

Vanuatu's Integrated Monitoring Reporting and Verification (MRV) Tool for Climate Action Tracking



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Background

The Paris Agreement (PA), adopted in December 2015, sets out a global action plan that puts the world on track to avoid dangerous climate change by limiting global warming to well below 2°C. It refers to NDC 'Nationally Determined Contributions' that each individual country should make to achieve the worldwide goal set to reduce emissions of greenhouse gases (GHG's). Nationally determined contributions (NDCs) are at the heart of the Paris Agreement and the achievement of these long-term goals. NDCs embody efforts by each country to reduce national emissions and adapt to the impacts of climate change. Another important aspect of PA is enhanced transparency framework (ETF); Article 13 of the Paris Agreement established an enhanced transparency framework for action and support, with built-in flexibility which takes into account Parties' different capacities and builds upon collective experience. The purpose of ETF is to provide clarity on support provided and received by relevant individual Parties in the context of climate change actions, and, to the extent possible, to provide a full overview of aggregate financial support provided, to inform the global stocktake under Article 14.

Vanuatu parliament ratified the Paris climate change agreement on 18th June 2016. Upon ratification, the INDCs with emission reduction targets has become Nationally Determined Contributions (NDCs). The new Paris agreement on climate change entered into force on 4th November 2016. In view of the successful adoption and ratification of the Paris agreement, Vanuatu intends to initiate the preparatory activities for implementation of its NDCs. The mitigation contribution for the Vanuatu NDC submission is a sector specific target of transitioning to close to 100% renewable energy in the electricity (energy) sector by 2030.

Being a responsible party to the global climate change agreement Vanuatu has taken first of its kind initiative to implement Integrated Monitoring, reporting and verification (MRV) framework for climate actions. This voluntary initiative of Vanuatu is unique and commendable since the least developed countries (LDCs) and small island developing States (SIDS) are not obligated and have provided flexibility to prepare and communicate strategies, plans and actions for low greenhouse gas emissions development reflecting their special circumstances.

The key objective of Vanuatu's integrated MRV framework is to enhance Vanuatu's ability to achieve its mitigation NDC target through an MRV database and tool for quantification, monitoring and reporting and verification of GHG emission reductions in the energy sector. The overall impact will be to effectively reduce and monitor its GHG emissions and achieve its NDC commitment. In addition, the integrated tool enables Vanuatu to track the support and climate finance flow towards achieving the NDC goals along with Sustainable Development Goals and benefits.

Integrated Monitoring, Reporting and Verification (MRV) Framework

Integrated MRV framework for implementation of NDC designed as per the guidance and requirement under PA notably - Article 4, Article 5, Article 11, Article 12, Article 13, Article 14.

Fulfil requirements of "Transparency Framework" under the Paris Climate Change Agreement and potential use for market and non-market-based approaches under Article 6.

Key Benefits of Vanuatu's Integrated MRV

- Domestically-Vanuatu's Integrated MRV helps to strategies, plan, implement, track and assess the climate change mitigation actions including the status of GHG emissions, climate financial flow and SDG impacts (Co-benefits).
- Internationally- Integrated MRV will enable Vanuatu to meet the reporting requirements under the Paris agreement and other donor agencies requirements i.e. enhanced transparency framework of the Paris Agreement for post-2020 requirements Vanuatu is expected to report on their national GHG inventory, NDC actions and progress towards achieving their NDC goals, international support provided etc.

Other benefits

- Build national capacities and ensure sustainability of reporting processes
- Provide the information basis for planning and implementing mitigation actions
- Unlock new sources of finance to combat climate change by documenting impact and good governance practices
- Inform national and international policymakers
- Identify needs for technical and financial support and assist in institutionalising activities related to reporting on climate change

Structure of Vanuatu's Integrated MRV System

The integrated MRV tool is a first of its kind initiative which enables tracking, reporting and verification:

- GHG emissions
- Impact of Climate Change mitigation (including NDC) actions
- Climate finance flows and
- SDG impacts (Based on the UNDP Climate Action Impact Tool-CAIT).

