

Enhancing Climate Transparency: Capacity Building Workshop for Sri Lanka's First BTR

Tracking Progress MPG Requirements: Overview of the Common Tabular Format Tables

Jaypalsinh CHAUHAN

CBIT-GSP Regional Coordinator for Asia UNEP-CCC

jaypalsinh.chauhan@un.org

Executed by:



Funded by:



Implemented by:



17 November 2024



Information necessary to track progress made in implementing and achieving nationally determined contributions under Article 4 of the Paris Agreement

Decision 18/CMA.1

Modalities, procedures and guidelines for the transparency framework for action and support referred to in Article 13 of the Paris Agreement

Para 59 -102

Requested SBSTA to develop CRT and CTF tables

Chapter II Outline based on the MPGs: Information necessary to track progress made in implementing and achieving nationally determined contributions under Article 4 of the Paris Agreement

A. National circumstances and institutional arrangements

E. Summary of GHG Emissions and Removals

B. Description of a Party's NDC under Article 4 of the Paris Agreement, including updates

F. Projections of GHG Emissions and Removals

C. Information necessary to track progress

G. Other Information

D. Mitigation Policies, Actions, and Plans

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

Decision 5/CMA.3

Guidance for operationalizing the modalities, procedures and guidelines for the enhanced transparency framework referred to in Article 13 of the Paris Agreement

Adopted:

- CRTs for GHG inventories
- CTFs for NDC progress and achievements
- CTFs for support provided, needed and received

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

<i>Indicator(s) selected to track progress^a</i>	<i>Description</i>
{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.

^a 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).

^c 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:

Common Tabular Formats

What are CTFs?

- Set of standardized tables that provide a structured way to report information
- Designed to ensure comparability and transparency while also allowing for flexibility

Why use CTFs

- To track progress made in implementing and achieving NDCs
- Easier to compare and analyze data across countries and sectors



Common Tabular Formats - Tables

MPG Section III	Related Tables from the Common tabular formats (CTF)	Reporting requirement Paragraph of the MPGs	Flexibility, for Parties that need flexibility in the light of their capacities (self-determined)
B. Description of a Party's NDC	Appendix: Description of a Party's NDC	64	
C: . Information necessary to track progress made in implementing and achieving its nationally determined contribution under Article 4 of the Paris Agreement	Table 1: Structured summary: Description of selected indicators	65	
	Table 2. Structured summary: Definitions needed to understand NDC	73	
	Table 3. Structured summary: Methodologies and accounting approaches – consistency with Article 4, paragraphs 13 and 14 of the Paris Agreement and with decision 4/CMA.1	71-77d	
	Table 4. Structured summary: Tracking progress made in implementing and achieving the NDC under Article 4 of the Paris Agreement	77a -77dii	
	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	78	

Parties can have their latest reporting year as **three years prior to the submission of their national inventory report**

Common Tabular Formats - Tables

MPG Section III:	Related Tables from the Common tabular formats (CTF)	Reporting requirement	Flexibility, for Parties that need flexibility in the light of their capacities (self-determined)
D: Mitigation policies and measures, actions and plans, including those with mitigation co-benefits resulting from adaptation actions and economic diversification plans, related to implementing and achieving a nationally determined contribution under Article 4 of the Paris Agreement	Table 5. Mitigation policies and measures, actions, and plans, including those with mitigation co-benefits resulting from adaptation actions and economic diversification plans, related to implementing and achieving a nationally determined contribution under Article 4 of the Paris Agreement	82-85	Encouraged to report estimates of expected and achieved GHG emission reductions for its actions, policies, and measures
E. Summary of greenhouse gas emissions and removals	Table 6. Summary of greenhouse gas emissions and removals in accordance with the common reporting table 10 emission trends – summary	91	
F. Projections of greenhouse gas emissions and removals, as applicable	Table 7. Information on projections of greenhouse gas emissions and removals under a ‘with measures’ scenario	92-101	encouraged to report projections. Can instead report using a less detailed methodology or coverage.
	Table 8. Information on projections of greenhouse gas emissions and removals under a ‘with additional measures’ scenario		
	Table 9. Information on projections of greenhouse gas emissions and removals under a ‘without measures’ scenario		
	Table 10. Projections of key indicators	97	
Table 11. Key underlying assumptions and parameters used for projections	96 c		

CTF tables for the electronic reporting of the information necessary to track progress made in implementing and achieving NDCs

NDC definition and methods

- **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

Current mitigation status and tracking progress

- **Table 4:** Tracking progress
- **Table 5:** Mitigation policies, measures, actions and plans (Achieved)
- **Table 6:** Inventory summary

Projections and expected emissions reduction

- **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

Response measures

- **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

Executed by:



Funded by:



