

CLIMATE CHANGE AND DEVELOPMENT AUTHORITY



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WORKSHOP REPORT

PAPUA NEW GUINEA'S SECOND BIENNIAL UPDATE REPORT (BUR2) VALIDATION WORKSHOP

10th – 11th March 2022
Lamana Hotel, Port Moresby



Supported by:

**Food and Agriculture Organization of the United Nations (FAO) through the GCF
Readiness Project**

Complied by:

Nathan Sapala (Mr) – BUR2 Coordinator



"To be the leader in promoting climate resilience, low carbon growth and sustainable development"



Climate Change and Development Authority

The Climate Change Development Authority was established in November 2015 by the Climate Change Management Act of 2015. It is mandated as a lead Government agency in the country to coordinate climate change activities and strives to coordinate this process through partnerships with the development partners in PNG and internationally

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Table of Contents

Table of Contents	3
Abbreviation	4
Executive Summary	5
Introduction	6
Background	6
Objective	6
Speeches by heads of Organisations/Agencies	7
Statement on behalf of the Managing Director, Climate Change and Development Authority – Mr William Lakai. ..7	
Statement by the Head of Office for Food and Agriculture Organization (FAO), Mr BirChandra Mandal	8
Speech from the Chief Representative of JICA PNG Office, Mr. Masato Koinuma	9
Meeting Particulars and Attendance	10
Particulars	10
Attendance	10
Presentations	10
DAY 1: Thursday 10 th March 2022	11
Validation Workshop Overview: Purpose of the Workshop	11
Overview of the Second Biennial Update Report	12
What is Biennial Updated Report?	12
Presentation on Non-LULUCF Sectors	13
Presentation on Forest and Land Use Change Assessment 2000-2019	13
Presentation on LULUCF Sector	13
Presentation on REDD+ Technical Annex/REDD+ Results 2016-2018	14
DAY 2: Friday 11 th March 2022	14
Presentation on PNG’s EFT Action Plan on AFOLU Sector	14
Presentation on PNG Action Plan Log Frame	15
Presentation and Demonstration on SLMS Web-Portal	16
Presentation on completion of GEF-CBIT Project	17
Questions and Answers (Responses)	19
Appendix	25
1. Participants’ List	25
2: Pictures of the Event	27
3: Press release and links to the media coverages	28

Abbreviation

AFOLU	Agriculture, Forestry and Other Land use
BUR	Biennial Update Report
COP	Conference of Parties
CCDA	Climate Change Development Authority
FAO	Food and Agriculture Organization of the United Nations
GCF	Green Climate Fund
GGGI	Global Green Growth Institute
GHG	Green House Gas
JICA	Japan International Corporation Agency
IPCC	Intergovernmental Panel on Climate Change
LULUCF	Land Use Land Use Change and Forestry
LDC	Least Developed Countries
NDC	Nationally Determined Contribution
NIR	National Inventory Report
MRV	Measurement, Verification and Monitoring
NC	National Communications
OSS	Office of the State Solicitor
PNG	Papua New Guinea
PNGFA	Papua New Guinea Forest Authority
PNGSDP	Papua New Guinea Sustainable Development Plan
REDD	Reduced Emissions from Deforestation and Degradation
SIDS	Small Island Developing States
STWC	Sub-Technical Working Committee
REDD+ TA	REDD+ Technical Annex
UNDP	United Nation Development Program
UNFCCC	United Nation Framework Convention on Climate Change

Executive Summary

The Climate Change and Development Authority (CCDA), with support from Food and Agriculture Organization of the United Nations (FAO) through the GCF Readiness Project organised this two-days (10th – 11th March, 2022) validation workshop at the Lamana Hotel, Port Moresby to validate Papua New Guinea's Second Biennial Update Report (BUR2) document. Also validated were the National Inventory Report (NIR) and the REED+ Technical Annex (REDD+ TA). The workshop was attended by agencies from government and private sectors, as well as Non-Government Organisations (NGOs) and others. Participants participated both physically and online.

The first day of the validation started with the General Manager of MRV and National Communication, Mr. Alfred Rungol, welcoming participants and giving the welcoming remarks on behalf of the Climate Change and Development Authority (CCDA). He also thanked all the stakeholders, including the development partners for their active participation in the development of this important documentation, BUR2. This was followed by addresses from development partners. Representing FAO was Mr. Bir Mandal who is the Head of FAO Office in PNG and representing JICA was Mr. Masato Koinuma who is the Chief Representative of JICA-PNG. Mr. Mandal emphasized on the importance of accurate national climate change reporting and congratulated the important achievement by the Government of PNG- through CCDA. Chief Representative of JICA-PNG, Mr. Masato Koinuma commended the outstanding efforts and collaboration efforts by CCDA and partner agencies and expressed JICA's continuous support on progressing PNG's climate change policy.

Presentations on the first day were facilitated/presented by officers from CCDA, PNGFA, and FAO.

Topics included the following:

- ✓ Overview of BUR2
- ✓ What is BUR?
- ✓ Non-AFOLU Sectors
- ✓ AFOLU (Agriculture) Sector
- ✓ Forest and Land-Use Change Assessment 2001 – 2019
- ✓ AFOLU (LULUCF) Sector
- ✓ REDD+ Technical Annex/ REDD+ Results 2016 – 2018
- ✓ Improvement Plans for Each Sector

The second day started with a presentation by Mr. Alfred Rungol, the General Manager of CCDA on PNG's Action Plan for Enhanced Transparency Framework (ETF) on AFOLU and REDD+ NFMS. Other presentations were from FAO's GCF Project Manager, Mr. Paul Hasagama, Mr. Michael Klewaki and Mr. Oala Iuda who are both officers of FAO under the FAO's GCF Project.

