



Status report of the annual inventory of Canada

1. This status report was prepared by the secretariat pursuant to decision 13/CP.20 as part of the initial assessment of Canada's 2023 annual greenhouse gas inventory, submitted in accordance with decision 24/CP.19.
2. The report reflects the content of the inventory submission as submitted by the Party, which, in accordance with decision 24/CP.19, is due by 15 April each year (dates of submission are provided in the table on p.2).
3. In accordance with decisions 24/CP.19 and 6/CP.27, Parties report aggregate emissions and removals in carbon dioxide equivalent using the global warming potential values from the Fourth or Fifth Assessment Report of the Intergovernmental Panel on Climate Change over a 100-year time-horizon.
4. In this report, the following abbreviations are used:

CRF: common reporting format

GHG: greenhouse gas

IPPU: industrial processes and product use

LULUCF: land use, land-use change and forestry

NIR: national inventory report

Notation keys

C: confidential

IE: included elsewhere

NA: not applicable

NE: not estimated

NO: not occurring

Gases

CH₄: methane

CO: carbon monoxide

CO₂: carbon dioxide

HFC: hydrofluorocarbon

HFC/PFC mix: unspecified mix of hydrofluorocarbons
and perfluorocarbons

N₂O: nitrous oxide

NF₃: nitrogen trifluoride

NMVOC: non-methane volatile organic compound

NO_x: nitrogen oxides

PFC: perfluorocarbon

SF₆: sulfur hexafluoride

SO₂: sulfur dioxide



Part I														
General information regarding 2023 inventory submission														
General information		Date of original submission			Date(s) of resubmission(s)						Comments ^a			
	NIR	14 April 2023												
	CRF tables ^b	14 April 2023									Latest inventory (assessed in this report): CAN_2023_2			
	Additional information ^c													
	CRF tables provided for years	1990–2021						Global warming potential values used				Fourth Assessment Report		
	Base year or period ^d	1990												
	Gases covered ^e	CO ₂	CH ₄	N ₂ O	HFCs	PFCs	HFC/PFC mix	SF ₆	NF ₃	NO _x	CO	NMVOCs	SO ₂	
		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

^a The comments field is used to indicate the name of the inventory being assessed (relevant to CRF tables), the names of the files submitted as additional information (relevant to additional information) and any other information relevant to the submission.

^b Contained in annex II to decision 24/CP.19.

^c Additional information can be any information submitted by a Party in conjunction with its NIR or CRF tables.

^d Parties included in Annex I to the Convention undergoing the process of transition to a market economy may use a base year or period of years other than 1990 in accordance with the provisions of Article 4, para. 6, of the Convention and decision 24/CP.19.

^e If, for the latest inventory year, for a given gas, a Party reported a numerical value or a notation key other than “NE”, a tick is shown in the respective cell; if “NE”, zero or no value was reported, the cell is blank.

Part II															
Completeness of CRF tables for the latest reported inventory year (2021)															
Sectoral tables		Energy		IPPU		Agriculture		LULUCF				Waste			
	Sectoral report tables	1	✓	2(I)	✓	3	✓	4	✓	4.1	✓	5	✓		
	Sectoral background tables	1.A(a)	✓	2(I)A-H	✓	3.A	✓	4.A	✓	4(I)	✓	5.A	✓		
		1.A(b)	✓	2(II)	✓	3.B(a)	✓	4.B	✓	4(II)	✓	5.B	✓		
		1.A(c)	✓	2(II)B-H	✓	3.B(b)	✓	4.C	✓	4(III)	✓	5.C	✓		
		1.A(d)	✓			3.C	✓	4.D	✓	4(IV)	✓	5.D	✓		
		1.B.1	✓			3.D	✓	4.E	✓	4(V)	✓				
		1.B.2	✓			3.E	✓	4.F	✓						
		1.C	✓			3.F	✓	4.G	✓						
1.D		✓	3.G-I			✓									
Summative and cross-cutting tables ^a	Cross-sectoral report tables	Table6 (Indirect emissions of N ₂ O and CO ₂)					✓								
	Other tables	Table9 (Information on notation keys – “NE”)					✓	Table9 (Information on notation keys – “IE”)					✓		

Note: A tick indicates that the respective CRF table is not blank.

^a Tables that are automatically generated by CRF Reporter (summary table 1.A, summary table 2, summary table 3, table 7 key categories, table 10 emission trends) are not included here.

Part III									
Provision of selected information in the CRF tables									
<i>Direct GHG totals^a</i>	Gas	CO ₂	CH ₄	N ₂ O	HFCs	PFCs	HFC/PFC mix	SF ₆	NF ₃
	Provided for years	1990–2021	1990–2021	1990–2021	1990–2021	1990–2021	1990–2021	1990–2021	1990–2021
<i>Indirect CO₂^b</i>	Sector	Energy	IPPU	Agriculture	LULUCF	Waste	Other		
	Provided for years				1990–2021				
<i>Energy CO₂^c</i>	Comparison of estimated CO ₂ emissions from fuel combustion ^c	Reference approach	Sectoral approach	Difference in estimate between reference and sectoral approach more than 2%					
		✓	✓	Liquid		Solid	✓	Gaseous	
<i>International bunkers</i>	Bunker type	Aviation	Navigation						
	Provided for years	1990–2021	1990–2021						
<i>HFCs and PFCs^d</i>	Disaggregation by species	HFCs	PFCs						
		✓	✓						

^a Considered provided if the total for a given gas is a numerical value or a notation key other than “NE”.
^b Considered provided if the total for a given sector is a numerical value or a notation key other than “NE”.
^c A tick indicates that the information was provided.
^d Assessment based on information reported for the latest inventory year.

Part IV					
Completeness of CRF tables for years reported (base year, 1990–2021)					
	<i>Yes/no</i>	<i>Sector</i>	<i>Table</i>	<i>Year(s)</i>	<i>Notation keys used</i>
CRF submission contains blank tables ^a	No				
CRF submission includes tables containing only notation keys ^b	Yes	Energy	Table1.C	1990–1999	IE, NA, NO
		Agriculture	Table3.C	1990–2021	NO
		Agriculture	Table3.E	1990–2021	NO
		LULUCF	Table4.F	1990–2021	NE, NO
		LULUCF	Table4(I)	1990–2021	IE, NA, NO
		LULUCF	Table4(IV)	1990–2021	IE

^a Excludes CRF table 8 for the latest reported inventory year.

^b Notation keys associated with methods and emission factor information are not considered.

Part V					
Provision of information in the CRF tables relating to recalculations					
Recalculation(s) reported for year(s) ^a	1990–2020				
Recalculated sectors/gases ^b	Energy	IPPU	Agriculture	LULUCF	Waste
CO ₂	✓	✓	✓	✓	✓
CH ₄	✓	✓	✓	✓	✓
N ₂ O	✓	✓	✓	✓	✓
HFCs		✓			
PFCs		✓			
HFC/PFC mix					
SF ₆		✓			
NF ₃					
Indirect CO ₂	✓				
Percentage difference in estimated aggregate GHG emissions	Base year ^c	With LULUCF	–1.33%	Without LULUCF	–1.03%
	Latest recalculated year ^d	With LULUCF	–3.03%	Without LULUCF	–2.02%

^a Years for which recalculations were performed.

^b A tick indicates that, for the respective sector and gas, recalculations were performed for one or more years.

^c Parties included in Annex I to the Convention undergoing the process of transition to a market economy may use a base year or period of years other than 1990 in accordance with the provisions of Article 4, para. 6, of the Convention and decision 24/CP.19.

^d Latest reported inventory year minus one.