



Ministry of Tourism and Environment

# Report of the Stakeholder Workshop on Methodology for Mitigation Actions Tracking and Reporting

Consultancy Service for Tracking Mitigation Actions

June 2025

**CBIT Maldives**

Capacity Building for Improved Transparency  
of Climate Change Mitigation and Adaptation  
Actions in the Maldives





Ministry of Tourism and Environment  
Male', Republic of Maldives

# Report of the Stakeholder Workshop on Methodology for Mitigation Actions Tracking and Reporting

Consultancy Service for Tracking  
Mitigation Actions

## CBIT MALDIVES

Capacity Strengthening for Improved Transparency of  
Climate Change Mitigation and Adaptation Actions in the  
Maldives Project





Ministry of Tourism and Environment

Capacity Strengthening for Improved  
Transparency of Climate Change  
Mitigation and Adaptation Actions in the  
Maldives Project (CBIT Maldives)



This document was developed under the project “Capacity Strengthening for Improved Transparency of Climate Change Mitigation and Adaptation Actions in the Maldives (CBIT Maldives)”, financed by the Global Environment Facility (GEF).

The project is executed by the Ministry of Tourism and Environment, with implementation support from the United Nations Environment Programme (UN Environment).

*June 2025*

Consultant:



Riyan Private Limited



Grant Thornton

# Contents

<b>Executive Summary</b>	3
<b>Background of the Project</b>	4
<b>Inaugural Session</b>	5
Opening Remarks	5
<b>Technical Sessions</b>	5
Overview of NDC and Mitigation	5
Methodology report for tracking emission reduction	6
Breakout Session	6
Reporting Back	7
Closing Remarks	9
<b>Appendix 1: Attendance Sheet</b>	10
<b>Appendix 2: Stakeholder workshop agenda</b>	13
<b>Appendix 3: Photos taken during the workshop</b>	15

# Abbreviations

<b>Abbreviation</b>	<b>Full Form</b>
BTR	Biennial Transparency Report
CBIT	Capacity-Building Initiative for Transparency
CO <sub>2</sub> eq	Carbon Dioxide Equivalent
EPA	Environment Protection Agency
GEF	Global Environment Facility
GHG	Greenhouse Gas
IPCC	Intergovernmental Panel on Climate Change
MACL	Maldives Airports Company Limited
MBS	Maldives Bureau of Statistics
MoTE	Ministry of Tourism and Environment
MoTCA	Ministry of Transport and Civil Aviation
MNU	Maldives National University
MPL	Maldives Ports Limited
MWSC	Male' Water and Sewerage Company
NDC	Nationally Determined Contribution
RE	Renewable Energy
SCADA	Supervisory Control and Data Acquisition
SOE	State-Owned Enterprise
STO	State Trading Organization
STELCO	State Electric Company Limited
UNFCCC	United Nations Framework Convention on Climate Change
URA	Utility Regulatory Authority
WAMCO	Waste Management Corporation Limited
WtE	Waste-to-Energy

## Executive Summary

The Stakeholder Workshop on Methodology for Mitigation Actions Tracking and Reporting was held in June 2025 under the “Capacity Strengthening for Improved Transparency of Climate Change Mitigation and Adaptation Actions in the Maldives” (CBIT Maldives) project. This initiative, executed by the Ministry of Tourism and Environment (MoTE) with support from UN Environment and funded by the Global Environment Facility (GEF), aims to enhance the Maldives’ capability to track and report mitigation actions effectively.

The Maldives is committed to reducing 1.52 million tonnes of CO<sub>2</sub>eq by 2035. However, recent assessments show a gap in current mitigation measures. To bridge this gap, the workshop was convened to validate methodologies for tracking mitigation actions in the energy and waste sectors, aligned with the Nationally Determined Contributions (NDCs).