Components of Integrated MRV Framework

Component 1: National GHG Inventory

- GHG emission sectors
- Monitoring and data collection
- GHG emission calculation
- · Analysis and reporting
- · Results and communication

Component 2: NDC Implementation/Mitigation Action

- NDC implementation roadmap - Priority mitigation actions
- Tracking mitigation actions
- Monitoring and reporting
- · Results and communication

Component 3: Climate Finance Flow

- Climate finance for NDC implementation actions
- Finance & resources deployment sechedule
- Monitoring and reporting
- Results and communication

Component 4: Sustainable Development Goals (SDGs)

- SDGs mapping for mitigation actions
- Data for SDGs impact monitoring
- · Review and analysis
- SDGs reporting
- Results and communication

Integrated MRV Report , NDC Report (National GHGInventory Report (NIR), National Communications (NC), Biennial reports (BR) and Biennial Update Reports (BUR), International Financial & Technical Support

National GHG Inventory

- · GHG emission inventory for all sectors
- Monitoring and data Collection
- GHG emission calculation
- GHG emissions and time series analysis

NDC -GHG Mitigation Action Tracker

- NDC implementation roadmap
- GHG mitigation action implementation tracking
- Monitoring data collection and GHG analysis
- NDC action reporting annually and consolidated

Climate Finance Flow Tracker

- Climate finance for NDC action implementation
- Finance, budget & resources deployment
- Financial indicator monitoring and tracking
- NDC action reporting annually and consolidated

Sustainable Development Goals (SDG) Monitoring

- SDGs mapping for NDC/GHG mitigation actions based on UNDP Climate Impact Assessment Tool (CIAT-https://climateimpact.undp.org/#!/)
- · Monitoring and data collection for SDGs
- SDG Reporting annually and consolidated

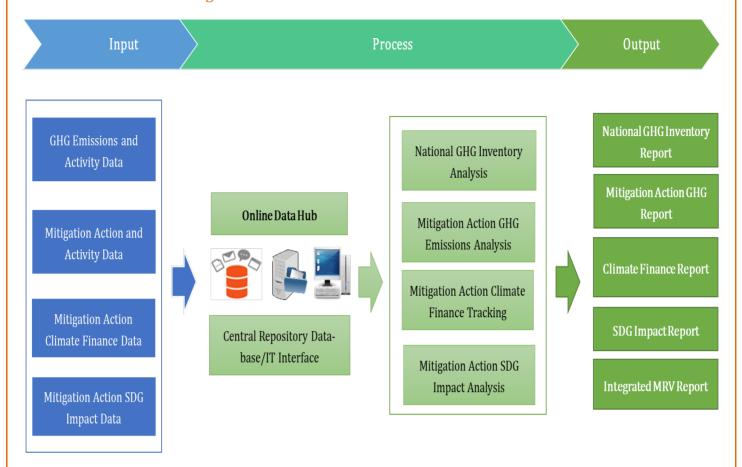
Climate Impact Policies

- National Policies for Climate Change
- Sectoral Policies
- Rules & Regulations

Knowledge Management and Capacity Building

- Training modules for stakeholders
- Data/information collection templates
- SOPs for data collection and calculations etc.

