

Regional Pacific Nationally Determined Contribution Hub

Pacific Regional Workshop on ETF and Peer-to-Peer Learning

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Structure of the NDC Hub

14 PACIFIC ISLAND

































DONORS







REGIONAL PACIFIC NDC HUB

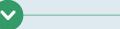






NDC HUB

















IN CONTRIBUTION

Strategic Objectives under the NDC Hub's Long-Term Strategy 2030





» Improved NDCPlanning, Policy,Strategy, and Legislation



» StrengthenedEnabling Environmentfor NDCImplementation



» Accelerated NDCAction andProject/ProgramImplementation



Enhanced NDC Measurement,Reporting, and Verification andTransparency of Climate Action

Tracking of NDC Actions



- Indicators
- Assessment of mitigation impacts
- Linking NDC tracking and GHG inventories
- Basis of NDC action tracking

PICs in the Pacific Ocean





PICs - indicators

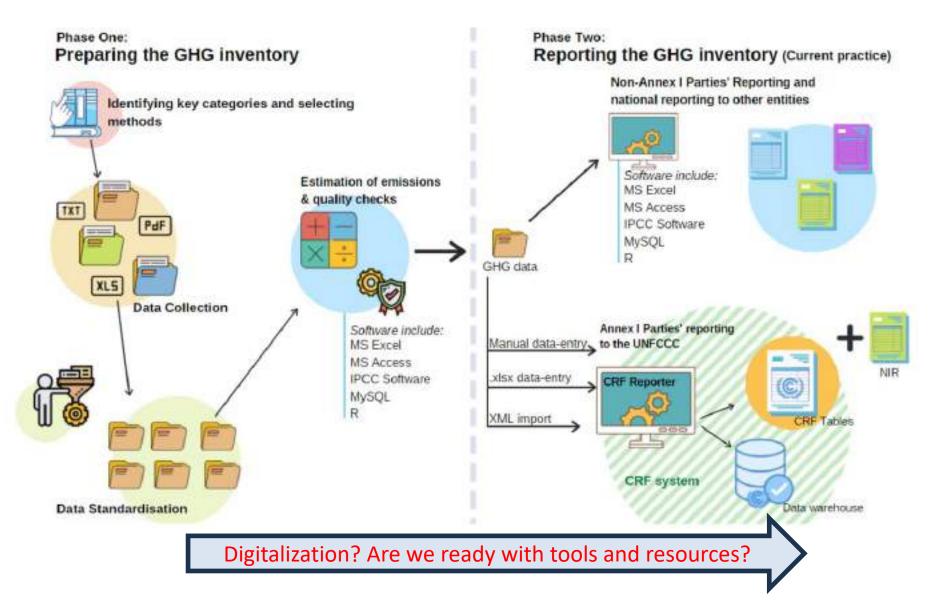


Pacific Sub-region	Country	Land Area (sq. km)*	Sea Area/ EEZ (sq. km)*	Island Type*	Popula- tion*	GDP in 2019 (US\$ bil- lions)**	GDP per Capita in 2019 (current USS)***	Carbon dioxide Emissions (kilotonnes in 2016)****	Carbon dioxide Emissions (metric tonnes per Capita in 2016)***	Total Green- house Gas Emissions (kilotonnes of CO2e); 2012 or most recent year***	% of electricity generated using renewables; 2018 or most recent year***
Melanesia	Fiji	18,272	1,290,000	High island with a few minor atolls	894,961	5.5	6,175.9	2,046.2	2.3	2,258.0	60%
	Papua New Guinea	462,840	3,120,000	High island with a few small atolis	8,934,475	25.0	2,829.2	5,078.8	0.9	11087 (2016)	62%
	Solomon Islands	28,370	1,340,000	High island with a few atolls	712,071	1.4	2,373.6	183.4	0.3	4,591.0	10%
	Vanuatu	12,190	680,000	High island with a few small atolis	294,688	0.9	3,115.4	113.7	0.5	446.0	6%
Micronesia	Federated States of Micronesia	701	2,980,000	High islands & atolls	105,503	0.4	3568.3 (2018)	124,7	1.3	58 (1996)	5%
	Kiribati	811	3,550,000	Predominantly atolls	118,744	0.2	1,655.1	66.0	0.6	53 (2009)	17%
	Nauru	21	320,000	Raised coral island	11,690	0.1	9,397.0	40.3	3.7	19 (2000)	2%
	Palau	444	629,000	High islands & atolls	17,930	0.3	14,902.0	216.4	12.6	248(2005)	2%
	Republic of the Marshall Islands	181	2,131,000	Atolis	54,590	0.2	3788.2 (2018)	135.7	2.5	5 (1989)	2%
Polynesia	Cook Islands	237	1,830,000	High islands & atolls	17,434	0.4	24,913.0	60.0	4.0	73(2014)	26%
	Niue	259	390,000	Raised coral Atoll	1,562	0	18,757	5	1	11.45 (2009)	٥
	Samoa	2,935	120,000	High islands	198,646	0.9	4,324.0	198.0	1.3	356.0	42%
	Tonga	650	700,000	High island with a few small atolis	99,780	0.5	4,903.2	105.3	1.3	155 (2011)	10%
	Tuvalu	26	900,000	Atolis	10,580	0.1	4,059.0	11.0	1.0	5.0	23%

