



**Ministry of Climate Change,  
Environment and Energy**

# **Workshop reports of inter-ministerial coordination mechanism consultation and finalization - Workshop Report 2**

**Consultancy Services to Review and  
Strengthen the Institutional Arrangements for  
Climate Change Reporting**

**CBIT Maldives**

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





**Ministry of Climate Change, Environment and Energy**  
Male', Republic of Maldives

# **Workshop Report on Inter-Ministerial Coordination Mechanism Consultation and Finalization**

## **Workshop Report 2: Stakeholder consultation on regulation on GHG Inventories and MRV**

*(This workshop is part of a series that fulfills Deliverable 1.1.4: Three Workshop  
Reports of Inter-Ministerial Coordination Mechanism Consultation and  
Finalization)*

Consultancy Services to Review and Strengthen the Institutional Arrangements for  
Climate Change Reporting

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





Ministry of Climate Change, Environment and Energy

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



This document has been financed by the Global Environment Facility (GEF), through Capacity Strengthening for Improved Transparency of Climate Change Mitigation and Adaptation Actions in the Maldives Project (CBIT Maldives), executed by the Ministry of Climate Change, Environment and Energy (MCCEE) with implementation support from UN Environment.

*September 2024*

Consultant:

**Up Close**  
SOLUTIONS

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## Executive Summary

As part of a consultancy project to review and strengthen institutional arrangements for Climate Change Reporting, a workshop was held on 11<sup>th</sup> September 2024. The main objective of the workshop includes.

1. To discuss and obtain feedback of draft regulation on GHG inventories and MRV of mitigation actions.

The workshop was held in the Auditorium of the Ministry of Climate Change, Environment and Energy (MCCEE). 25 participants from different stakeholders joined the workshop to provide the feedback for the draft regulation on GHG inventories and MRV of mitigation actions.

The workshop was conducted in plenary session presentations and plenary discussions. The plenary discussions were facilitated by the consultants. The discussions were aimed to obtain feedback in order to enhance the draft deliverables.

The workshop is one of three workshops that collectively fulfill Deliverable 1.1.4: “Three (3) Workshop reports of inter-ministerial coordination mechanism consultation and finalization” of the CBIT Maldives project.

## 1. Introduction

The Capacity Building Initiative for Transparency (CBIT) project of Maldives is aimed to strengthening institutional capacity for tracking mitigation and adaptation actions and establishing climate finance tracking system in the Maldives. It aims to establish and enhance the Maldives' transparency system, in line with Enhanced Transparency Framework (ETF) of Paris Agreement.

As part of the Maldives CBIT project, Up Close Solutions Pvt Ltd was recruited as consultants for review and strengthen the institutional arrangements for Climate Change reporting. The main objective of the assignment is the review and development of institutional arrangements for continuous national reporting in line with the Enhanced Transparency Framework (ETF) of the Paris Agreement including the development of the legal arrangements for the institutional arrangements. Under the consultancy assignment, a draft regulation on GHG inventories and MRV of mitigation actions were developed by the consultants;

The workshop was held on Wednesday, 11<sup>th</sup> September 2024 to present the draft regulation on GHG inventories and MRV of mitigation actions developed under the consultancy project. This workshop is the second of the three workshops which will be held to consult the main deliverables of the Consultancy Project. The first workshop was held on 16<sup>th</sup> July 2024 to present the draft Maldives ETF roadmap and draft regulation on GHG inventories and MRV of mitigation actions. The last workshop will be "Final Presentation of Maldives ETF Roadmap, GHG MVR Regulation, and Key Findings to Stakeholder" and expected to be held on October 2024.

The workshop began with opening remarks from Mr. Ahmed Waheed, Director, Climate Change Department of MCCEE. Mr. Ahmed Waheed welcomed the participants of the workshop and highlighted the importance of the draft regulation which is being discussed in the workshop.

After the inauguration of the workshop presentations were given by the consultants. The presentation was focused on the GHG inventories and MRV of Mitigation actions and the draft regulation on the GHG inventories and MRV of mitigation actions.

