



CARIBBEAN COOPERATIVE MRV HUB

Measurement • Reporting • Verification

Caribbean Cooperative Measurement Reporting & Verification Hub Report of the 4th Annual Meeting

May 11-12, 2022

An In-person-Virtual Hybrid Event
Royalton, Grenada



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The Caribbean Cooperative MRV Hub (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.

The 4th Annual Meeting was also made possible through the collaborative support of the UNFCCC Secretariat and the Transparency team.

Introduction

This report is a summary of the **4th Annual Meeting of the Caribbean Cooperative Measurement Reporting & Verification Hub (MRV Hub)**, which was held from 11-12 May 2022 in Grenada. The fourth annual meeting of the MRV Hub provided participants with an update on the current status of the MRV Hub, and a status report on its planned institutionalization. During the two-day meeting, MRV Hub staff facilitated an exchange of knowledge on climate MRV and transparency among Caribbean stakeholders. Attendees were provided an overview of the MRV Hub's achievements over the last year, as well as a summary of challenges and opportunities ahead. The MRV Hub staff provided updates on new hires and new initiatives, including the launch of the MRV Hub Summer Academy 2022, planned country-specific work streams, and the continued development of sector-specific work crews.

The annual meeting also served as an opportunity to hear priorities and to garner feedback and cooperative engagement with MRV Hub Member Country representatives. This report summarizes feedback received and includes presentations from Antigua & Barbuda, The Bahamas, St. Kitts & Nevis, and Dominica on on-going country-specific support received from the MRV Hub and its project implementation lead, the Greenhouse Gas Management Institute (GHGMI).

The meetings were attended by a total of 49 participants including representatives from MRV Hub Member Countries and implementing and organizational partners (See Appendix: Attendees). Highlighted slides from the two days of presentations can be viewed in [Appendix C](#), full slides can be accessed [here](#). The meeting was recorded for attendees and video files can be viewed [here](#).

Background

The MRV Hub is a regional institution designed to support Member Countries in their efforts to: Improve MRV systems, build Paris Agreement reporting capabilities, and enhance their domestic evidence-based policymaking. A key design innovation of the MRV Hub is that it functions as a true learning and mentoring cooperative. The MRV Hub is funded by the German Government for five years of collaborative work, mentoring, and tool development, and was created by the implementing partners on the grant, the Greenhouse Gas Management Institute (GHGMI), the Regional Collaboration Centre at St George's (UNFCCC RCC-STG) and the Windward Islands Research and Education Foundation (WINDREF).

Under the Paris Agreement's Enhanced Transparency Framework (ETF), countries are required to submit detailed data and supporting information every two years as a Biennial Transparency Report (BTR) starting in 2024. To achieve this, countries are working to quickly develop comprehensive climate measurement, reporting, and verification (MRV) systems to meet the new enhanced requirements. The establishment of MRV systems provides an additional challenge for small Caribbean nations because systems for climate change transparency are prone to economies of scale. To achieve its mission, activities of the MRV Hub include multi-country working sessions, bilateral mentoring trips, training sessions, research fellows and interns, tool and guidance development, and developing and strengthening data management systems. The MRV Hub is flexibly designed to adapt to evolving country needs for climate transparency.

Through cooperative activities, the MRV Hub supports member countries in the development of their national MRV systems, their modelling and mitigation analysis capabilities, and their National Inventory Programme, and in doing so, the MRV Hub helps countries build the national and regional technical expertise needed to enable the reporting cycle (NC/BUR and soon BTR) to be institutionalised as opposed to operating on a project-to-project basis. By strengthening and supporting domestic MRV Systems and improving national technical capacity, the MRV Hub member countries are better positioned to meet the Paris Agreement requirements for reporting, thereby improving country access to climate finance, enhancing their national data systems (making reporting less burdensome and faster for countries), enabling domestic (non-reporting) uses of data and improving data quality and analysis.

Annual Meeting Session Summaries

1. Official Opening Day 1

1.1 Meeting Opening and Objectives

Mr. Hayden Redhead, MRV Hub Project Coordinator and moderator for the first session welcomed participants to the 4th Annual Meeting of the MRV Hub (See Appendix: 2022 MRV Hub Annual Meeting Agenda).

At the end of Mr. Redhead's remarks, he invited the MRV Hub's Project Director, Mr. Wiley Barbour, to give welcoming remarks. This was followed by brief introductions of this year's participants to end the first session.

In addition to delegates from member countries, the 2022 MRV Hub Annual Meeting was attended by Regional and International organizations such as the Organisation of Eastern Caribbean States (OECS) Secretariat, the Greenhouse Gas Management Institute (GHGMI), Deutsche Gesellschaft für Internationale Zusammenarbeit, Grenada (GIZ), United Nations Framework Convention on Climate Change (UNFCCC), United Nations Environment Programme (UNEP), the UNFCCC-Regional Collaboration Centre (RCC) at St George's.

1.2 Remarks from MRV Hub Program Director

Mr. Wiley Barbour, MRV Hub Program Director, began this session by sharing with participants an overview of updates, discussions and plans for the 4th Annual Meeting, followed by excerpts and highlights from past meetings and interactions of the MRV Hub. This session was concluded after country focal points and representatives shared their expectations of the MRV Hub.

2. MRV Hub Operations Updates

This session, moderated by Ms. Brittany Meighan, started the meeting off with updates on programmatic activity and progress over the last year, and plans for the current year.

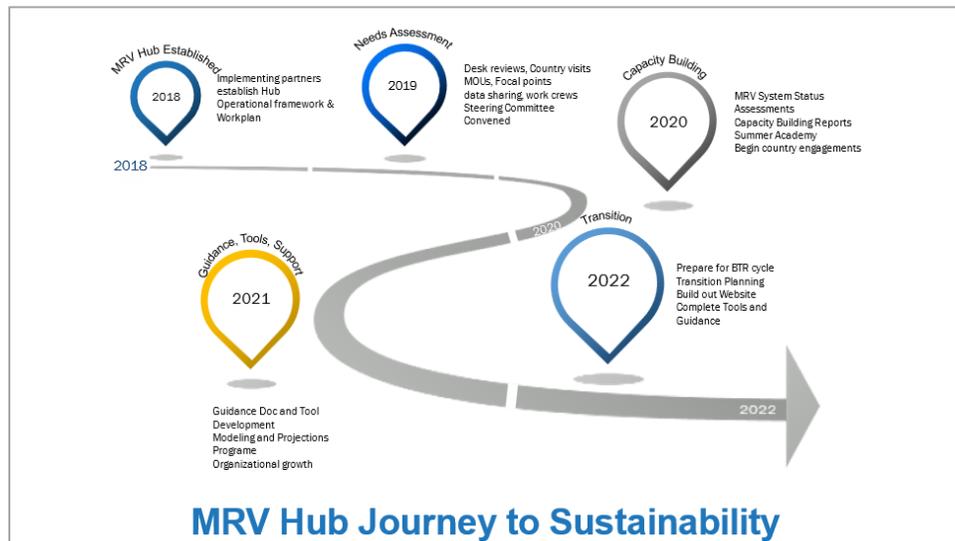
2.1. Secretariat Update: Results and Plans for 2022

Mr. Hayden Redhead, MRV Hub Project Coordinator, provided information on the status of the MRV Hub and highlighted the increased staff capacity and upcoming programs including, the MRV Hub Summer

Academy, Work Crews and LEAP Training. Mr. Redhead went on to detail plans for the 2022 operational year, and beyond, noting transition planning, MRV Hub replication package and new Work Crews. Subsequent presenters expounded upon Mr. Redhead’s highlights.

2.2 Director’s Update – State of the MRV Hub

Mr. Wiley Barbour, MRV Hub Program Director, continued the second session with a high-level view of the activities of the MRV Hub from its launch in 2018 to the current activities and future transition plans. Mr. Barbour also highlighted the MRV Hub’s Caribbean staff growth with the hiring of one new Technical Support Associate and one Program Officer position. These positions will bolster the seasoned full-time regional staff already in place. The presentation turned to the training of the next generation of experts through capacity building, collaborative work streams and mentorship. Mr. Barbour went on to provide an update of the work noting continued growth of demand for training, capacity building and technical support. The MRV Hub is now in the 4th year of the 5-year IKI grant, and technical progress is ahead of schedule and on track to complete all outputs and outcomes. The MRV Hub’s model of regional cooperation and collaboration is under increased international attention and calls and efforts are underway to try to replicate its success. Mr. Barbour noted the critical importance of a follow-on grant to support and accelerate the institutionalization of the MRV Hub, and briefly covered the efforts of the MRV Hub team in building a business plan/model for the operationalization of the organization as a regional institution in the Caribbean.



2.3 MRV Hub Tools: Data collection, QA/QC guidance case-study, Archiving, On-road mobile, use of mitigation assessment tool

MRV Hub Program Manager, Mr. Ryan Deosaran, gave an overview (listed below) of Guidance Documents and Tools being employed by the MRV Hub.

- Data collection and archiving tool that provided templates to guide data collection, data archiving and quality assurance / quality control (QA/QC) procedure targeting stakeholders involved in the reporting process to institutionalise memory.
- QA/QC Case Study – ‘Wyatt Island’ was introduced as a teaching case study that included features such as embedded data gaps, QA/QC checks along with calculation examples and exercises.
- Modelling Selection Tool which compares LEAP, GACMO & PROSPECTS+ applicable to use in scope of the Mitigation Analysis, data requirements for the software and access to modelling software
- On-Road Mobile Guidance and Tools harnessing guidance and expert judgment, which is funnelled into pre-processing that uses proxy data and generates activity data.
- FOLU work crew guidance using available data on land cover maps, satellite data, and analysis tools to generate activity data for all land use categories.

Mr. Deosaran concluded the presentation opening the floor for feedback from meeting attendees to suggest other guidance and or tools that should be prioritized for development by the MRV Hub.

3. IKI Grant Update

In this session, moderated by Mr Barbour, the MRV Hub team presented updates on the deliverables and outcomes of the work funded under the core grant from the German Government.

3.1 Summer Academy 2022 Virtual Session and Capstone

In this presentation Ms. Molly White, Director of the GHGMI Education Program, gave an overview of the MRV Hub Summer Academy starting with a recap of Summer Academy 2021 which focused on learning about and applying GHG inventory data collection, compilation, and documentation procedures and continued on to present the plans for the MRV Hub Summer Academy 2022. In 2021 there were 25 entry-level experts enrolled from across the MRV Hub country membership. Attendees included up to 2 new and fully sponsored participants from MRV Hub member countries and up to 2 returning participants from the previous year’s cohort. Students also brought with them a real data set for use during class and homework exercises across the 8-week programme. Ms. White further described the high-quality feedback and lessons learnt from this activity.