Status of climate reporting in the Pacific

Country	BTR Status	NDC Status	NC Status	BUR Status
Melanesia				
Fiji	Plan in Jun 2025	NDC 2019 (NDC3.0 in 2025)	NC3 2020	BUR1 2024 (to be submitted)
Papua New Guines	Plan in Jun 2025	NDC 2020 (NDC 3.0 in 2025)	NC2 2015	BUR2 2022
Solomon Islands	Plan in Dec 2024	Updated NDC 2021	NC3 2024	BUR1 under review 2024
Vanuatu	Submitted on 20 Feb 2025	NDC 2022 (NDC 3.0 in 2025)	NC3 2021	BUR1 2021
Micronesia				
FSM	Plan by Dec 2024	Updated NDC 2022	NC3 2023 (BUR1 2023)	BUR1 2023 (with NC3 2023)
Kiribati	Planning	NDC 2023	NC2 2013	
Nauru	Initial consideration	Updated NDC 2021	Draft NC3 Dec 2024	
Palau	Plan by Dec 2024	Draft Updated NDC 2024	NC2 2019	
RMI		NDC 2025	NC2 2015	
Polynesia	`			
Cook Islands	Plan by Dec 2024	Draft NDC 2022 (NDC 1.0	NC3 2020 BTR with NC4	
Niue		Updated NDC 2024 (to be resubmitted)	NC2 2016	
Samoa	Initial consideration	NDC 3.0 2025 (NDC 2.0 2021)	NC2 2010	BUR1 2024
Tonga	Initial consideration	NDC 3.0 2025 (NDC 2.0 2020)	NC3 2020	
Tuvalu	Draft BTR, under review	Updated NDC 2023	NC2 2018	

Current reporting practice and future pathways



ETF Reporting Tool – CTFs



- Generates the <u>common tabular formats (CTFs)</u> for the electronic reporting of the information necessary <u>to track progress made</u> in <u>implementing and achieving nationally determined contributions (NDCs)</u> under Article 4 of the Paris Agreement, as contained in Annex II to decision 5.CMA.3.
- CTF tables facilitate the tracking and reporting of countries' efforts to reduce GHG emissions and achieve their NDCs
- CTF tables provide a structured and consistent fo<u>rmat</u> for reporting emission reduced, emissions projection and other relevant data

What we will be tracking? - your story



INTENDED NATIONALLY DETERMINED CONTRIBUTIONS

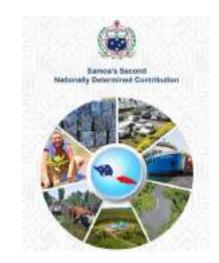
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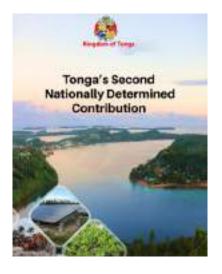
Introduction

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Figs Updated Nationally Determined Contribution

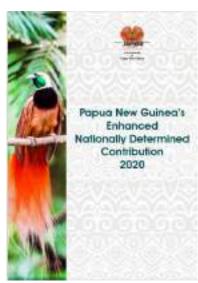
Introduction

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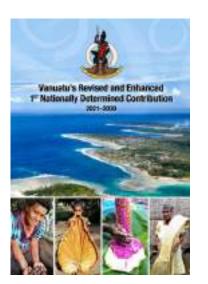
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- · arrestimenton of its 2000 target.
- a commitment to subture not suco providence gas emissions by 2850;
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- · a commitment to count to Climate Change Bill by 2921; and
- · a commitment is operationally in National Adeptation Plan-







What we will be tracking? - your story

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Updated Nationally Determined Contribution







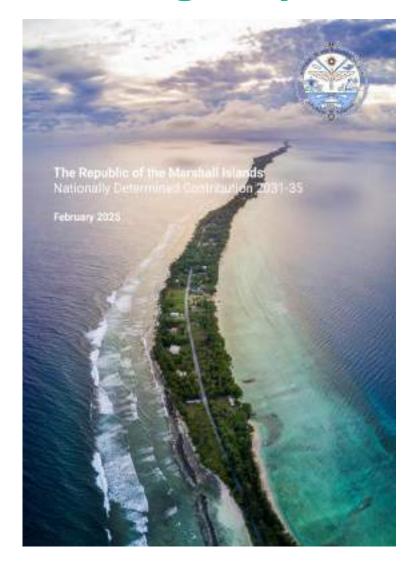
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What we will be tracking? - your story



