Greenhouse Gas Mitigation Modelling Tools Webinar Series 2023

Session 2: Basics of the Greenhouse Gas Abatement Cost Model (GACMO)

31 May 2023, Wednesday, 10:00 AM -11:30 AM AST

Background:

In this second session of the series, we provide an overview of GACMO which is a greenhouse gas modelling tool developed under the UNEP Copenhagen Climate Centre.

The GACMO model has been developed through more than 20 years of research at UNEP Copenhagen Climate Centre, and has been used to prepare National Communications, Biannual Reports, and Nationally Determined Contributions (NDCs) to the Paris Agreement. The model supports countries with increasing transparency and analysing GHG mitigation options to fulfil these reporting requirements.

Some Caribbean countries have received training and used the GACMO model to develop outputs such as their NDCs. This is one of the more popular choices for countries in the region due to its ease of access/wide availability, high level of disaggregation and suitability for a developing country context as indicated by literature.

A spreadsheet ("GACMO Model") can be downloaded from this site. The model contains 40 sheets. Using the newest data on energy consumption of fossil fuels and electricity, divided into sectors, the model calculates the greenhouse gas emissions for a "start year", with growth factors for each sector and a baseline for Business-As-Usual scenarios until 2025, 2030, and 2050.

This session is brought to you by the Modelling & Projections Programme of the Caribbean Cooperative Measurement, Reporting and Verification (MRV) Hub, in collaboration with the UNEP Copenhagen Climate Centre, GACMO developers.

Objectives:

This session will present a detailed look into the capabilities of the GACMO model. Through this session, participants shall gain a deeper understanding of the steps required to use the GACMO model.

The session will focus on:

- Capabilities and functions of GACMO as a modelling tool
- Key features of GACMO model, recent & potential upgrades
- Data and other requirements for usage of GACMO
- Worked exercise of model use

Target audience:

- Decision-makers in climate change divisions
- Officers focusing on climate change mitigation
- GHG inventory coordinators and developers

- Academics involved in climate change mitigation planning topics and other interested parties.
- Planners involved in the Energy sector, Agriculture, Land Use, Land Use Change and Forestry (LULUCF) Waste and Industrial Process & Product Use (IPPU) sectors with interest in understanding climate change actions and their impacts in the respective sectors.

All Participants are welcomed, but the major focus will be on the Caribbean region.

Registration:

Registration closes 29 May 2023 at 4:00 PM AST using the link below:

REGISTER HERE

Structure and content of the virtual webinars:

Each session features three main stages which feature the following:

- **Pre-webinar preparation**
  - Upon registration, participants will receive a webinar agenda and Zoom link to access the session.
  - A copy of the GACMO spreadsheet can be accessed through the following link: https://unepccc.org/gacmo-tool/
- **Webinar (90 minutes)**
  - Presentation on the GACMO model capabilities and functions, key features, data requirements, and a worked example of its usage
  - Question and answer segment where participants are allowed to engage experts on the presentation content and make suggestions for future webinar content.
- **Follow-up stage**
  - Participants are asked to provide feedback on the webinar content, approach, and execution using a feedback form which will be sent via email. Furthermore, participants will be encouraged to discuss follow-up questions or further topics of interest by communicating directly with the MRV Hub Secretariat via email.

The virtual seminar will be conducted via ZOOM Meetings.

Tentative webinar agenda:

10 min	**Introduction** *by Donnie Boodlal* - *Opening, objectives, engagement rules, presenter introductions*
30 min	**Overview of the Greenhouse Gas Abatement Cost Model (GACMO)** *by Aiymgul Kerimray, Mitigation Specialist: UNEP Copenhagen Climate Centre* - *Model capabilities & functions, key features and data requirements*
30 min	**Demonstration of GACMO spreadsheet** *by Aiymgul Kerimray, Mitigation Specialist: UNEP Copenhagen Climate Centre* - *Input data* - *Model results*

15 min	**Q & A session** *with the participants*
5 min	**Closing & introduction to next session**