The MRV Hub Summer Academy 2022 was announced to begin in August following the usual 8-week virtual format, with the addition of an in-person ‘capstone’ component carded for early October. Ms. White shared some insights into the upcoming training’s course materials, criteria, eligibility, and program of activities.

Summer Academy 2022

Online | August-September

- Understand the GHG inventory development process and the application of cross-cutting issues
- Learn about available electronic tools to support your inventory development process
- Gain a knowledge base for further inventory training and individual climate mitigation inquiry

Week	Online Curriculum
Week 1	Kick-off, introduction to the MRV Hub, academy program logistics, objectives, and overview
Week 2	GHG data and parameters, IPCC guidelines structure and navigation, typical GHGI reporting types
Week 3	Inventory arrangements, typical management process and inventory cycle
Week 4	Basics of using Excel for GHG MRV
Week 5	Categories, data collection and sources, methodological choice, KCA
Week 6	Conceptual overview of time series consistency, QA/QC, uncertainty
Week 7	Tools and data exercises
Week 8	Online program wrap-up, reception, and overview of in-person section objectives and logistics

3.2 QA Reviews - Regional QA and Roster of Experts

Ms. Brittany Meighan, Program Associate with the MRV Hub provided a recap of the QA/QC at the country level stressing its importance to GHG inventories where countries can choose to be as simple or extensive as possible. Ms. Meighan quickly added the capacity intensive requirements of this process and steps that should be taken to bridge this capacity gap. The next feature in the presentation outlined the MRV Hub's Roster of Experts, information on what/who this roster contains, why it's necessary, and how to access it. She provided information on the facilities available for training and the benefits to the countries in accessing these resources. Participants were then asked to give feedback on their QA support that is required and how the MRV Hub Roster of Experts could further support their needs.

3.3 Completed and New Work Crews - Call for participation

During this session, Ms. Ahyana Bowen, Technical Support Associate and Work Crew Coordinator, shared insight into the MRV Hub Work Crews. She began with an overview of the Work Crews, which aims to increase capacity of experts dedicated to GHG inventories in the region and represents a key part of the core function and support of the MRV Hub. Ms. Bowen went on to describe the structure of the Work Crews and then transitioned to a summarized recap of the 2020-2021 Work Crew cycle which featured three areas, data management systems (DMS), forestry and other land uses (FOLU), and on-road mobile sources. These areas were selected based on Member Country capacity needs assessments that were conducted at the inception of the project. Ms. Bowen also recognized by name, thanked, and congratulated the Work Crew Members and their Leads for their dedication building regional expertise and the success of their hard work. Finally, Ms. Bowen made a call for participation in the 2022 Work Crews, namely, on-road mobile sources, FOLU, and agriculture. This newest work crew will be led by GHGMI Fellow, Dr. Luanne Stephens. Lastly, she explained the simple nomination and application process.

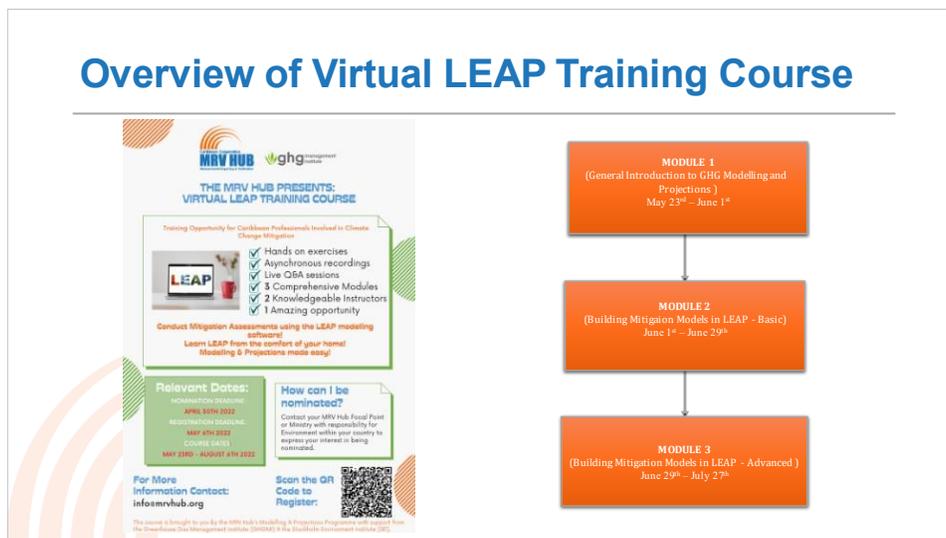
3.4 Work Crew Highlight: Agriculture Work Crew Plans

Dr. Luanne Stephens, GHGMI Fellow, and Lead of the Agriculture work crew gave an introduction of the purpose of the newest work crew. Dr. Stephens explained the work crew's main objectives to

communicate key agriculture GHG emission reporting concepts; build capacity around agriculture GHG estimation and QA/QC processes; develop processes to assist data collection and analysis and to create national agriculture GHG inventory estimates with transparent documentation. Dr. Stephens also gave an overview of the findings of her work currently underway with the Green Climate Fund CARICOM AgREADY project, which will provide additional context for her leadership of the agriculture work crew.

3.5 Mitigation Analysis, Modelling and Projections Program (MPP) Update

In this presentation, Ms. Benise Joseph, Program Associate at the MRV Hub, shared her work as the lead of the MRV Hub's Modelling and Projections Program (MPP). Ms. Joseph started with an overview of key focus areas, including capacity building in the region, identification of gaps and needs, and providing mitigation analysis services to the member countries. She then highlighted accomplishments of the MPP that included GHG mitigation modelling tools introduction webinar series, modelling tool selection guidance document, and mitigation analysis work for MRV Hub member countries. Then Ms. Joseph introduced an overview of the upcoming virtual LEAP training course spread over three modules scheduled from the start of June to August 2022. Finally, a future outlook for the MPP was detailed and the planned elaboration of the existing work of the program such as capacity development, work crew establishment and modelling for other key sectors like Waste and Industrial Processes and Product Use (IPPU).



figure

4. Future Outlook, Future Directions

This session, moderated by Mr Ryan Deosaran, shifted attention to future plans and directions for the MRV Hub.

4.1 MRV Hub Steering Committee Welcome

Grenada's Permanent Secretary of the Ministry of Foreign Affairs and MRV Hub Steering Committee Chair, P.S. Roxie Hutchinson, welcomed the delegation of attendees and encouraged their open and

honest discussions with the MRV Hub team as all endeavour to continue to collaborate effectively and efficiently.

4.2 UNFCCC Transparency Outlook

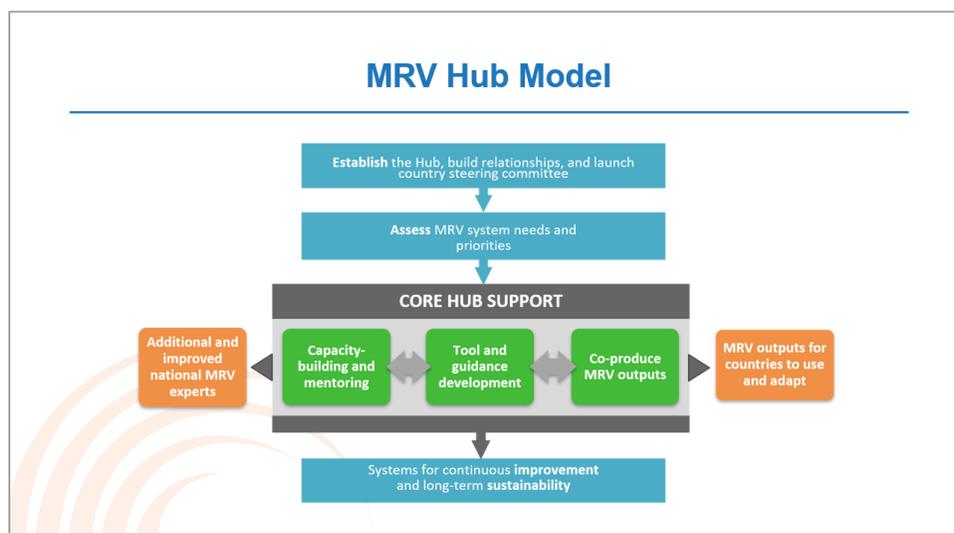
In this session Mr. Jigme, representing the UNFCCC Secretariat’s Transparency Division, presented on the new reporting requirements coming out of the Glasgow negotiations at COP26. In this presentation he began by showing key milestones towards the enhanced transparency framework (ETF) and the timelines for reporting. Mr. Jigme further provided context on the ETF by describing what he called the implementation basics that introduced the Modalities, Procedures and Guidelines (MPGs) for the transparency framework and various standardized reporting formats. Mr. Jigme went on to provide, in significant detail, the key milestones and deliverables from 2022 through to 2026. He concluded by providing a summary of key points, next steps, and guidance to participants.

4.3 Modelling landscape: Regional Needs

Dr. Vintura Silva, out-going RCC Lead and MRV Hub Program Officer, conducted a presentation on the regional needs within the modelling landscape by first providing rationale on why modelling and projecting of GHG emissions is so important. Dr. Silva went on to show different examples of modelling and projection outputs using parameters such as time period and specific scenarios. Finally, Dr. Silva gave an overview of project progress tracking and forecasting.

4.4 Presentation of the Letter of Support

In this final presentation for the day, Mr. Ryan Deosaran discussed the importance of a Letter of Support for the MRV Hub. He began by showing the “MRV Hub Model” highlighting the structure and function of the organization, then transitioning to the goals of the MRV Hub which included establishment as a permanent institution in the region, building capacity in the region, and completing a replication package. Mr. Deosaran shared a brief simplified overview of the grant outputs and deliverables, which mirror the internal goals of the organization. Finally, he detailed the envisaged scope of a future letter of support which contained some of the following elements: contained direct support through various annual



programs; capacity development and strengthen institutional memory; and supporting countries to aid the transition of ETF reporting.

4.5 Questions, Answers, Discussion

As moderator of the three previous presentations Mr. Deosaran raised questions to the participants about areas where the MRV Hub could continue to support their current needs and future needs as it related to modelling and projection and reporting under the ETF. The country representatives provided valuable feedback and expressed satisfaction in the work of the MRV Hub.