NDC targets - **RMI** 2025 (**NDC** 3.0)



As we submit this NDC, we demonstrate our commitment to the Paris Agreement, and to addressing the climate crisis through multilateral solutions and ambitious national action. This NDC also demonstrates our drive, our achievements, and the challenges we face. In particular, we detail our domestic actions to contribute to the collective commitments made following the global stocktake, including the tripling of renewable energy, doubling of energy efficiency and removal of fossil fuel subsidies, all in pursuit of accelerating the transition away from fossil fuels this decade.

We urge all countries to set out their own actions, redouble their support and solidarity for others, and chart bold pathways to a safer and more just future for us all.

In RMI we are guided by the motto "Wode Jeppel," which means to accomplish through joint effort. The Marshallese people have embodied this motto as they reduce their own emissions, enhance their abilities to withstand climate shocks, and strengthen their response to loss and damage. Climate change will continue to threaten our islands, but our spirit and determination remains strong. We are united in ensuring our future embodies the self-determination of the Marshallese people, the legacy of our ancestors, and generations to come.

NDC targets in - Cook Islands



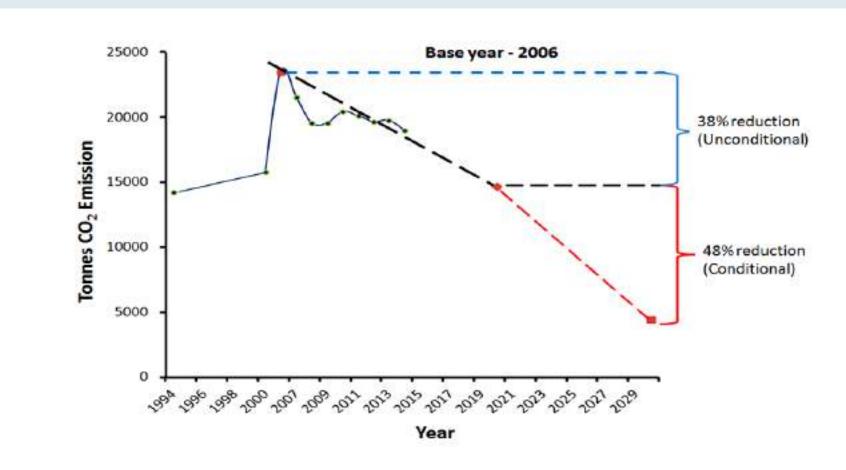


Figure 2. Electricity emission from 1994 to 2014. The Cook Islands base year is 2006 (blue dash line) and an unconditional target of 38% reduction by 2020. A conditional reduction of 43% by 2030, making a total reduction of 81% in the electricity sub sector.

NDC targets in - Samoa



Samoa aims to reduce overall GHG emissions by 26 percent in 2030 compared to 2007 levels (or by 91 Gg CO_2e compared to the new reference year once Samoa's GHG emissions inventory has been updated). This economy-wide emissions reduction target comprises the following sector-specific mitigation targets:

- Energy reduce GHG emissions in the energy sector by 30 percent in 2030 compared to 2007 levels (or by 53 Gg CO₂e compared to the new reference year once the GHG emissions inventory is updated).7
- Waste reduce GHG emissions in the waste sector by 4 percent in 2030 compared to 2007 levels (or by 1.2 Gg CO_2 e compared to the new reference year once the GHG emissions inventory is updated).
- AFOLU reduce GHG emissions in the AFOLU sector by 26 percent in 2030 compared to 2007 levels (or by 35.2 Gg CO₂e compared to the new reference year once the GHG emissions inventory is updated). Samoa identifies the following quantitative targets that contribute to adaptation in the marine and AFOLU sectors:
- Marine expand the area of mangrove forests in Samoa by 5 percent by 2030 relative to 2018.
- AFOLU expand the area under agroforestry to an additional 5 percent of agricultural land by 2030 relative to 2018.
- AFOLU manage forests sustainably and increase total forest cover by 2 percent by 2030 relative to 2013.

NDC targets in - Tonga



Tonga's targets for **mitigation** are as follows:

- Energy: 13% (16 Gg) reduction in GHG emissions by 2030 compared to 2006 through a transition to 70% renewable electricity as well as energy efficiency measures.
- AFOLU: establishment of a forest inventory as prerequisite to identify a GHG emission target for the 2025 NDC and planting one million trees by 2023.
- Waste: expansion of the formal waste collection system as prerequisite to identify a GHG emission target for the 2025 NDC.

