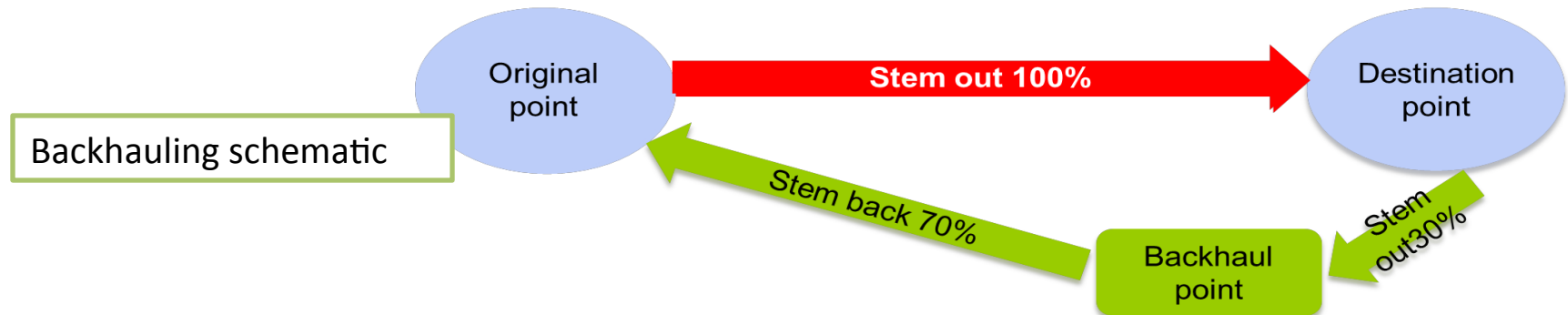


	Theory	Actual
Advanced Vehicle Aerodynamic	18-22%	15.65%
<ul style="list-style-type: none"> <li>■ Tractor Aero</li> <li>■ GAP –Under Testing</li> <li>■ Under Run Skirting 3.0-3.8%</li> <li>■ Back Frame Extension 4-6%</li> </ul>		1.5-2.5% 1.0-2.0% 3.0-3.8% 4.5-6.0%
Rolling Resistance Tire – Energy Tire	7.5%	6.2-7.3%
Air Suspension	No official test 0.06 L/km	1.80-2.11%
GPS Tracking (Speed and Engine Idle)	5-15%	5%

# 2016 Achievements

## Backhauling management

**Conducted** a study to understand the reasons for empty backhaul in one region by working with freight companies and relevant experts (i.e. universities, associations) to identify company solutions.



### Empty Backhauling management result

Testing Result 1<sup>st</sup> Company : 83% Trip can be used, Recover 70% of distance

Testing Result 2<sup>nd</sup> Company : 70% Trip can be used, Recover 80% of distance

Trucks in 2016 = 1,042,371 Trucks in the market

Assumption 50% of Trucks can used Backhaul system

Truck using 90,000 Km./Year

Distance -Trip : 25%

# 2016 Achievements



## Project Closing Event

25th May 2017



Opening speech by  
Mr. Chaiwat tongkumkoon  
Director of OTP



## 3 panels discussion

- 1 : Green freight for Thai logistic to international
- 2 : Green freight for logistics business in wealthy and sustainability
- 3 : Green freight Technology in depth



**Participation: 155 persons**

- SME Companies
- Government agencies
- FTI and consultant



# Challenges and Opportunities

## Challenges

- Number of Trucks **registered** in 2016 = 1,042,371
- Testing results **show** a lot of **chances** to improve energy consumption in Freight activities especially in GMS country
- Backhauling management is the most difficult part but can be **improved** with big support from government
- **Eco-driving** is mainly **dependent** on driver behavior
- Green Freight Technology is one of the most easy **parts** but **needs** more support budget



Next phase : develop proposal to submit for Green Climate Fund (CGF)

Opportunities

### 3. Establishment of the Steering Committee

- ❖ Thailand established Steering Committee instead of National Support Unit (NSU)
- ❖ Deputy of Permanent Secretary of Ministry of Natural Resources and Environment is the Chair of the Steering Committee
- ❖ Representatives from the related organizations on environment are members of the **Committee**
- ❖ Director of Office of the International Cooperation on Natural Resources and Environment is the Committee's secretary

## 3. Established the Steering Committee

- ❖ Roles of the Steering Committee
  - Provides guidelines and follows up the implementation of the CEP projects.
  - Integrates the National Plan into Thailand's CEP projects.
  - Builds up capacity of the staff
  - Organizes preparatory meetings prior to sending staff to attend such GMS meetings as GMS EMM5, AM WGE and CAM WGE

# Key priorities for 2016

- ❖ Preparation for Hosting 5<sup>th</sup> Greater Mekong Subregion Environment Ministers' Meeting (GMS EMM5)
  - Already acknowledged by Thailand's cabinet
  
- ❖ Strengthening capacity of the steering committee
  
- ❖ Setting up the work plan in the topic of implementation of the environment in each Thailand's CEP project

# Key priorities for 2016

- ❖ Integration of the national planning (long period and short period) into Thailand 's CEP project.
- ❖ Effectively **linked** WGE to other working groups such as Working Group on Agriculture & Working Group on Tourism.



# 2017 Deliverables

- ❖ Steering Committee Meeting 1/2017 held on 16 March 2017.

Discussion on related matter about the preparation for GMS EMM5 in Thailand such as date and time, venue, theme and pattern of meeting for 1<sup>st</sup> task force of GMS EMM5 in Thailand.

# 2017 Deliverables

❖ Steering Committee Meeting 2/2017 held on 16 March 2017 held on 4 July 2017.

Discussion on Thailand's position for **attending** The 23<sup>rd</sup> GMS WGE and 2<sup>nd</sup> Task force for GMS EMM5.

❖ Steering Committee Meeting 3/2017 **will be held** in September or October before 3<sup>rd</sup> Task force of GMS EMM5.