Framework Convention on

Climate Change

FCCC/ASR/2022/ROU

Distr.: General 9 June 2022

English only

Status report of the annual inventory of Romania

- 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 Romania's 2022 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 decision 24/CP.19, Parties report aggregate emissions and removals in carbon dioxide equivalent using the global warming potential values from the Fourth 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 2022 inventory submission													
		Date submi	of origir ission	nal	Date(s	Date(s) of resubmission(s)			Comments ^a					
	NIR	14 A	14 April 2022		6 Mag	y 2022								
	CRF tables ^b	14 A	14 April 2022		6 May 2022				Latest inventory (assessed in this report): ROU_2022_5					
General information	Additional information ^c	14 A	14 April 2022		6 May 2022			- 1	Files submitted (14 April and 6 May 2022): - Annex 6.2.2 CSEUR.pdf - Annex 6.2.3 Changes in EUCR v11.5 to v13.5.2.xlsx					
Gene	CRF tables provided for years	1989	1989–2020											
	Base year or period ^d	1989		Base	year for HFCs, PFCs and S			SF_6^e	SF ₆ ^e 1989		Base year for NF ₃ ^f		2000	
	Gases covered ^g	CO ₂	CH ₄	N ₂ O	HFCs	PFCs	HFC/PFC mix	SF ₆	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 m	nissing	source	catego	ry acco	unting for 7	% or	· more has	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)	Comments ^a								
	KP-LULUCF information ^b	14 April 2022	6 May 2022	NIR chapter 11								
ation	KP-LULUCF CRF tables ^c	14 April 2022	6 May 2022	KP-LULUCF CRF tables provided for years	1989, 2013–2020							
ary inform	Information on Kyoto Protocol units (AAUs, CERs, ERUs and RMUs) ^d	14 April 2022	6 May 2022	NIR chapter 12								
Reporting of supplementary information	SEF tables with Kyoto Protocol units ^e	14 April 2022	6 May 2022	Reported year: 2021 - SEF tables for the first commitment period submitted on 14 April and 6 May 2022 - SEF tables for the second commitment period submitted on 14 April and 6 May 2022								
	Changes in national system ^f	14 April 2022	6 May 2022	NIR chapter 13								
	Changes in national registry ^f	14 April 2022	6 May 2022	NIR chapter 14								
	Minimization of adverse impacts ^f	14 April 2022	6 May 2022	NIR chapter 15								

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

^b Parties are required 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, in accordance with decision 2/CMP.8, annex II, paras. 1–5.

^c Parties are required 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. Parties may also elect to report these tables for the base year or 1990.

^d Parties are required to include in their annual inventory submission information on AAUs, CERs, ICERs, tCERs, ERUs and RMUs in accordance with decision 15/CMP.1, annex, chap. I.E, in conjunction with annex II to decision 3/CMP.11.

^e As required by 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.

	Part III Completeness of CRF tables for the latest reported inventory year (2020)												
		Enei	gy	IPPU	IPPU Agricu		ılture		LU	LUCF		Waste	
	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	✓
		1.A(b)	✓	2(II)	✓	3.B(a)	✓	4.B	✓	4(II)	√	5.B	✓
Sectoral tables	Sectoral background tables	1.A(c)	✓	2(II)B-H	✓	3.B(b)	✓	4.C	✓	4(III)	√	5.C	✓
Sectorc		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	Table 6 (Indirect emissions of N ₂ O and CO ₂)										
Summative and cross- cutting tables ^a	Other tables	Table 9 (Informa	ation on	notation keys	s – "NE'	")	√	Table 9		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 III (continued) Completeness of CRF tables related to KP-LULUCF ^a information for the latest reported inventory year (2020)										
		NIR-1	✓								
	ables	NIR-2	✓	-							
	Sectoral report tables	NIR-3	✓	-							
		4(KP)	✓	-							
Sectoral tables		4(KP) Recalculations									
Sector	es	4(KP-I)A.1	✓	4(KP-I)B.1	✓	4(KP-I)B.2	✓	4(KP-II)1	✓		
	ınd tabi	4(KP-I)A.1.1	✓	4(KP-I)B.1.1	✓	4(KP-I)B.3	✓	4(KP-II)2	✓		
	ackgroi	4(KP-I)A.2	✓	4(KP-I)B.1.2	✓	4(KP-I)B.4	✓	4(KP-II)3	✓		
	Sectoral background tables	4(KP-I)A.2.1	✓	4(KP-I)B.1.3	✓	4(KP-I)B.5	✓	4(KP-II)4	✓		
	Sec					4(KP-I)C	√	Accounting table	✓		

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

^a Parties are required to report 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, using the agreed CRF tables adopted under decision 6/CMP.9.

