



Modelling and Projections Programme (MPP)

Caribbean Cooperative
MRV HUB
Measurement Reporting & Verification

Fourth Annual Meeting
11-12 May 2022
St George's, Grenada
Benise Joseph

Supported by:



Federal Ministry
for the Environment, Nature Conservation
and Nuclear Safety



Empowered lives.
Resilient nations.



GLOBAL SUPPORT
PROGRAMME

based on a decision of the German Bundestag

The CCMRVH is part of the International Climate Initiative (IKI). The Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) supports this initiative on the basis of a decision adopted by the German Bundestag, with additional resources and technical support provided by the UNDP/UNEP Global Support Programme.

Presentation Outline

Overview on MPP

MPP Accomplishments

Overview of Virtual LEAP Training Course

Future MPP Outlook

The Modelling & Projections Programme – Overview

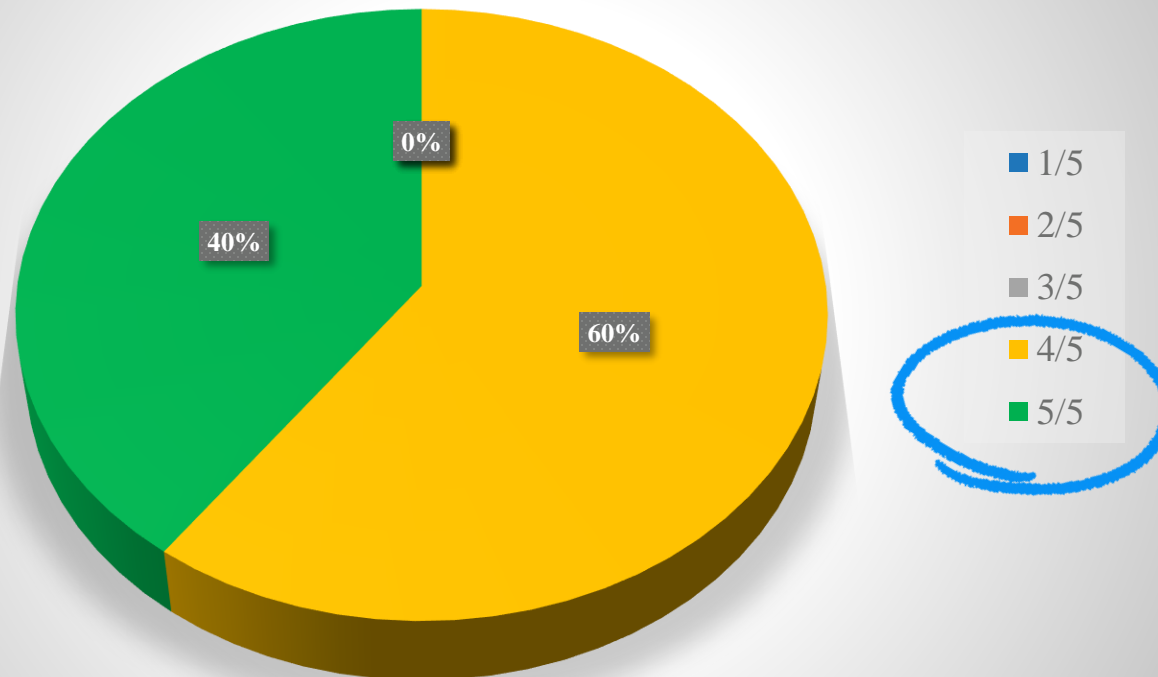
- Launched: 2021
- Key focus areas:
 - **Capacity building in the region:** Education and Awareness on the importance of modelling and projections in the region
 - Mitigation Analysis
 - Updating & tracking NDCs
 - Long-term low emission development strategies (LT-LEDS)
 - **Identification of Gaps and Needs:** The major barriers and challenges for the region as it relates to modelling
 - **Providing Mitigation Analysis services to countries:** To aid their completion of NDCs, BTR's, LT-LEDS



of the MPP

GHG Mitigation Modelling Tools Introduction Webinar Series (April–July 2021)

Please rate the overall quality of the webinar:



Introduction to the MRV Modelling and Projections

GHG Mitigation Modeling tools Introduction Webinar Series 2021



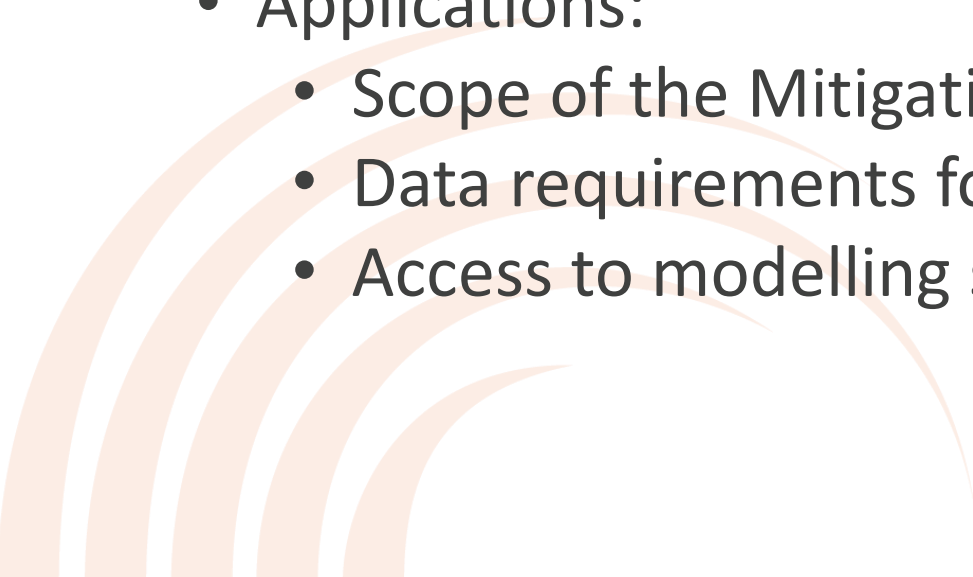
Accomplishments of the MPP

GHG Mitigation Modelling Tools Introduction Webinar Series (April – July 2021)

- 1 Introduction to Modelling & Projections Tools
- 2 Introduction to Greenhouse Gas Abatement Cost Model (GACMO)
- 3 Introduction to LEAP (Low Emissions Analysis Platform)
- 4 Introduction to PROSPECTS+
- 5 Comparison of GHG Modelling & Projections tools and guidance for selection
- 6 Introduction to FAO suite of tools for modelling and projection of GHG emissions in AFOLU sector
- 7 Introduction to REmap tool




Accomplishments of the MPP

Modelling Tool Selection Guidance Document

- Excel Workbook which compares LEAP, GACMO & PROSPECTS+
 - Geared toward Decision Makers for climate mitigation
 - Applications:
 - Scope of the Mitigation Analysis
 - Data requirements for the software
 - Access to modelling software
- 

Accomplishments of the MPP

Snapshot of Modelling Tool Selection Guidance document

FUNCTIONALITY	  			LEGEND for this TAB Typical Data Inputs Available in Modelling tool Database User Defined - Depending on the type of model required Do not necessarily require input from users as they can be acquired in the modelling tools or via established links to other websites		Method: Group Quantitative Weighing 04-M-21 User Input Rankings from 1-3 User Input Intensity Weighings User Input Notes See Rankings Legend Below Table Must add up to 100 As applicable							
					Modelling Tool - Input Data Comparison		AREAS ASSESSED (Based on Specific Project Needs) INTENSITY WEIGHTINGS						
	GACMO	PROSPECTS	LEAP	ID	GACMO	PROSPECT +			GACMO	LEAP	PROSPECTS + (with published add-ons)	NOTES - Based on co	
Coverage of emission sources	High-level	Mid / High-level	More detailed, particularly for energy sector										
Breadth/ granularity of technology	Mid breadth / limited granularity	Low-Mid	Low to high (user defined)										
Sectoral Interlinkages	No	Energy supply and demand	Energy and some material flows										
Temporal granularity	2020, 2025, 2030, 2050	Annual to 2050	Annual, unlimited timeframe. Within-year breakdown for seasonal and hourly variations.										
Representation of costs	Yes (limited variation over time)	No	Yes (annual variation)										
Optimisation functionality	No	No	Within electricity supply sector										
Summary	Low	Low	Mid										
					Demographic Data (historical and projected population size)		Demographic Data (historical and projected population size)						
					Macroeconomic Data -local currency -exchange rates -discount rate		Macroeconomic Data (GDP (historical and Projections))						
					Energy Balances		Energy Balances						
					Electricity Generation Data energy by fuel type and GHG emissions Generation and consumption data on each type of generator (solar, hydro) Grid Emission Factor		Electricity generation Data /Heat Generation electricity by generation by fuel type including renewables emission intensity for each fuel type electricity imports and exports						
					Losses		own use and losses						
									Emission Sources/Sectoral Coverage 12% 1-3 3 3 3				
									Granularity of Technology 12% 1-3 3 3 2				
									Temporal Granularity (Annual and Sub-Annual) 12% 1-3 4% 1 3 2				
									Cost Representation 12% 1-3 12% 3 3 1 4%				
									Assessment of non-climate SD Impacts 12% 1-3 4% 1 3 3				
									Accessibility 20% 1-3 20% 3 2 3				
									Reporting 20% 1-3 7% 1 3 2 13%				
									Weighted Suitability Score % (100%) 71% 93% 77%				