Implemented by:



copenhagen
climate centre

Understanding the tables

Progress of what?	What is the Target?	Description of NDC	Appendix
How will I track Progress?	Definitions	Definition necessary to understand the NDC	Table 1
	Indicators	Description of the indicator	Table 2
	Methodologies	Methodologies and accounting approaches	Table 3
How will I achieve the Target?	Policies, Measures, Actions & Plans	Mitigation policies, measures, action and plans	Table 5
	Projections	Projections of GHG emissions and Removals	Table 7,8&9
		Projections of indicators	Table 10
		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

CTF tables

MPG Section III: Information necessary to track progress made in implementing and achieving NDC	Related Tables from the Common tabular formats (CTF)	Reporting requirement	Flexibility, for Parties that need flexibility in the light of their capacities (self-determined)
C. Information necessary to track progress made in implementing and achieving its nationally determined contribution under Article 4 of the Paris Agreement	Table 1. Structured summary: Description of selected indicators Table 2. Structured summary: Definitions needed to understand NDC Table 3. Structured summary: Methodologies and accounting approaches – consistency with Article 4, paragraphs 13 and 14 of the Paris Agreement and with decision 4/CMA.1 Table 4. Structured summary: Tracking progress made in implementing and achieving the NDC under Article 4 of the Paris Agreement 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	Shall (65) Shall (74)	

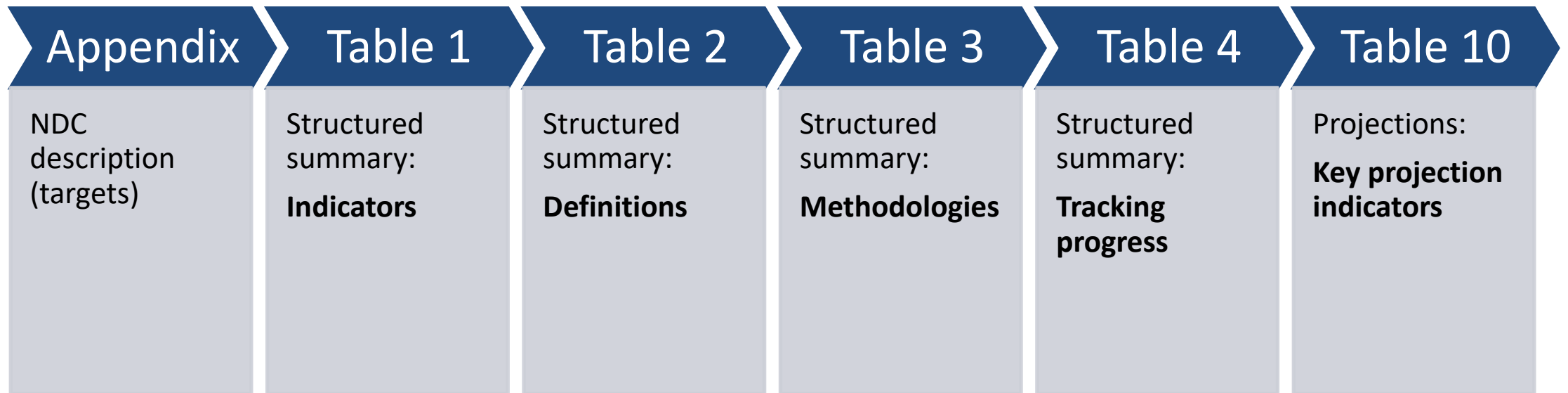
CTF tables

MPG Section III: Information necessary to track progress made in implementing and achieving NDC	Related Tables from the Common tabular formats (CTF)	Reporting requirement	Flexibility, for Parties that need flexibility in the light of their capacities (self-determined)
D. Mitigation policies and measures, actions and plans, including those with mitigation co-benefits resulting from adaptation actions and economic diversification plans, related to implementing and achieving a nationally determined contribution under Article 4 of the Paris Agreement	Table 5. Mitigation policies and measures, actions, and plans, including those with mitigation co-benefits resulting from adaptation actions and economic diversification plans, related to implementing and achieving a nationally determined contribution under Article 4 of the Paris Agreement	Shall (80)	Encouraged to report estimates of expected and achieved GHG emission reductions for its actions, policies, and measures

CTF tables

MPG Section III: Information necessary to track progress made in implementing and achieving NDC	Related Tables from the Common tabular formats (CTF)	Reporting requirement	Flexibility, for Parties that need flexibility in the light of their capacities (self-determined)
E. Summary of greenhouse gas emissions and removals	Table 6. Summary of greenhouse gas emissions and removals in accordance with the common reporting table 10 emission trends – summary	Shall for Parties that submit a stand-alone national inventory report.	Not indicated
F. Projections of greenhouse gas emissions and removals, as applicable	<p>Table 7. Information on projections of greenhouse gas emissions and removals under a ‘with measures’ scenario</p> <p>Table 8. Information on projections of greenhouse gas emissions and removals under a ‘with additional measures’ scenario</p> <p>Table 9. Information on projections of greenhouse gas emissions and removals under a ‘without measures’ scenario</p> <p>Table 10. Projections of key indicators</p> <p>Table 11. Key underlying assumptions and parameters used for projections</p>	Shall (92), but methodologies Should	encouraged to report projections. Can instead report using a less detailed methodology or coverage.
G. Other information	Info to be provided not necessarily in tabular format		