Topics included the following:

- ✓ PNG's Action Plan for Enhanced Transparency Framework (ETF) on AFOLU and REDD+ NFMS
- ✓ SLMS Web-Portal
- ✓ Near Real-Time Deforestation and Forest Degradation Alert Monitoring System
- ✓ Completion of GEF – CBIT Project

Introduction

Background

Biennial Update Reports (BURs) are reports to be submitted by non-Annex I Parties, containing updates of national Greenhouse Gas (GHG) inventories, including a national inventory report and information on mitigation actions, needs and support received. Such reports provide updates on actions undertaken by a Party to implement the Convention, including the status of its GHG emissions and removals by sinks, as well as on the actions to reduce emissions or enhance sinks.

In 2012, COP 17 decided that the first BURs from non-Annex I Parties, consistent with their capabilities and the level of support provided for reporting, are to be submitted by December 2014. The subsequent BURs should be submitted every two years, either as a summary of parts of the national communication in the year when the national communication is submitted or as a stand-alone update report. However, flexibility is given to least developed country Parties (LDCs) and Small Island developing States (SIDS) like Papua New Guinea, which may submit such reports at their discretion.

The scope of the BURs is to provide an update of the most recently submitted national communication and to provide additional information in relation to mitigation actions taken or envisaged to undertake and their effects as well as support needed and received.

PNG submitted its first Biennial Update Report (BUR1) to the UNFCCC in 2018. The country is planning to submit its Second Biennial Update Report (BUR2) to UNFCCC towards the end of March 2022. CCDA and stakeholders with technical support from FAO and most needed support from GGGI, JICA, and GCF Readiness project have worked hard to complete all the components of the whole BUR2 documentation. It would not have been possible with the assistance from sister government agencies and private companies from all GHG sectors that supported through providing data and other relevant inputs throughout the process.

CCDA hosted a two-day workshop at Lamana Hotel in Port Moresby to validate Papua New Guinea's BUR2, the National Inventory Report (NIR), and the REDD+ Technical Annex. The workshop held was also to validate PNG's Enhanced Transparency Framework (ETF), Action Plan for AFOLU, and present PNG's upgraded REDD+ National Forest Monitoring System (NFMS). Attendees were from government, private sector, academia, and NGOs. The workshop was supported by the GCF Readiness Project implemented through FAO.

Objective

The following were the objectives the BUR2 Validation Workshop:

- ✓ Validate the BUR2 and NIR including the REDD+ TA.
- ✓ Validate PNG's ETF Action Plan for AFOLU and
- ✓ Present the Upgraded REDD+ NFMS (Web-Portal) and Near Real-Time Deforestation and Degradation Alert Monitoring System

Speeches by heads of Organisations/Agencies

Statement on behalf of the Managing Director, Climate Change and Development Authority – Mr William Lakai.

Statement made by the General Manager for MRV & National Communications Division, Mr Alfred Rungol.



Mr. Alfred Rungol

Acknowledgements

Thank you, chairperson.

Colleagues, Members of the Diplomatic Corps, distinguished guests, ladies and gentlemen.

Good Morning and Welcome All

In my opening remarks, I would like to make mention of two (2) main points.

Climate Change statuses of PNG and the Relevance of BUR2

- PNG like other developing countries is faced with the effects of climate change due to the increase in global temperatures.
- PNG's greenhouse gas emissions have increased over the years driven mainly by social economic activities. However, PNG's greenhouse gas emissions represent a very tiny fraction when compared to the global greenhouse gas emissions.
- Despite this, PNG remains committed to reducing its GHG emissions to achieve Carbon neutrality as can be seen in the country's sustainable development goals (SDG).
- In order to achieve this, there is need for proactive actions, partnerships and ambitious ideas towards addressing climate change in order to be climate resilient and to work towards a sustainable economic development.
- CCDA is the mandated agency in charge of coordinating climate change mitigation and adaptation efforts in PNG. In addition to this CCDA is also responsible for measuring and reporting PNG's mitigation and adaptation statuses to the international community.
- The purpose of measuring and reporting is to keep track on whether or not we are achieving our climate change mitigation goals.
- PNG through CCDA submitted PNG's First Biennial Update Report including a REDD+ Technical Annex in 2019.
- The Second Biennial Update Report (BUR2), National Inventory Report (NIR) and REDD+ Technical which will be validated today and tomorrow will provide an update of the BUR1.
- The BUR2 will inform the international and national community on the GHG emission statuses for PNG and its mitigation actions.
- The mitigation actions are also captured in the Enhanced NDC for PNG which sets our mitigation targets to mitigate emissions in the sectors.
- With more coordination and consultation with stakeholders we prioritize to improve on the completeness of the National Inventory to ensure that all sectors and categories that are relevant in PNG are estimated.

Acknowledgment Of Support Received

- I would like to acknowledge those government agencies and private sector companies that have provided information which have been useful for the preparation of the BUR2, NIR and REDD+ Technical Annex. Your continuous support is very much appreciated by CCDA.
- I would like to greatly thank the Technical Support provided by JICA in preparing the BUR1 and the

current BUR2 which includes the National Inventory Report and updates on PNG's mitigation status.

- I would also like to greatly thank the technical and funding support provided FAO through the GEF CBIT project and GCF Readiness project on the BUR1 and BUR2 mainly on the AFOLU sector and REDD+ Technical Annex.
- I also note the tireless efforts and commitments made by all key players and my staff and management at CCDA.

Finally, I would like to express my gratitude towards the stakeholders represented here today from both the public and private sectors for supporting CCDA through the review process of the BUR2. Without the feedbacks and improvement made by the various stakeholders, this day would not eventuate. With all that being said CCDA looks forward to continuously working with you all towards this credible endeavor.

I wish you all a productive day and May God bless you all.

Statement by the Head of Office for Food and Agriculture Organization (FAO), Mr BirChandra Mandal



Mr. BirChandra Mandal

Acknowledgements

- Thank you chairperson, Ms Debra Sungi
- Mr William Lakain, Acting Managing Director CCDA (Climate Change & Development Authority)
- Mr Masato Koinuma, JICA Resident Representative
- Other distinguished government officials, representatives of civil society organizations, technical experts, development partners, UN colleagues, ladies and gentlemen
- Good morning to you all.

