



Ministry of Tourism and Environment
Republic of Maldives

Guidelines on Reporting Mitigation Actions for GHG Estimations

Energy and Waste Sectors

CBIT Maldives

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



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



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Ministry of Tourism and Environment



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Executive Summary

The guideline provides a standardized approach for stakeholders implementing mitigation actions to report data in four priority sectors:

- Renewable Energy
- Energy Efficiency
- Waste-to-Energy
- Transport

It includes:

- Key indicators to be reported for each sector
- Standardized reporting formats (Annexes)
- Instructions for completing the reporting forms
- Submission procedures, including options for both template-based and online reporting

The primary users of this guideline are implementing entities such as utilities, government agencies, and private developers, who are required to submit data on mitigation actions identified for tracking by the Ministry.

The Ministry will review submitted data, estimate greenhouse gas (GHG) emission reductions, and compile results for national reporting under the UNFCCC.

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Chapter 1: Introduction

1.1 Country context

The Maldives is one of the lowest-lying countries in the world, with more than 80% of its islands less than 1 meter above sea level. This makes the country highly vulnerable to climate change impacts such as sea level rise, coastal storms, and flooding. Most critical infrastructure and housing are located close to the coastline, while natural ecosystems, especially coral reefs, are already being affected.

In 2022, the Maldives' total greenhouse gas (GHG) emissions were 2.36 million tonnes of CO₂eq, with the energy sector contributing 96%. Under its Third Nationally Determined Contribution (2025), the country aims to reduce 1.52 million tonnes of CO₂eq by 2035, with international support. Key strategies include scaling up renewable energy, improving energy efficiency, promoting waste-to-energy, and expanding cleaner transport systems. Monitoring and reporting mitigation actions is therefore essential to track progress and strengthen Maldives' commitments under the Biennial Transparency Report (BTR) and the Enhanced Transparency Framework.

1.2 Purpose of the Guideline

This guideline provides a standardized framework for reporting mitigation actions in alignment with the Maldives' NDC commitments across the energy, waste, transport, and industry sectors. It ensures consistent and transparent data collection to track progress toward emission reduction targets, support national inventory updates, and facilitate international climate reporting.

1.3 Scope of the Guideline

The guideline focuses on the following areas:

1. Renewable energy
2. Energy Efficiency
3. Waste-to-Energy
4. Transport

It outlines the key indicators, reporting formats, instructions for data submission, and options for online submission.

Chapter 2: Reporting Procedure

2.1 What Needs to Be Reported

Entities must report all projects aimed at reducing energy intensity, enhancing sustainability, and contributing to emission reductions, in alignment with the mitigation measures outlined in the Maldives' Nationally Determined Contributions. This includes initiatives across the energy, transport, and waste sectors.

2.2 When and How to Report

- When: During and after implementation of the mitigation measures/actions
- How: Use the sector-specific forms provided in this guideline for each mitigation action.

2.3 Roles and Responsibilities

Stakeholder	Role
Implementing Entity:	Report on data on mitigation actions.
Ministry of Tourism and Environment	Determine which measure/actions to track, request data, estimate emissions, and compile national reporting

2.4 What Happens After Submission

Once the data is submitted, the Ministry will review it for completeness and accuracy.

Chapter 3: Reporting Guidelines

3.1 Renewable energy

Renewable energy refers to energy derived from natural sources that are replenished constantly. Entities reporting mitigation actions in the renewable energy sector must provide information on the type of renewable energy source (e.g., solar, wind, tidal), operational status, and key system details such as installed capacity and electricity generation.

3.1.1 Key Indicators

To evaluate the impact GHG reduction of Renewable Energy (RE) projects following indicators are required.

- Annual electricity generation (kWh/year)
- Installed capacity (kWp)

3.1.2 Reporting Fields

Details of the reporting filed are presented as follows:

Field / Question	Description	Required
Installation Status	Operational, Under Installation, or Planned	Mandatory
Expected or Actual Operational Date	Month and year when system became or will become operational	Mandatory
Motivation for Installation	Reason or support behind the installation (e.g., regulation, business plan, sustainability goals, etc.)	Optional
Type of Renewable Energy and Technology Type	Select source (Solar, Wind, Tidal, Other) and corresponding technology option	Mandatory
Island / Location	Where the system is installed or planned to be installed	Mandatory
Capacity Installed (kWp or MW)	Installed or planned system size in kWp or MW	Mandatory
Type of Premises and Connection Type	Type of location (Government, Business, Resort, etc.) and whether grid-tied, off-grid, or hybrid	Mandatory
Battery Capacity and Type	Identify if battery is included. If yes, specify the capacity (kWh) and technology type (Lead-acid, Lithium-ion, Other)	Optional
Financing Source(s) and Estimated/Actual Cost	Identify how the installation was funded and the cost (in USD)	Optional

3.1.3 Submission

Data can be submitted using the form in Annex A or through an online portal as informed by the Ministry.