The workshop was attended by 38 participants (18 males and 20 females) from various government agencies, utility companies, and academic institutions. Key sessions included an overview of NDCs and mitigation strategies, a presentation on the methodology for tracking emission reductions, and group discussions to review proposed indicators and data requirements.

Participants provided valuable feedback on the feasibility, relevance, and applicability of sector-specific indicators. Breakout sessions facilitated deeper engagement, and the collective feedback confirmed broad agreement with the proposed methodologies. Notably, stakeholders recommended including the transport sector in future assessments and emphasized the need for reliable data, especially in the waste sector.

The workshop concluded with a shared understanding of the importance of a standardized tracking framework and a strong commitment from stakeholders to support transparent and effective climate action monitoring in the Maldives.

## Background of the Project

The Maldives is committed to reduce 1.52 million tonnes of CO<sub>2</sub>eq in 2035, conditional on receiving adequate support and financial resources, technology, capacity building, and other means of implementation in the context of sustainable development<sup>1</sup>. The Biennial Transparency Report (BTR1) submitted in November 2024 indicates that current mitigation actions will only achieve a 17% reduction, revealing a 9% gap. Key mitigation strategies include expanding renewable energy, improving energy efficiency, waste-to-energy initiatives, and transitioning to cleaner transport systems. In 2022, total Green House Gases (GHG) emissions were 2,359.7 kt CO<sub>2</sub>eq, with the energy sector contributing 96.33% and waste 3.67%.<sup>2</sup>

Maldives faces significant challenges due to its reliance on fossil fuels, growing energy demand, limited renewable energy deployment, rising transport emissions, and inefficient waste management. Addressing these issues is critical to achieving its climate goals. “Capacity Strengthening for Improved Transparency of Climate Change Mitigation and Adaptation Actions in the Maldives” project funded by Global Environment Facility (CBIT Maldives) is executed by the Ministry of Tourism and Environment with implementation support from UN Environment. The objective of this consultancy is to support the development of guidelines for GHG reporting, tools and methodologies for tracking mitigation indicators, and an integrated online tracking system to monitor NDC implementation effectively significant step has been taken by the country in the field of energy conservation and energy transition.

The objective of this stakeholder work was to validate the methodology for tracking mitigation aspects (energy and waste) in the NDC. As part of this workshop stakeholders to discuss mitigation actions and identify the key indicators necessary for tracking these mitigation actions and methodology for estimation of GHG reduction. A total of 38 participants (18 males and 20 females) attended the workshop. Participants included representatives from the Climate Change Department, Energy Department, Waste and Pollution Control Department, Air Quality Unit, and Ozone Unit of the Ministry of Tourism and Environment (MoTE). Other institutions represented included the Environment Protection Agency (EPA), Ministry of Transport and Civil Aviation (MoTCA), Maldives Bureau of Statistics (MBS), Utility Regulatory Authority (URA), Waste Management Corporation Limited (WAMCO), State Electric Company Limited (STELCO), Male’ Water and Sewerage Company (MWSC), State Trading Organization (STO), Maldives Airports Company Limited (MACL), Maldives Ports Limited (MPL), and Maldives National University (MNU). The attendance sheet of the workshop participants is attached in Appendix 1. The consultation provided a platform for collaborative dialogue and alignment on key mitigation priorities and monitoring frameworks.

---

<sup>1</sup> [Maldives NDC 3.0](#)

<sup>2</sup> [Maldives BTR1](#)



## Inaugural Session

Ms. Mariyam Ishrag Waheed (Senior Research Expert, Riyan Pvt Ltd), welcomed all the participants and dignitaries. She provided a brief overview of the project and the workshop agenda (Appendix 2).

### Opening Remarks

The workshop was inaugurated with remarks from Mr. Amjad Abdulla (Director General, Climate Change Department, Minister of Tourism and Environment). He welcomed all participants to the workshop and emphasized the significance of establishing a robust mitigation framework to effectively monitor actions supporting greenhouse gas (GHG) reduction. He reaffirmed the Maldives' commitment to lowering its GHG footprint and advancing sustainability. Encouraging active participation, he invited attendees to contribute meaningfully to the discussions and share their insights. He also urged everyone to make the most of this platform by offering constructive feedback that will aid in strengthening climate action monitoring and enhancing national reporting systems.