Talking Points

- Congratulations on the excellent achievement for compiling the 2nd Biennial Update Report ready for stakeholder validation. I admire the remarkable efforts of government agencies, non-government organizations, and experts in the respective sectors.
- Thank you very much to all the participants for contributing to the validation process of this crucial national climate change report to the United Nations Framework Convention on Climate Change (UNFCCC).
- Climate change is one of the most severe global issues we face today.
- Papua New Guinea has very low absolute emissions. Nevertheless, climate change has been at the forefront of the national agenda. The government has committed to a low-carbon green-growth pathway aligned with Vision 2050.
- The Paris Agreement requires all Parties to put forward their best efforts through nationally determined contributions (NDCs) and strengthen these efforts in the years ahead. The Agreement also provides the Enhanced Transparency Framework (ETF) for monitoring and reporting the GHG emissions and the NDC progress.
- PNG has submitted the first Biennial Update Report (BUR1) in 2019. PNG is one of the 12 countries out of 78 Least Developed Countries (LDC) and Small Island Developing States (SIDS)

that have submitted BUR.

- PNG submitted the 2nd NDC with the ambitious targets in 2020. This year, PNG is reporting the progress of the NDC implementation through the 2nd BUR. PNG has significantly improved its monitoring and reporting capacity and has been steadily advancing its climate change policies.
- FAO has been proudly supporting the government to achieve such milestones.
- I would like to emphasize that many international development partners supported the BUR formulation together. FAO is grateful to the Green Climate Fund (GCF), the Global Environment Facility (GEF), and the NDC Partnership for their funding. FAO also appreciates the partnership with JICA and the Global Green Growth Institute (GGGI). Such collaborative assistance effectively supports the government in progressing the BUR2 preparation.
- Climate Change is a cross-cutting issue across the sectors. National reporting requires data from various industries and ministries across the sectors. FAO commends all the organizations that contributed to the BUR preparation and CCDA for successfully coordinating the collaboration with the partner agencies. We would also like to highlight the effective donor activity coordination provided by the CCDA. Such coordination enabled us to provide effective support and avoid duplication and conflict.
- Having said that, I wish you all active discussions and a productive workshop today and tomorrow. I look forward to seeing the BUR2 submission to UNFCCC sometime very soon.

Thank you.

Speech from the Chief Representative of JICA PNG Office, Mr. Masato Koinuma



Mr. Masato Koinuma

I would like to take this opportunity to acknowledge the presence of our valuable stakeholders:

- Mr. William Lakain, Acting Managing Director, Climate Change and Development Authority (CCDA),
- Mr. Alfred Rungol, General Manager of the MRV and National Communication Division, CCDA
- Mr. Bir Mandal, Head of Office, FAO

And all stakeholder, Ladies and Gentlemen,

For years, the partnership between the Government of PNG and Japan International Cooperation Agency (JICA) has been the foundation for development and trust building. It gives me great pleasure to attend this validation workshop for the Second Biennial Update report (BUR2). We acknowledge your efforts towards preparing BUR2. We understand it has been a very long and challenging task to get here.

JICA, in collaboration with CCDA, implemented the Greenhouse Gas (GHG) Inventory Project from 2017 to February 2022. Through this Project, CCDA members have enhanced their understanding of UNFCCC requirements, the estimation methods for estimating GHG emissions/removals, and improved skills to manage the inventory preparation process. PNG submitted its first Biennial Update Report (BUR1) to UNFCCC in 2018. JICA believes that our technical experts, who worked closely with CCDA, made an important contribution towards the development and submission of PNG's first BUR.

PNG is now going to submit BUR2 soon. JICA is very pleased that our cooperation was also able to contribute to the draft of the BUR2 and its submission to UNFCCC. I would like to commend CCDA and all those involved for their tremendous efforts. We also commend the efforts made by all key stakeholders here today in forging close partnerships to advance work on REDD+ related activities.

We wish you a successful completion of this two-day workshop and hope that the process of BUR2 will be completed properly. I would like to reiterate that JICA is proud to support the fight against climate change in Papua New Guinea. We look forward to continuing such collaboration in promoting environmentally sustainable development for the future of PNG.

Thank you very much.

Meeting Particulars and Attendance

Particulars

Listed on the table below are the particulars of the meeting.

Day(s)	:	Thursday – Friday
Date	:	10 th – 11 th March, 2022
Time	:	9:00am – 4:00pm / 9:00am – 12pm
Venue	:	Lamana Hotel, Port Moresby
Facilitator(s)	:	Ms Debra Sungi (1 st day) / Mr. Jason Paniu (2 nd day)

Attendance

The meeting was attended both physically and visually. Attendees were from government, private sector, academia, and NGOs. Listed on the table below are the names of agencies which attended the workshop.

- 1. Climate Change and Development Authority (CCDA)**
- 2. Food and Agriculture Organization of the United Nations (FAO)**
- 3. Papua New Guinea Forest Authority**
- 4. National Agriculture Research Institute (NARI)**
- 5. National Research Institute (NRI)**
- 6. University of Papua New Guinea (UPNG)**
- 7. Puma Energies**
- 8. Office of Research Science and Technology Secretariat (RSTS)**

Above table gives the names of agencies only. Please refer to the annex section of the report for the attendance sheet, which contains the name of the participants.

Presentations

Presentations were from CCDA, PNGFA and FAO officers. The table below gives the details of all the presentations during the two days of workshop.

