

Strengthening Lao PDR's institutional capacity to comply with the Enhanced Transparency Framework under the Paris Agreement

Achievements and Experiences

22 April 2024

Contents:



Background



Project status



Gaps and Challenges



Next steps

1. Background

Project Information

- GEF Project ID: 10039
- GEF Project Financing: \$ 1,210,000 (co-financing \$150,000)
- Submission date: 3rd June 2019
- Project Duration: 36 months
- Implementing Agency: UNEP
- Executing Agency: Department of Climate Change, MONRE

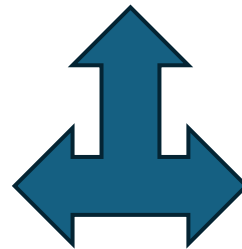
1. Background

Project Objective

Strengthen Lao PDR's national capacity to track progress against actions identified in its NDC for domestic and international reporting requirements under the Enhanced Transparency Framework of the Paris

Project Components

1. Strengthening of Lao PDR's Transparency Framework for Mitigation



2. Strengthening of Lao PDR's capacity to monitor and report on means of implementation

1. Background

COMPONENT 1:

Output 1.1: Gap analysis of the institutional arrangements and capacities to comply with the ETF is carried out.

Output 1.2 Institutional mechanism for inter-ministerial cooperation on systemizing data collection and processing is established and formalized

Output 1.3: National GHG database management system is developed

Output 1.4: Development of Activity Data for Non-Co2 gasses inventory from biomass burning at national scale

Output 1.5 Sector-specific toolkits, and consistency guidelines to facilitate data collection and reporting

Output 1.6: Short courses at the National University of Laos are established and training to relevant staff in line ministries and agencies provided

Output 1.7 Regional cooperation and knowledge-sharing activities on transparency are carried out

Output 1.8 Integrating GHG activity data into national statistic questionnaire

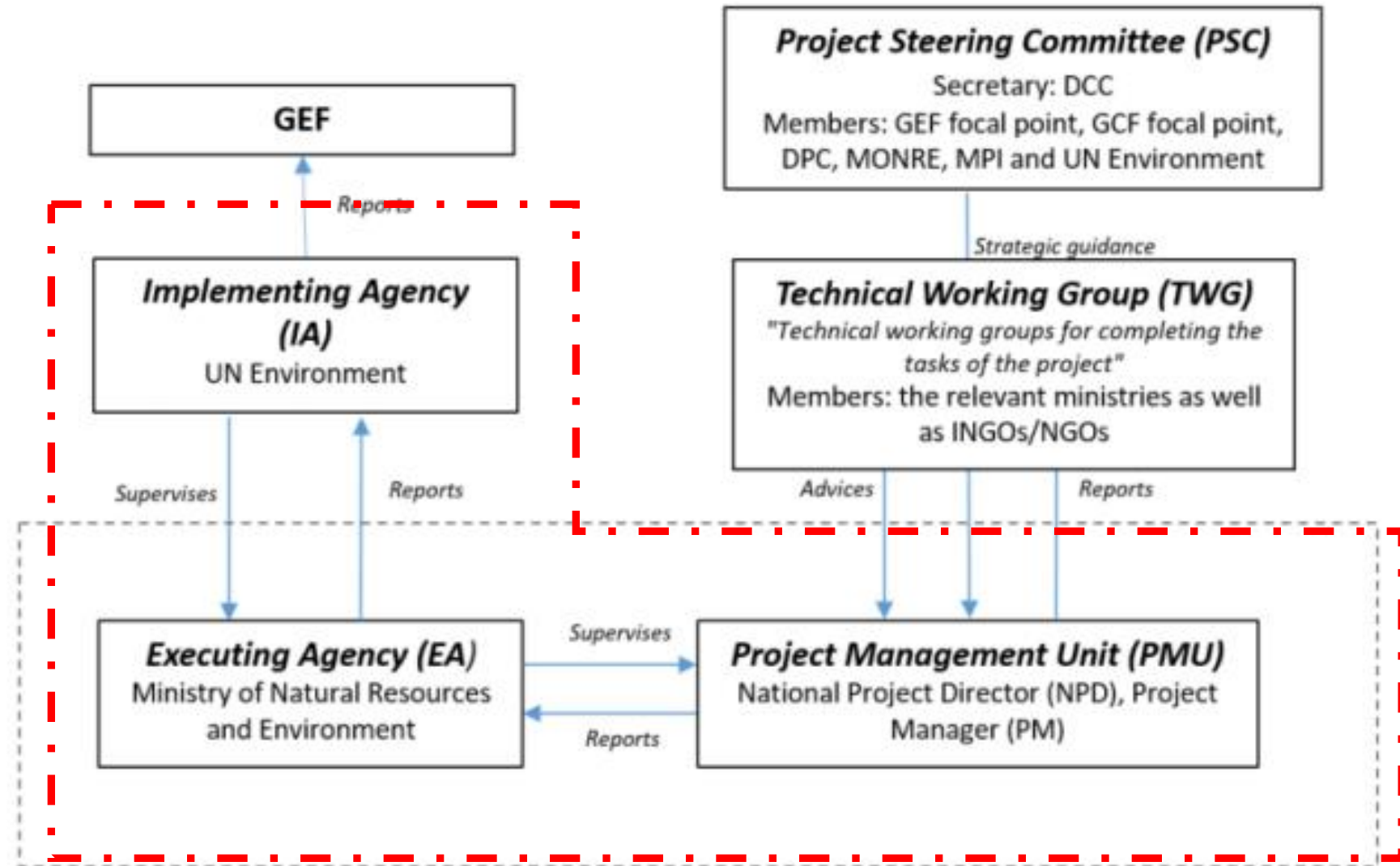
COMPONENT 2:

Output 2.1: Tracking system for support received, associated with the implementation of Lao PDR's NDC established

Output 2.2 Training for public institutions on reporting climate finance

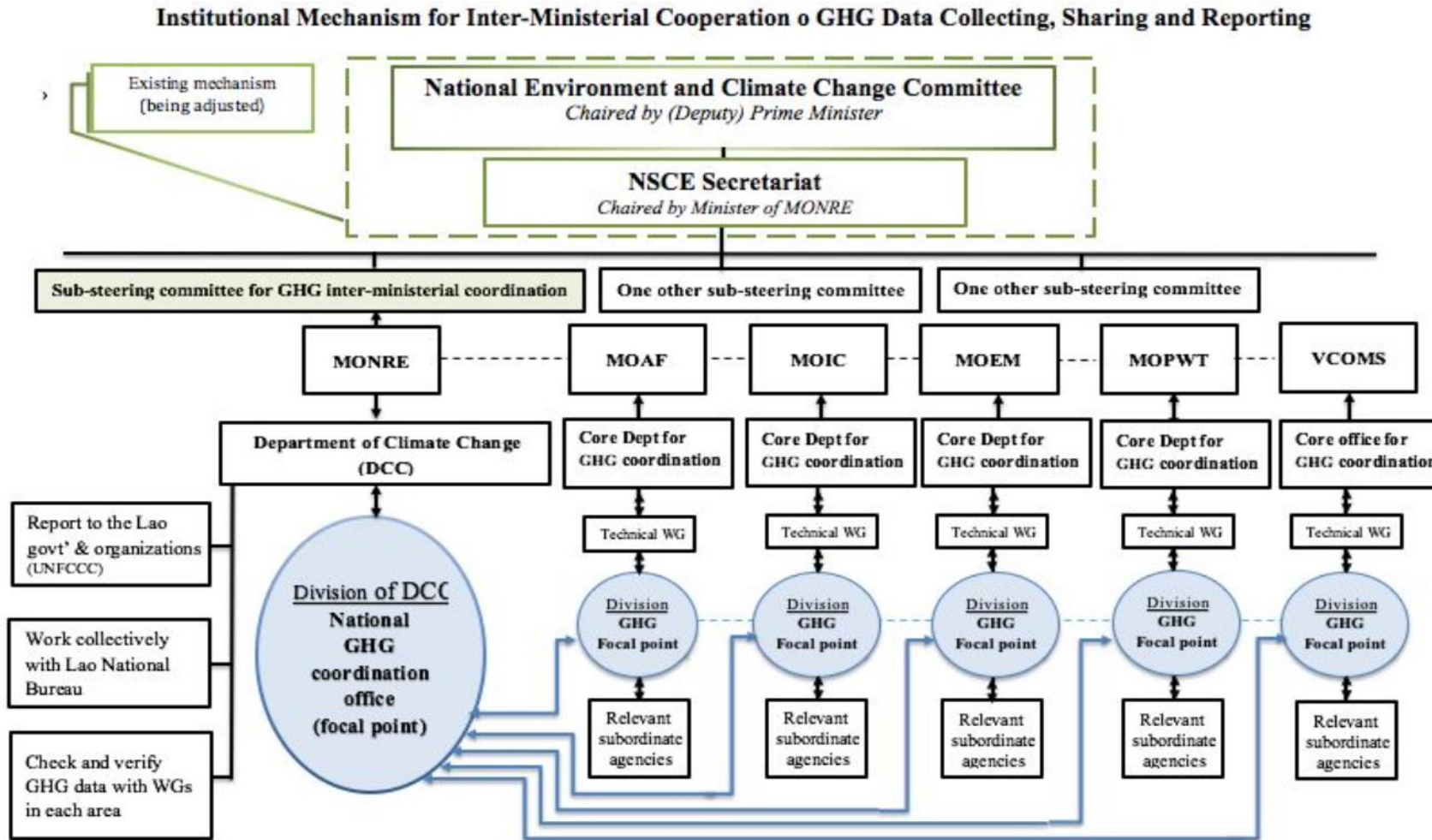
Overall Project implementation arrangements

1. Background



2. Project Status

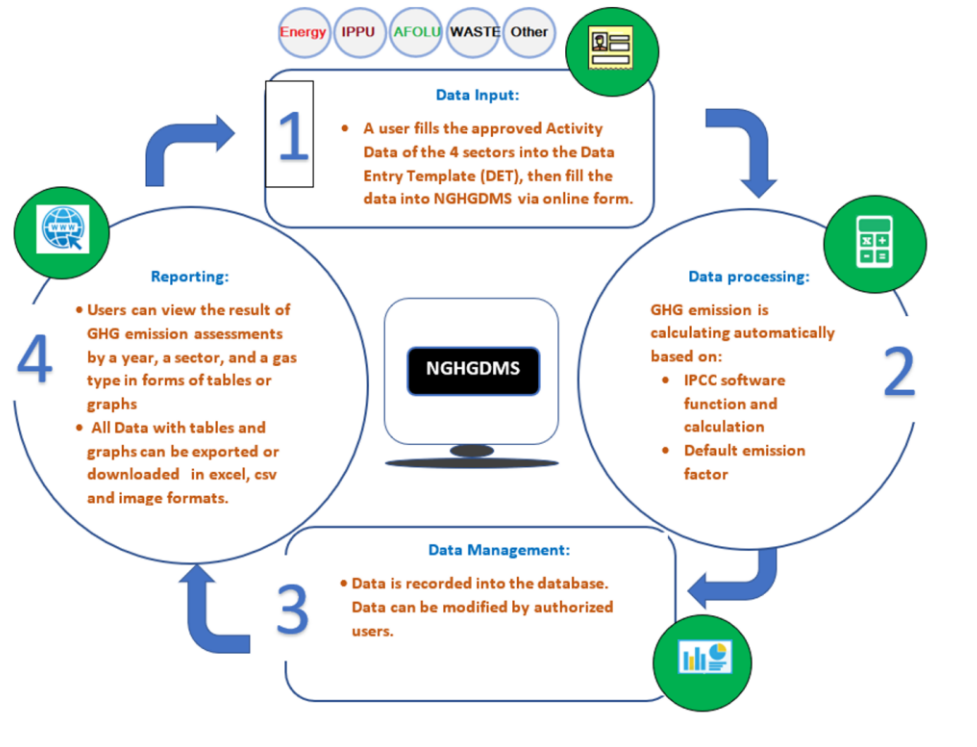
Overview of Institutional Mechanism (draft)