This workshop report is aimed to archive the main discussions and the presentations given on the workshop to present and discuss the workshop to discuss draft regulation on Greenhouse Gas (GHG) Inventories and Monitoring Reporting and Verification (MRV) of mitigation actions. This report outlines as the following;

- **Objectives of the workshop:** the section includes the objectives of inception workshop will be described.
- **Presentations:** this section describes the two presentations given in the workshop. These presentations were given to orientate and facilitate the participants for the following group discussions.
- **Discussions:** this section captures the main discussions and recommendations made by the participants on the draft regulation on GHG inventories and MRV of mitigation actions.

## 2. Objectives of the workshop

The main objective of the workshop includes.

1. To orientate stakeholders regarding GHG inventories and MRV of mitigation actions.
2. To discuss and obtain feedback of draft regulation on GHG inventories and MRV of mitigation actions.

## 3. Presentations

### 3.1 GHG Inventories and MRV of mitigation actions

This presentation was given by Mr. Hamdhoon Mohamed, National Institutional Arrangement Specialist for the consultancy project. The main content of this presentation include the following;

- GHG inventories:
- GHG inventories reported by Maldives
- Reporting of Mitigation actions

The presentation slides have been attached in Annex 01 of this workshop report.

### 3.2 Regulation on GHG inventories and MRV of mitigation measures

This presentation was also given by Uz. Mohamed Aseel Hassan and the main content of this presentation include the following;

- Main features of Regulation;
- National MRV steering committee
- Guidelines for National MRV steering committee;
- Sectorial Working Groups
- Responsibilities of the sectorial working groups
- Data Sharing MOUs
- Data flow diagram

The presentation slides have been attached to Annex 02 of this workshop report.

## 4. Plenary Discussions

### 4.1 Main Discussions and Recommendations

The following table 1 enlists the main discussions regarding the draft regulation on GHG inventories and MRV of mitigation actions which were presented in the workshop.

Table 1: Main discussions and recommendations for the draft deliverables

Deliverable	Main Discussions	Recommendations
<p>Regulation on GHG inventories and MRV of mitigation action.</p>	<ul style="list-style-type: none"> <li>• Participants inquired regarding the data collected under this regulation can be used for other policy making purposes of the Ministry of Climate Change, Environment and Energy (MCCEE) by other departments like Energy Department.</li> <li>• Uz. Mohamed Aseel Hassan informed that the data collected can be used by other departments of MCCEE.</li> <li>• Participants inquired whether any punitive actions are outlined in the regulation for non-compliance in data providing.</li> <li>• Uz. Mohamed Aseel Hassan informed that no punitive actions are included in the regulation.</li> <li>• Participant inquired whether civil aviation reporting requirements to UNFCCC are included under this regulation.</li> <li>• MCCEE informed that civil aviation (COA) is not reported by MCCEE but rather it will be reported by the Civil Aviation Authority.</li> <li>• Participant inquired whether industrial application such as packing of LPG are included in the regulation.</li> <li>• Uz. Mohamed Aseel informed that there are no manufacturing or production of LPG done in Maldives only importation of LPG is considered in the regulation.</li> </ul>	<ul style="list-style-type: none"> <li>• Capacity building of stakeholders for any additional data collection is required.</li> <li>• A standard format for data collection is recommended and the format shall be shared with stakeholders in advance.</li> <li>• The provision for the other department of MCCEE to utilization of data collected under this regulation need to be clearly reflected in the regulation.</li> </ul>



Annex 1: Presentation on GHG Inventories and MRV of Mitigation  
Actions



# GHG Inventories and MRV of mitigation actions

Presented by: Hamdhoon Mohamed  
Up Close Solutions Pvt Ltd

# Outline for the presentation

GHG inventories

GHG inventories reported by Maldives

Reporting of Mitigation actions

What is a  
Green House  
Gases  
(GHG)  
inventory?

GHG inventory is a list of country's GHG emissions and removals, and their sources.