No.	Presentation(s)	Presenter	Agency
Day 1			
1.	Overview of BUR2	Ms. Debra Sungi	CCDA
2.	What is BUR?	Nathan Sapala	FAO
3.	Presentation on Non-AFOLU Sectors	Mr. Jason Paniu	CCDA
4.	Presentation on AFOLU (Agriculture) Sector	Mr. Nathan Sapala	FAO
5.	Presentation on Forest and Land-Use Change Assessment 2001 – 2019	Elizabeth Kaidong	PNGFA
6.	Presentation on AFOLU (LULUCF) Sector	Mr. Morgan Kai	CCDA
7.	Present on REDD+ Technical Annex/ REDD+ Results 2016 – 2018	Mr. Paul Hasagama	
8.	Improvement Plans for Each Sector	Mr. Alfred Rungol	CCDA
DAY 2			
9.	Presentation on PNG's Action Plan for Enhanced Transparency Framework (ETF) on AFOLU and REDD+ NFMS	Mr. Alfred Rungol	CCDA
10.	Presentation on PNG Action Plan Log Frame	Mr. Paul Hasagama	FAO
11.	Presentation on SLMS Web-Portal	Mr. Michael Klewaki	FAO
12.	Presentation on Near Real-Time Deforestation and Forest Degradation Alert Monitoring System	Mr. Oala Iuda	FAO
13.	Completion of GEF – CBIT Project	Dr. Hitofumi Abe	FAO

Copies of all the presentations are being put together in a zip file and are being shared together with this report. We are unable to put them at the end of this report, in the Appendix section because the presentations are many. However, the questions and answers/responses have been written noted down. Summary of each presentation has also been made so that readers can have a fair understanding on what has been presented.

Summary of Presentations

DAY 1: Thursday 10th March 2022

Validation Workshop Overview: Purpose of the Workshop

Mr. Alfred Rungol- General Manager, MRV & NC

The General Manager, MRV & NC Division of CCDA acknowledged the support from FAO through the GCF Readiness Project funding this two-day Validation workshop. Special gratitude to Mr. Mandal, Head of Office, FAO PNG and Mr Koinuma, Chief Representative of JICA PNG for their presence during this workshop and for the technical and financial support through this process. Without these international development partners support and capacity, CCDA will not be able to develop and progress these National documents.

He reiterated that the overall consultation process was done prior to this workshop with comments and feedbacks on the chapters received from the sectors from the international experts were very important and necessary during the revision of the BUR2 drafting session.

The main aim of this workshop now is for the stakeholders to validate these documents before its submission to the UNFCCC. The scheduled submission and the official launching of these documents will be the next process after this Validation Workshop.

In conclusion, Mr Rungol expressed his gratitude to the technical team for their commitment and efforts towards the progress of these two national documents.

Overview of the Second Biennial Update Report

Ms. Debra Sungi- Manager, MRV Branch CCDA

The presentation by Ms. Sungi covered the overview of the BUR2 including the contents of each chapter in the document. Summarizing on the key elements of the BUR's and overall results of the BUR2/NIR GHG Inventory. She briefly outlined the emission trends in the five sectors that are reported in this BUR2 which are;

- Energy Sector
- Industrial Process and Product use Sector
- Agriculture Sector
- Land Use, Land Use Change and Forestry Sector
- Waste Sector

Other chapters highlighted in her presentations included the Mitigation Actions, Information on the Description of Domestic MRV, Constraints, Gaps & Capacity Needs and Financial & Technical Support Received.

What is Biennial Updated Report?

Mr. Nathan Sapala- BUR2 Coordinator, FAO

The presentation by Mr. Nathan Sapala defined the purpose and objectives of BURs under the UNFCCC guidelines. Mr. Sapala made mentioned of the 2006 IPCC guidelines which are used to calculate the sectors reported in the BUR. The presentation included the reporting cycle and the actions undertaken by Party (country), some background information of PNG's submission of BUR1 in 2019 and the expected outcomes of the Second Biennial Report. Mr Sapala concluded his presentation with the institutional arrangements and the way forward of this BUR2.

- Volume 1: General Guidance and Reporting**
- Volume 2: Energy**
- Volume 3: Industrial Processes and Product Use (IPPU)**
- Volume 4: Agriculture, Forestry and Other Land Use (AFOLU)**
- Volume 5: Waste**



2006 IPCC Guidelines

Presentation on Non-LULUCF Sectors

Mr. Jason Paniu- Senior Officer, MRV Branch, CCDA

Mr. Paniu presentation was more focused on the Four (4) sectors of Energy, IPPU, Agriculture and Waste excluding the LULUCF sector.

The Presentation included;

- the overview of BUR2 GHG inventory,
- overview of methods used and data source for the Non- LULUCF Sectors,
- GHG emission results for the Non-LULUCF Sectors,
- Recalculations made and challenges
- Next steps

Presentation on Forest and Land Use Change Assessment 2000-2019

Ms. Elizabeth Kaidong-Forest & land Use Monitoring Branch, PNGFA

Ms. Kaidong on behalf of PNGFA, presented on the objectives and methodology used in during this assessment period.

From the assessment, total forest cover in PNG for the year 2019 is 35.9 million hectares. The primary (undisturbed) forest is 75.22%. About 352,804 ha of forest cover was converted to other land use and about 7.94% of forest was disturbed between 2000-2019 and the main contribution is from commercial logging.

The presentation highlighted top 3 provinces with large areas deforested are, West Sepik, West New Britain and East new Britain. The top 3 provinces with the large areas of forest disturbances include Western Province, West Sepik and Gulf Province.

Presentation on LULUCF Sector

Mr. Morgan Kai – MRV Officer, CCDA

The presentation from Mr Kai focused on the LULUCF sector which is one of the most emitting sectors in terms of GHG emissions in PNG. The presentation covered the IPCC 2006 Land Category, the main categories of emissions by sources and removals by sinks. Mr. Kai elaborated further on the

emissions trends of PNG in the LULUCF sector including the data sources and the methods used in calculating and estimating the GHG emissions. To conclude the presentation, Mr Kai made mention on the improvements made in BUR2 for the LULUCF Sector in comparison to the BUR1.

Presentation on REDD+ Technical Annex/REDD+ Results 2016-2018

Mr. Paul Hasagama – GCF Readiness Project Coordinator, FAO

Mr. Hasagama presented on the REDD+ Technical Annex which is an annex to be submitted with the BUR2. The introduction discussed the background information on the REDD+ Results and the purpose and objectives of reporting to the UNFCCC. It was mentioned that FREL/FRL is the benchmark to assess the performance of implementing REDD+ activities.