The opening remark was followed by group photo and then technical session.

## Technical Sessions

### Overview of NDC and Mitigation

The session was led by Mr. Mohamed Mareer Husny, Climate Change Expert at Riyan Private Limited, presented an overview of the Maldives' NDC 3.0 and its mitigation actions. This session set the context for understanding the country's mitigation measures and the importance of tracking these actions effectively.

He outlined the key requirements under the Paris Agreement, emphasizing the significance of both mitigation and adaptation efforts in addressing climate change. The Maldives' mitigation actions focus primarily on the energy, transport and waste sectors, which are among the largest contributors to national GHG emissions.



He highlighted a range of mitigation actions already being implemented, including initiatives to enhance energy efficiency, expand renewable energy deployment, and improve waste management practices. These efforts reflect the Maldives' proactive approach to transitioning toward a low-carbon and climate-resilient development pathway.

The importance of establishing clear indicators, reliable data collection mechanisms, and strong institutional coordination to ensure transparency, accountability, and continuous progress in climate action is identified as crucial step for tracking mitigation action. As this would enable stakeholders to monitor the actions and take action if required to put the emission trend inline with the NDC targets.

Post his session, he invited the Mr. Nand Gopal Esambadi (Director, Grant Thornton Bharat LLP), to discuss on the proposed methodology.



## Methodology report for tracking emission reduction

Mr. Nand Gopal Esambadi (Director, Grant Thornton Bharat LLP) delivered a comprehensive presentation on the methodology report for tracking emission reductions. He began by introducing the United Nations Framework Convention on Climate Change (UNFCCC) and outlining the objectives of the stakeholder consultation. The primary aim of the session was to present the developed methodologies for estimating mitigation indicators to support the tracking of NDC implementation in the Maldives.



He highlighted that the project team had engaged with multiple stakeholders to assess data availability and its relevance to mitigation tracking. Various emission scenarios and calculation approaches tailored to each sector were developed and deliberations with stakeholders were held to arrive at the appropriate sector-specific methodology in line with the IPCC guidelines and based on the availability of information within the country. During his presentation he presented the summary of the proposed key indicators for the energy efficiency, renewable energy, and waste sectors.

He stressed the importance of this stakeholder consultation as a critical step in the process. It serves not only to gather feedback on the proposed indicators and data requirements but also to build consensus on the methodology to be adopted for tracking mitigation actions in the energy and waste sectors. He emphasized that this collaborative approach ensures that the final methodology is both practical and aligned with national capacities and priorities. To conclude, he presented the proposed indicators and data required to arrive at the indicators for each sector - energy efficiency, renewable energy, and waste. He also posed a set of reflective questions to stakeholders, encouraging them to share their independent feedback on the proposed methodology. Highlighting that feedback will be instrumental in refining and finalizing the methodology, ensuring it is both practical and aligned with stakeholder needs.

Following presentation, a breakout session on key indicators for tracking mitigation actions was initiated.

## Breakout Session

During the breakout session, participants were divided into three groups, each comprising representatives from various departments to ensure diverse perspectives. The group discussions were facilitated by consultants and CCD, with additional support from team members of Grant Thornton Bharat LLP and Riyan Private Limited.