CTF tables: NDC indicators



NDC definition and methods

- **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

Current mitigation status and tracking progress

- **Table 4:** Tracking progress
- **Table 5:** Mitigation policies, measures, actions and plans (Achieved)
- **Table 6:** Inventory summary

Projections and expected emissions reduction

- **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

Response measures

- **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

NDC definition and methods

- **Appendix:** Description of a Party's NDC
- **Table 1:** Description of selected indicators
- **Table 2:** Definitions needed to understand the NDC

CTF table 1

Example of a completed CTF table 1 - Description of selected indicators

Indicator(s) selected to track progress	Description
GHG emissions covered by the NDC	Total economy-wide greenhouse gas emissions and removals in the relevant reporting year (t CO ₂ e) — <i>Emissions</i>
Information for the reference point(s), level(s), baseline(s), base year(s) or starting point(s), as appropriate	Reference level: 100 Mt CO ₂ e Base year: 2005 <i>RefEmissions</i>
Updates in accordance with any recalculation of the GHG inventory, as appropriate	Due to recalculations of the national GHG inventory, which were carried out after the communication of the NDC, the reference level changed from 101 Mt CO ₂ e to 100 Mt CO ₂ e.
Relation to the NDC	The NDC consists of an absolute economy-wide emission reduction target. Hence, total economy-wide greenhouse gas emissions and removals are the most appropriate indicator for this type of NDC.

Source: Partnership on Transparency in Paris Agreement, Accounting for National Determined Contributions

Example of the CTF Table 1 for Tunisia

1. Structured summary: Description of selected indicators

<i>Indicator(s) selected to track progress^a</i>	<i>Description</i>
Emissions intensity in the energy sector (GHG emissions per unit of GDP)	Greenhouse gas emissions in the energy sector (expressed in tons of CO ₂ eq) and GDP (expressed at constant 2010 prices)
Information for the reference point(s), level(s), baseline(s), base year(s) or starting point(s), as appropriate ^b	Reference level: 0.460 t CO ₂ eq/1000 TND 2010
	Base year:2010
Updates in accordance with any recalculation of the GHG inventory, as appropriate ^b	Due to recalculations of the national GHG Inventory, which were carried out after the communication of the NDC, the reference level changed from 0.466 t CO ₂ eq/1000TND 2010 to 0.460 t CO ₂ eq/1000 TND 2010
Relation to NDC ^c	The NDC consists of an emissions intensity target. Hence, Emissions intensity is the most appropriate indicator for this type of NDC

Linking CTF tables

NDC description		Table 1: Indicators		Table 2: Definitions	
Annex II, appendix		Structured summary		Structured summary	
Target:	30% reduction below BAU	Indicator:	GHG emissions	Indicator:	GHG emissions using AR5 GWPs
Type:	Emission reduction below a projected baseline	Reference:	Starting point 2019: 169 Mt CO ₂ e BAU 2030: 215 Mt CO ₂ e	Differences to inventory:	Exclusion of emissions from HFCs
Year:	2030	Updates:	No recalculation conducted	Co-benefits:	N/A
Reference:	BAU emissions 2030: 215 Mt CO ₂ e	Relation to NDC:	The indicator directly relates to the NDC target		
Time frame:	2020-2030				
Scope:	Economy-wide; all sectors; CO ₂ , CH ₄ , N ₂ O				

Source: UNFCCC, CGE Training materials -Mitigation Assessment

CTF Table 3. Structured summary: Methodologies and accounting approaches

Methodologies and accounting approaches	
Metrics and IPCC guidelines	
Assumptions, key parameters, definitions, data sources, models	
Consistency (communicated and implemented NDC; accounting for NDC and GHG inventory)	
Changes (corrections, improvements, updates)	
Inclusion of all relevant categories, and exclusions	
Information associated with any cooperative approaches that involve use of ITMOs, if applicable	

Table 3. Methodologies and accounting approaches

Article 4, para 13-14 Paris Agreement

13. Parties shall account for their nationally determined contributions. In accounting for anthropogenic emissions and removals corresponding to their nationally determined contributions, Parties shall promote environmental integrity, transparency, accuracy, completeness, comparability and consistency, and ensure the avoidance of double counting, in accordance with guidance adopted by the Conference of the Parties serving as the meeting of the Parties to this Agreement.

14. In the context of their nationally determined contributions, when recognizing and implementing mitigation actions with respect to anthropogenic emissions and removals, Parties should take into account, as appropriate, existing methods and guidance under the Convention, in the light of the provisions of paragraph 13 of this Article.