In the context of adaptation, the Government of Tonga has set three targets:

- 30% of land in Tonga utilized for agro-forestry or forestry by 2025,
- Prevent any permanent loss of land to rising sea levels on Tonga's four main islands (i.e. Tongatapu, Ha'apai, Vava'u, and 'Eua),
- Maintenance of the existing stocks of fish and other marine species through a commitment to expand the area covered by Marine Protected Areas (MPAs) and Special Management Areas (SMAs) to 30% of the Tonga's Exclusive Economic Zone (EEZ).

NDC targets - Tuvalu



- Tuvalu commits to the reduction of greenhouse gas (GHG) emissions from the electricity (power) sector by 100%, i.e., almost zero emissions by 2030.
- Increase energy efficiency in Funafuti by 30%.
- Tuvalu's indicative quantified economy-wide target to reduce total GHG emissions from the entire energy sector to 60% below 2010 levels by 2030.
- Zero carbon development pathway by 2050.

NDC targets - Fiji



Fiji hereby communicates to the UNFCCC:

An update to its existing Nationally Determined Contribution (NDC) pursuant to Article 4.11 of the Paris Agreement that includes:

- a reaffirmation of its 2030 target;
- a commitment to achieve net zero greenhouse gas emissions by 2050;
- up-front information to facilitate clarity, transparency and understanding;
- a commitment to enact its Climate Change Bill by 2021; and
- a commitment to operationalise its National Adaptation Plan.

CTF



Annex II*

Common tabular formats for the electronic reporting of the information necessary to track progress made in implementing and achieving nationally determined contributions under Article 4 of the Paris Agreement

1. Structured summary: Description of selected indicators

Indicator(s) selected to track progress*

Description

{Indicator}

Information for the reference point(s), level(s), baseline(s), base year(s) or starting point(s), as appropriate^b

Updates in accordance with any recalculation of the GHG inventory, as appropriate^b

Relation to NDC^c

Notes: (1) Pursuant to para. 79 of the MPGs, each Party shall report the information referred to in paras. 65–78 of the MPGs in a narrative and common tabular format, as applicable. (2) A Party may amend the reporting format (e.g. Excel file) to remove specific rows in this table if the information to be provided in those rows is not applicable to the Party's NDC under Article 4 of the Paris Agreement, in accordance with the MPGs. (3) The Party could add rows for each additional selected indicator and related information.

- Each Party shall identify the indicator(s) that it has selected to track progress of its NDC (para. 65 of the MPGs).
- b Each Party shall provide the information for each selected indicator for the reference point(s), level(s), baseline(s), base year(s) or starting point(s), and shall update the information in accordance with any recalculation of the GHG inventory, as appropriate (para. 67 of the MPGs).
- Each Party shall describe for each indicator identified how it is related to its NDC (para. 76(a) of the MPGs).

Custom footnotes:

Documentation box:

Understanding CTFs

Progress of what?	What is the Target?	Description of NDC	Appendix
	Definitions	Definition necessary to understand the NDC	Table 1
How will I track Progress?	Indicators	Description of the indicator	Table 2
120	Methodologies	Methodologies and accounting approaches	Table 3
	Policies, Measures, Actions & Plans	Mitigation policies, measures, action and plans	Table 5
How will I achieve the		Projections of GHG emissions and Removals	Table 7,8&9
Target?	Projections	Projections of indicators	Table10
		Assumptions and parameters for projections	Table 11
Am I on Track?/ Did I achieve the target?	GHG Emissions and Removals	Summary of GHG inventory	Table 6
	Make Assessment	Structured summary	Table 4

