

**Action and  
training plan –  
building  
climate modelling  
capacity**

**Initiative for Climate Action Transparency – ICAT  
Action and training plan – building climate modelling capacity**

**Deliverable E**

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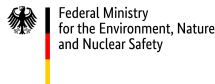
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## Introduction

Through the Initiative for Climate Action Transparency (ICAT) Liberia Project a Climate Modelling and training plan has been developed. The development of the Climate modelling action and training plan is geared towards developing short, medium and long term capacities at the EPA and the University of Liberia for applying the selected models for policy impact assessment and NDC tracking. The plan takes account the next NDC update in 2025 as an end point and work backwards in identifying the concrete steps that will be required to enable technicians to conduct the modelling work for the 2025 NDC revision.

Preceding the development of this climate modelling action and training plan the Environmental Protection Agency of Liberia with technical support from Initiative for Climate Action Transparency (ICAT) developed a conceptualize framework for conducting a webinar series on ICAT sustainable development methodologies which included amongst others the introduction of climate methodological tools/MODELS like GACMO, LEAP, and TRACE, etc. which gives a perspective on the scope and functionality within the Liberian context of Policy Development and NDC tracking.

The training targeted EPA technicians, other experts and stakeholders from NDC sector institutions as well as academic scholars who are involved with policy impact assessments, NDC implementation, etc.

Already, the skills acquired from the Climate Modelling training series are being applied for NDC tracking tools development for the Energy, Waste and Transport sectors using the GACMO model.

## Key considerations of the climate modelling action and training plan

The climate modelling action and training plan considers the following core elements:

- Action step/what needs to be done
- Responsible Person(s) (Who Should Take Action to complete this step)
- Deadline (When should this step be taken)
- Necessary Resources (What is needed to complete this task?)
- Potential Tasks
- Result (What is the expected result?)

## Annex 1

The following table presents the action and training plan on building climate modelling capacity.

Action Step What needs to be Done	Responsible Person (Who should take action to complete this step)	Deadline (When should this step be taken)	Necessary Resources (What is needed to complete this task)	Potential Tasks	Result What is the expected result from this action?
Sector Based Application of the GAMCO Model in GHG Estimation, Calculation and Analysis	Government Line Ministries and Agencies including the EPA	2022- 2023	The full involvement of NDC sector experts who were trained through the GACMO Climate Modelling tool	<ul style="list-style-type: none"> <li>• Conduct training of trainers session at NDC sector, through NDC sector hubs at the Ministry of Transport, Ministry of Mines and Energy, Monrovia City Corporation including other line Ministries and Agencies</li> <li>• Practical application of training on GACMO in GHG estimation, calculation for waste, transport and energy sectors</li> </ul>	NDC sectors will continuous apply the GAMCO model in carrying out GHG estimation, calculation and analysis

<b>Action Step</b> <b>What needs to be Done</b>	<b>Responsible Person</b> <b>(Who should take action to complete this step)</b>	<b>Deadline (When should this step be taken)</b>	<b>Necessary Resources (What is needed to complete this task)</b>	<b>Potential Tasks</b>	<b>Result</b> <b>What is the expected result from this action?</b>
Using the GACMO Model to develop NDC Tracking tools for the Energy, Waste and Transport sectors	EPA	January- June 2022	ICAT Liberia Project	<ul style="list-style-type: none"> <li>• Development of NDC Tracking Tools using GACMO, model</li> <li>• Use default values for Liberia in developing NDC Tracking tools using GACMO for the Energy, Waste and Transport sectors</li> </ul>	NDC Tracking tools are developed for three NDC sectors (Energy, Waste, and Transport)
Train Sector Experts on the application of the NDC Tracking tools	EPA Liberia, involving government line Ministries and Agencies such as- MME, MFDP, MOT, MCC, PCC, LISGIS, MPW, UL	June 2022	ICAT Liberia Project	<ul style="list-style-type: none"> <li>• Development of a Training Manual on NDC Tracking</li> <li>• Development of a Narrative explaining the NDC Tracking tool for persons who don't have technical knowledge applied in the NDC tracking</li> </ul>	NDC sector experts are trained on applying the NDC Tracking tools

<b>Action Step What needs to be Done</b>	<b>Responsible Person (Who should take action to complete this step)</b>	<b>Deadline (When should this step be taken)</b>	<b>Necessary Resources (What is needed to complete this task)</b>	<b>Potential Tasks</b>	<b>Result What is the expected result from this action?</b>
				tool development. <ul style="list-style-type: none"> <li>• Development of a Concept Note and Training Agenda</li> <li>• Training of sector experts on the application of the NDC tracking tools</li> </ul>	
Integrate NDC Indicator sets into the Environmental Knowledge Management System and Liberia’s GHG/MRV System	EPA	June- December 2022	ICAT Liberia Project funding which is readily available	<ul style="list-style-type: none"> <li>• The NDC indicators are integrated into the EKMS/GHG/MRV System of Liberia to enable indicator inputs, outputs, activities, and outcomes</li> </ul>	NDC Indicator sets are integrated into the Environmental Knowledge Management system and Liberia’s GHG/MRV System
Apply GACMO Model for GHG/emissions calculations for the National Communications (NCS),	EPA with other NDC sectors	Ongoing	External sources such as UN Environment	<ul style="list-style-type: none"> <li>• National experts will apply GACMO Model in the application</li> </ul>	National sector experts will continue to apply GACMO model on GHG emissions calculation for National

<b>Action Step What needs to be Done</b>	<b>Responsible Person (Who should take action to complete this step)</b>	<b>Deadline (When should this step be taken)</b>	<b>Necessary Resources (What is needed to complete this task)</b>	<b>Potential Tasks</b>	<b>Result What is the expected result from this action?</b>
Biennial Transparency Reports(BTRs)				of GHG estimation to inform NCs, BTRs and other transparency elements of the Paris Agreement	reporting and Transparency elements of the Paris Agreement

- EPA - Environmental Protection Agency of Liberia
- LISGIS - Liberia Institute for Statistics and Geoinformation Services
- MCC - Monrovia City Corporation
- MFDP - Ministry of Finance and Development Planning
- MME - Ministry of Mines & Energy
- MOPW - Ministry of Public Works
- MOT - Ministry of Transport
- PCC - Paynesville City Corporation
- UL - University of Liberia