5. Close of Meeting Day 1

The final session was closed with Mr. Redhead expressing thanks to the respective focal points and their unwavering support to the MRV Hub, and also to the MRV Hub Secretariat for their hard work in preparing this year's virtual annual meeting.

6. Official Opening Day 2

6.1 Opening Remarks & Recap from Day 1

Ms. Molly White officially opened the second day of the meeting, with remarks summarizing the day's focus on member country interactions, discussions and feedback. Mr. Hayden Redhead noted logistical matters and meeting reminders.

7. Country Experiences with Transparency Reporting

In this session, moderated by Ms. Brittany Meighan, representatives from MRV Hub Member Countries gave presentations on their work, including highlights from interactions with the MRV Hub team and/or experience with use of its guidance and outputs.

7.1 Country Experiences: Domestic MRV System Improvement [St. Kitts & Nevis]

For this session Ms. Cheryl Jeffers, country representative for St. Kitts & Nevis, gave an account of her experience with building a domestic MRV system. She first featured the importance of an MRV system that can track of progress toward climate change-related targets as an opportunity to build national capacity and also to steer mitigation actions so that NDC targets can be achieved. Ms. Jeffers continued to provide rationale for an improvement of the St. Kitts & Nevis MRV system such as timely and continuous development of climate change information, ownership, and as a necessity to organize a complex process. She elaborated on progress to-date of institutional and coordination arrangements and capacity building and training, and then showed the step-by-step MRV assessment methodology and completed training and capacity development. Ms. Jeffers concluded her presentation explaining challenges and lessons learnt, then next steps for St. Kitts & Nevis.

7.2 Country Experiences: Mitigation Analysis [Antigua & Barbuda]

This presentation focused on Transparency Reporting for Antigua & Barbuda through the Initiative for Climate Action Transparency (ICAT) Project by country representative Mr. Oraine Nurse, Department of Environment, Antigua & Barbuda. Mr. Nurse provided a simple background of Antigua & Barbuda's country context, then transitioned into an overview of the ICAT project that aims to help countries better assess the impacts of their climate policies and actions and aids in fulfilling their transparency commitments. He provided the project's objective, outcomes, scope of work and key stakeholders mainly surrounding the themes of modelling frameworks, policy development and capacity development. Mr. Nurse then took participants through the mitigation modelling process in LEAP and GACMO showing key similarities and differences. Finally, he explained the decision of Antigua & Barbuda for phase 2 of the ICAT program to elaborate on the work already completed noting various challenges and recommendations going forward.

7.3 Country Experiences: Bahamas - Experience of The Bahamas with the MRV Hub

Mr. Nikita Charles Hamilton, Advisor Climate Change, presented on experience of The Bahamas with the MRV Hub. Mr. Hamilton explained that this included GHG inventory, mitigation assessment, and MRV system assessment, as contribution to their TNC/BUR1 submission. This work also led to their first UNFCCC voluntary QA review of its GHG inventory. Mr. Hamilton went on to explain the benefits of the stakeholder engagement process and the numerous benefits of the Climate Change and Carbon Markets Initiative bill that created a legally binding harmonization of initiatives between GHG inventory, mitigation, support, constraints, and MRV. He concluded his session with lessons learnt and a summary of support for climate action at the highest level.

7.4 Country Experiences: FOLU and future ideas for engaging the MRV Hub [Dominica]

In this session, Mr. Bradley Guye, country representative of Dominica, shared insight into Dominica's experience in the FOLU sector. Mr. Guye started with an overview of the FOLU sector focus areas and then through the key milestones and timelines for Dominica's GHG inventory. He then transitioned to Dominica's first Forest Reference Level to the UNFCCC that centres around conservation, sustainable management of forests and enhancement of forest carbon stock noting that it does not include degradation and deforestation. Mr. Guye went on to define and explain many elements of the FOLU focused activities of Dominica. Finally, he highlighted potential MRV needs, which included a request for Work Crew participation and support, broad MRV support, and support to develop institutional arrangements and capacity building.

8. MRV Hub Services Menu

In this session, moderated by Ms. Benise Joseph, feedback from country focal points was called for and discussion on future needs and capacity building demands was held.

8.1 MRV Hub Country-Specific Requests and Potential Opportunities for Engagement

In this presentation, Mr. Ryan Deosaran discussed country requests and engagement opportunities for the MRV Hub. He first showed the differences in focus, towards the balancing of regional and country priority areas with the aim of the MRV Hub to employ a blended approach to meeting both country

priorities and grant deliverables. Mr. Deosaran then expanded on member country requests, which included data collection training, MRV assessments and frameworks, and National Communication (NC) and Biennial Update Report (BUR), and future Biennial Transparency Report (BTR) chapters. He further reminded participants of the engagement and training opportunities such as IPCC Guideline training (Crosscutting, Energy, IPPU, Waste and AFOLU), data collection and QA/QC working sessions and transitioning to the ETF, using Common Reporting Tables (CRTs) and Common Tabular Formats (CTFs). Continuing on his explanations, Mr. Deosaran presented numerous technical services offered by the MRV Hub within the scope of MRV; Climate finance, technology transfer and capacity building (FTC), greenhouse gas inventories, and mitigation assessment and modelling. He concluded by adding several additional engagement opportunities, for example, potential support in the negotiation process, regional logistic support for events, and multi-country collaborations.



8.2 Mentimeter poll: "What does your country want to request from the MRV Hub in 2022 and beyond?"

In this interactive session, Ms. Benise Joseph used online polling tool Mentimeter to ask targeted questions to attendees across the virtual and in-person meeting space. The feedback from this session is summarized below ([Appendix D](#)):

- All responding participants thought the MRV Hub should continue to offer its preparation service such as preparation of GHG inventories, mitigation assessments, MRV, and other chapters for the NCs and BTRs.
- A majority of participants thought that the MRV Hub should consider providing support to the negotiation process
- All respondents thought the MRV Hub should at least consider working on adaptation related projects
- All respondents thought the MRV Hub should consider working on climate finance, technology transfer, and capacity building related projects.

- Respondents list numerous other services the MRV Hub should provide in 2022 which included, support for energy balances, monitoring and evaluation, work crews spanning all sectors, project proposal development, and support staff based in each member country.

9. Country Focal Points/MRV Hub Planning Session

9.1 Break-out room discussion

In this final session of the day, Ms. Molly White led break-out group discussions and a Mentimeter poll to solicit feedback from grouped participants on the question, “What could we solve with a multi-country proposal?”

Some of the views of the participants are listed below, full responses are in [Appendix B](#):

- Centre of excellence of experts
- Country specific modelling tools and programs
- Peer learning exchange programs
- Expand MRV Hub scope to adaptation inclusive of vulnerability analysis
- Improved regional reporting

9.2 Meeting evaluation

Participants both in-person and online were invited reflect on their experience over the course of the two meeting days and provide feedback and any additional questions.

All participants in the survey gave the overall quality of the 2022 MRV Hub Annual Meeting a rating of 4 and 5 (out of a scale of 1 to 5 where 1 means “Needs improvement” and 5 means “Very good”).

Participants found the following as the most important, ‘take away’ messages from the meeting based on their specific country or organizational context:

- The MRV Hub is really doing some great work in the Caribbean Region.
- There is a need for a phase II that comes with a need to reengage some member countries.
- The challenges across all countries are very similar and it would be strategic to address them as a region.
- The MRV Hub is doing a lot of work in the region by supporting countries to meet their respective priorities.
- The MRV Hub can provide support for most of our country's mitigation needs.
- The MRV Hub is operating on time and under budget, they are in good standing to access funds for a phase 2, which means they will be able to administer more assistance across the region to assist countries in building capacity, assisting with the completion of their GHG inventories, support mitigation efforts, continue their summer, work crew and other training programs, among an array of other services.

Additional survey results can be viewed in the [Appendix F](#).

9.3 MRV Hub Annual Leadership Award ceremony

Mr. Wiley Barbour, with the support of Mr. Hayden Redhead, recognized Dr. Spencer Thomas and Ms. Cheryl Jeffers as recipients of the Annual Lifetime Commitment to Climate Action Award (2022) and Annual Award for Excellence (2022) respectively. Both awardees were congratulated and thanked for their dedication to championing climate work within the region.



Dr. Spencer Thomas (right) and Ms. Cheryl Jeffers (left), recipients of the Annual Lifetime Commitment to Climate Action Award (2022) and Annual Award for Excellence (2022) respectively

10. Closing of Meeting Day 2

MRV Hub Regional Project Advisor, Dr. Spencer Thomas, officially concluded the meeting with a recap of the two days' activities and a challenge to all to continue on the path of strengthening regional capacity in climate reporting and technical expertise driven by collaborative approaches and the pooling resources through institutions such as the MRV Hub.

APPENDICES

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Appendix A: 2022 MRV Hub Annual Meeting Agenda

DAY 1 – Wednesday 11 th May 2022	
8:45 - 9:00	Participant Registration/ Login
Session 1	Opening & Workshop Objectives
9:00 – 9:40 Moderator: Hayden Redhead	Official Opening Remarks <ul style="list-style-type: none"> - Welcome, Logistics, Agenda Overview [Hayden Redhead] (10 min) - Grenada/MRV Hub Steering Committee Chair [Roxy Hutchinson] (5 mins) - Remarks from MRV Hub Program Director [Wiley Barbour] (10 mins) - Participant Introductions (15 min)
Session 2	MRV Hub Operations updates
9:40 – 10:05	<ul style="list-style-type: none"> - Director’s Update – State of the MRV Hub [Wiley Barbour] (15 min) - Secretariat Update: Results and Plans for 2022 [Hayden Redhead] (10 mins)
10:05 – 10:40	Photo Session and Coffee Break
10:40 – 11:00 Moderator: Brittany Meighan	<ul style="list-style-type: none"> - MRV Hub Tools: Data collection, QA/QC guidance case-study, Archiving, On-road mobile, use of mitigation assessment tool [Ryan Deosaran] (10 mins) - Questions and answers; discussion [Brittany Meighan] (10 min)
Session 3	IKI Grant Update
11:00 – 12:30 Moderator: Wiley Barbour	<ul style="list-style-type: none"> - Summer Academy 2022 Virtual Session and Capstone [Molly White] (15 mins) - QA Reviews - Regional QA and Roster of Experts [Brittany Meighan] (15 mins) - Completed and New Work Crews - Call for participation [Ahyana Bowen] (15 mins) - Work Crew Highlight: Agriculture Work Crew Plans [Luanne Stevens] (15mins) - Mitigation Analysis, Modelling and Projections Program (MPP) Update [Benise Joseph] (15 mins) - Questions and answers; Discussion [Wiley Barbour] (15 min)
12:30 – 1:30	Lunch (1 Hour)
Session 4	Future Outlook, Future Directions
1:30 – 2:45 Moderator: Ryan Deosaran	<ul style="list-style-type: none"> - UNFCCC Transparency Outlook – [UNFCCC Transparency Division, Jigme] – (15 mins) - Modeling landscape: Regional Needs [UNFCCC, Vintura Silva] (15 mins) - Multi-year programming grant - A call to action [Wiley Barbour] (15 mins) - Presentation of the Letter of Support [Ryan Deosaran] (15 mins) - Questions and answers; Discussion [Ryan Deosaran] (15 mins)
Session 5	Close of Meeting Day 1
2:45-3:00 Moderator: Hayden Redhead	<ul style="list-style-type: none"> - Summary of Day 1 and closing remarks [MRV Hub Regional Advisor, Spencer Thomas, TBC] (10 mins) - Closing Logistics [Hayden Redhead] (5 mins)
2:45	Close of Day 1