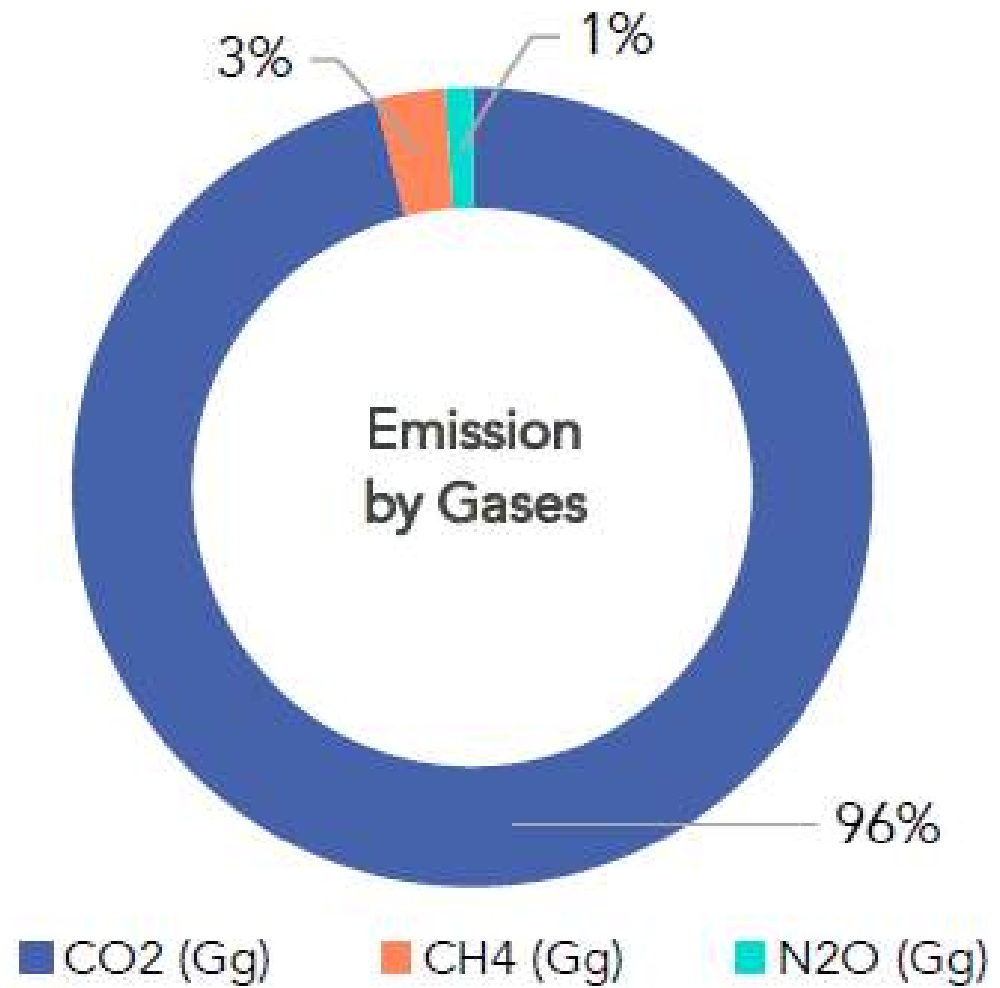
GHG inventories are reported in National Communications and Biennial Transparency Reports (BTRs) to United Nations Framework Convention on Climate Change (UNFCCC).

GHG gases include Water vapour (H<sub>2</sub>O), carbon dioxide (CO<sub>2</sub>), nitrous oxide (N<sub>2</sub>O), methane (CH<sub>4</sub>), ozone (O<sub>3</sub>), sulphur hexafluoride (SF<sub>6</sub>), hydrofluorocarbons (HFCs), chlorofluorocarbons (CFCs) and perfluorocarbons (PFCs)