Accounting approaches:

Not official definition, but useful to work with Table 3 of the CTF:

In the case of NDC and tracking mitigation

Accounting approaches:= how the variety of elements that can be used to estimate numerical values of GHG emissions and mitigation potentials are used, including methodologies (IPCC), metrics (GWP), baselines, definitions..

CTF tables for the electronic reporting of the information necessary to track progress made in implementing and achieving NDCs

NDC definition and methods

- **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

Current mitigation status and tracking progress

- **Table 4:** Tracking progress
- **Table 5:** Mitigation policies, measures, actions and plans (Achieved)
- **Table 6:** Inventory summary

Projections and expected emissions reduction

- **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

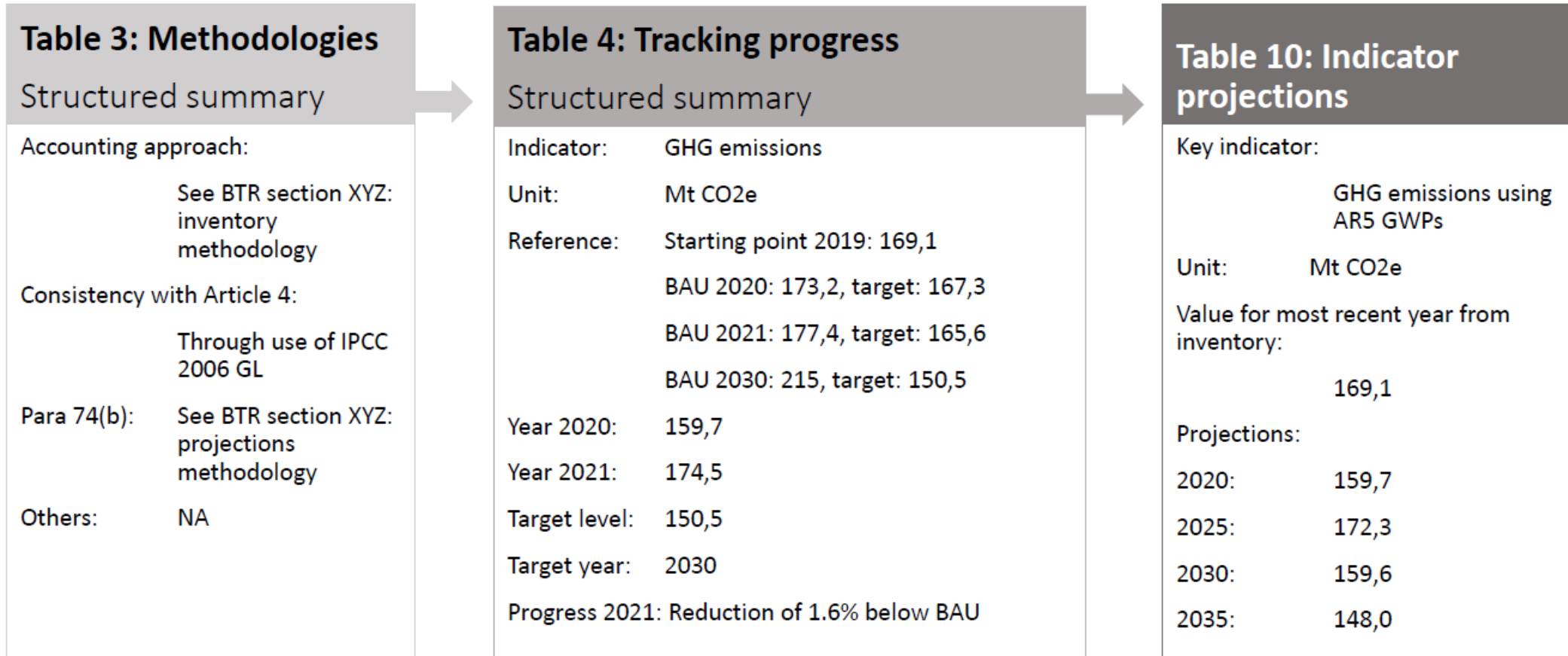
Response measures

- **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

Current mitigation status and tracking progress

- **Table 4:** Tracking progress

Examples of CTF tables 3, 4 and 10



Example of a completed CTF table 4 for tracking progress

	Unit, as applicable	Reference point(s) [...]	2021	2022	...	2030	Target level	Target year or period	Progress made [...]
Indicator(s) selected [...]									
GHG emissions covered by the NDC	Mt CO ₂ e	100 <i>RefEmissions</i>	88	86			80 <i>TargEmissions</i>	2030	14% below the reference level
Where applicable, total GHG emissions and removals consistent with the coverage of the NDC	Mt CO ₂ e	100	88	86					
Contribution from LULUCF [...]									
Each Party that participates in cooperative approaches [...]									
[...]	Relevant for Parties using cooperative approaches. See <i>Table 9</i>								
Assessment of the achievement of the Party's NDC under Article 4 of the Paris Agreement									
Relate the target of the Party's NDC:									
[...]	Relevant after the end of the NDC period. See <i>Table 10</i>								