Mr. Hasagama outlined the contents of the REDD+ technical annex including each chapter. He touched on the methodology used to calculate the REDD+ results from 2016-2018.



DAY 2: Friday 11th March 2022

Mr. Jason Panu was the facilitator for the second day of the workshop. Mr. Panu welcomed all participants to the second day of the workshop. Mr. Panu opened the session with the objectives and program for the day.

Presentation on PNG's EFT Action Plan on AFOLU Sector.

Mr. Alfred Rungol- General Manager, MRV & NC

The first presenter, Mr. Alfred Rungol presented on PNG's Action Plan for Enhanced Transparency Framework (ETF) on AFOLU and REDD+ MRV (2022-2025). This is a four-year plan developed by the Climate Change and Development Authority (CCDA) in consultation with key AFOLU stakeholder

(PNGFA, DAL, DLPP, et al) to address the key capacity gaps and needs relating to climate change mitigation and adaptation reporting in the AFOLU sector to ensure PNG is 'ETF-ready' by 2024. The action plan identifies the immediate and long-term needs of the AFOLU MRV system and prioritises activities and resources to meet the needs.

Key ETF Issues/Challenges in the AFOLU sector

Some of the key issues relating to climate change mitigation and adaptation reporting in the AFOLU sector that the action plan aims to address includes:

- i. Institutional arrangement for GHG Inventory data collection is done on an ad hoc basis; most data sharing is done on *ad-hoc* basis
- ii. Insufficient government direct funding in ensuring the financial and operational sustainability of MRV initiatives.
- iii. Inadequate human capacity on Mitigation and Adaptation reporting in BTR under the ETF reporting requirements
- iv. Non-existence of certain key country specific activity data and emissions factors
- v. No improvement plan on AFOLU data collection

The action plan is placed in the context of PNG's climate change policies and legislations. The activities in this action plan were derived from the following sources:

- i. Recommendations from UNFCCC Regional Workshop on the Building of Sustainable National Greenhouse Gas Inventory Management Systems, and the Use of the 2006 IPCC Guidelines for National Greenhouse Gas Inventories;
- ii. UNFCCC technical assessment reports of PNG's BUR1 and REDD+ Technical Annex/REDD+ results;
- iii. CBIT ETF readiness assessment update;
- iv. AFOLU MRV gap assessment; and
- v. Climate change adaptation gap analysis in AFOLU sector

Presentation on PNG Action Plan Log Frame

Mr. Paul Hasagama- GCF Readiness Project Coordinator, FAO

Mr. Hasagama did his presentation the Enhanced Transparency Framework (ETF) which specifies how parties to the agreement must report on progress in climate change mitigation, adaptation measures and support provided or received. The Paris Agreement sets out to build a common set of guidelines for all countries, while providing flexibility for developing countries that need it. The ETF is central to the design, credibility and operation of the Paris Agreement.

Mr. Hasagama reported the activities/outputs that aimed at strengthening PNG's capacities for measurement, reporting, and verification (MRV) in the AFOLU sector as a means to improving the overall quality and accuracy of the National Greenhouse Gas Inventory and prepare PNG to transition to the Enhanced Transparency Framework (ETF) under the Paris Agreement. All activities/outputs were validated by the AFOLU Sub-Technical Working Committee (sub-TWC) as well as the AFOLU

wider stakeholders that contribute to the AFOLU MRV in PNG. Following are the overarching capacity needs relating to AFOLU MRV in PNG. The main outcomes in the ETF action plan are as follow;

Outcome 1: Institutional framework on the Enhanced Transparency Framework strengthened;

Outcome2: Transparency of AFOLU and REDD+ monitoring enhanced;

Outcome 3: NFMS and REDD+ Forest Reference Level updated and improved;

Outcome 4: GHG inventory of AFOLU conducted and improved;

Outcome 5: Monitoring of AFOLU related adaptation conducted;

Outcome 6: ETF reports (BTR1, NIR) produced and submitted;

Outcome 7: Blue-carbon inventory and policy developed; and

Outcome 8: Other important activities identified and conducted

The primary implementing authorities of PNG Action Plan for Enhanced Transparency Framework on AFOLU and REDD+ National Forest Monitoring System (2021-2025) are the Climate Change Development Authority (CCDA), PNG Forest Authority (PNGFA) and the Department of Agriculture and Livestock (DAL). Several other Government agencies/AFOLU stakeholders and the private sector will deliver substantial portions of the project's outputs, with the aim of transitioning to sustainable, scalable, long-term operational arrangements for climate change -related MRV in the AFOLU sector.

