

United Nations

Framework Convention on Climate Change

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Status report of the annual inventory of Hungary

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 Hungary'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



			Genera	al infor	mation		rt I ng 2022 inve	ntory	submissi	on					
		Date submi	of origin ission	nal	Date(s	Date(s) of resubmission(s)			Comments ^a						
	NIR	15 A	15 April 2022			27 May 2022									
	CRF tables ^b	15 April 2022			27 Ma	ay 2022	2	Lat HU	est inve N_2022	ntory (as 2_3	sessed ir	this report):			
General information	Additional information ^c CRF tables provided for years		pril 202 –2020	22				- A - A v13 - R - R - R	Files submitted (15 April and 27 May 2022): - Annex A - CSEUR.pdf - Annex B - Changes in EUCR v11.5 to v13.5.2.xlsx - RREG2_HU_2021_1.xlsx - RREG3_HU_2021_1.xlsx - RREG4_HU_2021_1.xlsx - RREG5_HU_2021_1.xlsx						
	Base year or period ^d	1985	-1987	Base	year fo	r HFCs	s, PFCs and	SF6 ^e	1995		Base y	ear for NF3 ^f	1995		
	Gases covered ^g	CO ₂	CH4	N ₂ O	HFCs	PFCs	HFC/PFC mix	SF ₆	NF3	NOx	СО	NMVOCs	SO ₂		
		~	~	✓	~	~	\checkmark	~	~	~	~	~	\checkmark		
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 1	more 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.

	General information regarding the subn	nission of supplemen	Part II tary information und	ler Article 7, paragraph 1, of the	e Kyoto Protocol
		Date of original submission	Date(s) of resubmission(s)	Comments ^a	
	KP-LULUCF information ^b	15 April 2022	27 May 2022	NIR chapter 11	
ation	KP-LULUCF CRF tables ^c	15 April 2022	27 May 2022	KP-LULUCF CRF tables provided for years	1985–1987, 2013– 2020
ary inform	Information on Kyoto Protocol units (AAUs, CERs, ERUs and RMUs) ^d	15 April 2022	27 May 2022	NIR chapter 12	
Reporting of supplementary information	SEF tables with Kyoto Protocol units ^e	15 April 2022		Reported year: 2021 - SEF tables for the first con submitted on 15 April 2022 - SEF tables for the second of submitted on 15 April 2022	Ĩ
	Changes in national system ^f	15 April 2022	27 May 2022	NIR chapter 13	
	Changes in national registry ^f	15 April 2022	27 May 2022	NIR chapter 14	
	Minimization of adverse impacts ^f	15 April 2022	27 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, 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.

		Co	mpleter	ness of CRF tab		Part III he latest re	ported i	inventory	year (20	20)			
		Ener	'SV	IPPU	T	Agrici	lture		LU	LUCF		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	~
24		1.A(b)	~	2(II)	~	3.B(a)	~	4.B	~	4(II)	~	5.B	~
Sectoral tables		1.A(c)	~	2(II)B-H	~	3.B(b)	~	4.C	~	4(III)	~	5.C	~
Sectorc	Sectoral	1.A(d)	~		•	3.C	~	4.D	~	4(IV)	~	5.D	~
	background tables	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 N ₂ O an	nd CO2)		~			-		- <u>-</u>	
Summative and cross- cutting tables ^a	Other tables	Table 9 (Informa	ation or	notation keys	s – "NE'	")	~	Table (Inform		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 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	\checkmark								
	ables	NIR-2	✓								
	report t	NIR-3	✓								
	Sectoral report tables	4(KP)	✓								
Sectoral tables	Sc	4(KP) Recalculations									
Sector	les	4(KP-I)A.1	✓	4(KP-I)B.1	✓	4(KP-I)B.2	~	4(KP-II)1	~		
	ınd tabl	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.

			Pr	ovision of	selected	Part infor		in the	CRF t	ables					
<i>IG totals</i> ^a	Gas	CO ₂ CH ₄		I4	4 N ₂ O		HFCs		PFCs		HF mi	FC/PFC x	SF ₆		NF3
Direct GHG totals ^a	Provided for years	1985– 2020	19 20	85— 20			1985– 2020	-	1985 2020			85— 20	1985– 2020		1985– 2020
t CO2	Sector	Energy		IPPU		Agriculture		LUI	LUCF		Waste	Ot		ner	
Indirect CO ₂	Provided for years													19	85–2020
Energy CO2 ^b	Comparison of estimated CO ₂ emissions from	Reference approach		Sectoral approach			fference ore than		timate	betwee	en re	ference a	nd secto	ral aj	pproach
Energ	fuel combustion ^b	✓ ✓		✓		Lie	quid			Solid		✓	Gas	eous	
International bunkers	Bunker type	Aviation		Naviga	tion					_			-		-
Interno bun	Provided for years	1985–2020		1985–2	2020										
Disaggregation H by species ل للادي من		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 A tick indicates that the information was provided.
^c Assessment based on information reported for the latest inventory year.