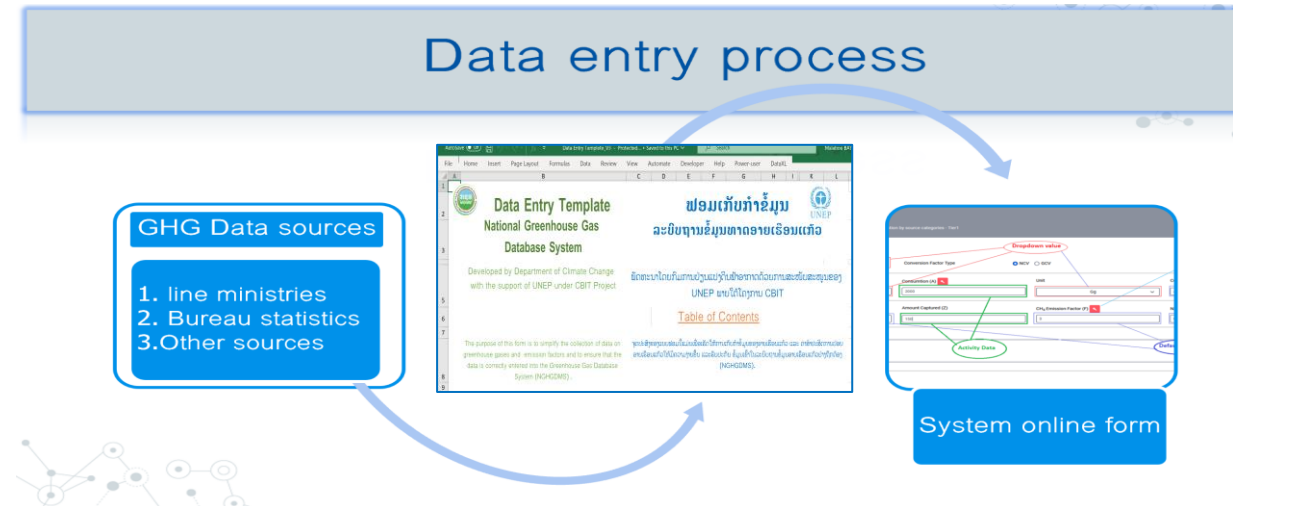
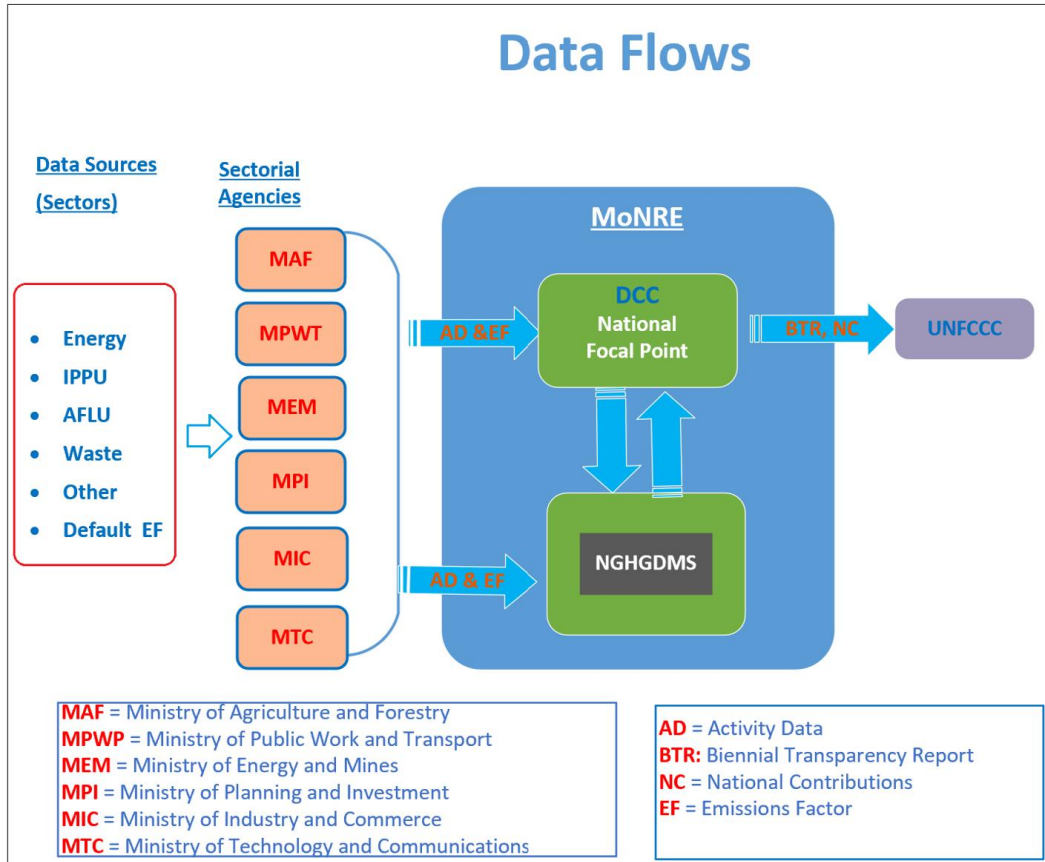
National Greenhouse Gas Database Management System (NGHGDMS)