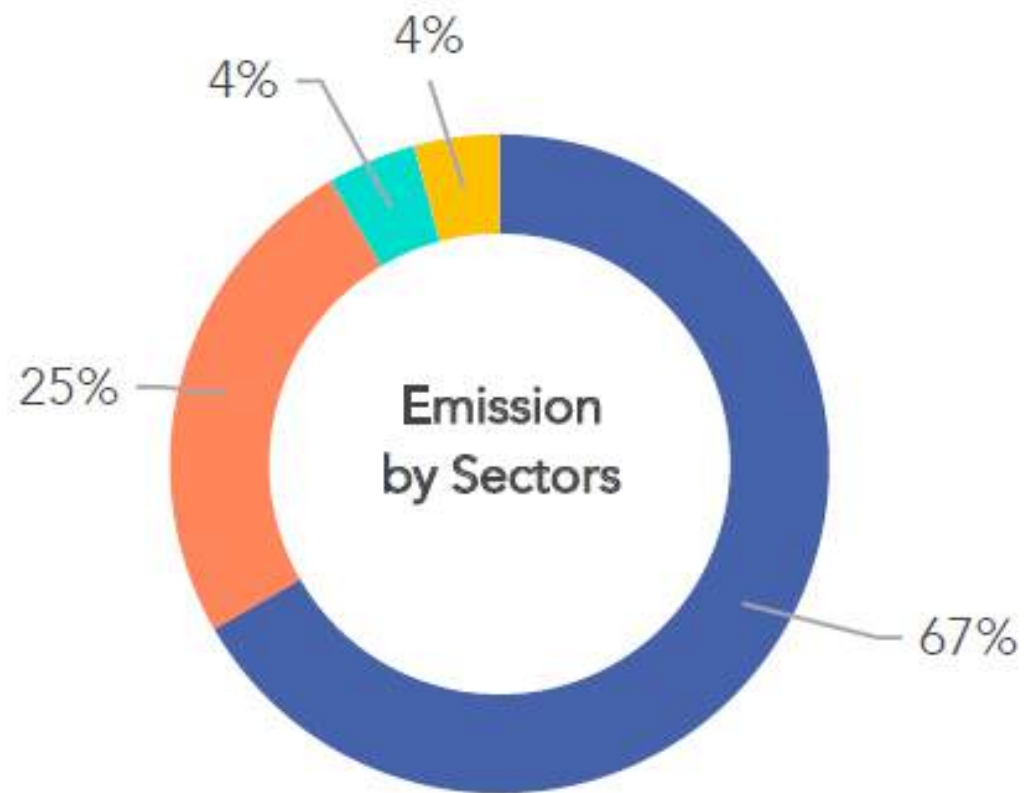
# GHG inventories of Maldives

Inventory Year	Guideline followed	Key Categories	Total CO <sub>2</sub> emission	Reported on
1994	1996 IPCC Guideline for GHG inventories	Energy Sector CO <sub>2</sub> emissions and Land Fills – Methane Emissions	152.98 Gg CO <sub>2</sub> e	First National Communication (FNC)
2011	2006 IPCC Guideline for GHG inventories	Electricity generation, transport, fisheries, domestic/commercial food preparation and waste	1225.6 Gg CO <sub>2</sub> e	Second National Communication (SNC)
2015	2006 IPCC Guideline for GHG inventories	Energy Industries - Liquid Fuels Water-borne Navigation - Liquid Fuels	1,536.04 Gg CO <sub>2</sub> e	Biennial Update Report (BUR1)