	Compl	leteness of CRF tab	Part V les for years reported	d (base year, 1990–2020) ^a														
	Yes/no	Sector	Table	Year(s)	Notation keys used													
CRF submission contains	Yes	KP-LULUCF	NIR-1	1985–1987														
blank tables ^b		KP-LULUCF	NIR-2	1985–1987														
		KP-LULUCF	NIR-2.1	1985–1987														
		KP-LULUCF	4(KP-I)A.1	1985–1987														
		KP-LULUCF	4(KP-I)A.1.1	1985–1987	_													
		KP-LULUCF	4(KP-I)A.2	1985–1987														
		KP-LULUCF	4(KP-I)A.2.1	1985–1987	-													
		KP-LULUCF	4(KP-I)B.1	1985–1987														
		KP-LULUCF	4(KP-I)B.1.1	1985–1987														
		KP-LULUCF	4(KP-I)B.1.2	1985–1987, 2013–2020														
		KP-LULUCF	4(KP-I)B.1.3	1985–1987	-													
		KP-LULUCF	4(KP-I)C	1985–1987	_													
CRF submission includes	Yes Energy		Table1.C	1985–1987, 1990–2020	NO													
tables containing only notation keys ^c		IPPU	Table2(II)B-Hs1	2006–2020	NA, NO													
															Agriculture	Table3.E	1985–1987, 1990–2020	NO
										LULUCF	Table4(I)	1985–1987, 1990–2020	IE, NA, NO					
													KP-LULUCF	NIR-2.1	2013–2020	NA		
		KP-LULUCF	4(KP)	1985–1987	NA													
		KP-LULUCF	4(KP-I)A.1.1	2013–2020	NA													
		KP-LULUCF	4(KP-I)A.2.1	2013–2020	NO													
		KP-LULUCF	4(KP-I)B.1.3	2013–2020	NA													
		KP-LULUCF	4(KP-I)B.2	1985–1987, 2013–2020	NA													
		KP-LULUCF	4(KP-I)B.3	1985–1987, 2013–2020	NA													
		KP-LULUCF	4(KP-I)B.4	1985–1987, 2013–2020	NA													
		KP-LULUCF	4(KP-I)B.5	1985–1987, 2013–2020	NA													
				KP-LULUCF	4(KP-II)1	1985–1987	NA											
		KP-LULUCF	4(KP-II)2	1985–1987, 2013–2020	NA, NO													
		KP-LULUCF	4(KP-II)3	1985–1987	NA													

Part V									
	Completeness of CRF tables for years reported (base year, $1990-2020$) ^{<i>a</i>}								
	Yes/no	Sector	Table	Year(s)	Notation keys used				
		KP-LULUCF	4(KP-II)4	1985–1987	NA				

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

	Provision of		Part VI e CRF tables rela	ting to recalculation	IS	
Recalculation(s) reported for year(s) ^{a}	1985–2019					
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						
NF3						
Indirect CO ₂						
Percentage difference in estimated aggregate	Base year ^c	With LULUCF	-0.39%	Without LULUCF	0.04%	
GHG emissions	Latest recalculated year ^d	With LULUCF	1.37%	Without LULUCF	0.23%	

^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 acti	ivities	
			Provided ^a	Observation
		issions by sources and removals by sinks are clearly distinguished from emissions from categories uded in Annex A to the Kyoto Protocol	~	
	Gui	prmation 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	ormation on the geographical location of the boundaries of areas that encompass:		
aphs.		Units of land subject to activities under Article 3, paragraph 3	✓	
II, paragı		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	~	
xəuur		Land subject to forest management or elected activities under Article 3, paragraph 4	✓	
/CMP.8, i		prmation on the spatial assessment unit for determining the area of accounting for afforestation, prestation and deforestation	~	
er decision 2	loca	ormation on GHG emissions/removals resulting from KP-LULUCF activities, for all geographical ations reported in the current and previous years since the beginning of the commitment period or the onset he activity, whichever occurs later	~	
nents und		ormation 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 1–5	in a	en a Party applies the provisions for natural disturbances, information demonstrating that these emissions ny single year exceed the background level(s), including a margin, where needed. For this purpose, the y shall include information showing:		
Repoi		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 it did not elect to apply the provisions for natural disturbances
		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 it did not elect to apply the provisions for natural disturbances
		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 it did not elect to apply the provisions for natural disturbances

10

	Part VII Provision of information relating to KP-LULUCF ac	ctivities	
		Provided ^a	Observation
	That events and circumstances were beyond the control of the Party	✓	In NIR chapters 11.4.4 and 11.5.2.4, the Party reported th did not elect to apply the provisions for natural disturbance
	That the efforts taken to rehabilitate the land for which the provisions contained in decision 2/CMP.7, annex, paragraph 33, are applied	~	In NIR chapters 11.4.4 and 11.5.2.4, the Party reported th did not elect to apply the provisions for natural disturbance
	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 th did not elect to apply the provisions for natural disturbance
	not accounted for by instantaneous oxidation, information on GHG emissions/removals resulting from anges 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	~	
	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 instantaneous oxidation have been excluded from the accounting for the second commitment period	~	
	How HWP resulting from deforestation has been accounted on the basis of instantaneous oxidation	~	
	How CO ₂ 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
Inf	ormation on anthropogenic GHG emissions from KP-LULUCF activities, factoring out removals from:		·
	Elevated CO ₂ 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 act	ivities	
	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	~	The Party has not elected cropland management, grazing land management, revegetation, or wetland drainage and rewetting
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 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 re- established, 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 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 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 provision						

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