Accomplishments of the MPP

Mitigation Analysis Work



The Bahamas

St. Kitts and Nevis

Antigua and Barbuda (ICAT)

Saint Lucia

Work was also done supporting the CCREEE sponsored training in LEAP across the region

Overview of Virtual LEAP Training Course



Caribbean Cooperative MRV HUB
Measurement Reporting & Verification

ghg management institute

**THE MRV HUB PRESENTS:
VIRTUAL LEAP TRAINING COURSE**

Training Opportunity for Caribbean Professionals Involved in Climate Change Mitigation

- ✓ Hands on exercises
- ✓ Asynchronous recordings
- ✓ Live Q&A sessions
- ✓ 3 Comprehensive Modules
- ✓ 2 Knowledgeable Instructors
- ✓ 1 Amazing opportunity

Conduct Mitigation Assessments using the LEAP modelling software!
Learn LEAP from the comfort of your home!
Modelling & Projections made easy!

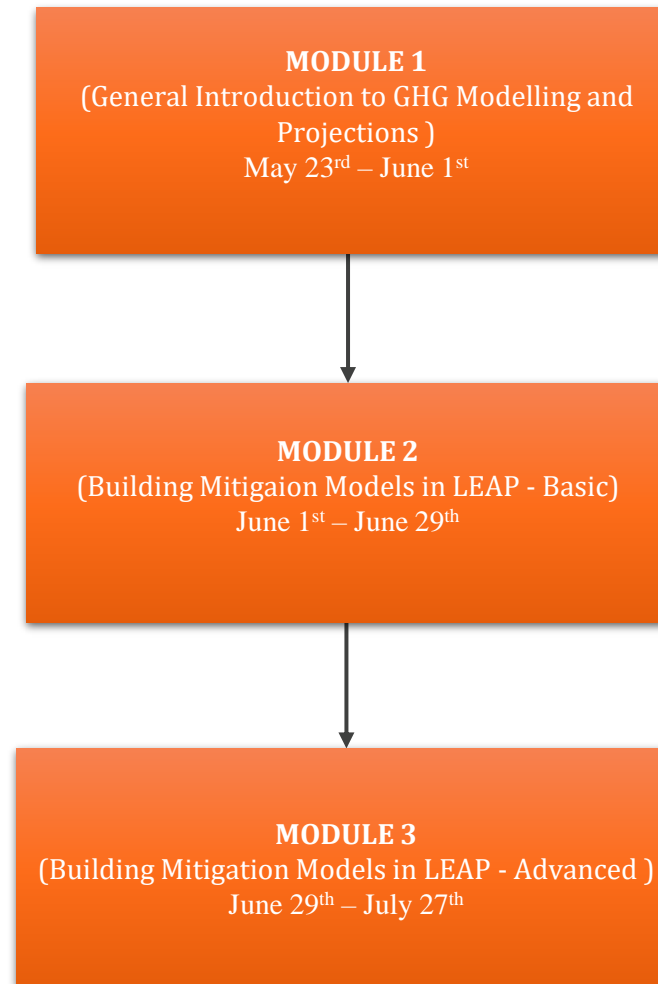
Relevant Dates:
NOMINATION DEADLINE:
APRIL 30TH 2022
REGISTRATION DEADLINE:
MAY 6TH 2022
COURSE DATES:
MAY 23RD - AUGUST 6TH 2022

How can I be nominated?
Contact your MRV Hub Focal Point or Ministry with responsibility for Environment within your country to express your interest in being nominated.

For More Information Contact:
info@mrvhub.org


Scan the QR Code to Register:

This course is brought to you by the MRV Hub's Modelling & Projections Programme with support from the Greenhouse Gas Management Institute (GHGMI) & the Stockholm Environment Institute (SEI).