Summary				Breakout sessions
Mitigation Action	Renewable Energy	Energy Efficiency	Waste-to-energy	<p>Q1: What is your views on the indicators?</p> <p>Q2: Will the concerned department/agency be able to provide the data required to arrive at indicator?</p> <p>Q3: What is the source of data and how the data is collected?</p> <p>Q4: Do you have a Quality Check mechanism on the collected data?</p> <p>Q5: Would these indicators be enough to track mitigation action or do you feel we need to define and track more indicators?</p> <p>Q6: Any other suggestions to simplify the methodology proposed?</p>
Indicator	Annual electricity generation (kWh/year) Or Installed capacity (kW)	Annual electricity consumption reduction (kWh/year)	Quantity of waste processed in WIE plant (TPY)	
Data Required	<ul style="list-style-type: none"> <li>Annual electricity generation (kWh/year)</li> <li>Or</li> <li>Installed capacity (kW)</li> </ul>	<ul style="list-style-type: none"> <li>Maximum rating and equipment capacity</li> <li>Or</li> <li>Power rating of base and new equipment (W) and operating hours</li> </ul>	<ul style="list-style-type: none"> <li>Quantity of waste processed in WIE plant (TPY)</li> </ul>	

The primary objective of the session was to gather feedback on the indicators and methodologies presented in the earlier session. Each group engaged in extensive brainstorming around the proposed key indicators for energy efficiency, renewable energy, and waste sectors. Participants discussed the

relevance, feasibility, and data availability for each indicator, contributing valuable insights based on their departmental experiences and expertise.



The group discussions helped identify useful ideas and possible challenges, which will help improve the method for tracking mitigation actions.



The viewpoints and perspectives discussed by each group were collected and shared during the reporting-back session. This iterative and inclusive exercise enabled the project team to gather diverse insights from participants, which contributed to building a broader consensus on a robust, practical, and widely accepted methodology for tracking mitigation actions.

## Reporting Back

During this session, collective feedback from all three groups was gathered. A representative from each group presented the consolidated feedback based on the discussions held in the previous breakout session.

### Consolidated feedback shared by Group 1:

- Fuel consumption could be one indicator for RE:
- Custom could provide RE import data
- SoE has a mandate for sustainability report, could be used for data validation.
- Waste-to-Energy (WtE): waste data is not available, that should be first priority.

During the discussion on key points, it was noted that tracking fuel consumption may be challenging for private sector entities, making it a less feasible indicator. Additionally, while sustainability reports from SOE's are available for listed companies, they cannot serve as a universal reference for all stakeholders. Regarding the waste sector, participants highlighted that reliable waste data is currently unavailable. However, once WtE projects become operational, the amount of waste consumed by the plants can serve as a key monitoring parameter. Group -1 aligns with the proposed indicator and data required formats proposed by the project team.

**Consolidated feedback shared by Group 2:**

- QC method available with STELCO and FENEKA
- EE: A baseline study can be conducted but its time-taking and expensive exercise.
- WtE: Once WtE plants comes they will monitor kWh and daily waste quantity.

During the discussion on key points, it was noted that the quality control methods used by STELCO and FENAKA can be reported to ministry if demanded during BTR preparation. Regarding the baseline study, it was suggested that the Ministry could take the lead. In the meantime, the existing standards and labelling programs already cover the majority of appliances sold in the country and can be used as a reference. For the waste sector, participants agreed that the quantity of waste generated is the most fundamental parameter that can be monitored at this stage this can be used.

**Consolidated feedback shared by Group 3:**

- STELCO has SCADA data for higher level of monitoring, if required.
- Need to include transport also under the mitigation measures.

During the discussion on key points, it was noted that the SCADA-based data may be specific to STELCO and might not be applicable to smaller or other stakeholders, where data collection remains a significant challenge at present. However, as data collection systems improve in the coming years, the proposed methods could be considered for inclusion in future revisions.

Suggestion regarding the inclusion of the transport sector, the project team has considered the feedback provided by the group and will incorporate it into the revised guidelines.