3.2 Energy Efficiency

Energy efficiency mitigation actions aim to reduce energy consumption while maintaining or improving service levels. One of the key nationwide initiatives contributing to energy efficiency improvements is the Hakathari Program (Maldives Standard and Labelling Programme), which promotes the adoption of energy-efficient appliances through comparative energy labelling.

3.2.1 Key Indicators

To evaluate GHG emission reductions from energy efficiency measures, the following indicators are required:

- Number of imported appliances (per appliance type)
- Hakathari labelling status (labelled or unlabelled)
- Hakathari rating level (1 to 5 stars, if labelled)

3.2.2 Reporting Fields

Data will be collected from registered importers who import appliances covered under the Hakathari labelling programme. Importers are required to report information on both Hakathari-labelled and non-labelled models that fall within the scope of the programme.

Details of the reporting fields are presented as follows:

Field / Question	Description	Required
Reporting Period	Year during which appliances were imported	Mandatory
Air Conditioners (Cooling capacity up to 24,226 BTU/hr)	Brand, model, cooling capacity (BTU/hr), Hakathari labelled or not; if labelled, Hakathari rating (2–5)	Mandatory
Refrigerators (Capacity from 110 to 650 liters)	Brand, model, adjusted volume (liters), Hakathari labelled or not; if labelled, Hakathari rating (2–5), type of refrigerator with freezer, without freezer, With freezer, through the-door ice dispenser	Mandatory
Washing Machines (Capacity up to 14 kg)	Brand, model, kWh per cycle per kg (kWh/kg), Hakathari labelled or not; if labelled, Hakathari rating (1–5) Type of machine – Top load or front load	Mandatory

3.2.3 Submission

Data can be submitted using the form in Annex B or through an online portal as informed by the Ministry.

3.3 Waste to Energy

Waste-to-Energy (WtE) mitigation actions involve converting municipal solid waste or other waste streams into usable energy (electricity or heat), thereby reducing methane emissions from waste and displacing fossil fuel use.

3.3.1 Key Indicators

To evaluate GHG emission reductions from WtE mitigation actions, the following indicators are required:

- Annual quantity of waste used in the WtE plant (tonnes/year)

3.3.2 Reporting Fields

Details of the reporting filed are presented as follows:

Field / Question	Description	Required
Quantity of waste (tonne/year)	Total quantity of waste processed annually in tonne	Mandatory
Date of Implementation (Month/Year)	Enter Month and year when the WtE project was commissioned or became operational.	Mandatory

3.3.3 Submission

Data can be submitted using the form in Annex C or through an online portal as informed by the Ministry.

3.4 Transport

Mitigation actions in this sector typically involve replacing conventional internal combustion engines (ICE) vehicles with electric vehicle (EV) or hybrid vehicle (HV). To evaluate the impact GHG reduction of in the transport sector it is important to monitor the sales of EV and hybrid vehicles.

3.4.1 Key Indicators

To evaluate GHG emission reductions from the transport sector, the following indicators are required:

- Number of Electric Vehicles (EVs) imported (by vehicle category)
- Number of Hybrid Vehicles (HVs) imported (by vehicle category)
- Year of import

Vehicle categories include:

- Motorcycles
- Passenger Cars
- Light Commercial Vehicles (LCVs)
- Heavy Duty Vehicles
- Urban Buses

3.4.2 Reporting Fields

The data can be collected from Maldives Customs Service. Details of the reporting fields are presented as follows:

Field / Question	Description	Required
Year of Reporting	Calendar year for which import data is being reported	Mandatory
Electric Vehicles	Number of imported EVs, categorized by vehicle type	Mandatory
Hybrid Vehicles	Number of imported HVs, categorized by vehicle type	Mandatory

3.4.3 Submission

Data can be submitted using the form in Annex D or through an online portal as informed by the Ministry.