GHG  
Emissions  
in terms of  
Gases

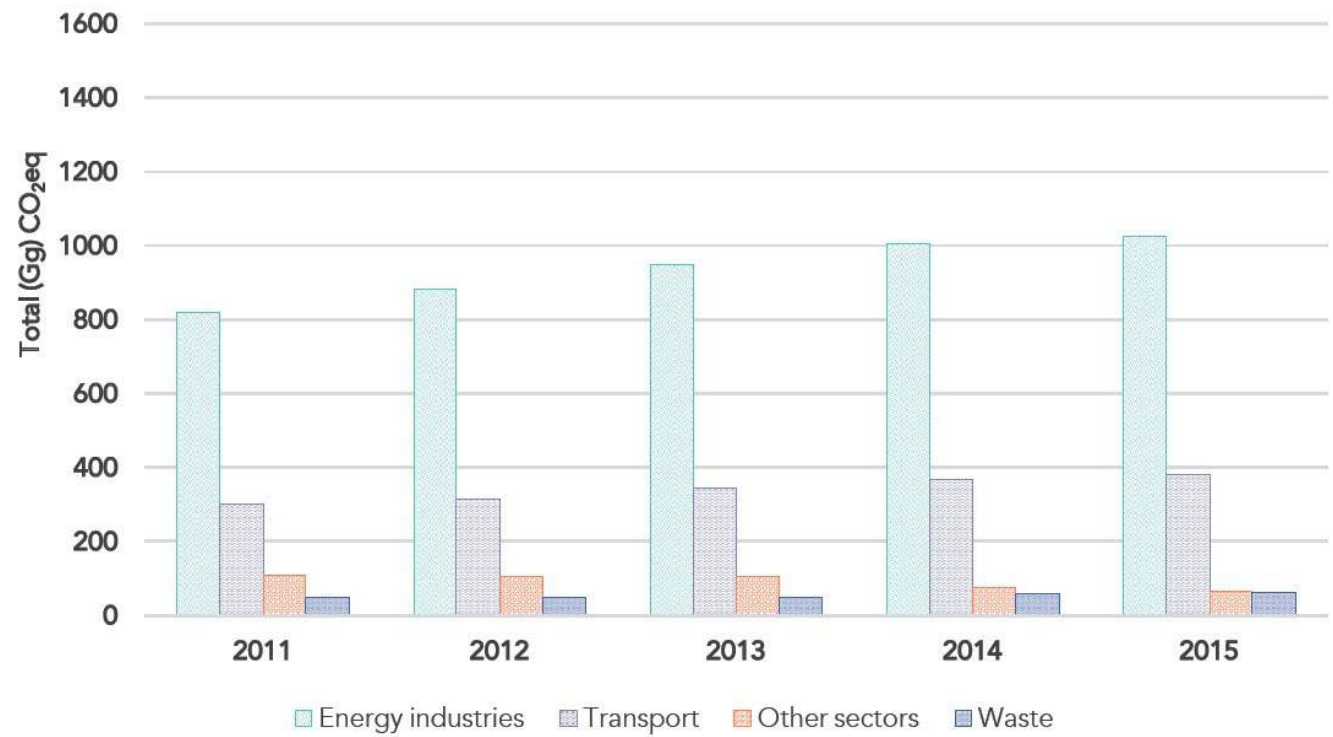


# Emission by sectors



■ Energy Industries ■ Transport ■ Other Sectors ■ Waste

# Emissions trends by sector





# Data Requirements for GHG Inventories

Sectors	Data Sources
Electricity production	<ul style="list-style-type: none"> <li>Energy balance reports 2010-2012</li> <li>Power production data from STELCO and FENAKA</li> <li>Power production data from MACL</li> <li>Power production data from Regional airports</li> <li>Power production data from MWSC</li> <li>Power production from resorts (limited data)</li> <li>Tourist bed-nights from tourism statistics year books</li> <li>Population data from National Bureau of Statistics</li> </ul>
Aviation data	<ul style="list-style-type: none"> <li>Fuel sold statistic from MACL</li> <li>Fuel import and re-export data Customs</li> </ul>
Transport (land and marine)	<ul style="list-style-type: none"> <li>Vehicle and vessels registration from National Bureau of Statistics</li> <li>Resort transport from resorts (limited data)</li> <li>Tourist bed-nights from tourism statistics year books</li> </ul>
Other energy usage	<ul style="list-style-type: none"> <li>Energy balance reports 2010-2012</li> <li>LPG usage from Maldivian Gas and Villa Gas</li> <li>LPG import from Customs</li> <li>LPG resort usage from Carbon Audit 2009</li> </ul>
Waste	<ul style="list-style-type: none"> <li>North Province Regional Waste Management Project: Technical and Financial Feasibility Report (2011)</li> <li>Malé waste audit 2008</li> <li>Population data from National Bureau of Statistics</li> <li>Assessment of solid waste management practices and its vulnerability to climate risks in Maldives Tourism Sector, 2013</li> </ul>

# MRV of mitigation actions

MRV stands for measuring reporting and verification

Mitigation actions are reported in National Communications and Biennial Transparency Reports.

Climate change mitigation involves actions to reduce or prevent greenhouse gas emissions from human activities.