The design and development of the NGHGDMS system is based on:

- IPCC Software Technology and IPCC 2006 Guidelines (based on Tier1);
- Best practice from the GHG systems of other countries such as: Thailand, Indonesia and Australia;
- Consultation workshop with line ministries, the Department of Climate Change and national MRV experts on the design option;
- The system designed and developed in 2022-2023



Data flows and data entry process



NGHGDMS
National Greenhouse Gas Database Management System

Dashboard showing various reports and charts:

- รายงานข้อมูลรายปี
- รายงานข้อมูลรายภาค
- รายงานข้อมูลรายจังหวัด
- รายงานข้อมูลรายสาขา

Legend for GHG emissions:

- CO2
- CH4
- N2O
- HFC
- PF3
- PF6
- SF6

Main System functions

1: Home page management

- Slider image
- News and Events
- Document management

2: User management

- Create a new user and their access privilege
- User view and update

3: Sectorial management (DATA Entry)

- Energy
- IPPU
- AFOLU
- Waste
- Others

4: Report

- By Summary
- By Sector
- By main Category(CO2,CH4, N2O)
- By top CO2 emission

5: Inventory Year

- Create a new Inventory Year
- Inventory Year Management

- FRONT-END MANAGEMENT
- USER MANAGEMENT
- GHG SECTORS
- REPORTS
- INVENTORY YEAR

Categories	Emissions (Gg)							
	CO ₂	CH ₄	N ₂ O	NO _x	CO	NMVOcs	SO ₂	
1 - Energy	1,765.898	386.493	1,904.064	0.000	0.000	0.000	0.000	