**Summarizing the feedback and way forward**

The viewpoints shared by various participants were largely aligned with the proposed methodological framework across different sectors. Representatives from multiple organizations expressed their agreement with the indicators presented during the workshop. Given the current context, where mitigation tracking is just being initiated, the proposed indicators were well received and considered appropriate for launching the mitigation tracking process by the different stakeholders

Mitigation Action	Renewable Energy	Energy Efficiency	Waste-to-energy
Indicator	Annual electricity generation (kWh/year) Or Installed capacity (kW)	Annual electricity consumption reduction (kWh/year)	Quantity of waste processed in WtE plant (TPY)
Data Required	<ul style="list-style-type: none"> <li>▪ Annual electricity generation (kWh/year)</li> <li>Or</li> <li>▪ Installed capacity (kW)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Hakathari rating and equipment capacity</li> <li>Or</li> <li>▪ Power rating of base and new equipment (W) and operating hours</li> </ul>	<ul style="list-style-type: none"> <li>▪ Quantity of waste processed in WtE plant (TPY)</li> </ul>

During the conclusion CBIT team suggested project team to include the transport section also under this assessment.

## **Closing Remarks**

The project team presented the vote of thanks, they also expressed their sincere appreciation to all participants for sharing their valuable feedback. Special gratitude was extended to the representatives from various departments for taking the time to attend the stakeholder consultation workshop and contribute their insights.



# Appendix 1: Attendance Sheet



**Ministry of Tourism and Environment**  
Republic of Maldives

## Stakeholder Workshop on Methodology for Mitigation Actions Tracking and Reporting

Date: 27 May 2025 | Venue: Meeruma

No	Name	Organization	Designation	Signature
1	Ahmed Masoon	Climate Change Department, Ministry of Tourism and Environment	Programme Officer	[Redacted]
2	Juruath Abdulla Nafiz	Climate Change Department, Ministry of Tourism and Environment	Programme Officer	-
3	Fathimath Nashwa	Climate Change Department, Ministry of Tourism and Environment	Assistant Director	[Redacted]
4	Ahmed Waheed	Climate Change Department, Ministry of Tourism and Environment	Director	[Redacted]
5	Amjad Abdulla	Climate Change Department, Ministry of Tourism and Environment	Director General	[Redacted]
6	Nafha Abbas	Air Quality Unit, Ministry of Tourism and Environment	Chemicals Management Officer	[Redacted]
7	Maiha Hameed	Air Quality Unit, Ministry of Tourism and Environment	Senior Air Quality Management Officer	-
8	Aminath Seeza	Energy Department, Ministry of Tourism and Environment	Assistant Director	[Redacted]
9	Fathimath Haifa	Ozone Unit, Ministry of Tourism and Environment	Environmental Analyst	[Redacted]
10	Aishath Shuaila Rasheed	Ozone Unit, Ministry of Tourism and Environment	Project Coordinator	[Redacted]
11	Fathimath Siba	Waste and Pollution Control Department, Ministry of Tourism and Environment	Programme Officer	[Redacted]
12	Mariyam Shadeena	Maldives Bureau of Statistics	Deputy Statistician	[Redacted]
13	Aishath Aniya	Maldives Bureau of Statistics	Statistical Officer	[Redacted]
14	Fathimath Fizna Yoosuf	Utility Regulatory Authority	Director	[Redacted]

**CBIT MALDIVES**  
Capacity Strengthening for Improved  
Transparency of Climate Change Mitigation  
and Adaptation Actions in the Maldives Project