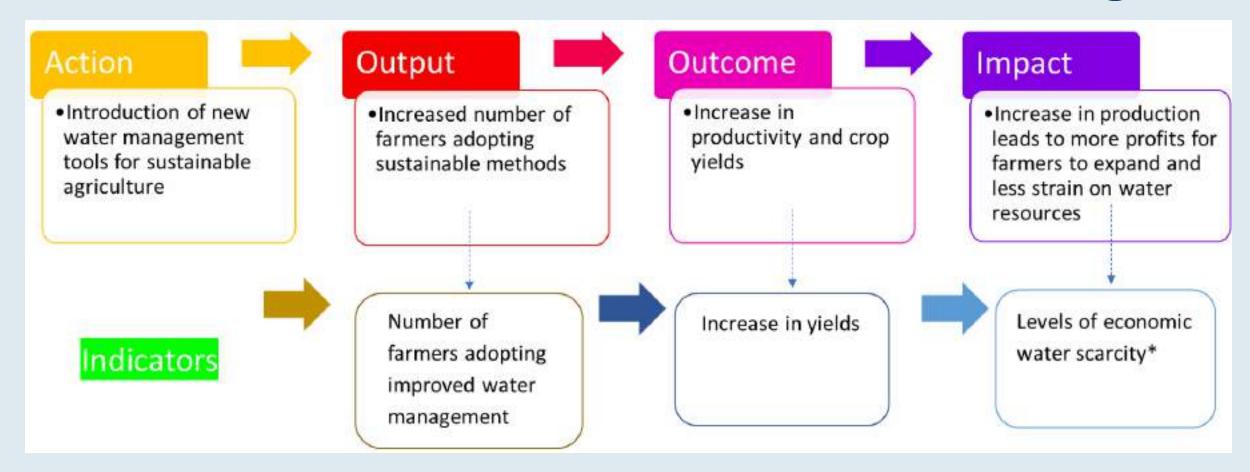
CTFs – details

- In total, the Common Tabular Formats (CTF) for tracking NDC comprise 12 Tables and one Appendix, covering the parts of Section III of the MPG:
- Section III: Information necessary to track progress made in implementing and achieving NDC
- Appendix: Description of a Party's NDC
- Table 1: Description of selected indicators
- Table 2: Definitions needed to understand the NDC
- Table 3: Methodologies and accounting approaches
- Table 4: Tracking progress
- Table 5: Mitigation policies, measures, actions and plans (Achieved)
- Table 6: Inventory summary

CTFs – details

- Table 5: Mitigation policies, measures, actions and plans (expected)
- Table 7: Projections "with measures" scenario
- Table 8: Projections "with additional measures" scenario
- Table 9: Projections "without measure" scenario
- Table 10: Projections of key indicators
- Table 11: Key underlying assumptions and parameters of projections
- Table 12. Information necessary to track progress on the implementation and achievement of the domestic policies and measures implemented to address the social and economic consequences of response measures

Identify type of indicator suitable to track the target like target like the target like the target like the t



Vanuatu – BTR1



Executive summary

This inaugural Biennial Transparency Report for Vanuatu serves as a comprehensive overview of the nation's efforts to meet its commitments under the Paris Agreement. It encompasses critical aspects of Vanuatu's national circumstances, greenhouse gas (GHG) inventory, progress tracking for nationally determined contributions (NDCs), climate change impacts and adaptation strategies, as well as financial and technological support needs and responses related to climate change. Additionally, the report addresses initiatives aimed at averting, minimizing, and addressing loss and damage associated with climate change impacts.

I. National Circumstances and Institutional Arrangements

Vanuatu's unique geographical and socio-economic context is characterized by its status as a small island developing state (SIDS), facing significant vulnerabilities due to climate change. This section outlines the institutional frameworks in place to facilitate climate governance, including coordination mechanisms among government agencies, civil society, and local communities. The report emphasizes Vanuatu's commitment to integrating climate action into national development plans, promoting resilience, and ensuring sustainable development.

II. National Greenhouse Gas Inventory

The national GHG inventory provides a detailed assessment of emissions sources across key sectors, including energy, agriculture, and waste management. It highlights the challenges of data collection in a small island context while showcasing efforts to improve accuracy and comprehensiveness. The inventory serves as a baseline for Vanuatu's GHG emissions, essential for tracking progress and informing future climate policies.

III. Progress on Nationally Determined Contributions

This chapter outlines Vanuatu's NDCs, focusing on renewable energy targets, emission reduction goals, and climate resilience initiatives. The report presents progress made towards these targets, including capacity-building measures, stakeholder engagement, and policy implementation. It identifies barriers faced in achieving NDCs and outlines strategies for overcoming these challenges.

IV. Climate Change Impacts and Adaptation

Vanuatu is experiencing a range of climate change impacts, including sea-level rise, extreme weather events, and biodiversity loss. This section discusses the nation's vulnerability assessments and adaptation strategies, including community-based adaptation practices and infrastructure resilience initiatives. The report emphasizes the need for ongoing investment in adaptive capacity to mitigate the adverse effects of climate change.

V. Financial, Technology Development, and Capacity-Building Support

Vanuatu's financial and technological needs for climate action are critical to achieving its climate goals. This chapter assesses the support received under international frameworks and outlines the gaps in funding and technology transfer necessary for effective climate action. It emphasizes the importance of strengthening partnerships and securing resources to enhance the nation's capacity to respond to climate change.