Source: Partnership on Transparency in Paris Agreement, Accounting for National Determined Contributions

CTF table 4

Example of completed table 4
(after the end of the NDC
period)

	Unit, as applicable	Reference point(s) [...]	2021	2022	...	2030	Target level	Target year or period	Progress made [...]
Indicator(s) selected [...]									
GHG emissions covered by the NDC	Mt CO _{2e}	100 <i>RefEmissions</i>	88	86		79	80 <i>TargEmissions</i>	2030	21% below the reference level
Where applicable, total GHG emissions and removals consistent with the coverage of the NDC	Mt CO _{2e}	100	88	86		79			
Contribution from LULUCF [...]									
Each Party that participates in cooperative approaches [...]									
[...]	Relevant for Parties using cooperative approaches.								
Assessment of the achievement of the Party's NDC under Article 4 of the Paris Agreement									
Relate the target of the Party's NDC:									
Information for reference point(s) [...]	Mt CO _{2e}	100							
Final information for the indicator [...]	Mt CO _{2e}		88	86	...	79			
Comparison	The level in the target year is 79 Mt CO _{2e} . It is 21% below the reference level and it is below the target level.								
Achievement of NDC	Yes. The target has been achieved because the level in the target year is below the target level. <i>TargAchievement</i>								

Source: Partnership on Transparency in Paris Agreement, Accounting for National Determined Contributions

CTF table 4

Example of a completed table 4 (with ITMOs)

Indicator(s) selected [...]	Unit, as applicable	Reference point(s) [...]	2021	2022	...	2030	Target level	Target year or period	Progress made [...]
GHG emissions covered by the NDC	Mt CO ₂ e	100 <i>RefEmissions</i>	88	86			80 <i>TargEmissions</i>	2021 to 2030	14% below the reference level
Where applicable, total GHG emissions and removals consistent with the coverage of the NDC	Mt CO ₂ e	100	88	86					
Contribution from LULUCF [...]									
Each Party that participates in cooperative approaches [...]									
[...] indicative trajectory, trajectories or budget [...]									
[...] trajectory, trajectories or budget [...]	Mt CO ₂ e		89	88		80			
[...] emissions/ removals (non-GHG metrics)									
[...] emissions/ removals (PaMs NDC)									
[...] non-GHG indicator									
Annual quantity of ITMOs first transferred	Mt CO ₂ e		2	2					
Annual quantity of mitigation outcomes authorized	Mt CO ₂ e		1	1					
Annual quantity of ITMOs used towards achievement of the NDC									
Net annual quantity of ITMOs	Mt CO ₂ e		2	2					
[...] cumulative amount of ITMOs [...]									
Total quantitative corresponding adjustments used [...]	Mt CO ₂ e		2	2					
[...] cumulative information									
[...] annual emissions balance	Mt CO ₂ e		90	88					
[...] annual adjusted indicator									
Any other information									
Assessment of the achievement of the Party's NDC under Article 4 of the Paris Agreement									
Relate the target of the Party's NDC:									
[...]	Relevant after the end of the NDC period. See <i>Table 10</i>								

Source: Partnership on Transparency in Paris Agreement, Accounting for National Determined Contributions

CTF tables for the electronic reporting of the information necessary to track progress made in implementing and achieving NDCs

NDC definition and methods

- **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

Current mitigation status and tracking progress

- **Table 4:** Tracking progress
- **Table 5:** Mitigation policies, measures, actions and plans (Achieved)
- **Table 6:** Inventory summary

Projections and expected emissions reduction

- **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

Response measures

- **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

Current mitigation status and tracking progress

- **Table 5:** Mitigation policies, measures, actions and plans

CTF table 5 Reporting information on tracking progress of NDCs

Mitigation policies and measures, actions and plans

- Each Party **shall** provide information on policies, actions and measures that support implementation of its NDC, focusing on those that have the most significant impact on GHG emissions or removals and those impacting key categories in the national GHG inventory
- To the extent possible, Parties **shall** organize reporting of actions by sector (energy, transport, IPPU, agriculture, LULUCF, waste, other), in a tabular format, including relevant information on mitigation co-benefits, as applicable:

Name	Description	Objectives	Type of instrument (regulatory, economic, other)	Status (planned, adopted, implemented)	Sectors affected	Gasses affected	Start year of implementation	Implementing entity
------	-------------	------------	--	--	------------------	-----------------	------------------------------	---------------------

- Each Party **may** also provide information on related costs, non-GHG mitigation benefits and how these actions interact with each other, as appropriate
- Each Party **shall** provide information on estimates of expected and achieved GHG emission reductions [FX: encouraged]; and methodologies and assumptions used, to the extent possible
- Each Party **should**: identify PAMs no longer in-place and explain why; provide information on how its PAMs are modifying longer-terms trends in GHG emissions and removals