Presentation and Demonstration on SLMS Web-Portal

Mr. Michael Klewaki, FAO

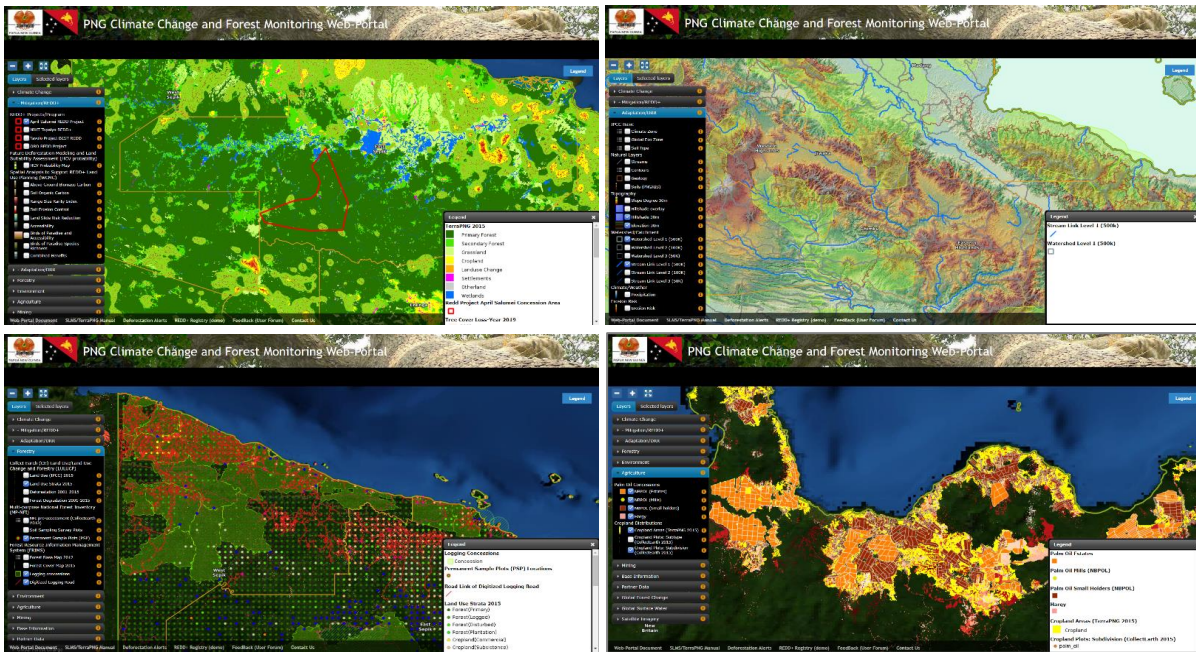
Mr. Klewaki introduced his presentation with the Objective of Presentation and Demonstration. This included;

- To demonstrate how various information existing in PNG can be utilized by stakeholders using Web-Portal platform
- To provide the opportunity to discuss how the Country Office can utilize the Web-Portal in its various programs or future programs in the country

PNG REDD+ and National Forest Monitoring System Web-portal was established for disseminating forest and land use information to public for ensuring the transparency of PNG REDD+ process.

The Web-Portal gives opportunity to stakeholders (government organizations, developing partners, private sectors, and CSOs) to publish their achievements/data through one single web-based platform.

In conclusion, Mr. Klewaki mentioned the way forward for the Web-Portal. This included, Updating Web-Portal Document, Developing NFMS/MRV Dashboard and Upgrading Base System (OS & GeoServer).



Presentation on completion of GEF-CBIT Project

Dr. Hitofumi Abe, Chief Technical Advisor on Forestry, Climate Change and Biodiversity, FAO

Dr. Abe did his presentation on the Global Environment Facility (GEF) – Capacity Building Initiative for Transparency (CBIT) Project. The project was undertaken by FAO within the last 3 years. Dr. Abe presented on the Summary of the Projects and the project output. The project's objective was to strengthen capacity in the agriculture and Land- Use Sector in implementing and monitoring PNG's Enhanced NDC

Below are the two summary of his presentation.

Project Summary.

Project Output

Component 1 Institutional arrangement

Project title	Strengthening capacity in the agricultural and land-use sectors for enhanced transparency in implementation and monitoring of Papua New Guinea's Nationally Determined Contribution (NDC)
Start date	January 2019
End date	September 2021
Resource partner	Global Environment Facility
Government/other counterparts	Climate Change and Development Authority PNG Forest Authority
Implementing Agency	FAO
Total budget	USD 863,242

- PNG ETF Action Plan 2021 – 2025
- Technical Working Committee
- Support on the 2nd NDC preparation

- Finalized
- Held 6 times during the project duration
- NDC submitted in Dec 2020

Component 2 National GHG MRV for AFOLU

- Finalization and ICA process of BUR1
- Activity Data assessment (forest and land use change assessment 2016-2019 using Collect Earth)
- BUR 2 data analysis, report preparation
- Establishment of GHG data archiving system
- Improve PNG REDD+ & National Forest Monitoring System web-portal
- Establishment of PNG near-real-time deforestation alert system

- Completed in 2019
- Assessment conducted since July 2020
- Progressed in 2021
- Progressed
- Progressed
- Completed

Component 3 National adaptation MRV for AFOLU

<ul style="list-style-type: none"> Review existing information and initiative to identify information gap Disseminate information through publications and web-portal 	<ul style="list-style-type: none"> Gap analysis conducted and included in the ETF Action Plan Adaptation information included in the updated web-portal
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Questions and Answers (Responses)

Questions	Answers (Responses)	Responsible Agency	Due Date
Day 1 (Thursday) – Morning Session			
1 Question(s) by: PNGFAO (Gewa Gamoga) What is CCDA’s plan on moving from Tier 1 to Tier 2 and 3?	Response by: Jason Paniu In our presentations, you would have seen that we have used a lot of data from international data sources. It would be better if PNG uses its own data for reporting. As such, CCDA’s priority now is to improve our data sources, so that we can use our own data than from others. For the LULUCF sector, we are using country specific data, so we can try to develop our own emission factors. For other sectors, it is important for us to have more accurate data. And that’s what we want to improve on first.	CCDA, PNGFA, DAL, NEA, and others.	No time limit.
2 Question(s) by: PNGNRI Rep., In regards to GHG Inventory, you said in 2000 we were a net source and now we are net sink. Can you explain what’s happening in our forestry sector?	Response by: Jason Paniu LULUCF Presentation (by Morgan) will give detail explanation, but I will give a brief since I presented the overall trends. In our calculations of the GHG emissions, we saw that the trend of GHG emissions was decreasing since the year 2000.	CCDA, PNGFA	No time limit.