The Caribbean Cooperative MRV Hub 2021 Annual Meeting Agenda	
DAY 2 – Thursday 12 th May 2022	
8:45 - 9:00	Participant Registration/ Login
Session 6	Day 2 Opening
9:00 – 9:05	- Opening Remarks & Recap from Day 1 – [MRV Hub Secretariat, Molly White] (5 mins)
Session 7	Country Experiences with Transparency Reporting
9:05 – 10:00 Moderator: Brittany Meighan	<ul style="list-style-type: none"> - Country Experiences: Domestic MRV System Improvement [St. Kitts and Nevis, Cheryl Jeffers] (10 mins) - Country Experiences: Mitigation Analysis [Antigua and Barbuda, Oraine Nurse] (10 mins) - Country Experiences: GHG Inventory [The Bahamas, Nikita Charles Hamilton] (10 mins) - Dominica shares experience with FOLU and future ideas for engaging the MRV Hub [Dominica, Mr. Bradley Guye] (10 mins) - Questions and answers; Discussion [Brittany Meighan] (15 min)
10:00 - 10:15	Coffee Break (15 mins)
Session 8	MRV Hub Services Menu
10:15 - 11:25 Moderator: Benise Joseph	<ul style="list-style-type: none"> - MRV Hub Country Specific Requests and Potential Opportunities for Engagement [Ryan Deosaran] (20 mins) - Mentimeter poll: "What does your country want to request from the MRV Hub in 2022 and beyond?" [Benise Joseph] (40 min)
Session 9	Country Focal Points/MRV Hub Planning Session <i>This session will facilitate discussions between Country Representatives and the MRV Hub to better understand upcoming country needs.</i>
11:25 – 12:30 Moderator: Molly White	<ul style="list-style-type: none"> - Break-out room discussion [Molly White] (5 mins) <ul style="list-style-type: none"> o <u>Small Group and Mentimeter Prompt</u> "Think big!" - <i>What could we solve with a multi-country proposal?</i> (60 min)
12:30 – 1:30	Lunch (1 Hour)
1:30 – 1:50 Moderator: Molly White	<ul style="list-style-type: none"> - Online meeting survey (10 mins) - MRV Hub Annual Leadership Award Ceremony [Wiley Barbour] (10 mins)
Session 10	Closing of Meeting Day 2
1:50 – 1:55	- Closing remarks [MRV Hub Regional Project Advisor, Spencer Thomas] (5 mins)
Close of Day 2	
2:00 – 4:00	Steering Committee meeting

Appendix B: 2021 MRV Hub Annual Meeting Attendees

Title	First Name	Last Name	Country/Organization
In-person attendees			
Mr.	Sherwyn	Greenidge	Antigua & Barbuda
Mr.	Oraïne	Nurse	Antigua & Barbuda
Ms.	Gina	Young	Belize
Mr.	Bradley	Guye	Dominica
Mr.	Christopher	Joseph	Grenada
Ms.	Schmoi	McLean	Jamaica
Mr.	Shurman	Francis	Saint Lucia
Online attendees			
Mr.	Ron	Goodridge	Barbados
Ms.	Gina	Belle	Barbados
Dr.	Lennox	Gladden	Belize
Dr.	Anup	Joshi	FOLU Work Crew Lead
Dr.	Michael	Gillenwater	GHGMI Director
Ms.	Adiola	Walcott	Guyana
Ms.	Tracy	Smith	Guyana
Ms.	Kelly	Witkowski	IICA
Ms.	Shalini	Maharaj	IICA
Mr.	Ajani	Alleyne	Jamaica
Mr.	Donnie	Boodlal	MRV Hub Consultant
Mr.	Randyll	Pandohie	MRV Hub Consultant
Ms.	Samanthia	Justin	Saint Lucia
Ms.	Jermaine	Descartes	Saint Lucia
Ms.	June	Hughes	St. Kitts & Nevis
Ms.	Janeel	Miller Findlay	St. Vincent & the Grenadines
Mrs.	Rochelle	Newbold	The Bahamas
Mr.	Charles	Hamilton	The Bahamas
Mr.	Kishan	Kumarsingh	Trinidad & Tobago
Ms.	Miriam	Honostroza	UNEP/GSP
Organisational Partners			
Ms.	Marion	Geiss	GIZ Grenada
Ms.	Shanna	Emmanuel	OECS
Ms.	Tugba	Icmeli	UNFCCC
Dr.	Vintura	Silva	UNFCCC

Dr.	Randall	Waechter	WINDREFRCC-STG
Mr.	Lyndon	Robertson	Grenada Solid Waste Management Authority

Steering Committee Members

Ms.	Aaliyah	Tuitt	Antigua & Barbuda
P.S.	Roxie	Hutchinson	Grenada
Dr.	Spencer	Thomas	MRV Hub Regional Project Advisor
Ms.	Cheryl	Jeffers	St Kitts & Nevis
Mr.	Jigme		UNFCCC
Dr.	Michael	Gillenwater	GHGMI / Executive Director (Virtual)

MRV Hub Staff

Mr.	Wiley	Barbour	GHGMI/ MRV Hub Program Director
Ms.	Molly	White	GHGMI Education Program Director
Mr.	Hayden	Redhead	MRV Hub Project Coordinator
Mr.	Ryan	Deosaran	MRV Hub Program Manager
Ms.	Benise	Joseph	MRV Hub Program Associate
Ms.	Brittany	Meighan	MRV Hub Program Associate
Ms.	Ahyana	Bowen	MRV Hub Technical Support Associate
Ms.	Kalifa	Phillip	MRV Hub Technical Support Associate
Mr.	Curllan	Bhola	MRV Hub Technical Support Associate
Mr.	Quincy	Augustine	MRV Hub Support Staff
Dr.	Luanne	Stevens	Ag Work Crew Lead (online presenter)

Appendix C: Highlighted Slides

In this appendix, we highlight key slides from the delivered presentations. Full session presentations are available [here](#) and recordings are available [here](#).

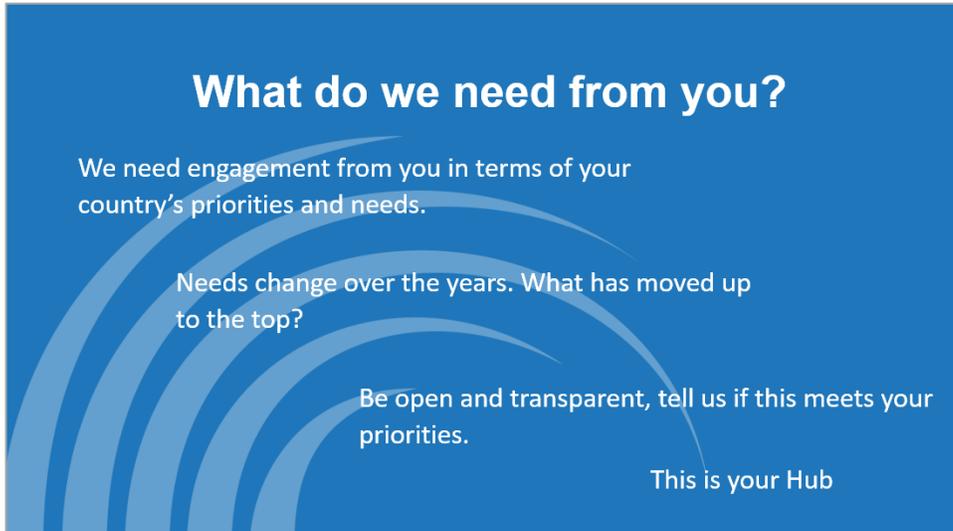


Figure 1. Project Director, Mr. Wiley Barbour shared an overview of updates, discussions, plans and highlights from past meetings of the MRV Hub then highlighted the expectations from participants.

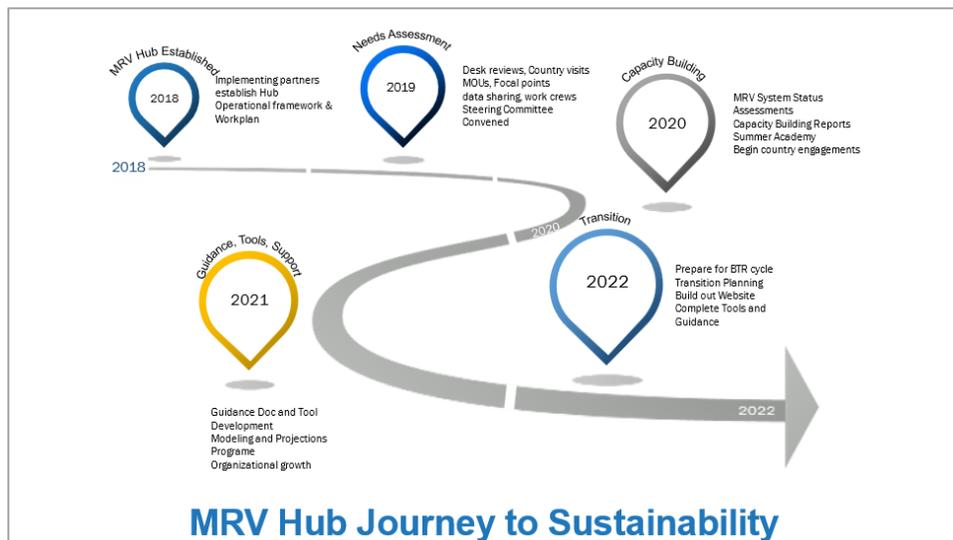


Figure 2. Mr. Wiley Barbour presenting a high-level view of the activities of the Hub from its initiation in 2018 to our current and planned activities towards the fulfilment of the 5-year IKI grant.