1.A - Fuel Combustion Activities	1,171.820	0.489	0.064	0.000	0.000	0.000	0.000	
1.A.1 - Energy Industries	1,171.820	0.489	0.064	0.000	0.000	0.000	0.000	
1.A.1.a - Main Activity Electricity and Heat Production	1,171.820	0.489	0.064	0.000	0.000	0.000	0.000	
1.A.1.a.i - Electricity Generation	1,171.820	0.489	0.064	0.000	0.000	0.000	0.000	
1.A.1.a.ii - Combined Heat and Power Generation (CHP)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
1.A.1.b - Petroleum Refining	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
1.A.1.c - Manufacture of Solid Fuels and Other Energy Industries	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
1.A.1.c.i - Manufacture of Solid Fuels	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
1.A.2 - Manufacturing Industries and Construction	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Two short courses on GHG inventory and Measurement, Reporting, and Validation



Two short course training Material GHG and MRV

ຫຼັກສູດຝຶກອົບຮົມ

ກ່ຽວກັບ

ລະບົບການວັດແທກ, ການລາຍງານ ແລະ ການ
ຢັ້ງຢືນ MRV ສໍາລັບ ສປປ ລາວ



MEASUREMENT



REPORTING



VERIFICATION



GHG REDUCTION

ຮຽນຮຽງໂດຍ: ຄະນະວິທະຍາສາດສິ່ງແວດລ້ອມ
ມະຫາວິທະຍາໄລແຫ່ງຊາດ

ກໍລະກົດ 2023

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ຫຼັກສູດຝຶກອົບຮົມ

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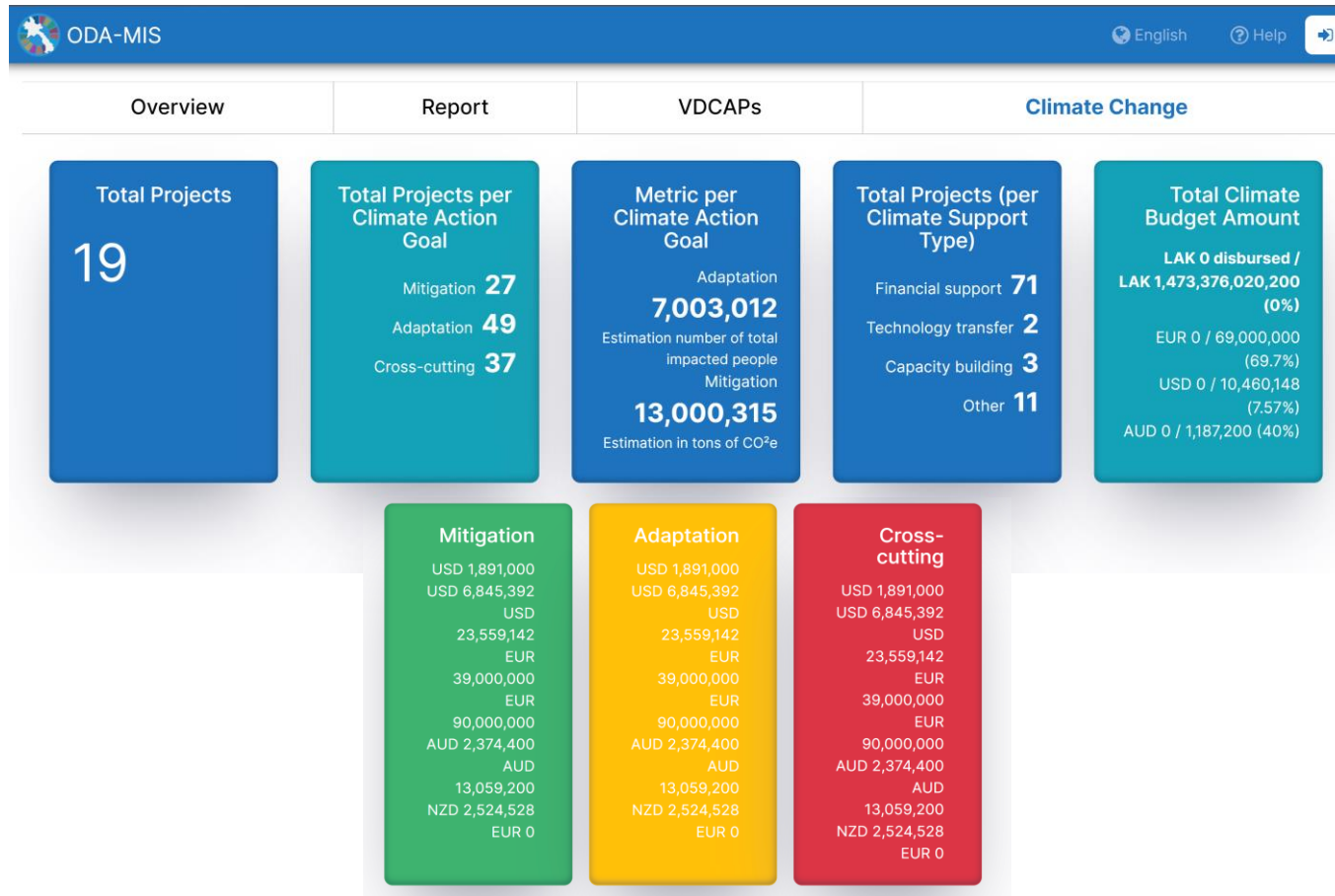
ການສໍາຫຼວດ ແລະ ສ້າງຖານຂໍ້ມູນທາດອາຍເຮືອນ
ແກ້ວ ຂອງ ສປປ ລາວ