Examples of NDC targets

NDC target type	Country Examples	Scope	Target value	Target unit	Target timeframe	Value in reference / Base period / BAU
Absolute emission reduction or limitation target relative to a base year	Brazil NDC commits 'to reduce its greenhouse gas emissions in 2025 by 37%, compared with 2005'.	CO ₂ , CH ₄ , N ₂ O, perfluorocarbons (PFCs), hydrofluorocarbons (HFCs) and SF ₆	37	%	2025	Base year emission estimation in the fourth BUR is around 2.4 Mio. kt of CO ₂ eq. May be updated according to the latest inventory.
Emission reduction target below a BAU level	Morocco's NDC unconditional) reduction target, '18.3% below BAU emissions by 2030''.	CO ₂ , CH ₄ , N ₂ O and HFCs	18.3	%	2030	The BAU scenario is projected approx. 1.4 Mio. kt CO ₂ eq in 2030
Fixed-level target	Argentina's 's fixed- level target, will not exceed net emissions of 359 Mt CO ₂ eq by 2030	CO ₂ , CH ₄ , N ₂ O, HFCs and PFCs	359	Mt CO ₂ eq	2030	No reference value is used. But in its NDC submission Argentina compares the level of ambition to its 2016 emissions, which were around 364 Mt CO ₂ eq

Examples of NDC targets – non GHG related



NDC target type	Country Examples	Scope	Target value	Target unit	Target timeframe	Value in reference / Base period / BAU
Sectoral non– greenhouse gas targets	China has pledged to 'increase the share of non- fossil fuels in primary energy consumption to around 25%.	N/A	25	%	2030	N/A
Mitigation actions	Bangladesh aims to implement renewable energy projects, enhance efficiency of existing power plants, improve technology for power generation.	N/A	Implementatio n of actions	MW	2030	N/A

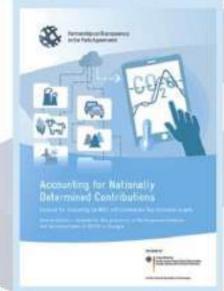
Tracking progress - steps



1

- Identify and assess NDC targets (GHG, non-GHG, adaptation)
 - ✓ List targets in a tabular format with relevant details (Decision 5/CMA.3 voluntary Appendix table useful)
 - ✓ Quantitative, qualitative, scope, timeframe, unit, baseline

	Description
Target(s) and description, including target type(s), as applicable	Economy-wide net greenhouse gas emission reduction of 20% by 2030 compared to the base year 2005 Target Type: economy-wide emission reduction target
Target year(s) or period(s), and whether they are single-year or multi-year target(s), as applicable	Target year: 2030 Single-year target
Reference point(s), levet(s), baseline(s), base year(s) or starting point(s), and their respective value(s), as applicable	Reference level: Economy-wide net greenhouse gas emissions and removals in 2005 Value: 100 Mt CO ₂ e
Time frame(s) and/or periods for implementation, as applicable	Period for implementation: 2021-2030
Scope and coverage, including, as relevant, sectors, nategories, activities, sources and sinks, peols and gases, as applicable	Sectors: Energy, industrial processes and product use, agriculture, land use, land use change and forestry, waste Coverage: All emissions and removals on the national territory Gases: CO ₂ , CH ₀ , N ₁ O, HFCs, PFCs, SF ₀ , NF ₂
Intention to use cooperative approaches that involve the use of ITMOs under Article 6 towards NDCs under Article 4 of the Paris Agreement, as applicable	The Party does not intend to use cooperative approaches
Any updates or clarifications of previously reported information, as applicable	The reference level has been updated due to recalculations in the national greenhouse gas inventory. The value communicated in the NOC was 101 Mt CO ₂ e. The updated reference level (emissions level in the base year) is 100 Mt CO ₂ e.



Useful PATPA resources:

Accounting for NDCs: https://transparencypartnership.net/system/files/document/Guidanc e Accounting%20for%20NDCs engl 2022.pdf

Tracking of progress - overview of steps

+ Last of definal indicators for both Mitigation 8 Ablash Under NDC

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- Identify type of indicator suitable to track the target
 - √SMART: Specific + Measurable + Achievable + Relevant + Time-bound
 - ✓ Clarify scope, units, reference/baseline levels.
 - ✓ Involve stakeholders responsible for implementing measures



Useful PATPA resources:

NDC Progress Indicators: a guidance for practitioners: https://transparency-partnership.net/publications-tools/ndc-progress-indicators-guidance-practitioners



Make targets SMART



E.g. achieving a share of 28% of renewable power by 2030

This is not a fully SMART target yet.

- What should the 28% refer to e.g., power generation (including or excluding imports and exports?) or capacities installed?
- Which technologies should be counted as renewable power technologies?

E.g. to increase public awareness of climate changes effects and impacts on general health

- How do you tell whether or not the indicator has been achieved?
- What types of climate change impacts will be addressed?
- What mechanism will be used to engage with the public?
- Under which conditions will public awareness be considered as increased?
- What are the current levels of public awareness, have these been defined?
- Finally, has a timeframe been established for when the target must be reached?