No	Name	Organization	Designation	Signature
15	Aminath Mohamed	Utility Regulatory Authority	Director	
16	Aishath Farah	Waste Management Cooperation	Assistant Manager	
17	Mohamed Faizan Faiz	State Electricity Company	Assistant Engineer	
18	Ahmed Rizhan Qasim	State Electricity Company	Service Supervisor	
19	Ahmed Amjad Ismail	Male' Water and Sewerage Company	Plant Operations Manager	
20	Aminath Najiyath Shareef	State Trading Organisation	(Governance Associate)	
21	Mikail Ibrahim Shareef Mohamed	State Trading Organisation	(Governance Associate)	
22	Hussain Arubaan Fawwaz	Maldives Airports Company	Environment Manager	
23	Abdulla Shaif	Maldives Ports Limited	Asst. Service Engineer	
24	Shafraz Abdul Muhusin	Maldives Ports Limited	Lead Planner	
25	Dr. Shazla Mohamed	Maldives National University	Senior Research Fellow	
26	Ms. Mariyam Nashath	Maldivian National University	Senior Lecturer	
27	Gasith Mohamed	NDC Partnership, Ministry of Tourism and Environment	In country facilitator	
28	Mohamed Inaz	CBIT Project Team, Ministry of Tourism and Environment	Technical Coordinator	
29	Aneesa Yoosuf	Riyan Pvt Ltd	Head of Research and Planning	
30	Mariyam Ishraag Waheed	Riyan Pvt Ltd	Senior Research Officer	
31	Mareer Mohamed Husny	Riyan Pvt Ltd	Climate Change Expert	
32	Manoj Kumar Bansal	Grant Thornton Bharat LLP	Partner	
33	Nand Gopal Esambadi	Grant Thornton Bharat LLP	Director	
34	Amit Seth	Grant Thornton Bharat LLP	Manager	





No	Name	Organization	Designation	Signature
35	Aminath Ueihan	MOICA	Certification officer	
36	Shamshah Shamsah	MOICA	Transport officer	
37	Raniya Husain Al Surood	MOTE, CCD	Programme Officer	
38	Hassan S/O	MPL	Legal Counsel	
39	Ibrahim Hazam	environmental protection agency	assistant observer	
40	F. Raufa Moosa	MOTE	Project Technical Coordinator	
41	Thibyan Ibrahim	MOTE	Director	
42				
43				
44				
45				

## Appendix 2: Stakeholder workshop agenda



**Ministry of Tourism and Environment**  
Republic of Maldives

### **Stakeholder Workshop on Methodology for Mitigation Actions Tracking and Reporting**

**Date: 27 May 2025 | Venue: Meeruma**

#### **Overview and Objectives of the Stakeholder Consultation**

The Ministry of Tourism and Environment is organizing a stakeholder consultation under the project "Capacity Strengthening for Improved Transparency of Climate Change Mitigation and Adaptation Actions in the Maldives" (CBIT Maldives). The project is funded by the Global Environment Facility (GEF) and supported by UN Environment.

The objective of the consultation is to:

- Review the proposed methodology for tracking mitigation actions in the energy and waste sectors.

The consultation will be conducted in English and will include presentation on the proposed mitigation action tracking methodologies and tool, discussions with stakeholders, and feedback on assumptions. Participants can share their feedback during the workshop or within one week after the workshop.

This consultation is being carried out by Riyan Private Limited in association with Grant Thornton Bharat LLP, under the consultancy to develop tracking of mitigation actions as part of the CBIT Maldives project.

**CBIT MALDIVES**  
*Capacity Strengthening for Improved  
Transparency of Climate Change Mitigation  
and Adaptation Actions in the Maldives Project*





## Agenda

<i>Time</i>	<i>Details</i>	<i>Taken By</i>
08:45 am – 09:00 am	Registration	
09:00 am – 09:15 am	Opening Remarks	Ministry of Tourism and Environment
09:15 am – 09:45 am	Tea break	
09:45 am – 10:00 am	Overview of NDC and Mitigation	Mohamed Mareer Husny, Riyan Private Limited
10:00 am – 10:40 am	Methodology report for tracking emission reduction	Nand Gopal Esambadi, Grant Thornton Bharat LLP
10:40 am – 11:30 am	Breakout Session on Key Indicators for tracking mitigation actions	Grant Thornton, Riyan Pvt Ltd
11:30 am – 12:00 pm	Reporting Back	Participants, Grant Thornton, Riyan Pvt Ltd
12:00 pm	Closing	Ministry of Tourism and Environment
12:00 pm – 01:00 pm	Lunch	





## Appendix 3: Photos taken during the workshop