ຮຽນຮຽງໂດຍ: ຄະນະວິທະຍາສາດສິ່ງແວດລ້ອມ
ມະຫາວິທະຍາໄລແຫ່ງຊາດ

Collaboration with the Faculty of Environmental Science,
National University of Laos

Tracking on Climate Finance in Public sector



- Programme/ Project Description.
- Recipient Entity.
- Implementing Agency.
- Financial instrument.
- Type of support (climate change mitigation, adaptation, or cross-cutting).
- whether it is financial support, technology transfer, and/ or capacity building.
- The share of climate change relevance (in percent) of the project. The rio marker is recommended as a tool for defining the share of climate change relevance.

Link to website "<https://oda-mis.gov.la/#/dashboard/climate-change>"

Capacity Building related to NGHGDMS, Climate Finance tracking, and GHG inventory and MRV

- TOT and User Training workshops on national GHG database management system
- Training on GHG inventory and Measurement, Reporting, and Validation
- Training on Climate Finance tracking
- Training on Integrating GHG activity data into national statistic questionnaire forms



3.Gaps and challenges

- ❑ Due to the Covid-19 and protection rules and take time to find the national experts and international experts
- ❑ Gaps in institutional arrangement: The institutional mechanism for inter-ministerial cooperation on systemizing GHG data collection, sharing, and reporting and climate finance tracking (inadequate expertise ghg data providers from line ministries, arranging the restructure organization and changes staffs, unclear responsibility)
- ❑ Sectors have a specific data base system and limited national specific emission factors.
- ❑ Lack of knowledge and expertise on GHG inventory on planning, assessment, QA and QC data, reporting according UNFCCC.

4.Next Steps

- ❑ Improving knowledge and expertise on GHG inventory on planning, assessment, QA and QC data, reporting according UNFCCC procedures.
- ❑ Strengthening the capacity building for institutional mechanism on ghg data collection, sharing, and reporting focus on specific sectors on IPPU, Energy, Waste, and AFOLU.
- ❑ The CBIT Laos project will end in June 2024-project impacts assessment and a sharing regional workshop to be conducted before June 2024.
- ❑ Preparation CBIT phase II –MRV system: GHG inventory, NDC tracking, Climate Financial tracking, climate vulnerability, national specific emission factors (Energy, IPPU, and waste), improving the NGHGDMS (modify/remove unnecessary subcategory)

Thank You for your attention