Make targets SMART – mitigation GHG related @



Type of mitigation target	Elements to consider for a SMART target	Unit
Absolute emission reduction or limitation target relative to a base year	 Base year clearly agreed? Gases included agreed? Sectors / GHG inventory categories agreed Target year agreed? 	kt CO₂ eq
Emission reduction target below a BAU level	 As for absolute emission reduction target BAU level clearly defined? Data and methods available? 	%
Intensity target	 As for absolute emission reduction target Intensity-relevant factor and source / methodology to be used clearly defined, e.g., GDP, population? 	kt CO2 eq / capita or GDP / etc. % (if compared to BAU or base period)

Make targets SMART – mitigation non GHG related REGIONAL

Type of mitigation target	Elements to consider for a SMART target	Unit
Renewable Energy	 Definition of "renewable" to be used – e.g., which sources, which technologies? What does it relate to – share in total power / power + heat generated, GWh electricity generated, renewable generation capacities installed / operational? 	 % GWh MW
Energy Efficiency	 Definition of "energy efficiency" to be used What does the target relate to, e.g. energy efficiency improvement compared to a base year or BAU Energy efficiency target level? 	GWhTJ / unit of GDP
Forest cover	 Is there a national forest definition? Methodology to determine forest cover agreed? Reference level / baseline data and methodology available? 	 Hectares or km² % of national territory % increase compared to reference / baseline



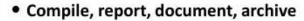
Tracking of progress - overview of steps

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·Identify data and methodology required

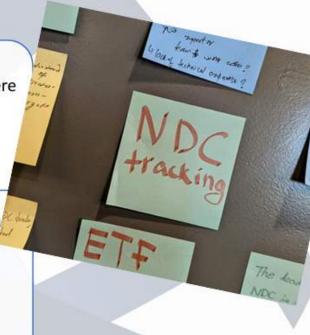
✓ Data collection: determine what information is required, who collects the data, where data is available, when data has to be collected.

✓ Check if adjustments to scope or units are necessary. Identify if calculations are needed and what methodologies to use



✓ Assess integration of data collection with existing processes. Plan long-term improvements for data quality and availability.

✓ Document all relevant information for future compilation. Learn from national GHG inventory and statistical offices' processes.



Identify type of indicator suitable to track the target tellow tellow tellow tellow tellow tellow tellow tellow tellow t

What to do. Once the NDC targets have been made SMART, identify indicators which allow understanding whether these targets have been met or not.

- With quantitative targets, once they are made SMART, the most relevant indicator can be identified from the target itself.
- With qualitative targets the intervention logic framework (Logframe) provides a helpful approach to identifying suitable progress indicators.

Further indicators, e.g., related to implementation, could of course be chosen to support the understanding of progress, e.g., afforested surface area, area for which forest management plans have been improved, etc.

The MPGs leave the choice of indicators to the Parties, as long as the indicators are relevant to their NDC. The use of such implementation-related progress indicators can surely be considered beneficial at the national level. Parties might however decide not to include such information in their BTRs.

Identify type of indicator suitable to track the target – GHG target

Type of mitigation target	Relevant indicators	Unit
Absolute emission reduction or limitation target relative to a base year	 GHG emissions as reported in the national GHG inventory adapted to the specific scope of the target (e.g., gases and sectors covered), including use of market-based mechanisms, and adapted to the specific timeframe of the target (e.g., where a multi-year target-period applies). 	kt CO₂ eq
Emission reduction target below a BAU level	 Relationship (e.g., difference in %) between GHG emissions in the BAU target year / period (updated, where applicable) and GHG emissions as reported in the national GHG inventory adapted to the specific scope of the target (e.g., gases and sectors covered), including use of market-based mechanisms, and adapted to the specific timeframe of the target (e.g., where a multi-year target-period applies) 	%
Peaking Target	 GHG emissions in all years leading to the current year, as reported in the national GHG inventory adapted to the specific scope of the target (e.g., gases and sectors covered), including use of market-based mechanisms 	kt CO ₂ eq

Identify type of indicator suitable to track the target – non GHG



Type of mitigation target	Relevant indicators	Unit
Renewable Energy	Depending on specific definition of target, relevant indicators include We of electricity generated by source Total generation by source Installed capacity by source	%GWhMW
nergy Efficiency	Depending on specific definition of target, relevant indicators include Total energy demand or consumption Energy intensity of the economy	GWhTJ / unit of GDP
Forest cover	Depending on specific definition of target, relevant indicators include Share of land covered by forest Area covered by forest Area restored or reforested Forest stock CO ₂ sequestered per year	 % ha ha m³ t CO₂ eq

Identify data and methodology required



What to do?