Course Schedule

Module	Topic	Duration
Module 1	Welcome & Introduction to GHG Modelling & Projections	May 23 rd – June 1 st
Module 2	Building Mitigation Models in LEAP – Basic	June 1 st – June 29 th
Module 3	Building Mitigation Models in LEAP – Advanced	June 29 th – July 27 th
Closing & Certificates		July 27 th – August 6 th



Future Outlook: The Modelling & Projection Programme

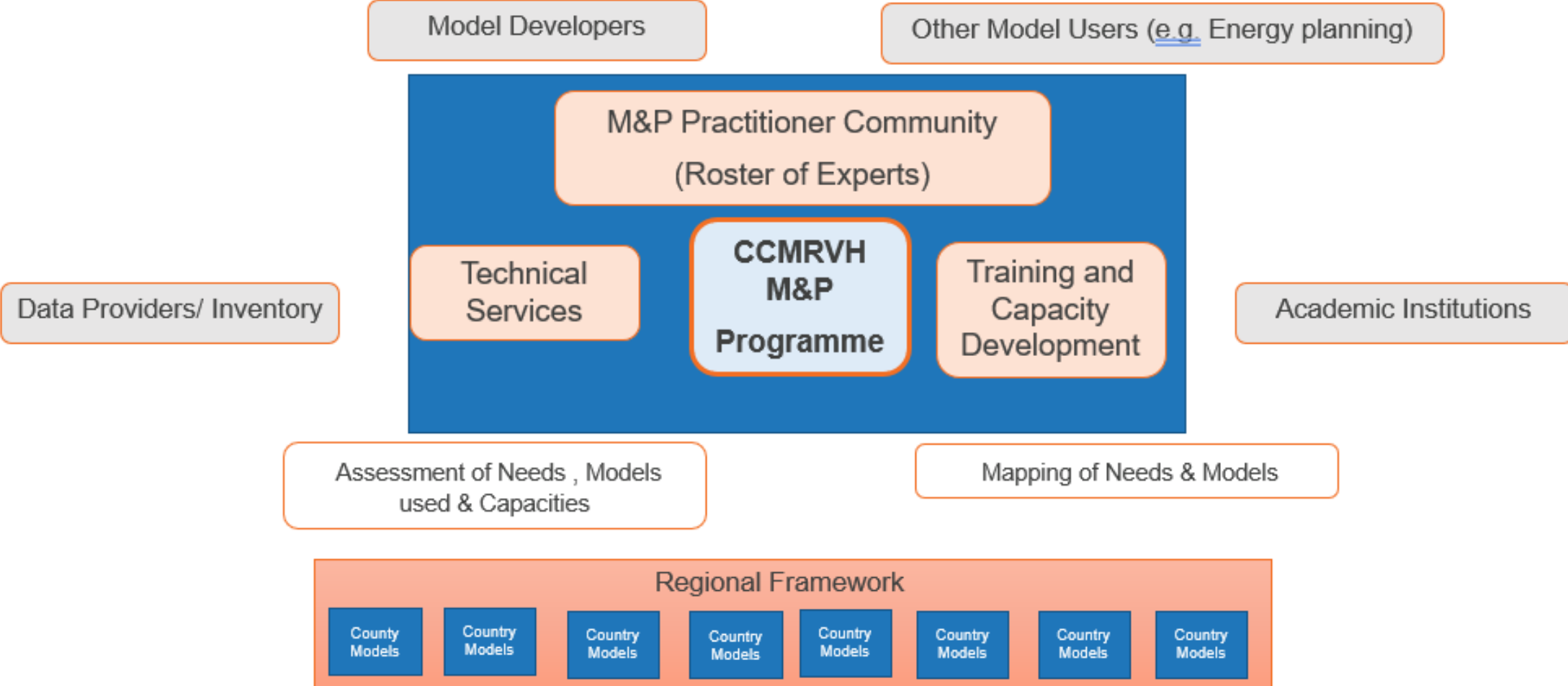
- ✓ Continuous development of training courses
- ✓ Continued education & awareness through various webinars
- ✓ Modelling & Projections Work Crew establishment
- ✓ Support to specific modelling project work in HUB Countries
- ✓ Modelling for Waste , IPPU & AFOLU Sectors



What does the future hold for the MPP?

- ✓ National and/or regional pooled technical experts for modelling NDCs, BTRs, Projects and others.
- ✓ Partnerships with other organisations, both regional and international.
- ✓ Development of guidance documents on data collection systems for modelling that will enhance MRV systems and enhance transparency.
- ✓ Provision of modelling & projections services to countries on a as needs-basis.
- ✓ Support to countries for mitigation assessments & analysis using the new Enhanced Transparency Framework (ETF) and Information for Clarity, Transparency and Understanding (ICTU) guidelines.

Future Outlook: The Modelling & Projection Programme



Thank You

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