

United Nations

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English only

Status report of the annual inventory of the Russian Federation

1. This status report was prepared by the secretariat pursuant to decision 22/CMP.1 in conjunction with decision 4/CMP.11 as part of the initial check of the Russian Federation's 2023 annual greenhouse gas inventory, submitted in accordance with decisions 24/CP.19 and 15/CMP.1 in conjunction with decisions 3/CMP.11 and 2/CMP.8.

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 HWP: harvested wood products IPPU: industrial processes and product use KP-LULUCF activities: activities under Article 3, paragraphs 3–4, of the Kyoto Protocol LULUCF: land use, land-use change and forestry NIR: national inventory report SEF: standard electronic format

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 Kyoto Protocol units AAU: assigned amount unit CER: certified emission reduction ERU: emission reduction unit ICER: long-term certified emission reduction RMU: removal unit tCER: temporary certified emission reduction

Notation keys C: confidential IE: included elsewhere NA: not applicable NE: not estimated NO: not occurring



	Part I General information regarding 2023 inventory submission															
			Date of original submission			s) of rest	ubmission(s)		Comments ^a							
General information	NIR	18 A	pril 202	23												
	CRF tables ^b	18 A	18 April 2023			29 May 2023				Latest inventory (assessed in this report): RUS_2023_2						
	Additional information ^c															
General i	CRF tables provided for years	1990	1990–2021							Global warming potential Fourth Assessm values used Report						
	Base year or period ^{d}	1990		Base	e year for HFCs, PFCs and				SF ₆ ^e 1995			Base year for NF3 ^{<i>f</i>}				
	Gases covered ^g	CO_2	CH4	N ₂ O	HFCs	PFCs	HFC/PFC mix	SI	F6	NF ₃	NOx	СО	NMVOCs	SO ₂		
		~	~	~	~	~	~	~	/	~	~	~	~	~		
CRF tables	Source categories accounting for 7% or more of the Party's aggregate emissions from sources included in Annex A to the Kyoto Protocol ^h	No n	nissing	source	catego	ry acco	unting for 7	%	or n	nore has	s been id	entified				

^{*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 decisions 9/CP.2 and 11/CP.4.

^e A Party may select 1995 as the base year for HFCs, PFCs and SF₆ in accordance with Article 3, para. 8, of the Kyoto Protocol.

^f A Party may select 1995 or 2000 as the base year for NF₃ in accordance with Article 3, para. 8 bis, in the Doha Amendment.

^g 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.

^h In accordance with decision 15/CMP.1, para. 3(b), in conjunction with decision 3/CMP.11.

	Part II General information regarding the submission of supplementary information under Article 7, paragraph 1, of the Kyoto Protocol											
		Date of original submission	Date(s) of resubmission(s)	<i>Comments</i> ^a								
и	KP-LULUCF information ^b	18 April 2023		NIR chapter 10								
of supplementary information	KP-LULUCF CRF tables ^c	18 April 2023	29 May 2023	KP-LULUCF CRF tables provided for years	1990, 2013–2021							
lementary	Information on Kyoto Protocol units (AAUs, CERs, ERUs and RMUs) ^{d}			NIR chapter 10								
	SEF tables with Kyoto Protocol units ^e											
Reporting	Changes in national system ^f	18 April 2023		NIR chapter 10								
	Changes in national registry ^f	18 April 2023		NIR chapter 10	ter 10							
	Minimization of adverse impacts ^f	18 April 2023		NIR chapter 10								

^{*a*} Where applicable, the comments field indicates the location of the reported information in the NIR.

^b The requirement for Parties to include in their annual inventory submission information on anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, para. 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, para. 4, is set out in decision 2/CMP.8, annex II, paras. 1–5.

^c The requirement for Parties to report anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, para. 3, of the Kyoto Protocol, forest management and, if any, elected activities under Article 3, para. 4, is set out in decision 6/CMP.9. Parties may also elect to report these tables for the base year or 1990.

^d The requirement for Parties to include in their annual inventory submission information on AAUs, CERs, ICERs, tCERs, ERUs and RMUs is set out in decision 15/CMP.1, annex, chap. I.E, in conjunction with annex II to decision 3/CMP.11.

^e The requirement for Parties to report information on the holding of Kyoto Protocol units is set out in annex II to decision 3/CMP.11.

^{*f*} The requirements for Parties to report on changes in the national system in accordance with Article 5, para. 1, of the Kyoto Protocol, changes in the national registry and the minimization of adverse impacts in accordance with Article 3, para. 14, of the Kyoto Protocol are set out in decision 15/CMP.1, annex, chaps. I.F, I.G and I.H respectively, in conjunction with annex II to decision 3/CMP.11.

