

United Nations

Framework Convention on Climate Change

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Status report of the annual inventory of Estonia

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 Estonia's 2020 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 page 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 IPCC: Intergovernmental Panel on Climate Change 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 NF₃: nitrogen trifluoride NMVOC: non-methane volatile organic compound NO_X: nitrogen oxides N₂O: nitrous oxide 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 2020 inve	ntory	submissi	on			
		Date subm	of origin ission	al	Date o	of resubr	nission(s)	Coi	nments ^a				
	NIR	13 A	pril 202	20									
	CRF tables ^b	13 A	pril 202	20					test inve T_2020_		sessed ir	this report):	
General information	Additional information ^c	13 A	pril 202	20				- A - A	nnex A	- CSEUI	•	20): CR v8.0.10.2 t	0
Gene	CRF tables provided for years	1990	-2018		•								
	Base year or period ^d	1990		Base	year fo	or HFC:	s, PFCs and	SF6 ^e	1995		Base y	ear for NF₃ ^f	1995
	Gases covered ^g	CO_2	CH ₄	N ₂ O	HFCs	PFCs	HFC/PFC mix	SF ₆	NF ₃	NO _X	СО	NMVOCs	SO_2
		~	~	~	~	~	~	✓	~	~	~	~	~
CRF ^h tables	Source categories accounting for 7% or more of Party's aggregate emissions from sources included in Annex A to the Kyoto Protocol	No n	nissing	source	catego	ry acco	unting for 7	% or	more has	been id	entified		

^{*a*} The comment 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 the row for additional information) and any other information relevant to the submission.

^b The CRF tables are 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 a 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, in the latest year, for a given gas, a Party reports a numerical value or a notation key other than "NE", a tick is shown in the respective cell; if "NE", zero or no value is reported, the cell is left 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 unc	der Article 7, paragraph 1, of th	e Kyoto Protocol
		Date of original submission	Date of resubmission(s)	<i>Comments</i> ^a	
	KP-LULUCF information ^b	13 April 2020		NIR chapter 11	
formation	KP-LULUCF CRF tables ^c	13 April 2020		KP-LULUCF CRF tables provided for years	1990, 2013–2018
mentary in	Information on Kyoto units (AAUs, CERs, ERUs and RMUs) d	13 April 2020		NIR chapter 12	
Reporting of supplementary information	SEF tables with Kyoto Protocol units ^e	9 April 2020		Reported year: 2019 - SEF tables for second com submitted on 9 April 2020	mitment period
Repc	Changes in national system ^f	13 April 2020		NIR chapter 13	
	Changes in national registry ^f	13 April 2020		NIR chapter 14	
	Minimization of adverse impacts ^f	13 April 2020		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 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 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 their national systems in accordance with Article 5, para. 1, of the Kyoto Protocol, changes in national registries, 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	ess⁴ of CRF tal		Part III he latest re	ported	inventory	year (20	18)			
		Ener	rgy	IPPU	T	Agricı	ılture		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	~
5		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	~
Sectora	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 ^b	Cross-sectoral report tables	Table 6 (Indirect	t emissi	ons of N2O an	nd CO ₂)		~					·	
Summative and cross- cutting tables ^b	Other tables	Table 9 (Informa	ation on	notation keys	s – NE)		~	Table (Inform		n notation	keys –	IE)	~

^a A tick indicates that the respective table is not blank.
 ^b Tables that are automatically generated by the 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 ^a of CRF tables related to KP-LULUCF ^b information for the latest reported inventory year (2018)										
		NIR-1	~								
	tables	NIR-2	~								
	Sectoral report tables	NIR-3	~								
	Sectora	4(KP)	~								
Sectoral tables	-	4(KP) Recalculation									
Sectora	es	4(KP-I)A.1	~	4(KP-I)B.1	~	4(KP-I)B.2	✓	4(KP-II)1	~		
- 1	ınd tabl	4(KP-I)A.1.1	~	4(KP-I)B.1.1	~	4(KP-I)B.3	\checkmark	4(KP-II)2	~		
	ackgrou	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	~		

^{*a*} A tick indicates that the respective table is not blank.

