Alianza para la Transparencia
en el Acuerdo de París
Grupo Regional de América Latina y el Caribe

REPÚBLICA DE PANAMÁ
GOBIERNO NACIONAL

CBIT-GSP
CLIMATE TRANSPARENCY

Tracking progress of the mitigation commitments of NDCs
CTF tables 6 to 11

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UN environment programme
Federal Ministry for Economic Affairs and Climate Action
on the basis of a decision by the German Bundestag
IKI INTERNATIONAL CLIMATE INITIATIVE
gef
UN environment programme | copenhagen climate centre
Transparencia Climática Colombia
Gobierno del Cambio
EPA United States Environmental Protection Agency

Reporting proyections under the ETF

Para MPGs	Type	Requirement
92	Shall / Encouraged	**Report projections** with flexibility for developing countries
93	Shall	Indicative of the impact of PaMs, **not for progress assessment** unless specified
94	Shall / May	Report **'with measures'** projection and optionally others
95	Shall	Projections to start from most recent year and **extend at least 15 years**, with flexibility for developing countries
96	Should	**Methodology** description including models, changes, assumptions, and sensitivity analysis
97	Shall	Provide projections of key **indicators** for NDC progress
98	Shall	Include **sectoral**, by **gas** and national **total** projections using a consistent metric
99	Shall	Present projections relative to actual inventory data
100	Shall	Provide emission projections with and without LULUCF
101	Shall	Present projections in graphical and tabular formats

Table of tables

Issue	Summary of GHG inventory	Scenarios (WEM, WAM, WOM)	Indicators	Assumptions and parameters
Tale #	6	7,8,9	10	11
Para in MPG	91	94	97	96 a

Summary of GHG emissions and removals

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	**6. Summary of greenhouse gas emissions and removals in accordance with the common reporting table 10 emission trends –summary**												
2	According to paragraph 91 of the MPGs, each Party that submits a stand-alone national inventory report shall provide a summary												
3	of its GHG emissions and removals. This information shall be provided for those reporting years corresponding to the Party's												
4	most recent national inventory report, in a tabular format.												

National inventory report may be submitted as a stand-alone report or as a component of a biennial transparency report (paragraph 12 of chapter II of MPGs) and consists of a national inventory document and the common reporting tables (paragraph 38 of chapter II of MPGs).

TABLE 10 EMISSION TRENDS
GHG CO_2 eq emissions
(Sheet 1 of 6)
Back to Index

Year
Submission
Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Reference year/period for NDC [1]	Base year [2]	1990	(Years 1991 to 2019)	(Years 1991 to 2019)	(Years 1991 to 2019)	2020	(Years 2021 to latest reported year)	(Years 2021 to latest reported year)	(Years 2021 to latest reported year)	Change from 1990[base year][reference[year][period]] to latest
	kt CO_2 equivalents (kt) [3]										%
Total (net emissions) [4]											
1. Energy											
1.A. Fuel combustion											
1.A.1. Energy industries											
1.A.2. Manufacturing industries and construction											
1.A.3. Transport											
1.A.4. Other sectors											
1.A.5. Other											
1.B. Fugitive emissions from fuels											
1.B.1. Solid fuels											
1.B.2. Oil and natural gas and other emissions from energy production											
1.C. CO_2 Transport and storage											
2. Industrial processes and product use											
2.A. Mineral industry											
2.B. Chemical industry											
2.C. Metal industry											
2.D. Non-energy products from fuels and solvent use											
2.E. Electronic industry											
2.F. Product uses as substitutes for ODS											
2.G. Other product manufacture and use											
2.H. Other											

Projections of GHG emissions and removals

Tables: 7,8,9

Table 7: With existing measures scenario (WEM)

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 ‘with measures’ scenario[a,b]

	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*	*2035*
Sector[d]				
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				
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		4086	
Total without LULUCF	5211		4379	

Table 8: With additional measures scenario (WAM)

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

8. Information on projections of greenhouse gas emissions and removals under a ‘with additional measures’ scenario[a,b]				
	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)*	*20X(0)(5)*
Sector[d]				
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				

Table 9: Without measures scenario (WOM)

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

9. Information on projections of greenhouse gas emissions and removals under a ‘without measures’ scenario[a,b]

	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*	*2035*
Sector[d]				
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	