	Part IV Provision of selected information in the CRF tables																		
Direct GHG totals ^a	Gas	CO ₂	CH	I 4	N ₂ O		HFCs		PFC	PFCs		CC/PFC	SF ₆		NF ₃				
Direct GF	Provided for years	1989– 2020	198 208	89– 1989– 20 2020			1989- 2020	-	1989 2020	_		1989– 1 2020 2			1989– 2020				
t CO2	Sector	Energy		IPPU		Αg	ricultur	e	LUI	UCF		Waste		Oth	er				
Indirect CO_2	Provided for years			1989–2020		19	89–202	0				1989–2020							
Energy CO_2^b	Comparison of estimated CO ₂ emissions from	Reference approach		Sectoral approach			fference ore than		timate	betwee	en re	ference a	nd secto	oral ap	al approach				
Energ	fuel combustion ^b	√			Lie	Liquid 🗸		Solid		✓		Gas	eous	✓					
International bunkers	Bunker type	Aviation Naviga		Naviga	tion														
Interna bun	Provided for years	1989–2020		1989–2020															
HFCs and $PFCs^{b, c}$	Disaggregation by species	HFCs		PFCs															
HFC PFC		✓		✓															

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

	Compl	eteness of CRF tab	Part V	d (base year, 1990–2020) ^a								
	Yes/no	Sector	Table	Year(s)	Notation keys used							
CRF submission contains blank tables ^b	Yes	KP-LULUCF	NIR-2.1	1989								
brank tables		KP-LULUCF	4(KP-I)B.1.1	1989	-							
		KP-LULUCF	4(KP-I)B.1.2	1989	-							
CRF submission includes tables containing only	Yes	Energy	Table1.C	1989–2020	NO							
notation keys ^c		Agriculture	Table3.E	1989–2020	NO							
		LULUCF	Table4(I)	1989–2020	IE, NA, NE, NO							
		LULUCF	Table4(II)	1989–2020	NA, NO							
		LULUCF	Table4(IV)	1989–2020	IE							
		Waste	Table5.B	1989–2001	NA, NO							
		KP-LULUCF	NIR-1	1989	IE, NO							
		KP-LULUCF	NIR-2.1	2013–2020	NA							
		KP-LULUCF	4(KP-I)A.1	1989	NO							
		KP-LULUCF	4(KP-I)A.1.1	1989	NO							
			KP-LULUCF	4(KP-I)A.2	1989	NO						
		KP-LULUCF	4(KP-I)A.2.1	1989, 2013–2020	NO							
		KP-LULUCF	4(KP-I)B.1	1989	NO							
									KP-LULUCF	4(KP-I)B.1.3	1989	NO
		KP-LULUCF	4(KP-I)B.2	1989, 2013–2020	NA							
		KP-LULUCF	4(KP-I)B.3	1989, 2013–2020	NA							
		KP-LULUCF	4(KP-I)B.5	1989, 2013–2020	NA							
		KP-LULUCF	4(KP-II)1	1989, 2013–2020	IE, NA							
		KP-LULUCF	4(KP-II)2	1989, 2013–2020	NA, NO							
		KP-LULUCF	4(KP-II)3	1989	NA, NO							
		KP-LULUCF	4(KP-II)4	1989	NA, NO							

KP-LULUCF CRF tables are considered only for the years associated with the second commitment period of the Kyoto Protocol.
 Excludes CRF table 8 in the latest reported inventory year.
 Notation keys associated with methods and emission factor information are not considered.

	Part VI Provision of information in the CRF tables relating to recalculations									
Recalculation(s) reported for year(s) ^a	1989–2019									
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	1.21%	Without LULUCF	-0.11%					
GHG emissions	Latest recalculated year ^d	With LULUCF	4.80%	Without LULUCF	1.94%					

 ^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.

		Part VII Provision of information relating to KP-LULUCF act	ivities	
			Provided ^a	Observation
		ssions by sources and removals by sinks are clearly distinguished from emissions from categories uded in Annex A to the Kyoto Protocol	√	
	Guid	rmation on how inventory methodologies have been applied, taking into account the 2006 IPCC delines for National Greenhouse Gas Inventories and any relevant supplementary guidance recognizing principles laid out in decision 16/CMP.1	√	
1–5	Info	rmation on the geographical location of the boundaries of areas that encompass:		
raphs		Units of land subject to activities under Article 3, paragraph 3	✓	
II, parag		Units of land subject to activities under Article 3, paragraph 3, which would otherwise be included in land subject to forest management or elected activities under Article 3, paragraph 4	√	
аппех		Land subject to forest management or elected activities under Article 3, paragraph 4	✓	
//CMP.8,		rmation on the spatial assessment unit for determining the area of accounting for afforestation, restation and deforestation	√	
ler decision	loca	rmation on GHG emissions/removals resulting from KP-LULUCF activities, for all geographical tions reported in the current and previous years since the beginning of the commitment period or the onset activity, whichever occurs later	√	
ments unc		rmation on carbon pools (above-ground/below-ground biomass, litter, deadwood and soil organic carbon) are not accounted for	✓	
Reporting requirements under decision 2/CMP.8, annex II, paragraphs $I-$	in ar	en a Party applies the provisions for natural disturbances, information demonstrating that these emissions my single year exceed the background level(s), including a margin, where needed. For this purpose, the y shall include information showing:		
Repo		That all lands subject to exclusion due to natural disturbances are identified	√	In NIR chapters 11.4.4 and 11.5.2.4, the Party reported that no natural disturbances were recorded
		How annual emissions resulting from natural disturbances and the subsequent removals are estimated and excluded from the accounting	✓	In NIR chapters 11.4.4 and 11.5.2.4, the Party reported that no natural disturbances were recorded
		That no land-use change has occurred on lands for which the provisions in decision 2/CMP.7, annex, paragraph 33, are applied	✓	In NIR chapters 11.4.4 and 11.5.2.4, the Party reported that no natural disturbances were recorded