^b 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		Part infor		in the	CRF t	ables					
IG totals ^a	Gas	CO ₂	CH ₄		N ₂ O		HFCs	's PFCs		2s	HF mi	C/PFC x	SF ₆		NF ₃
Direct GHG totals ^a	Provided for years	1990– 2018	19 20	90— 18	1990– 2018		1990- 2018	-	1990– 2018		1990– 2018		1990– 2018		1990– 2018
t CO2	Sector	Energy		IPPU		Ag	ricultu	re	LUI	LUCF		Waste		Ot	her
Indirect CO ₂	Provided for years			1990–2018		19	90–201	8	1990–2018					19	90–2018
Energy CO2 ^b	Comparison of CO ₂ emissions from fuel	Reference approach		Sectora approa		Di	fference	e betw	een re	eference	and	sectoral	approa	ch mo	re than 2%
Energ	combustion ^b	~		~		Liquid 🗸		~	Solid		1 🗸		Gase		~
International bunkers	Bunker type	Aviation		Naviga	tion										
Interno bun	Provided for years	1990–2018		1990–2	2018										
s and Scher	Disaggregation by species HFCs PFCs														
HFCs 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 is provided.
 ^c Assessment based on information reported for the latest inventory year.

	Comp	leteness of CRF tal	Part V bles for years reported (bas	se year, 1990–2018) ^a	
	Yes/no	Sector	Table	Year(s)	Notation keys used
CRF submission contains	Yes	IPPU	Table 2(II)B-Hs1	1990–2018	
blank tables ^b		KP-LULUCF	4(KP-I)B.1.2	1990, 2013–2018	
CRF submission includes	Yes	Energy	Table 1.B.1	1990–2018	NO
tables containing only notation keys ^c		Energy	Table 1.C	1990–2018	NO
		IPPU	Table 2(II)	1990	NO
		IPPU	Table 2(II)B-Hs2	1990	NO
		Agriculture	Table 3.C	1990–2018	NO
		Agriculture	Table 3.E	1990–2018	NO
		Agriculture	Table 3.F	1990–2018	NA, NO
		LULUCF	Table 4(I)	1990–2018	NA, NO
		KP-LULUCF	NIR-1	1990	NA
		KP-LULUCF	NIR-2	1990	NA
		KP-LULUCF	NIR-3	1990	NA
		KP-LULUCF	4(KP)	1990	NA, NO
		KP-LULUCF	4(KP)Recalculations	1990	NA, NO
		KP-LULUCF	4(KP-I)A.1	1990	NA
		KP-LULUCF	4(KP-I)A.1.1	1990, 2013–2018	NA
		KP-LULUCF	4(KP-I)A.2	1990	NA
		KP-LULUCF	4(KP-I)A.2.1	1990, 2013–2018	NA
		KP-LULUCF	4(KP-I)B.1	1990	NA
		KP-LULUCF	4(KP-I)B.1.1	1990	NA
		KP-LULUCF	4(KP-I)B.1.3	1990	NA
		KP-LULUCF	4(KP-I)B.2	1990, 2013–2018	NA
		KP-LULUCF	4(KP-I)B.3	1990, 2013–2018	NA
		KP-LULUCF	4(KP-I)B.4	1990, 2013–2018	NA
		KP-LULUCF	4(KP-I)B.5	1990, 2013–2018	NA
		KP-LULUCF	4(KP-II)1	1990, 2013–2018	NA
		KP-LULUCF	4(KP-II)2	1990	NA

Part V Completeness of CRF tables for years reported (base year, 1990–2018) ^a								
Yes/no	Sector	Table	Year(s)	Notation keys used				
	KP-LULUCF	4(KP-II)3	1990, 2013–2018	NA				
	KP-LULUCF	4(KP-II)4	1990	NA, NO				

^a KP-LULUCF tables are only considered for the years associated with the second commitment period of the Kyoto Protocol.