Modelling Selection Tool

	GACMO	PROSPECTS+	LEAP	GAMB
Platform	Excel, open-source	Excel, open-source	Windows, relational database, requires licence	Windows, requires licence (for GAMB)
User fee	Free	Free, optional use of EA input data requires licence	Free to Caribbean users in line & methodological countries, fee charged for others	Fee charged for GAMB licence and user tools (e.g. interface)
User guidance	Limited	Limited	Extensive	Limited
User community	Limited	None	Extensive	Mid
Language options	English	English	Multiple: English, French, Spanish, Chinese, Portuguese + others under development	English
Ease of navigation	High	Mid	High	Mid
Training requirements	Low	Low-Mid	Mid	High

- Excel Workbook which compares LEAP, GACMO & PROSPECTS+
- Applications include - Scope of the Mitigation Analysis, data requirements for the software and access to modelling software

Figure 3. Mr. Ryan Deosaran gave an overview of Guidance Documents and Tools being employed by the Hub featuring a “modelling Selection Tool” that gives users support in choosing between: Data collection and archiving tool; QA/QC Case Study; Modelling Selection Tool; On-Road Mobile Guidance and Tools and FOLU work crew guidance.

Summer Academy 2022

Online | August -September

- Understand the GHG inventory development process and the application of cross-cutting issues
- Learn about available electronic tools to support your inventory development process
- Gain a knowledge base for further inventory training and individual climate mitigation inquiry

Week	Online Curriculum
Week 1	Kick-off, introduction to the MRV Hub, academy program logistics, objectives, and overview
Week 2	GHG data and parameters, IPCC guidelines structure and navigation, typical GHGI reporting types
Week 3	Inventory arrangements, typical management process and inventory cycle
Week 4	Basics of using Excel for GHG MRV
Week 5	Categories, data collection and sources, methodological choice, KCA
Week 6	Conceptual overview of time series consistency, QA/QC, uncertainty
Week 7	Tools and data exercises
Week 8	Online program wrap-up, reception, and overview of in-person section objectives and logistics

Figure 4. Ms. Molly White gave an overview of the MRV Hub summer academy program carded for summer 2022 following the usual 8-week virtual format, with the addition of an in-person ‘capstone’ component carded for early fall.

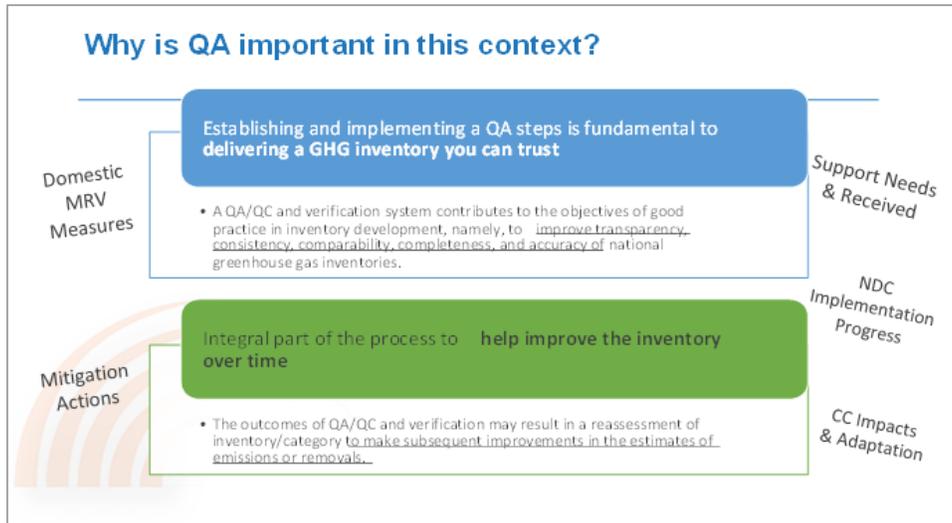


Figure 5. Mrs. Brittany Meighan provided a recap of the QA/QC at the country level stressing its importance to GHG inventories and the capacity intensive requirements for this process at the country level.

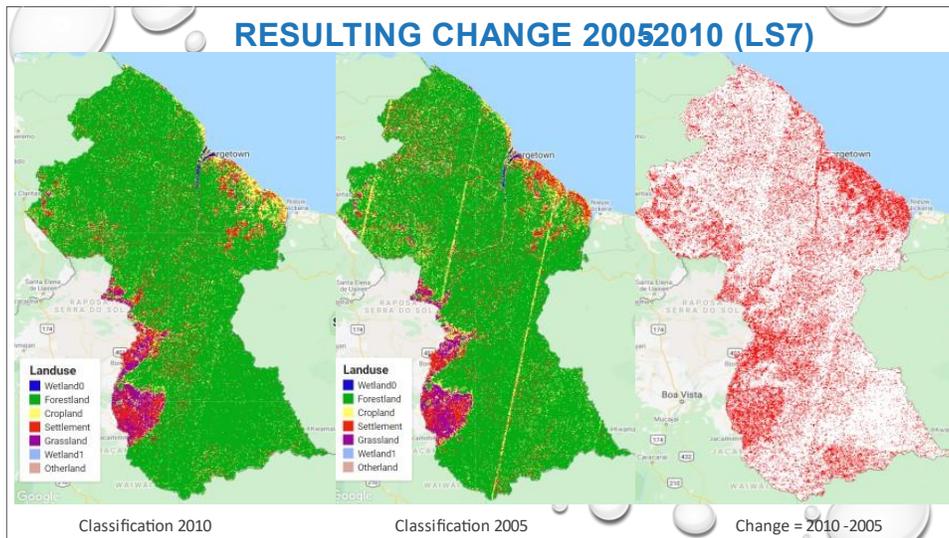


Figure 6. Ms. Ahyana Bowen's presentation an overview on completed and new Work Crews showing results mapping results from the AFLOU Work Crew then a call for participation 2022

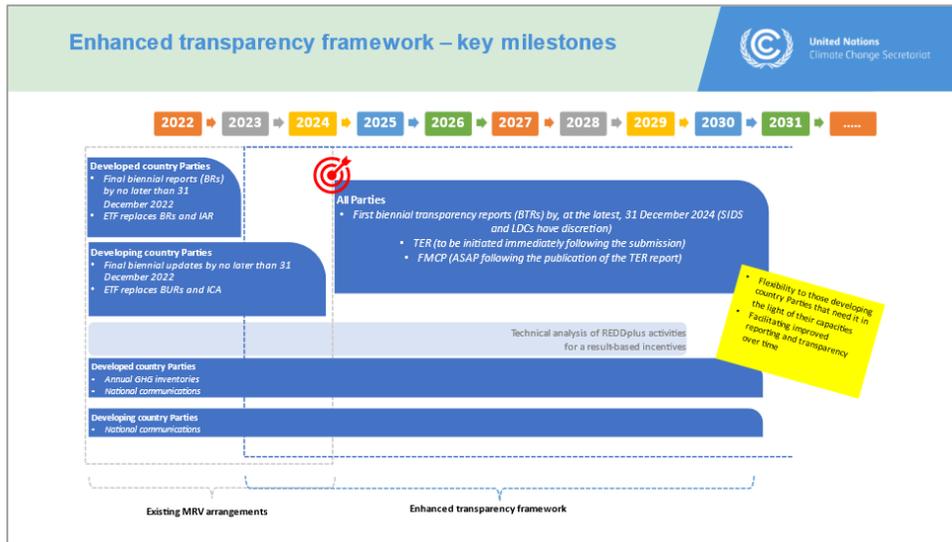


Figure 9. Jigme shares the timeline for the ETF to participants noting key milestones and deadlines comparing to existing arrangements. He provided specific context related to MPGs for the transparency framework and various standardized reporting formats

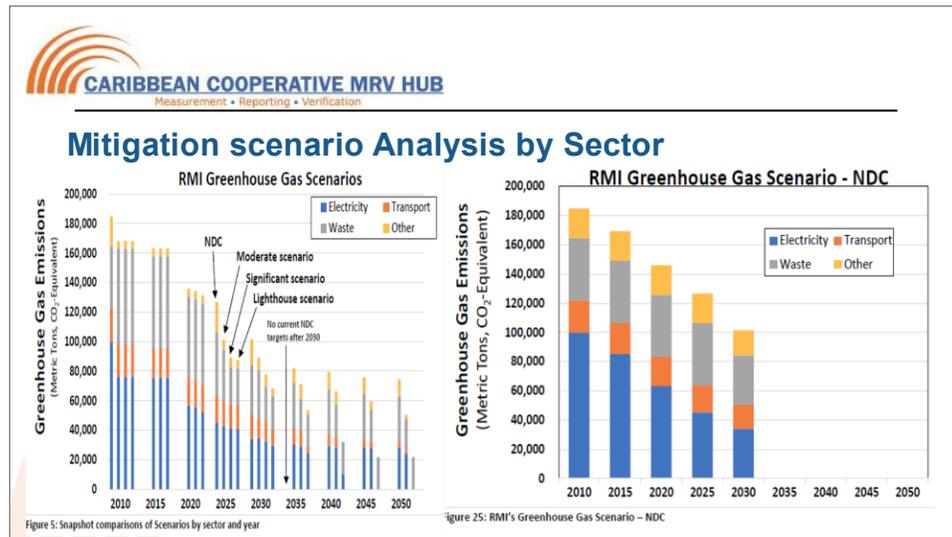


Figure 10. Dr. Vintura Silva shares examples of mitigation modelling scenarios by various parameters such as time period and specific scenarios

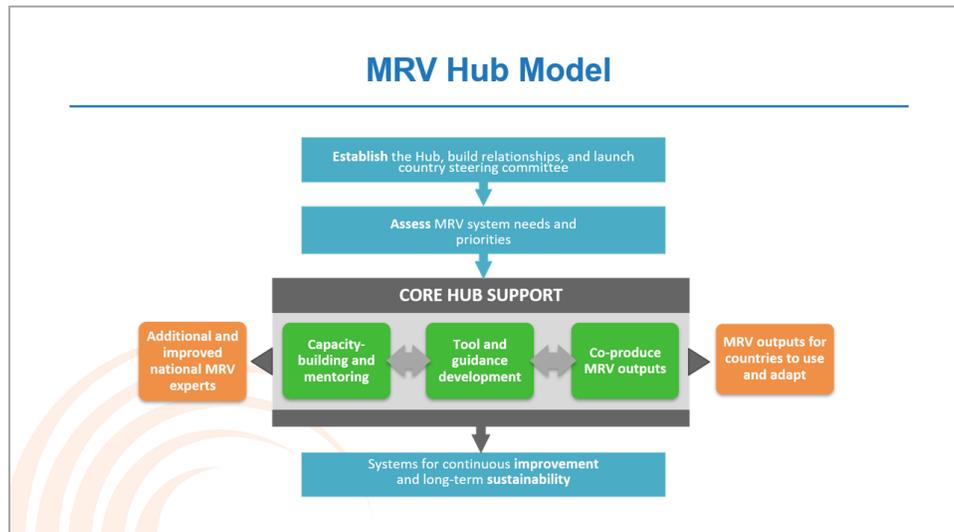


Figure 11. Mr. Ryan Deosaran leads the presentation on letters of support for the MRV Hub showing the model The MRV Hub adheres to, highlighting the structure and function of the organization towards institutionalization.