Report flexibility

5. *Decides* that those developing country Parties that need flexibility in the light of their capacities may, when reporting on a provision for which they have a capacity constraint, choose one or more of the following options, as applicable, to reflect the application of the specific flexibility provisions included in the annex to decision 18/CMA.1 in the common reporting tables and common tabular formats, as contained in annexes I and II, respectively:

(a) Use the new notation key "FX" (flexibility) in the relevant common reporting tables or common tabular formats, providing an explanation of how the specific flexibility provision has been applied in the corresponding documentation box;

(b) Collapse relevant row(s) or column(s) where "FX" is reported in each cell in the row or column and expand them again for display purposes, providing an explanation of how the specific flexibility provision has been applied in the corresponding documentation box;

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

	Most recent year in the Party's national inventory report (kt CO2 eq) [c]	*Projections of GHG emissions and removals, (kt CO2 eq)* [c]		
	2020	*2025*	*2030*	*2035*
CO2 emissions excluding net CO2 from LULUCF	5000	4800	4500	FX
CH4 emissions including CH4 from LULUCF	FX	FX	FX	FX
CH4 emissions excluding CH4 from LULUCF	FX	FX	FX	FX
N2O emissions including N2O from LULUCF	FX	FX	FX	FX
N2O emissions excluding N2O from LULUCF	FX	FX	FX	FX
HFCs	FX	FX	FX	FX
PFCs	FX	FX	FX	FX
SF6	FX	FX	FX	FX
NF3	FX	FX	FX	FX
Other (specify)	FX	FX	FX	FX
Total with LULUCF	FX	FX	FX	FX
Total without LULUCF	5000	4800	4500	FX

[a] Each Party shall report projections pursuant to paras. 93–101 of the MPGs; those developing country Parties that need flexibility in the light of their capacities are instead encouraged to report such projections (para. 92 of the MPGs).

Exercises with CTF tables: Examples of projections reported

Exercises with CTF tables: Examples of projections reported

For purposes of this exercise, we will also use examples of a variety of countries: Australia, New Zealand, Canada, USA, Ireland, Japan

All the National Communications of Annex I Parties can be **downloaded** at: https://unfccc.int/NC8

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Exercises with CTF tables

- **1st Exercise: Filling Tables CTF 7-11. Examples of Projections already reported**
- 2nd Exercise: Filling Table CTF 7. Use your Table B (optional)

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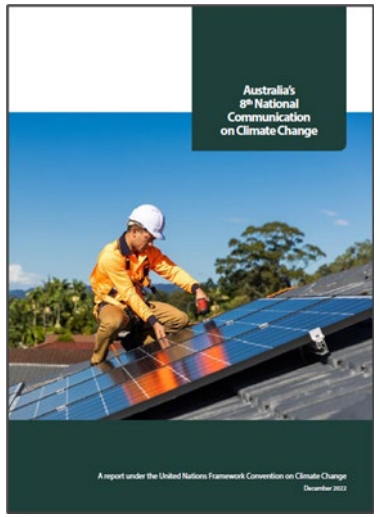
Exercises with CTF tables

1. Australia presents in Table #5.1 of its 8th National Communication (page 131), projections of GHG emissions by sector and gas.

a) With this information available, which CTF Tables from 7 to 11 can be filled?

b) Fill the corresponding CTF tables with the data provided in Table #5.1 of Australia´s 8th National Communication. Consider 2020 as the most recent year in the Party´s national inventory report.



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Exercises with CTF tables

2. New Zealand presents in Tables #5.3 and 5.4 of its 8th National Communication (page 166), key assumptions for modelling their GHG projections.

a)With this information available, which CTF Tables from 7 to 11 can be filled?

b)Fill the corresponding CTF tables with the data provided in Tables #5.3 and 5.4 of New Zealand´s 8th National Communication. Consider 2020 as the most recent year in the Party´s national inventory report.

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Exercises with CTF tables

3. New Zealand presents in Table #5.6 of its 8th National Communication (page 168), WEM, WOM and WAM projections of GHG emissions by gas.

a)With this information available, which CTF Tables from 7 to 11 can be filled?

b)Fill one of the corresponding CTF tables with the data provided in #Table 5.6 of New Zealand´s 8th National Communication. Consider 2020 as the most recent year in the Party´s national inventory report.

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Exercises with CTF tables

4. Canada presents in Table #5-1 of its 8th National Communication (page 251), projections of GHG emissions by sector.

a)With this information available, which CTF Tables from 7 to 11 can be filled?

b)Do you identify specific problems to fill the CTF tables with the data provided by Canada in this Table?