Annex

Annex A: Renewable Energy Reporting Form

Name of Organization / Business / Agency	
Type of Organization	<input type="checkbox"/> Government <input type="checkbox"/> SOE <input type="checkbox"/> Private Business <input type="checkbox"/> Resort <input type="checkbox"/> Household <input type="checkbox"/> Other: _____
Focal Person Name	
Email Address	
Phone Number	
System Details	
Installation Status	<input type="checkbox"/> Operational <input type="checkbox"/> Under Installation <input type="checkbox"/> Planned
Expected or Actual Operational Date	
What motivated or supported you to install this renewable energy system?	<input type="checkbox"/> Required by government regulation <input type="checkbox"/> Part of a business or island development plan <input type="checkbox"/> Company sustainability goal <input type="checkbox"/> Received financial support (e.g., grant, donor, loan, tax benefit) <input type="checkbox"/> Voluntary (cost saving or environmental benefits) <input type="checkbox"/> Other: _____
Type of Renewable Energy	<input type="checkbox"/> Solar <input type="checkbox"/> Wind <input type="checkbox"/> Tidal <input type="checkbox"/> Other: _____
Technology type	<i>Solar:</i> <input type="checkbox"/> Rooftop <input type="checkbox"/> Ground-mounted <input type="checkbox"/> Floating <i>Wind:</i> <input type="checkbox"/> Small-scale <input type="checkbox"/> Large-scale <i>Tidal:</i> <input type="checkbox"/> Stream Generator <input type="checkbox"/> Barrage System <i>Other:</i> _____
Island / Location	
Capacity Installed (kWp or MW)	_____
Type of Premises	<input type="checkbox"/> Government <input type="checkbox"/> Business <input type="checkbox"/> Resort <input type="checkbox"/> Household <input type="checkbox"/> Other: _____
Connection Type	<input type="checkbox"/> Grid-tied <input type="checkbox"/> Off-grid <input type="checkbox"/> Hybrid
Is battery storage included / planned?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Battery Capacity (if applicable)	_____ kWh
Battery Type (if known)	<input type="checkbox"/> Lead-acid <input type="checkbox"/> Lithium-ion <input type="checkbox"/> Other: _____

Electricity Generated by the System (actual average per month)	_____ kWh/month
Financing Information	
Estimated / Actual Project Cost (USD)	
Financing Source(s)	<input type="checkbox"/> Self-funded <input type="checkbox"/> Loan <input type="checkbox"/> Grant/Donor <input type="checkbox"/> Other
Documents	
Supporting Documents	<input type="checkbox"/> Photo of the installation

Annex B: Hakathari Appliances Import Reporting Form

Name of Importer					
Focal Person Name					
Email Address					
Phone Number					
Reporting Period					
Year					
Air Conditioner (Applicable for units with cooling capacity up to 24,226 BTU/hr)					
Brand	Model Number	Cooling Capacity (BTU/hr)	Hakathari labelled	Hakathari Rating (if labelled)	Quantity Imported
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
Refrigerators (Applicable for units with capacity from 110 liters to 650 liters)					
Brand	Model Number	Cooling Capacity (BTU/hr)	Hakathari labelled	Hakathari Rating (if labelled)	Quantity Imported
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
Washing Machine (Applicable for units with capacity up to 14kg)					
Brand	Model Number	Cooling Capacity (BTU/hr)	Hakathari labelled	Hakathari Rating (if labelled)	Quantity Imported
			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	

Annex C: Waste to Energy Reporting Form

Name of Organization	
Focal Person Name	
Email Address	
Phone Number	
Quantity of waste used in the waste to energy (WtE) plant - tonne per year	_____ tonnes per year
Does electricity generated from Waste to Energy (WtE) is replacing grid electricity?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of Implementation (Month/Year)	

Annex D: Electric and Hybrid Vehicle Import Reporting Form

Year of reporting	
Electric Vehicles (EVs) Vehicles that are clearly classified as Electric in customs import codes.	
Vehicle Category	Number of Units Imported
Electric Motorcycles	
Electric Passenger Cars	
Electric Light Commercial Vehicles (LCVs)	
Electric Heavy-Duty Vehicles	
Electric Urban Buses	
Hybrid Vehicles (HVs) Vehicles that are clearly classified as Hybrid in customs import codes.	
Vehicle Category	Number of Units Imported
Hybrid Motorcycles	
Hybrid Passenger Cars	
Hybrid Light Commercial Vehicles (LCVs)	
Hybrid Heavy Duty Vehicles	
Hybrid Urban Buses	