- Once indicators have been defined, identify the data and methodology required to compile the indicator.
- For each indicator, a data collection plan needs to be developed. This will provide a complete overview for each indicator of what is being measured, the baseline, the targets, data sources and methods.
- It also specifies who will be collecting data, with what frequency and to whom it will be reported. In the case of NDC indicators, much relevant information or sometimes even the indicator data itself is likely to be already available from data collection for the compilation of other sections of the BTR

Identify data and methodology required



In considering the data and potential methodology required, the following questions might be helpful:

- What information is required for the indicator?
- Where can that information be found— has it already been compiled for other purposes, e.g., national statistics, SDG reporting?
- For which years is the information available? Does the information available have the necessary quality, e.g., is the approach to data collection / calculation consistent over time, is the data sufficiently accurate?
- Is the information already available with the correct scope and in the correct units? Or are adjustments to scope / units necessary?
- Is a calculation necessary to compile the indicator (e.g., GHG emissions, GHG emission reductions or removals?) If so, is there an internationally accepted practice that should be used, e.g. the 2006 IPCC Guidelines for National GHG Inventories, the World Resource Institute Policy and Action Standard, Progress indicators for mitigation and/or adaptation actions as agreed for reporting to donors.

Identify data and methodology required – GHG target



Mitigation target categories	Relevant data sources
Absolute emission reduction or limitation target relative to a base year	National GHG inventory data from the BTR under preparation
Emission reduction target below a BAU level	 National GHG inventory data from the BTR under preparation BAU projections from the most recent NDC or from the BTR under preparation in case the BAU projections are updated over time
Peaking Target	National GHG inventory data from the BTR under preparation
Intensity target	 National GHG inventory data from the BTR under preparation Depending on specific target: GDP, population typically available from the national statistical offices

Identify data and methodology required – non GHG target

Mitigation target categories	Relevant data sources
100,000,000,000	Depending on specific target:
	 % of electricity generated by source and/or total generation by source
Renewable Energy	from the national energy balance (if available), likely collected for the mitigation chapter of the BTR under preparation
	 Installed capacity by source: Potentially collected for the mitigation chapter of the BTR under preparation, alternatively to be collected from the Ministry responsible for power and heat generation
Energy Efficiency	 Total energy demand or consumption: from the national energy balance (if available), potentially collected for the mitigation chapter of the BTR under preparation
nurske ts in orderekteriker	 Energy intensity of the economy: Potentially available from the national statistical services.
	Depending on type of target information like:
	- % of land covered by forest
	- Hectares of land covered by forest
Forest cover	- Hectares of land restored or reforested
rorest tover	- Volume of forest stock
	- Tonnes of CO2 stored/sequestered per year
	Has likely been collected for the preparation of the LULUCF categories of the national GHG inventory and potentially for the mitigation and/or adaptation chapters.
Implementation of qualitative policies and measures	Information likely available from the mitigation chapter of the BTR under preparation.



Compiling, reporting, documenting, archiving



What to do?

- The assessment of available data sources in the previous step will show that many progress indicators can be compiled with data already available from BTRs and National Communications (NCs).
- The timing when such data, e.g., national GHG inventory estimates, information on actions, becomes available – will be important to consider for the overall BTR compilation process.
- Where additional data needs to be collected, assess whether such data collection can be integrated into existing data collection processes or can be built up together with data collection processes which need to be established for BTR reporting.

Build on existing data / structures

Prioritise and select data select data accordingly

Collect data

Fill data gaps | Improve data quality over time

Compiling, reporting, documenting, archiving



Type of data gap	What to do	What to report in the BTR
Relevant input data not available at all	 activities enabling the collection of relevant data (e.g., research, studies, new statistics) entities responsible for these activities necessary preconditions, e.g., budget / staff, legal framework, MoUs, etc. 	 Report the fact that the indicator data is currently not available and why that is the case action taken to make the indicator data available in the future When you expect to be able to report on the indicator What international support is required to do so (if applicable)
Relevant input data not available for all years, all sectors, all regions, etc.	 Where possible, use gap-filling approaches (e.g., overlap, surrogate data, interpolation, and trend extrapolation) to estimate the indicator value for the full scope / all relevant years Use approaches suggested under "relevant input 	Report, what information was not available / for which years? What gap filling approaches have been deployed? actions taken to make indicator data available in the future When would you expect to be able to report the indicator?
	data not available at all" to collect missing data in the future	What international support is required to do so (if applicable)?
Data is not available as a relevant mitigation or adaptation action has not started yet	Put data collection and compilation processes in place before the action starts	Report The fact that the implementation has not yet started and When it is planned to start?



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