Mitigation efforts include transitioning to renewable energy sources, enhancing energy efficiency, adopting regenerative agricultural practices and protecting and restoring forests and critical ecosystems

## Sectorial Breakdown of Emission Projections

Source of Emission	2011	2030	Percentage change
Commercial and Public Services	176.4	671.5	280.8%
Transport	263.9	740.4	180.5%
Industry	35.8	131.8	268.1%
Resorts	419.2	962.4	129.6%
Residential	226.2	707.3	212.7%
Fishing	58.0	71.4	23.1%
Waste	46.8	81.8	74.9%

# Reporting of Mitigation Actions

Name of Mitigation Action	Project for the Clean Energy Promotion in Male'
Nature of Action/ Description of project	Promotion of PV in Greater Male area. Install 740 kW of solar PV
Coverage	GHG CO <sub>2</sub> , CH <sub>4</sub> , NO <sub>x</sub>
Geographic Scope	Greater Male Region
Implementing Entity	Ministry of Housing and Environment (currently Ministry of Environment)
Start Year	2010
Status	Completed
Objective of the action/project	Promotion of PV in Greater Male area. Install 740 kW of solar PV
If an ongoing project: Steps taken or envisaged to achieve mitigation action	Not applicable
Estimated Emission Reduction	799.2 tCO <sub>2</sub> e per year
Progress Indicator	Electricity supplied annually from RE displacing fossil fuel
Methodology and Assumptions	Energy produced multiplied by grid emission factor
Any Co-Benefits if available from project documents and if quantifiable	Increase energy security Contributes to reduction in air pollutants
Contact Point	Ahmed Ali

Annex 2: Presentation of draft regulation on GHG inventories and MRV of mitigation action



# دَورِ حَرَدِ دَئِی سَوَئِر

- دَئِی سَوَئِر سَر سَوَئِر 2021/9 (سَوَئِر حَرَدِ دَئِی سَوَئِر) دَئِی سَوَئِر دَئِی سَوَئِر

- دَئِی سَوَئِر دَئِی سَوَئِر، دَئِی سَوَئِر، دَئِی سَوَئِر دَئِی سَوَئِر.

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# سَوَاعِدُ مَرْتَبَاتٍ وَفَرَاحَاتُهَا

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## MEMORANDUM OF UNDERSTANDING ON DATA SHARING

This Memorandum of Understanding on Data of Sharing (the "MOU") is entered into effect as of [DATE].

**BETWEEN:** Ministry of Climate Change, Environment and Energy, a Ministry of the Government of the Republic of Maldives with its offices at Green Building, Handhuvaree Hingun, Maafannu, Male', 20392, Republic of Maldives (hereafter referred to as "Ministry" or "Data Recipient")

**AND:** [MINISTRY], a Ministry of the Government of the Republic of Maldives with its offices at [ADDRESS] (hereafter referred to as "Data Provider").

The Data Recipient and Data Provider shall be referred to together as the "Parties".

### 1. PURPOSE AND SCOPE

1.1 This MOU shall govern the sharing of data between the Data Provider and the Data Recipient for the purpose of preparing reports that the Ministry is mandated to prepare and submit, as part of the Government of Maldives' various treaty reporting obligations under climate change related treaties, conventions, and international agreements that the Republic of Maldives is a party to.

### 2. DEFINITIONS

2.1 "Confidential Information" refers to any data or information that is identified as confidential or proprietary by the Data Provider

2.2 "Data" refers to the information shared by the Data Provider that is required by the Ministry to prepare Reports.

2.3 "Reports" refers to reports that the Ministry is mandated to prepare and submit, as part of the Government of Maldives' various treaty reporting obligations under climate change related treaties, conventions, and international agreements that the Republic of Maldives is a party to.

### 3. DATA SHARING OBLIGATIONS

3.1 The Data Provider agrees to share the Data with the Data Recipient for the purpose outlined in this MOU.

3.2 The Data Provider represents and warrants that it has the necessary rights and permissions to share the Data with the Data Recipient.

3.3 The Data Recipient shall use the Data solely for the purpose specified in this MOU and shall not disclose or use the Data for any other purpose without obtaining prior written consent from the Data Provider.