Why improve SKN MRV system?

Allows for timely and continuous development climate change information

- It is time consuming, expensive and in-effective to develop a “one-time” output.
- Establishes procedures to produce higher quality information more effectively.
- Allows for continual improvement

Gives ownership

- Embedding the systems in national institutions, supplemented by industry, universities, external institutions and experts enhances stakeholder engagement domestically and internationally.

Necessary to organize a complex process

- Climate change and climate reporting impacts the entire economy; clear roles, responsibilities and procedures are needed to organize the large number of individuals and data sources involved.

Figure 12. Ms. Cheryl Jeffers shared insight on the rational for improvement of the SKN Domestic MRV System Ms. Jeffers continued to provide rational for an improvement of the St. Kitts & Nevis MRV system such as timely and continuous development of climate change information, ownership, and as a necessity to organize a complex process

Potential MRV Needs

- Peer Review through the FOLU Workcrew (addition of Dominican team to workcrew)
- Support to develop institutional arrangements & capacity
- Public Awareness on REDD+ Process
- Baseline MRV Assessment/ Capacity Building Assessment (with Dominica as newest MRV country member)

Figure 15. Mr. Bradley Guye shared experience with FOLU and a handful of future ideas for engaging the MRV Hub in the future from Dominica's perspective.



Figure 16. Mr. Ryan Deosaran explains the MRV Hub's blended approach to member country requests, engagement opportunities and core grant deliverables. He reminded participants of the engagement and training opportunities such as IPCC Guideline training,

Appendix D: Session 8 Mentimeter Outputs

During this session participants were asked through Mentimeter, the question “What does your country want to request from the MRV Hub in 2022 and beyond?”

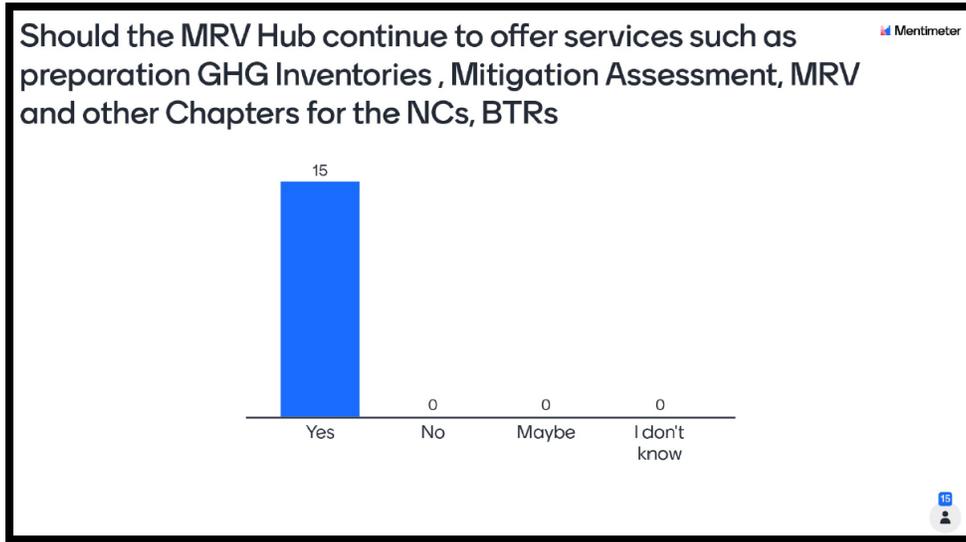


Figure 17. 2022 MRV Hub Annual Meeting, Day 2, Session 8, Mentimeter poll: “What does your country want to request from the MRV Hub in 2022 and beyond?”, Question 1

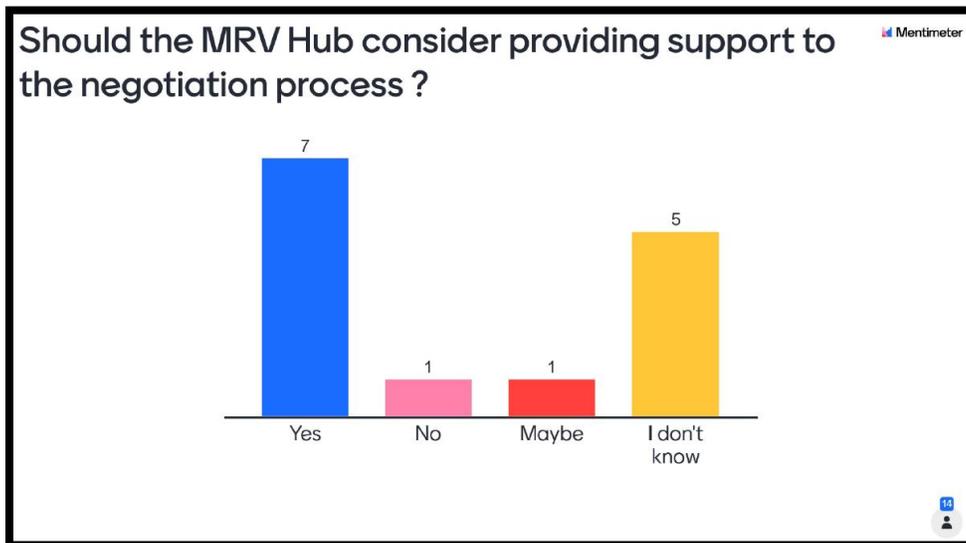


Figure 18. 2022 MRV Hub Annual Meeting, Day 2, Session 8, Mentimeter poll: “What does your country want to request from the MRV Hub in 2022 and beyond?”, Question 2

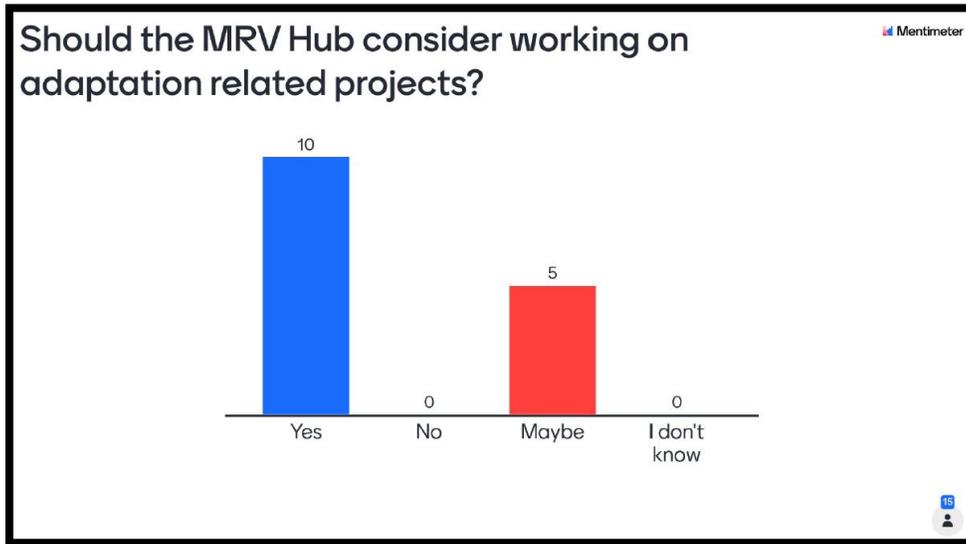


Figure 19. 2022 MRV Hub Annual Meeting, Day 2, Session 8, Mentimeter poll: "What does your country want to request from the MRV Hub in 2022 and beyond?", Question 3

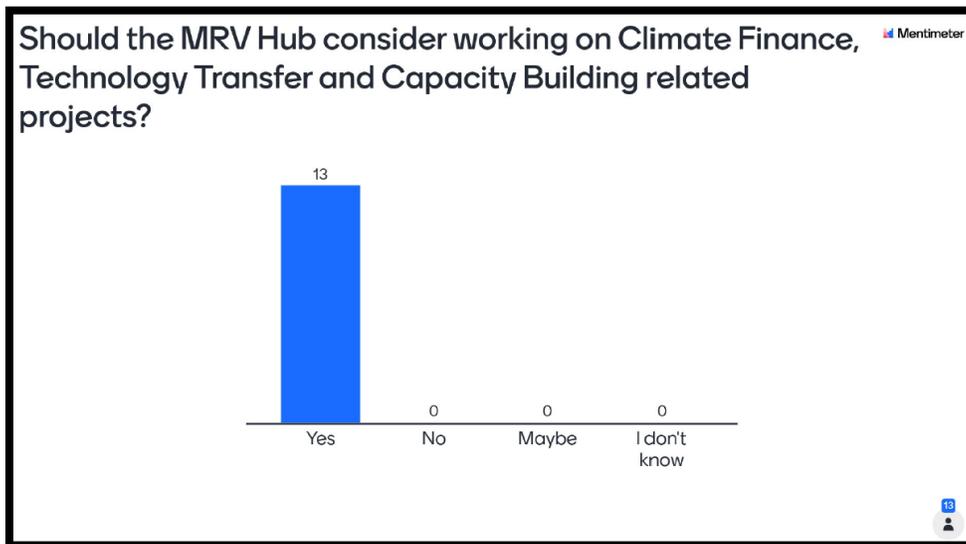


Figure 20. 2022 MRV Hub Annual Meeting, Day 2, Session 8, Mentimeter poll: "What does your country want to request from the MRV Hub in 2022 and beyond?", Question 4