3	<p>Question(s) by:</p> <p>PNGNRI Rep.,</p> <p>Can you explain to us the difference between deforestation and forest disturbances?</p>	<p>Response by:</p> <p>Elizabeth Kaidong</p> <p>Deforestation is coming from forestland converted to cropland in three provinces in our assessment.</p> <p>In another three provinces; Western, West Sepik, and Gulf Provinces, there is a lot of logging activities going on. There are also other activities that changes forest into other landuses. In the process, the forest is being disturbed by all these activities. As such, they are labelled as disturbed forests.</p>	CCDA, PNGFA	No time limit.
4	<p>Question(s) by:</p> <p>ExxonMobil Rep.,</p> <p>What verification process do you use for carbon sinks in the carbon market? How do you validate carbon sources and sinks in your reports, like BUR2?</p>	<p>Response by:</p> <p>Nathan Sapala</p> <p>In regards to verification of carbon, the carbon emission data is collected from data providers. For example, PNFA provides forestry data to CCDA. CCDA analyses those data and then does the calculations. Activities like logging, are considered as sources, because they give off emissions. Forest Conservation activities are considered as sinks because these activities absorb carbon dioxide.</p> <p>Alfred Rungol,</p> <p>Us (CCDA) collecting data from you stakeholders is the start of the validation process. We calculate the emissions and present the results to UNFCCC through the BUR & NIR This then goes into a 9 month technical review process. The technical expert review team then sits and asks questions to validate the accuracy, the completeness and gaps identified in the reports. . They will also look at</p>	CCDA, PNGFA	No time limit.

		previous (GHG) reports and try to validate the emission in the presented report.		
5	<p>Question(s) by:</p> <p><i>ExxonMobil Rep.,</i></p> <p>Is there any collaboration between CCDA and PNFA?</p>	<p>Response by:</p> <p><i>Jason Paniu,</i></p> <p>There is proper collaboration between us and PNGFA. All our activity data for the LULUCF sector comes from PNGFA.</p>	CCDA, PNGFA	No time limit.
Day 1 (Thursday) – Afternoon Session				
6	<p>Question(s) by:</p> <p><i>UPNG Rep.</i></p> <p>What is the emission factor for Kwila, pine tree, or mango tree, or other individual tree species?</p>	<p>Response by:</p> <p><i>Paul Hasagama,</i></p> <p>Emission Factors used by CCDA on its reports are from PNGFA through classification of forest types. There are 13 forest types/classes identified by PNGFA and they EF's are calculated accordingly. Kwela is found in one of those forest types, and the same to other tree species found in the country.</p> <p>To do emission factor for each tree species, it will involve a lot of work to cover the whole country. This is impossible to do. It can, however, be done at a project scale and implement at the national scale.</p> <p><i>Alfred Rungol,</i></p> <p>This can be done but it would be a very costly exercise. We'll be faced with a huge challenge. It would require a lot of funds and time.</p>	PNGFA, and CCDA.	
7	<p>Question(s) by:</p> <p><i>PNGNRI Rep.,</i></p> <p>Have you considered uncertainty analysis in your report (REDD+</p>	<p>Response by:</p> <p><i>Paul Hasagama,</i></p> <p>In the document (REDD+ technical Annex), we have a chapter on uncertainty alone. Uncertainty analysis was done on the activity data and emission factor. Other assessments include quantitative and qualitative.</p>		

	Technical Annex)?	The details of all the uncertainty analysis that were done are captured on Ch 5 of the document.		
Day 2 (Friday) – Morning Session				
1	<p>Question(s) by:</p> <p>PNGNRI Rep,</p> <p>Is it possible for Web-Portal to differentiate Customary land and State land.</p>	<p>Response by:</p> <p>Michale Klewaki,</p> <p>It is possible. If all the government agencies and other organisations provide those data to us, we can upload them show those on the Web-Portal.</p>	DLPP, and CCDA	Do date limit.
2	<p>Question(s) by:</p> <p>Madang Provincial Government,</p> <p>Does the Web-Portal also show LLG boundaries? If not shown, is it possible for you to include them?</p>	<p>Response by:</p> <p>Michael Klewaki,</p> <p>Currently in our Web-Portal, we do not have LLG boundaries. But it is possible for us to include them. If the responsible government can provide us these information, we can upload and show them.</p>	Department of Provincial and Local Level Government, and CCDA	Do date limit.
3	<p>Question(s) by:</p> <p>Jeremiah Liliura (Online),</p> <p>Is the REDD+ Web-Portal open to online user?</p>	<p>Response by:</p> <p>Masamichi Haraguchi (Online),</p> <p>Yes, it is open to online users. No registration is required.</p>	All	Do date limit.
4	<p>Question(s) by:</p> <p>Jeremiah Liliura (Online),</p> <p>In regard to the biodiversity hot spots, data is proved by CEPA. How often are the updated to the web-portal in the areas identified, that includes</p>	<p>Response by:</p> <p>Michael Klewaki,</p> <p>There is no frequent update done to the biodiversity hot spot areas or other areas shown on the web-portal. When we communicate with responsible agencies and see that they have updated information, they provide those to us and then we update them accordingly.</p>	CEPA, CCDA, others	Do date limit.

	Conservation area?	Alfred Rungol, It is in our plan. We wish to get those information, including LLG boundaries and other important information and include them in the Web-Portal. We take note of your question. We wish to improve the Web-Portal further.		
5	Question(s) by: ExxonMobil Rep., How can we (the private agencies) get to know more about the REDD+ Web-Portal so that we can be aware of details of what is in there?	Response by: Alfred Rungol, We can do awareness to the private sector agencies, and also consult private sector agencies by sending open invitations to come and visit our team at CCDA.	CCDA	Do date limit.
6	Question(s) by: Terence Barambi (REDD+ Branch), In regards to the REDD+ Registry in the REDD+ Web-Portal, how do you foresee the inclusion of discounting that will be brought in to the REDD+ Projects verses the National REDD+ results?	Response by: Alfred Rungol, That's something that we will work on. Was trying to discuss with Dr. Abe (from FAO) on this so that they can assist. If we are to put this up online on the web-portal, we have to put a cap on the projects so can we can control. At the moment, there is no control on the REDD+ projects. Dr Abe REDD+ Technical Annex is the measure of amount of carbon reduced, against the Forest Reference Level. BUR2 REDD+ technical annex is not the result based payment proposal, it is an explanation of by how much PNG reduced emissions against FRL. How to address the issue you raised is something that we need to work together to address	CEPA, CCDA, others	Do date limit.