Structure of Vanuatu's Integrated MRV Framework



Key Features of Vanuatu's Integrated MRV Tool

- Preparation of national GHG inventory of Vanuatu according to 2006 IPCC for National Greenhouse Gas Inventories
- Pre-defined default 2006 IPCC Guidelines methods, fixed CO₂ equivalent types for separate categories or groups of categories as per IPCC-AR5
- Annual GHG emission inventory and tracking of emissions over the period (trend analysis)
- User-friendly interface for activity data input and automated calculation results
- Addon features for database administration, Quality Control, data export / import as well as data reporting
- Define NDC actions (projects and programmes) for mitigation and adaptation or cross-cutting
- Periodic monitoring feature for each NDC action and performance of each activity and action
- Unique ID for each NDC action and tracking of GHG emission from each mitigation measure (avoid double counting)
- Project finance tracking, budget and expenditure monitoring
- Environment integrity and Sustainable development impact assessment and monitoring during the operational phase
- Generate report -Customise reports as per the domestic and international reporting requirements, along with flexibility to incorporate additional reporting requirement
- Imperative tool for result based financing

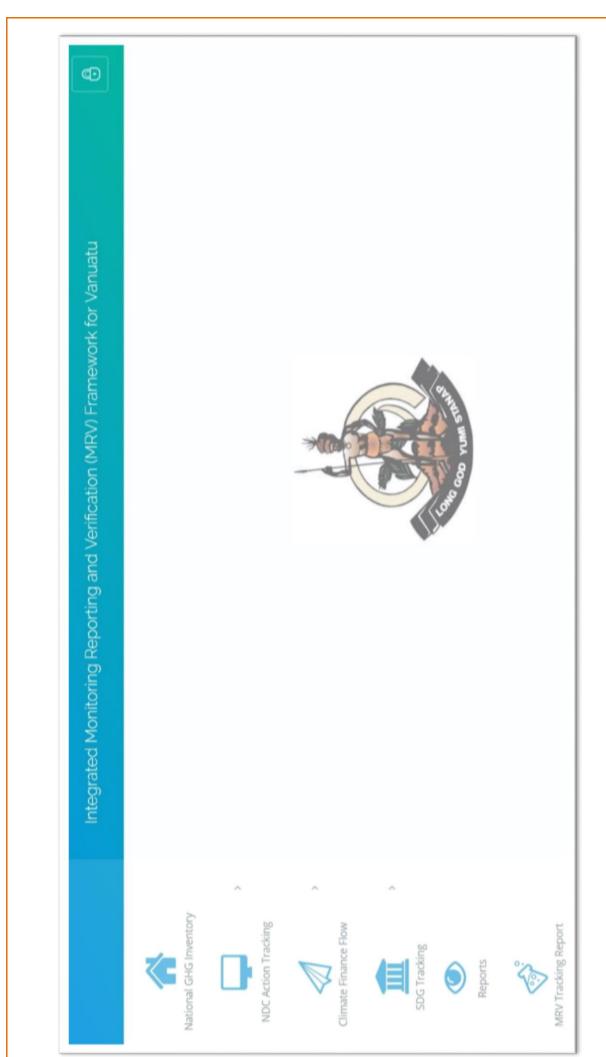
Integrated MRV Framework for Vanuatu (Tool)