Part VII Provision of information relating to KP-LULUCF activities Observation Provided^a In NIR chapters 11.4.4 and 11.5.2.4, the Party reported that no That events and circumstances were beyond the control of the Party natural disturbances were recorded That the efforts taken to rehabilitate the land for which the provisions contained in decision 2/CMP.7, In NIR chapters 11.4.4 and 11.5.2.4, the Party reported that no annex, paragraph 33, are applied natural disturbances were recorded That emissions associated with salvage logging were not excluded from the accounting In NIR chapters 11.4.4 and 11.5.2.4, the Party reported that no natural disturbances were recorded If not accounted for by instantaneous oxidation, information on GHG emissions/removals resulting from changes in the HWP pool accounted for in accordance with decision 2/CMP.7, including: Activity data for the HWP categories used for estimating the pool removed from domestic forests, for domestic consumption and for export 1 Half-lives used in estimating emissions/removals for the HWP categories used Whether emissions from HWP originating from forests prior to the start of the second commitment period have been included in the accounting, if the forest management reference level is based on a projection How emissions from the HWP pool accounted for in the first commitment period on the basis of Information required by paragraph 2(g)(iv) of annex II to instantaneous oxidation have been excluded from the accounting for the second commitment period decision 2/CMP.8 could not be identified in the submission How HWP resulting from deforestation has been accounted on the basis of instantaneous oxidation How CO₂ emissions from HWP in solid waste disposal sites and from wood harvested for energy purposes have been accounted on the basis of instantaneous oxidation How emissions/removals from changes in the HWP pool accounted for do not include imported HWP Information required by paragraph 2(g)(vii) of annex II to decision 2/CMP.8 could not be identified in the submission Information on anthropogenic GHG emissions from KP-LULUCF activities, factoring out removals from: Elevated CO₂ concentrations above pre-industrial levels Indirect nitrogen deposition The dynamic effects of age structure resulting from activities prior to 1 January 1990

Part VII Provision of information relating to KP-LULUCF activities								
	Provided ^a	Observation						
Specific information to be reported for activities under Article 3, paragraph 3:								
Activities that began on or after 1 January 1990 and before 31 December of the last year of the commitment period, and are directly human-induced	√							
How harvesting or forest disturbance that is followed by the re-establishment of forest is distinguished from deforestation	√							
Specific information to be reported for activities under Article 3, paragraph 4:								
Activities that have occurred since 1 January 1990 and are human-induced	✓							
Cropland management, grazing land management, revegetation, wetland drainage and rewetting: emissions/removals reported for each year of the commitment period and for the base year for each of the elected activities at the geographical locations reported	✓							
Emissions/removals from activities under Article 3, paragraph 4, are not accounted for under activities under Article 3, paragraph 3	√							
Information on how emissions arising from the conversion of natural forests to planted forests are accounted for	√							
Methodological consistency between the reference level and reporting for forest management	✓							
Technical corrections made pursuant to decision 2/CMP.7, annex, paragraph 14	✓							
Forest management: if emissions/removals from the harvest and conversion of forest plantations to non-forest land were included, information on how requirements set out in decision 2/CMP.7, annex, paragraphs 37–39, were met, including:								
The identification of all lands and associated carbon pools subject to decision 2/CMP.7, annex, paragraph 37, including the georeferenced location and year of conversion	√	In NIR chapter 11.5.2.1, the Party reported that it does not apply the carbon equivalent forest conversion provision						
A demonstration that the forest plantation was first established through direct human-induced planting and/or seeding of non-forest land before 1 January 1990, and, if the forest plantation was reestablished, that this last occurred on forest land through direct human-induced planting and/or seeding after 1 January 1960	✓	In NIR chapter 11.5.2.1, the Party reported that it does not apply the carbon equivalent forest conversion provision						

Part VII Provision of information relating to KP-LULUCF activities									
		Provided ^a	Observation						
	A demonstration that a new forest of area at least equivalent to the harvested forest plantation is established through direct human-induced planting and/or seeding of non-forest land that did not contain forest on 31 December 1989		In NIR chapter 11.5.2.1, the Party reported that it does not apply the carbon equivalent forest conversion provision						
	A demonstration that this newly established forest will reach at least the equivalent carbon stock that was contained in the harvested forest plantation at the time of harvest, within the normal harvesting cycle of the harvested forest plantation, and, if not, that a debit would be generated under Article 3, paragraph 4		In NIR chapter 11.5.2.1, the Party reported that it does not apply the carbon equivalent forest conversion provision						

^a A tick is accompanied by an explanatory comment in the observation field where the provision of information is not applicable.