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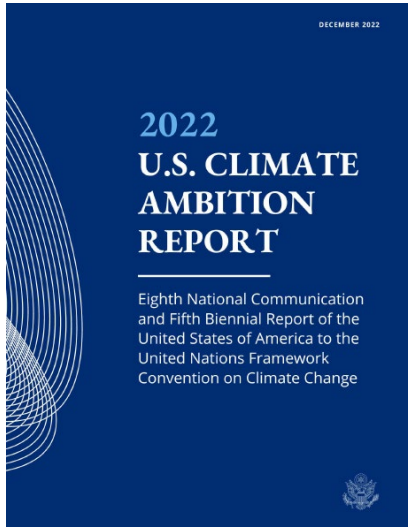
Exercises with CTF tables

5. USA presents in Table #5.1 of its 8th National Communication (page 138), projections of GHG emissions by gas and in table #5.2, projections of GHG emissions by sector.

a)With this information available, which CTF Tables from 7 to 11 can be filled?

b)Fill the corresponding CTF tables with the data provided in Table #5.2 of USA´s 8th National Communication. Consider 2020 as the most recent year in the Party´s national inventory report.



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Exercises with CTF tables

6. Ireland presents in Table #5.4 and 5.5 of its 8th National Communication (page 211), projections of GHG emissions by gas for the WEM scenario and in Table #5.6, projections of GHG emissions by gas for the WAM scenario.

a)With this information available, which CTF Tables from 7 to 11 can be filled?

b)Fill the corresponding CTF tables with the data provided in Table #5.4 of Ireland´s 8th National Communication. Consider 2020 as the most recent year in the Party´s national inventory report.

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Exercises with CTF tables

7. Japan presents in Table #4-1 of its 8th National Communication (page 207), projections of GHG emissions by sector and gas.

a)With this information available, which CTF Tables from 7 to 11 can be filled?

b)Fill the corresponding CTF tables with the data provided in Table #5.1 of Japan´s 8th National Communication. Consider 2020 as the most recent year in the Party´s national inventory report.

Projections key indicators

Table 10

Reporting projections under the ETF

Para MPGs	Type	Requirement
92	Shall / Encouraged	**Report projections** with flexibility for developing countries
93	Shall	Indicative of the impact of PaMs, **not for progress assessment** unless specified
94	Shall / May	Report '**with measures**' projection and optionally others
95	Shall	Projections to start from most recent year and **extend at least 15 years**, with flexibility for developing countries
96	Should	**Methodology** description including models, changes, assumptions, and sensitivity analysis
97	**Shall**	97. Each Party shall also **provide projections of key indicators** to determine progress towards its NDC under Article 4 of the Paris Agreement.
98	Shall	Include **sectoral**, by **gas** and national **total** projections using a consistent metric
99	Shall	Present projections relative to actual inventory data
100	Shall	Provide emission projections with and without LULUCF
101	Shall	Present projections in graphical and tabular formats

10. Projections of key indicators

10. Projections of key indicators[a,b]

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

Key underlying assumptions and parameters used for projections

Table 11

Reporting projections under the ETF

Para MPGs	Type	Requirement
92	Shall / Encouraged	**Report projections** with flexibility for developing countries
93	Shall	Indicative of the impact of PaMs, **not for progress assessment** unless specified
94	Shall / May	Report '**with measures**' projection and optionally others
95	Shall	Projections to start from most recent year and **extend at least 15 years**, with flexibility for developing countries
96	**Should**	96. Each Party should provide information in describing the **methodology** used to develop the projections. This information should include: • (a) Models and/or approaches used and **key underlying assumptions and parameters used for projections** (e.g. gross domestic product growth rate/level, population growth rate/level);
97	Shall	97. Each Party shall also provide projections of key indicators to determine progress towards its NDC under Article 4 of the Paris Agreement.
98	Shall	Include **sectoral**, by **gas** and national **total** projections using a consistent metric
99	Shall	Present projections relative to actual inventory data
100	Shall	Provide emission projections with and without LULUCF
101	Shall	Present projections in graphical and tabular formats

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*
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

Fill in CTF Tables 10 and 11 with data for your country

Data for your country: **Table B: Projections in "Tables to be filled by participants"**

Fill in Tables CTF 10 and 11 in the file ***"CTF_Tracking_Progress_NDC_Template_Clean"***