Annex 3: Workshop Participant List

  
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**Ministry of Climate Change, Environment and Energy**

**Stakeholder Workshop on Regulation on GHG inventories and MRV of Mitigation Actions**  
**Consultancy Services to Review and Strengthen the Institutional Arrangements for Climate Change Reporting**  
**CBIT Maldives Project**

*Date: 11th September 2024*

*Time: 1000 hrs*

*Venue: Auditorium - MCCEE*

*Section: Climate Change Department*

	Name	Designation	Organization	contact no	Email Address	Signature
1	Ahmed Waheed	Director	Ministry of Climate Change, Environment and Energy	[REDACTED]	[REDACTED]	[REDACTED]
2	Fathimath Nashwa	Assistant Director	Ministry of Climate Change, Environment and Energy	[REDACTED]	[REDACTED]	[REDACTED]
3	Mohamed Inaz	Project Technical Coordinator	CBIT Maldives Project	[REDACTED]	[REDACTED]	[REDACTED]
4	Gasith Mohamed	Partnership Specialist	NDC Partnership Support Unit	[REDACTED]	[REDACTED]	[REDACTED]
5	Fathimath Raufa Moosa	Project Technical Coordinator	BTR Project	[REDACTED]	[REDACTED]	[REDACTED]
6	Fathmath Maishan	Programme Analyst	Ministry of Climate Change, Environment and Energy	[REDACTED]	[REDACTED]	[REDACTED]
7	Ahmed Masoon	Programme Officer	Ministry of Climate Change, Environment and Energy	[REDACTED]	[REDACTED]	[REDACTED]
8	Hamdhoon Mohamed	National Expert on Institutional Arrangements / Team Leader	Up Close Solutions Pvt Ltd	[REDACTED]	[REDACTED]	[REDACTED]
9	Mohamed Aseel Hassan	National Legal Expert	SHC Law & Tax LLP.	[REDACTED]	[REDACTED]	[REDACTED]
10	Naahy Mohamed Rasheed	Assistant Director	Special Envoy for Climate Change Office	[REDACTED]	[REDACTED]	[REDACTED]
11	Ahmed Raof Mohamed	Assistant Statistical Officer	Ministry of Climate Change, Environment and Energy (Energy Dept)	[REDACTED]	[REDACTED]	[REDACTED]
12	Fizna Yoosuf	Director	Utility Regulatory Authority	[REDACTED]	[REDACTED]	[REDACTED]
13	Shahuma Abdul Razzag	Asst. Director	Ministry of Transport and Civil Aviation	[REDACTED]	[REDACTED]	[REDACTED]
14	Mariyam Shadeena	Deputy Statistician	Maldives Bureau of Statistics (MBS)	[REDACTED]	[REDACTED]	[REDACTED]
15	Mariyam Fizama	Senior Customs Officer	Maldives Customs Services (MCS)	[REDACTED]	[REDACTED]	[REDACTED]



16	Mohamed Faizan Faiz	Assistant Engineer	State Electric Company (STELCO)	[REDACTED]	
17	Ahmed Amjad Ismail	Plant Operations Manager	Male' Water and Sewerage Company (MWSC)	[REDACTED]	
18	Aminath Hanan Shafeeg	EIA Consultant	Maldives Transport and Contracting Company (MTCC)	[REDACTED]	
19	Hussain Fizah	Chief EIA Consultant	Maldives Transport and Contracting Company (MTCC)	[REDACTED]	
20	Aishath Shimla	Chief Corporate Officer	Maldives Ports Limited (MPL)	[REDACTED]	
21	Mariyam Meefau Faisal	Manager, Marketing	Maldives Industrial Fisheries Company (MIFCO)	[REDACTED]	
22	Ali Ahad	Assistant Manager - Sales and Marketing	Maldives Gas	[REDACTED]	
23	Shazeen Mansoor	Fleet Training Captain - ATR	Manta Air	[REDACTED]	
24	Aneesa Yoosuf	Gender Expert for CBIT Maldives	Riyan Pvt Ltd	[REDACTED]	
25	Mariyam Ishvaag Waheed	Senior research officer	Riyan Pvt Ltd	[REDACTED]	
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Annex 4: Photographs of the workshop