Key terms to understand

Mitigation policies or Plans	Actions or measures	Mitigation co-benefits
<ul style="list-style-type: none">• Refers to a decision or set of decisions that a government takes to achieve certain objectives• policies could be defined as instruments (such as regulations, taxes, subsidies, and information instruments) that enable or incentivize concrete actions to be implemented (such as replacement of technology or changes in behavior)	<ul style="list-style-type: none">• Refers to a concrete activity or set of activities taken by a government to implement a policy or plan	<ul style="list-style-type: none">• Results from actions undertaken as part of adaptation and/or economic diversification plans where these generate emissions reductions and thereby contribute to achieving mitigation outcomes

Parties to the Paris Agreement may implement mitigation policies and measures, actions and plans in any sector of their economy and must report information on those actions, policies and measures that **have the most significant impact on GHG emissions or removals and those impacting key categories** in the national GHG inventory

CTF table 5

Example of CTF Table 5 for Mauritius

Name	Description	Objectives	Type of instrument	Status	Sector(s) affected	Gases affected	Start year of implementation	Implementing entity or entities	Estimates of GHG emission reductions (kt CO2 eq)	
									Achieved	Expected in 2030
Improved fuel economy of vehicles	Improvements in the fuel intensity of vehicles at the rate of 0.5% per year between 2022 and 2030, decreasing to 0.25% per year after 2030.	Technological improvements, better fuel economies.	Regulatory, economic	Planned	Transport	CO2, CH4, N2O	2021	MLTLR; TMRSU; Mauritius Standards Bureau (MSB); National Land Transport Authority (NLTA).		6.7

Example of Belize

Mitigation Action	Timeframe	Specific Objectives	Coverage							Emissions Reduction Potential	Co-Benefits
			Scope	Implementing Entity	Support Entity	Support Type	Gas	Funding Provided	Status		
1. emPOWER Rural Electrification Project - Caribbean Renewable Energy Fund	November 2018 - February 2020	Provide renewable energy solutions to assist Belize in achieving universal energy access.	Community Level (3)	Energy Unit, Ministry of Labour, Local Government, Rural Development, Public Service, Energy & Public Utilities	United Arab Emirates (UAE)	Financial	CO ₂	2.3M USD	Ongoing	319 tCO ₂ eq/year	Access to clean energy to the population of rural villages that currently do not have access to the national grid. Improvement in community livelihood, economic development, increased employment, and quality of jobs.
Description	The emPower Rural Electrification Project plans to install 400kW of solar PV and battery storage in rural villages that currently do not have access to the national grid. These villages are Medina Bank, Golden State, and Indian Creek. This project is in alignment with Belize's Sustainable Energy Action Plan (SEAP), which sets a goal of universal access to energy services by 2030.										
Assumptions	The estimated grid emission factor is 0.218 tCO ₂ /MWh, calculated by splitting the GHG emissions of electricity production (GHG inventory category 1A1) for year 2017 by the MWh produced (data obtained from BEL). The estimation of impact of this policy is made by applying the grid emission factor to the 400kW installed. The value of capacity factor is obtained by multiplying daily isolation hours by 365 days.										

Estimates of expected and achieved GHG emission reductions as a result of its PAMs

“Shall” requirement

Those developing country Parties that need flexibility in the light of their capacities with respect to this provision are instead encouraged to report such information.

Parties must describe the methodologies and assumptions used to estimate the GHG emission reductions or removals resulting from each PAM.