7	<p>Question(s) by:</p> <p><i>DAL Rep.,</i></p> <p>What does the 2030-2050 Initiative refers to?</p>	<p>Response by:</p> <p><i>Paul Hasagama,</i></p> <p>This is a program which FAO is collaborating with other development Partners. In PNG FAO, DAL, and NSO are collaborating to come up with this program. 2030-2050 Initiative refers to activities that must be included in 2030.</p> <p>This will be good opportunity for CCDA to collaborate with DAL to collect</p> <p><i>Dr. Abe,</i></p> <p>This is an initiative for 50 countries. So, PNG applied for it as well.</p> <p>When the application is successful, we will support DAL to collect the required data, and assist CCDA with data for GHG emission calculations and other necessary uses of those data.</p>	CCDA, DAL	Do date limit.
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Appendix

1. Participants' List

Listed below are the names of the participants that attended Physically and Virtually.

A) Physical Attendance

No	Name	Organisation	Email
1	Mr. Alfred Rungol	CCDA	kaferinrin@gmail.com
2	Masato Koinuma	JICA-PNG	koinuma.masato@jica.go.jp
3	Aoki Masaki	JICA-PNG	Masaki.Aoki@jica.go.jp
4	Alvin Mokavelaga	JICA-PNG	Mokavelaga.Alvin@jica.go.jp
5	Gibson Pitz	DLPP	pitzzg@gmail.com
6	Inoya Haguna	Puma Energy (PNG) Ltd	Inoya.Haguna@pumaenergy.com
7	Robertha Kiapranis	Puma Energy (PNG) Ltd	Robertha.Kiapranis@pumaenergy.com
8	Nidatha Martin	USAID	nmartin@usaid.gov
9	Joecy Kabiou	PNGNRI	Joecy.Kabiou@pngnri.org
10	Erick Sarut	CCDA	esarut07@gmail.com
11	Prof. Graham Sem	UPNG	graham.sem@upng.ac.pg
12	Vincent Suapi	ExxonMobil PNG	vincent.suapi@exxonmobil.com
13	Jeremiah Liliuara	ExxonMobil PNG	jeremiah.liliuara@exxonmobil.com
14	Gewa Gamoga	PNG Forest Authority	ggamoga@pngfa.gov.pg
15	Elizabeth Kaidong	PNG Forest Authority	ekaidong@pngfa.gov.pg
16	Kisolel Posanau	PNG NWS	solel.posanau@gmail.com
17	Vinila Vuapak	DLPP	vvuapak@gmail.com
18	Maihaea Huaupe	Department of Transport	mhuaupe@transport.gov.pg
19	Graham Kaina	FAO	Graham.Kaina@fao.org
20	Nicole Masta	DNPM	nicole.masta15@gmail.com
21	Darren Kuama	PNGSTS	darren.kuama@science.gov.pg
22	Christopher Mong	FAO	Christopher.Mong@fao.org
23	Jacinta Kull	CCDA	Jacinta.Kull@ccda.gov.pg

24	Janet Lipai	NARI	janet.lipai@nari.org.pg
25	Susuve Fave	CCDA	suetfave@gmail.com
26	Michael Philip	National Newspaper	mphilip@thenational.com.pg
27	Jason Paniu	CCDA	jpaniu@gmail.com
28	Debra Sungi	CCDA	debra.sungi@gmail.com
29	Everlyn Paul	CCDA	everlynpmel@gmail.com
30	Morgan Kai	CCDA	morgan7kai@gmail.com
31	Mirzo Isoev	European Union	
32	Eric Gardette	European Union	egardette@aol.com
33	Nathan Sapala	FAO	sapalanathan@gmail.com
34	Dr. Hitofumi Abe	FAO	Hitofumi.Abe@fao.org
35	Michael Klewaki	FAO	aklewaki@gmail.com
36	Garau Podi	CCDA	garuapodi14@gmail.com
37	Sonia Baine	CCDA	bainesonia65@gmail.com
38	Oala Iuda	FAO	oiuda12@gmail.com
39	Jealchris Inji	CCDA	injijealchris@gmail.com
40	Lorraine Wohi	Sunday Bulletin	lorrainyombie@gmail.com
41	Terence Barambi	CCDA	larsonwavi@gmail.com
42	Kingley Tabi	Wantok Niuspepa	kingsleytabing@wantokniuspepa.com
43	Jina Amba	CCDA	jinaambamul@gmail.com
44	Samson Kupale	CCDA	skupale@gmail.com
45	Bir Mandal	FAO	Bir.Mandal@fao.org
46	Paul Hasagama	FAO	Paul.Hasagama@fao.org

B) Virtual Attendance

No	Name	Organisation	Email
1	Mr. Ian Orrell	NBPOL	ian.orrell@nbpol.com
2	Tafulu Sariman	UNDP	takfulu.sariman@undp.org
3	Daniel Waldi	UNRE	waldi.daniel58@gmail.com
4	Masamichi Haraguchi	FAO	masamichi.haraguchi@gmail.com

5	Sophie Taylor	DFAT	Sophie.Taylor@industry.gov.au
6	Skye tuner-Walker	UNDP	Skye.Turner-Walker@undp.org

2: Pictures of the Event



Photo 1: Head of FAO PNG, Mr Bir Mandal and Chief Representative of JICA_PNG, Mr Koinuma Masato displaying the two documents with other participants during the Validation Workshop



Photo 2: Ms. Debra Sungi, outlining the objectives of the workshop during the first day.

3: Press release and links to the media coverages

1. <https://www.fao.org/papua-new-guinea/news/detail-events/ru/c/1480043/>
2. <https://www.facebook.com/FAOinPNG/posts/pfbid028ZXQUK6gVcWihAyiG3saa62pp9a5Q2ARr8vnXadjAgAsX8MApJYv9N47WDQ8dQttI>