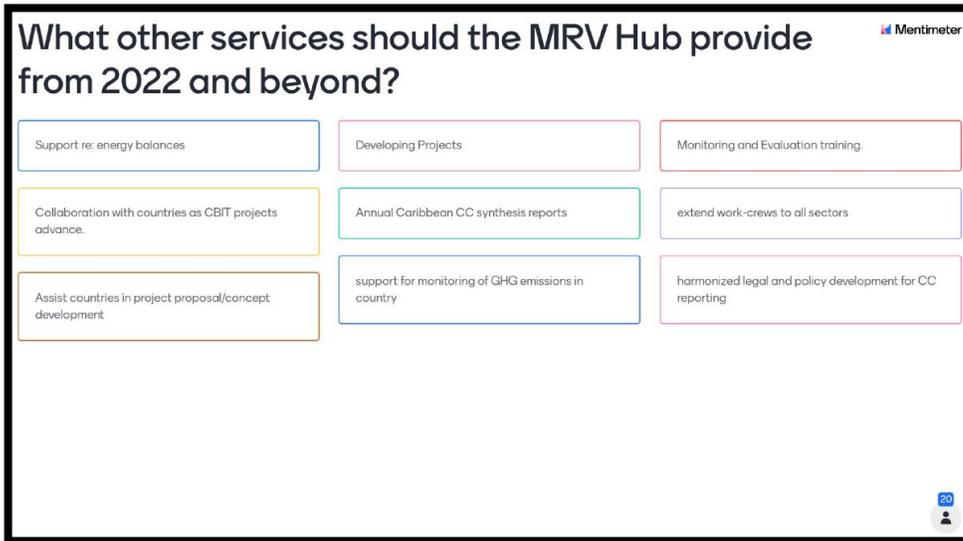


Figure 21. 2022 MRV Hub Annual Meeting, Day 2, Session 8, Mentimeter poll: "What does your country want to request from the MRV Hub in 2022 and beyond?", Question 5a

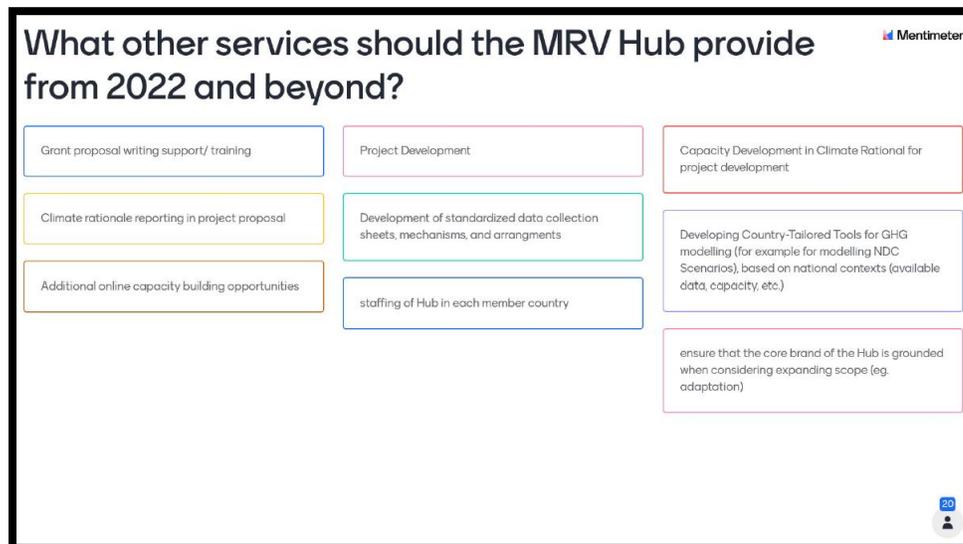


Figure 22. 2022 MRV Hub Annual Meeting, Day 2, Session 8, Mentimeter poll: "What does your country want to request from the MRV Hub in 2022 and beyond?", Question 5b

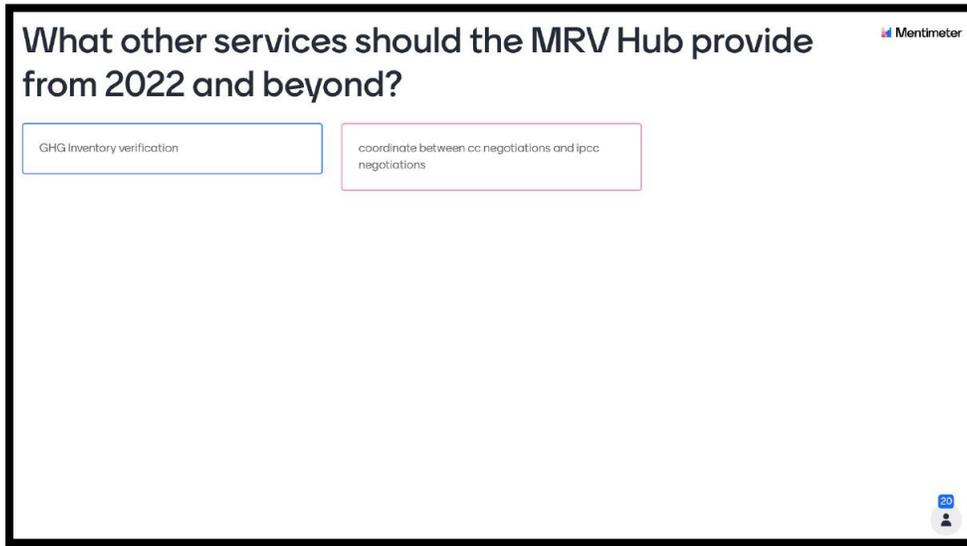


Figure 23. 2022 MRV Hub Annual Meeting, Day 2, Session 8, Mentimeter poll: "What does your country want to request from the MRV Hub in 2022 and beyond?", Question 5c

Appendix E: Session 9 Mentimeter Outputs

During this session participants were asked through Mentimeter, the question “What could we solve with a multi-country proposal?”

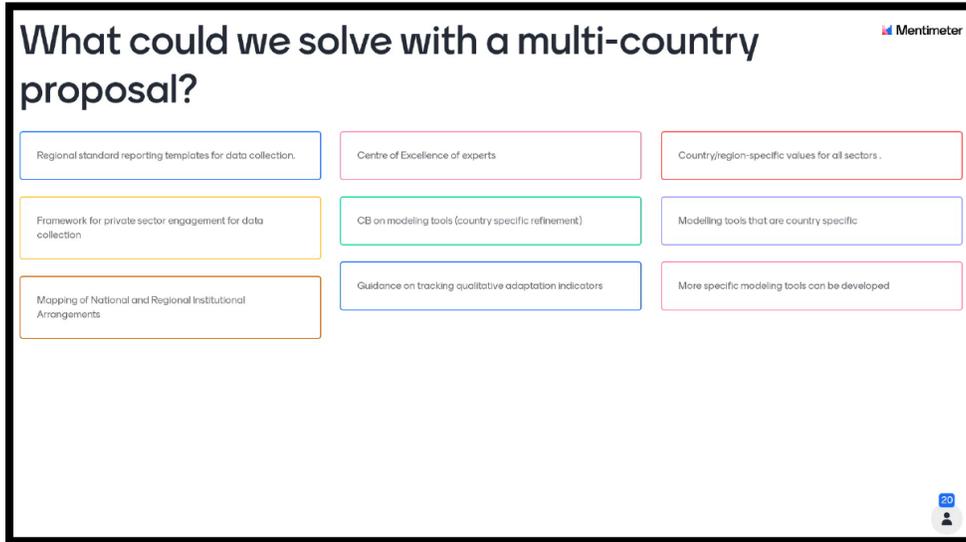


Figure 24. 2022 MRV Hub Annual Meeting, Day 2, Session 8, Mentimeter poll: "What could we solve with a multi-country proposal?", Question 1a

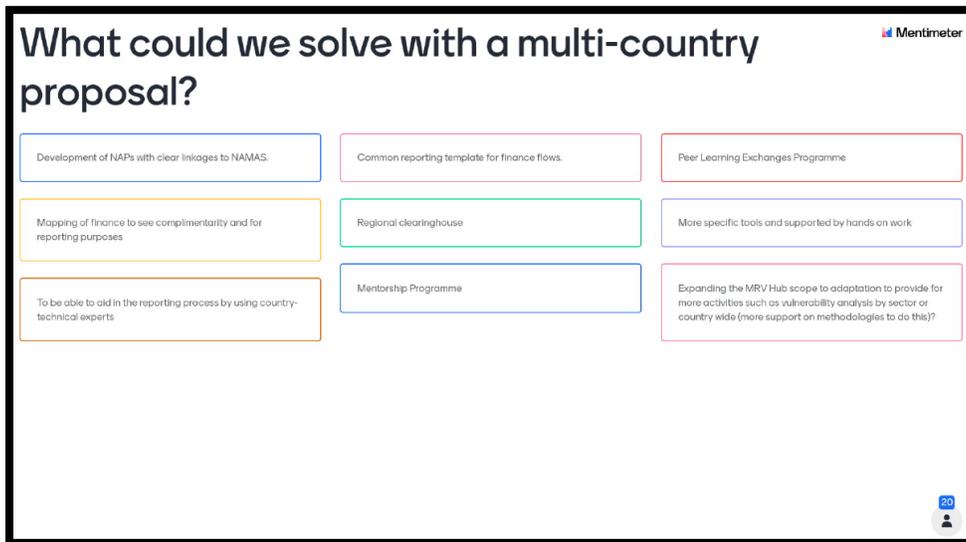


Figure 25. 2022 MRV Hub Annual Meeting, Day 2, Session 8, Mentimeter poll: "What could we solve with a multi-country proposal?", Question 1b



Figure 26. 2022 MRV Hub Annual Meeting, Day 2, Session 8, Mentimeter poll: "What could we solve with a multi-country proposal?", Question 1b