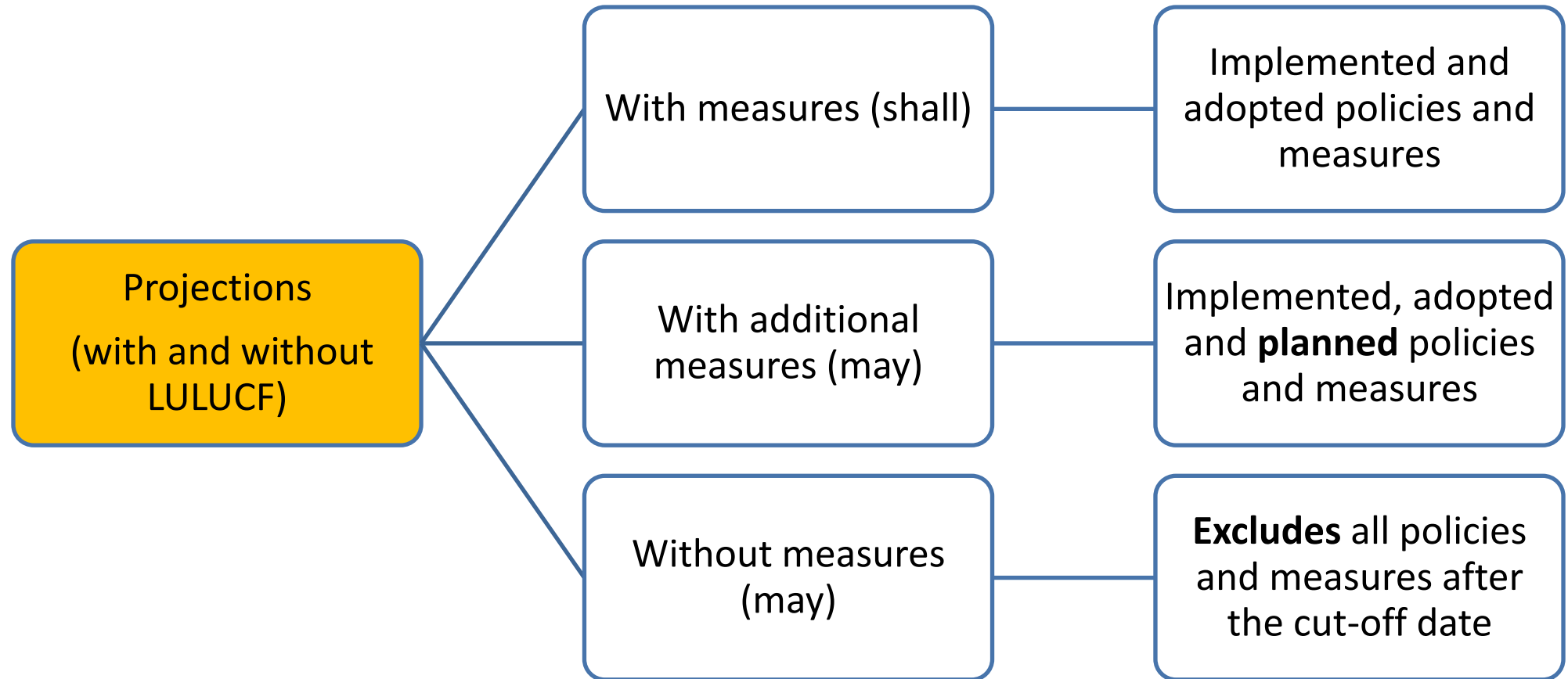
6. Summary of greenhouse gas emissions and removals

6. Summary of greenhouse gas emissions and removals in accordance with the common reporting table 10 emission trends –summary

According to paragraph 91 of the MPGs, each Party that submits a stand-alone national inventory report shall provide a summary of its GHG emissions and removals. This information shall be provided for those reporting years corresponding to the Party's most recent national inventory report, in a tabular format.

- Each Party, that submits a stand-alone national inventory report, **shall** provide a **summary of its GHG emissions and removals**.

Projections of GHG emissions



Projections of GHG emissions

- Each Party **shall** report projections for emissions and removals [FX: encouraged]
- Projections will be **indicative on future trends and** will not be used to assess progress towards NDC, unless a Party identified the reported projection as its baseline.
- Projections **shall** begin from most recent year in the Party's inventory report and extend **at least 15 years beyond the next year** ending in zero or five [FX: extend their projections at least to the end point of their NDC]
- Each Party **should** provide information on the methodology used to develop projections:
 - Models, approaches, key assumptions, parameters (GDP rate/level, population growth rate/level, etc.)
 - Changes in methodology since the latest BTR
 - Assumptions on policies and measures included in WM and WAM projections, if included
 - Sensitivity analysis for the projections
- Each Party shall report projections **for key indicators** to determine progress towards its NDC
- Each Party shall include **projections on a sectoral basis and by gas**, as well as for the national total
- Projections shall be presented **relative to actual inventory data** (for preceding years) and be provided with and without LULUCF

[FX: can report using less detailed methodology or coverage]

7. Information on projections of greenhouse gas emissions and removals under a 'with measures' scenario

7. Information on projections of greenhouse gas emissions and removals under a ' <u>with measures</u> ' scenario ^{a,b}				
Sector ^d	Most recent year in the Party's national inventory report (kt CO ₂ eq) ^c			
	Projections of GHG emissions and removals, (kt CO ₂ eq) ^c			
	2016	2025	2030	2035
Energy	3013		2005	
Transport	1169		1385	
Industrial processes and product use	311		479	
Agriculture	158		188	
LULUCF	-330		-293	
Waste	559		322	
Other (specify)				
Gas				
CO ₂ emissions including net CO ₂ from LULUCF				
CO ₂ emissions excluding net CO ₂ from LULUCF				
CH ₄ emissions including CH ₄ from LULUCF				
CH ₄ emissions excluding CH ₄ from LULUCF				
N ₂ O emissions including N ₂ O from LULUCF				
N ₂ O emissions excluding N ₂ O from LULUCF				
HFCs				
PFCs				
SF ₆				
NF ₃				
Other (specify)				
Total with LULUCF	4881		4086	
Total without LULUCF	5211		4379	