^b Excludes 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 relat	ting to recalculation	IS	
Recalculation reported for years ^a	1990–2017					
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 aggregate GHG	Base-year estimate ^c	With LULUCF:	-0.75%	Without LULUCF:	-0.38%	
emissions	Latest recalculated year ^d	With LULUCF:	0.01%	Without LULUCF:	0.21%	

^{*a*} Years in which recalculations were performed.

^b Tick indicates that, for the respective sector and gas, recalculations were performed in 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 a 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 The latest recalculated year is the latest reported inventory year minus one.

		Part VII		
		Provision of information relating to KP-LULUCF acti	vities	
			$Provided^a$	Observation
		issions by sources and removals by sinks are clearly distinguished from emissions from categories uded in Annex A to the Kyoto Protocol	~	
	Gui	ormation on how inventory methodologies have been applied, taking into account the 2006 IPCC idelines 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:		
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	✓	
annex		Land subject to forest management or elected activities under Article 3, paragraph 4	~	
2/CMP.8,		brmation on the spatial assessment unit for determining the area of accounting for afforestation, brestation and deforestation	✓	
ler decision	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	~	
ments 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 ty shall include information showing:		
Repo		That all lands subject to exclusion due to natural disturbances are identified	~	In NIR chapter 11.5.2.4 the Party reported that it will not apply the provisions for natural disturbances for 2013–2018
		How annual emissions resulting from natural disturbances and the subsequent removals are estimated and excluded from the accounting	✓	In NIR chapter 11.5.2.4 the Party reported that it will not apply the provisions for natural disturbances for 2013–2018
		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 chapter 11.5.2.4 the Party reported that it will not apply the provisions for natural disturbances for 2013–2018

	Provision of information relating to KP-LULUCF ac	tivities	
		$Provided^a$	Observation
	That events and circumstances were beyond the control of the Party	~	In NIR chapter 11.5.2.4 the Party reported that it will n apply the provisions for natural disturbances for 2013–2
	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 chapter 11.5.2.4 the Party reported that it will m apply the provisions for natural disturbances for 2013–2
	That emissions associated with salvage logging were not excluded from the accounting	~	In NIR chapter 11.5.2.4 the Party reported that it will no apply the provisions for natural disturbances for 2013–2
	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	~	
Inf	ormation on anthropogenic GHG emissions from KP-LULUCF activities, factoring out removals from:		1
	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	✓	

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	Part VII Provision of information relating to KB I ULUCE of		
	Provision of information relating to KP-LULUCF act	Provided ^a	Observation
	Activities that began on or after 1 January 1990 and before 31 December of the last year of the ommitment period and are directly human-induced	✓ ✓	
	How harvesting or forest disturbance that is followed by the re-establishment of forest is distinguished form deforestation	~	
Specif	ic information to be reported for activities under Article 3, paragraph 4:		
A	Activities that have occurred since 1 January 1990 and are human-induced	✓	
e	Cropland management, grazing land management, revegetation, wetland drainage and rewetting: missions/removals reported for each year of the commitment period and for the base year for each of he elected activities at the geographical locations reported	~	Estonia does not elect 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	~	
	nformation on how emissions arising from the conversion of natural forests to planted forests are ccounted for	~	
N	Aethodological consistency between the reference level and reporting for forest management	~	
Т	Sechnical corrections made pursuant to decision 2/CMP.7, annex, paragraph 14	~	
f	Forest management: if emissions/removals from the harvest and conversion of forest plantations to non- torest land were included, information on how requirements set out in decision 2/CMP.7, annex, paragraphs 37–39, were met, including:		L
	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	~	
	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	~	
	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	✓	

Part VII Provision of information relating to KP-LULUCF activities			
		Provided ^a	Observation
	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	~	

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