		Co	mpleten	ness of CRF tab		Part III he latest re	ported i	inventory	year (202	21)			
		Ener	·gy	IPPU	Agricu	ılture		LU	W	aste			
	Sectoral report tables	1	~	2(I)	~	3	~	4	~	4.1	~	5	~
		1.A(a)	~	2(I)A-H	~	3.A	~	4.A	~	4(I)	~	5.A	~
10		1.A(b)	~	2(II)	~	3.B(a)	~	4.B	~	4(II)	~	5.B	5.B 🗸
Sectoral tables	Sectoral background tables	1.A(c)	~	2(II)B-H	~	3.B(b)	~	4.C	~	4(III)	~	5.C	✓
Sectora		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	~						
and cross- tables ^a	Cross-sectoral report tables	Table 6 (Indirect	t emissi	ons of N2O ar	nd CO ₂)		~						
Summative and cross- cutting tables ^a	Other tables	Table 9 (Informa	ation on	notation keys	s – "NE'	")	~	Table (Inform		n 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 and table 10 emission trends) are not included here.

	Part IV Provision of selected information in the CRF tables														
Direct GHG totals ^a	Gas	CO ₂	CO ₂ CH		N ₂ O	HFCs			PFC	Ś	HF mi	C/PFC	SF ₆		NF ₃
Direct GH	Provided for years	1990– 2021	19 20	90– 21	1990– 2021	1990– 2021				1990– 2021		1990– 2021		1990– 2021	
CO_2^b	Sector	Energy		IPPU		Ag	Agriculture		LULUCF			Waste		Oth	ner
Indirect CO2 ^b	Provided for years	1990–2020				1990–2021 1		1990–2021				1990–2021			
Energy CO2 ^c	Comparison of estimated CO ₂ emissions from			Sectoral approach		Difference in estimate between reference and sectoral approach more than 2%								pproach	
Energ.	fuel combustion ^c				Lic	Liquid 🗸		Solid			✓	Gas	eous	~	
International bunkers	Bunker type	Aviation		Navigation											
Internc buni	Provided for years	1990–2021		1990–2021											
HFCs and PFCs ^{c, d}	Disaggregation by species	HFCs ✓		PFCs											
HFC. PFC				~											

^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.

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Part V Completeness of CRF tables for years reported (base year, 1990–2021)										
	Yes/no	Sector	Table	Year(s)	Notation keys used					
CRF submission contains blank tables ^a	No									
CRF submission includes tables containing only	Yes	Energy	Table1.C	1990–2021	NA, NO					
notation keys ^b		Agriculture	Table3.E	1990–2021	NO					
		Agriculture	Table3.F	1990–2021	NA, NO					
		LULUCF	Table4(I)	1990–2021	NO					
		Waste	Table5.C	1990–2021	IE, NE, NO					
		KP-LULUCF	NIR-2	1990, 2013–2021	IE, NA, NO					
		KP-LULUCF	NIR-2.1	1990, 2013–2021	NO					
		KP-LULUCF	NIR-3	1990, 2013–2021	NA					
		KP-LULUCF	4(KP)	1990, 2013–2021	IE, NA, NO					
		KP-LULUCF	4(KP-I)A.1	1990, 2013–2021	IE, NA, NO					
		KP-LULUCF	4(KP-I)A.1.1	1990, 2013–2021	NA, NO					
		KP-LULUCF	4(KP-I)A.2	1990, 2013–2021	IE, NA, NO					
		KP-LULUCF	4(KP-I)A.2.1	1990, 2013–2021	NA					
		KP-LULUCF	4(KP-I)B.1	1990, 2013–2021	IE, NA, NO					
		KP-LULUCF	4(KP-I)B.1.1	1990, 2013–2021	NA					
		KP-LULUCF	4(KP-I)B.1.2	1990, 2013–2021	NA					
		KP-LULUCF	4(KP-I)B.1.3	1990, 2013–2021	NA					
		KP-LULUCF	4(KP-I)B.2	1990, 2013–2021	NA					
		KP-LULUCF	4(KP-I)B.3	1990, 2013–2021	NA					
		KP-LULUCF	4(KP-I)B.4	1990, 2013–2021	NA					
		KP-LULUCF	4(KP-I)B.5	1990, 2013–2021	NA					
		KP-LULUCF	4(KP-I)C	1990, 2013–2021	IE, NA					
		KP-LULUCF	4(KP-II)1	1990, 2013–2021	NA, NO					
		KP-LULUCF	4(KP-II)2	1990, 2013–2021	IE, NA, NO					
		KP-LULUCF	4(KP-II)3	1990, 2013–2021	IE, NA, NO					
		KP-LULUCF	4(KP-II)4	1990, 2013–2021	IE, NA, NO					

 $^{\it a}~$ Excludes CRF table 8 for the latest reported inventory year.

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

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	Part VI Provision of information in the CRF tables relating to recalculations											
Recalculation(s) reported for year(s) ^{<i>a</i>}	1990–2020											
Recalculated sectors/gases ^b	Energy	IPPU	Agriculture	LULUCF	Waste	KP-LULUCF						
CO ₂	✓	✓		~								
CH ₄	✓	✓	~	~	✓							
N ₂ O	~	~	~	~	~							
HFCs		~										
PFCs												
HFC/PFC mix												
SF ₆		✓										
NF ₃												
Indirect CO ₂				·								
Percentage difference in estimated aggregate	Base year ^c	With LULUCF	0.00%	Without LULUCF	0.12%							
GHG emissions	Latest recalculated year ^d	With LULUCF	1.44%	Without LULUCF	0.47%							

 ^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.