Appendix F: Meeting Evaluation

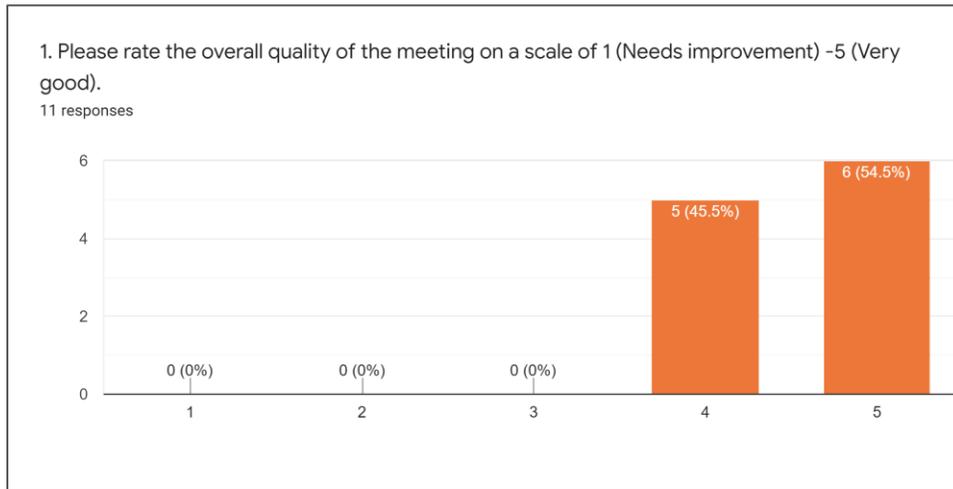


Figure 27. 2022 MRV Hub Annual Meeting, Day 2, Session 9.2, evaluation: "Please rate the overall quality of the meeting on a scale of 1 (Needs improvement) -5 (Very good).", Question 1

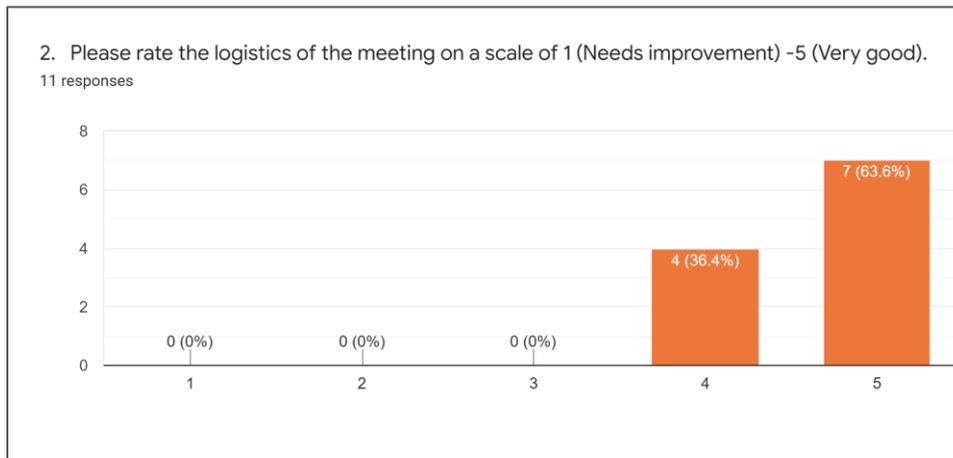


Figure 28. 2022 MRV Hub Annual Meeting, Day 2, Session 9.2, evaluation: "Please rate the logistics of the meeting on a scale of 1 (Needs improvement) -5 (Very good).", Question 2

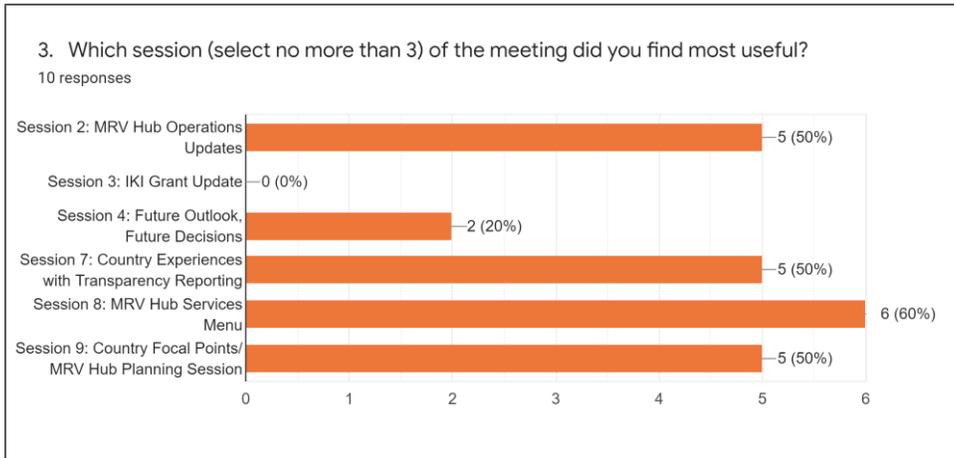


Figure 29. 2022 MRV Hub Annual Meeting, Day 2, Session 9.2, evaluation: "Which session (select no more than 3) of the meeting did you find most useful?", Question 3

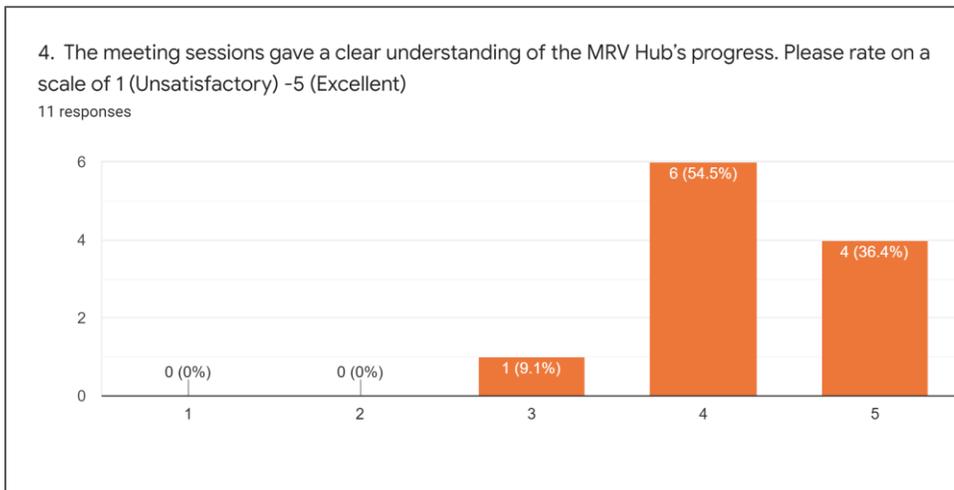


Figure 30. 2022 MRV Hub Annual Meeting, Day 2, Session 9.2, evaluation: "The meeting sessions gave a clear understanding of the MRV Hub's progress. Please rate on a scale of 1 (Unsatisfactory) -5 (Excellent)", Question 4

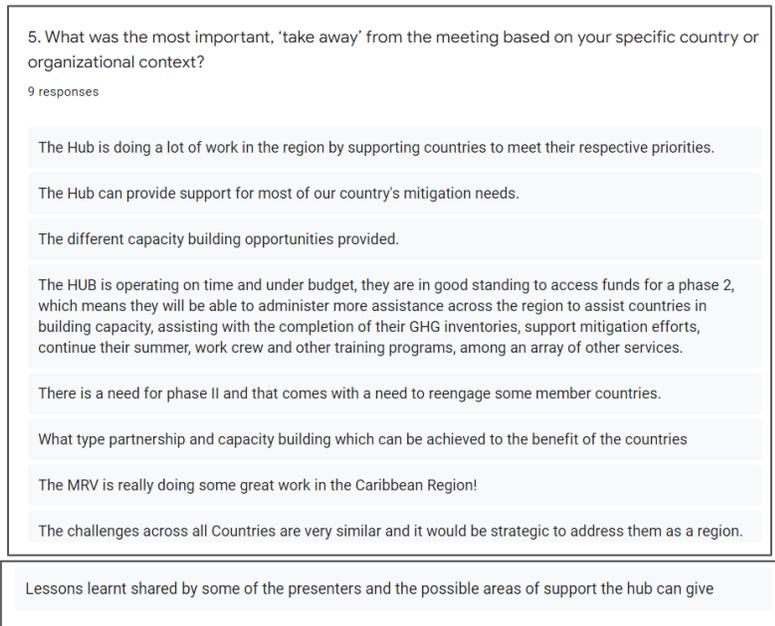


Figure 31. 2022 MRV Hub Annual Meeting, Day 2, Session 9.2, evaluation: "What was the most important, 'take away' from the meeting based on your specific country or organizational context?", Question 4

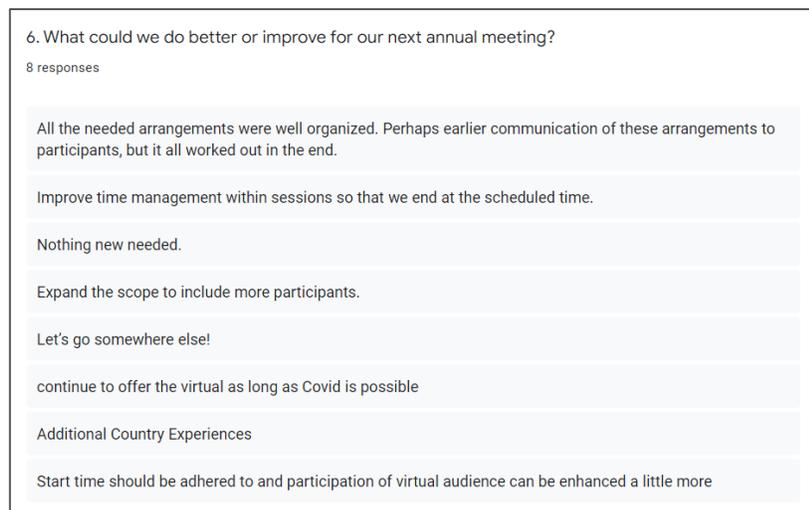


Figure 32. 2022 MRV Hub Annual Meeting, Day 2, Session 9.2, evaluation: "What could we do better or improve for our next annual meeting?", Question 6

7. Please share any additional comments or questions you may have.

6 responses

Really enjoy attending these meetings and interacting with the Hub, other country participants and organizations who we would have worked with before. It's a great learning experience and I hope the proposal for the second round is approved.

I have a better understanding now of what the Hub can support for my country and I now know where to turn when I need assistance and guidance in many areas of NDC update and implementation, as well as GHGi issues.

I would love to have greater interface throughout the year as we seek to transition from BUR to BTR and as we implement our CBIT.

Keep up the great work!!!

Great job

Private sector or even CSO representation and involvement could prove very beneficial

Figure 33. 2022 MRV Hub Annual Meeting, Day 2, Session 9.2, evaluation: "Please share any additional comments or questions you may have?", Question 7