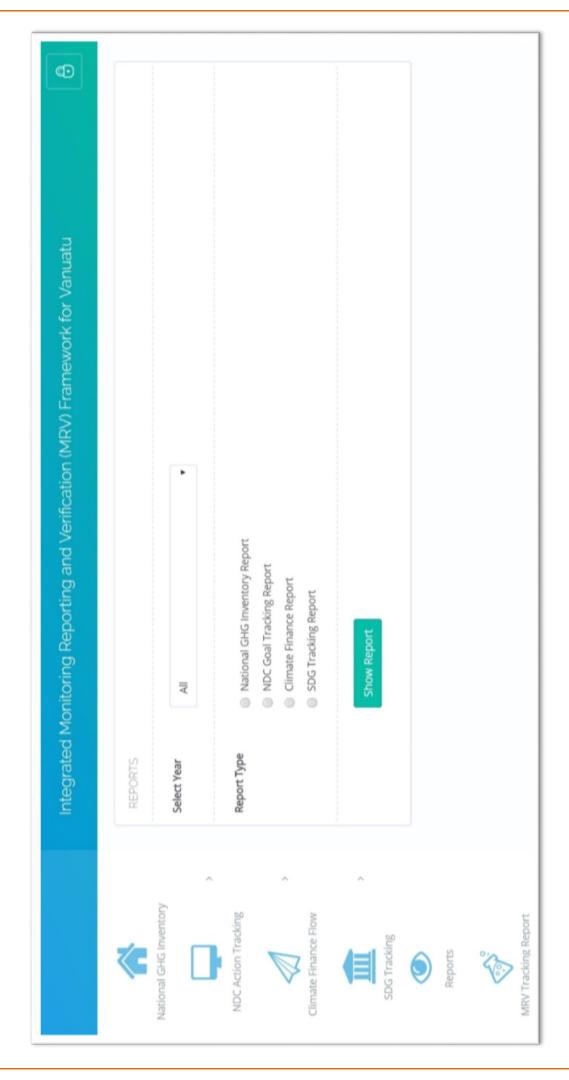
INTEGRATED MRV FRAMEWORK FOR VANUATU



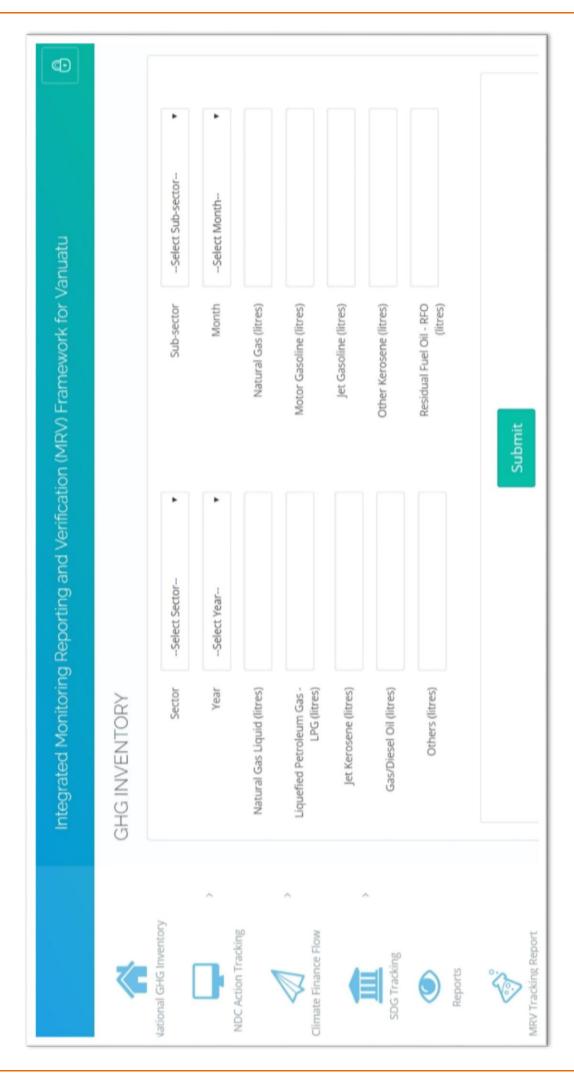
Integrated MRV Tool



Integrated MRV Tool - Dashboard



Integrated MRV Tool - Reports



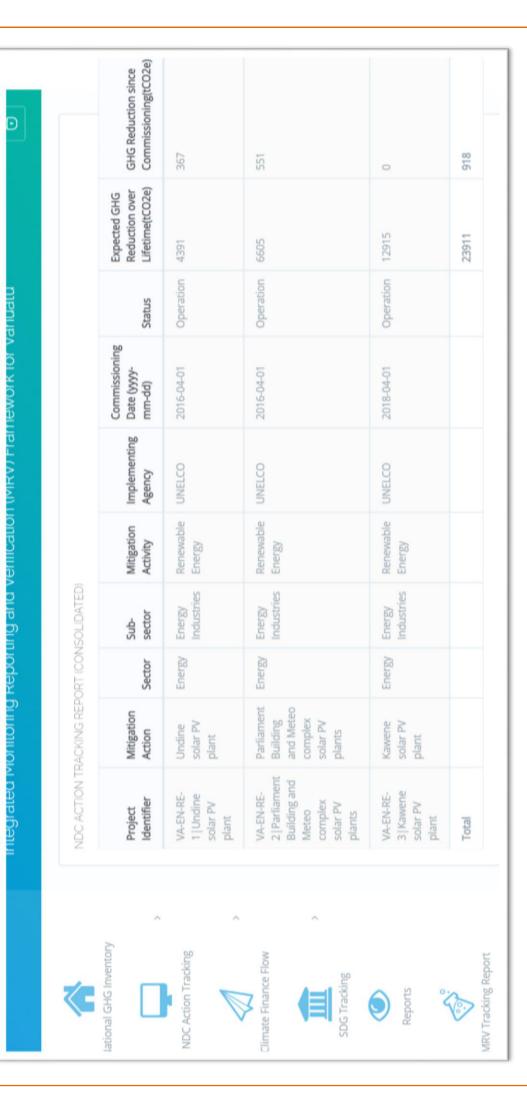
Integrated MRV Tool - GHG Inventory Input (Energy Sector)



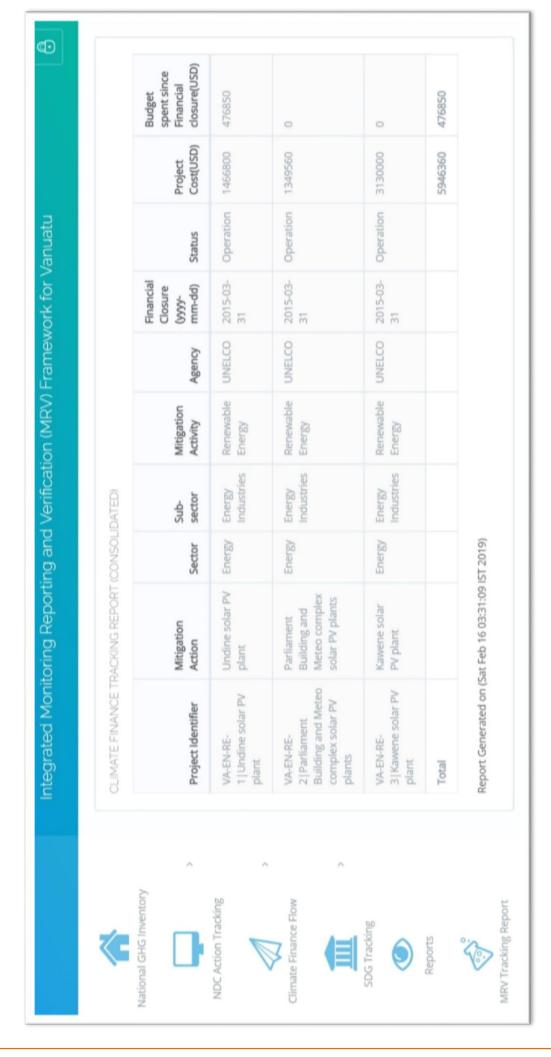
Integrated MRV Tool - Annual GHG Inventory Report (Energy Sector)



Integrated MRV Tool - Consolidated GHG Report



Integrated MRV Tool - NDC Goal Tracking Report (Consolidated)



Integrated MRV Tool - Climate Finance Tracking Report (Consolidated)



Integrated MRV Tool - SDG Tracking Report (Consolidated)



Integrated MRV Tool – NDC Climate Action Tracking Report (Consolidated – GHG, CF and SDG)



Integrated MRV Tool – NDC Climate Action MRV Report-1 (Individual Project)



Integrated MRV Tool - NDC Climate Action MRV Report-2 (Individual Project)