8. Information on projections of greenhouse gas emissions and removals under a 'with additional measures' scenario

9. Information on projections of greenhouse gas emissions and removals under a 'without measures' scenario

8. Information on projections of greenhouse gas emissions and removals under a 'with additional measures' scenario ^{a,b}				
Sector ^d	Most recent year in the Party's national inventory report (kt CO2 eq) ^c	Projections of GHG emissions and removals, (kt CO2 eq) ^c		
		20XX	20X(0)(5)	20X(0)(5)
		20XX	20X(0)(5)	20X(0)(5)
Energy				
Transport				
Industrial processes and product use				
Agriculture				
LULUCF				
Waste				
Other (specify)				
Gas				
CO2 emissions including net CO2 from LULUCF				
CO2 emissions excluding net CO2 from LULUCF				
CH4 emissions including CH4 from LULUCF				
CH4 emissions excluding CH4 from LULUCF				
N2O emissions including N2O from LULUCF				
N2O emissions excluding N2O from LULUCF				
HFCs				
PFCs				
SF6				
NF3				
Other (specify)				
Total with LULUCF				
Total without LULUCF				

9. Information on projections of greenhouse gas emissions and removals under a 'without measures' scenario ^{a,b}				
Sector ^d	Most recent year in the Party's national inventory report (kt CO2 eq) ^c	Projections of GHG emissions and removals, (kt CO2 eq) ^c		
		2016	2025	2030
		2016	2025	2030
Energy	3013		4316	
Transport	1169		1514	
Industrial processes and product use	311		534	
Agriculture	158		188	
LULUCF	-330		-293	
Waste	559		635	
Other (specify)				
Gas				
CO2 emissions including net CO2 from LULUCF				
CO2 emissions excluding net CO2 from LULUCF				
CH4 emissions including CH4 from LULUCF				
CH4 emissions excluding CH4 from LULUCF				
N2O emissions including N2O from LULUCF				
N2O emissions excluding N2O from LULUCF				
HFCs				
PFCs				
SF6				
NF3				
Other (specify)				
Total with LULUCF	4881		6894	
Total without LULUCF	5211		7187	

10. Projections of key indicators

Key indicator(s): ^c	Unit, as applicable	Most recent year in the Party's national	Projections of key indicators ^d		
		2021	2025	2030	2035
Total economy-wide greenhouse gas emissions and removals	kt CO2 eq	4881	4409	4086	3800
Solar Power Installation	Gigawatts (GW)	50	80	120	170
Electric Vehicle Adoption	Number of Electric Vehicle	50	100	200	400
Forest Cover Increase	Hectares (in thousands)	200	250	300	360

11. Key underlying assumptions and parameters used for projections

11. Key underlying assumptions and parameters used for projections^{a,b}

Key underlying assumptions and parameters: ^c	Unit, as applicable	Most recent year in the Party's national inventory report, or the most recent year for which data is available				Projections of key underlying assumptions and parameters ^d			
		2021	2025	2030	2035	2025	2030	2035	
Gross Domestic Product Growth Rate	Percentage (%)	3.5	4	4.5	5				
Population Growth Rate	Percentage (%)	1.2	1.5	1.8	2				
Energy Consumption per Capita	MWh per person	7.5	8	8.5	9				

Flexibility Provisions

Flexibility provisions (Annex to decision 18/CMA.1)	Flexibility provisions for those developing country Parties that need it in the light of their capacities
Para. 85 (estimated impacts of PaMs)	<p>Each Party shall provide, estimates of expected and achieved GHG emission reductions for its actions, policies and measures in the tabular format referred to in paragraph 82 above; those developing country Parties that need flexibility are instead encouraged to report this information.</p> <p>Use notation key FX</p>
Para. 92 (projections)	<p>Each Party shall report projections pursuant to paragraphs 93–101 below; those developing country Parties that need flexibility in the light of their capacities are instead encouraged to report these projections.</p> <p>UNFCCC Progress tool: version settings, data entry grids, and reporting tables for projections are all disabled</p>
Para. 95 (projections)	<p>Projections shall begin from the most recent year in the Party’s national inventory report and extend at least 15 years beyond the next year ending in zero or five; those developing country Parties have the flexibility to instead extend their projections at least to the end point of their NDC under Article 4 of the Paris Agreement.</p> <p>Endpoint of projections as early as NDC end year is allowed.</p>
Para. 102 (projections)	<p>Those developing country Parties that need flexibility in the light of their capacities with respect to paragraphs 93–101 can instead report using a less detailed methodology or coverage.</p> <p>Use notation key FX.</p>



Welcome to the
Climate
Transparency
Platform

LEARN MORE



Thank you for your attention!



CBIT-GSP
Asia Network Coordinator

Jaypalsinh CHAUHAN
jaypalsinh.chauhan@un.org

Executed by:



Funded by:

copenhagen
climate centre



CBIT-GSP
Transparency Adviser

Khetsiwe KHUMALO
khetsiwe.khumalo@un.org

Implemented by:



www.climate-transparency-platform.org

