

Annual status report of the greenhouse gas inventory of Finland

1. This status report was prepared by the expert review team in accordance with decision 22/CMP.1 as part of the initial check of the greenhouse gas inventory submitted. It reflects the content of the inventory of 2008 as submitted by the Party.

2. In this report, the following abbreviations are used:

CRF: common reporting formatLULUCF: land use, land-use change and forestryKP-LULUCF CRF: tables for reporting activities under Article 3, paragraphs 3 and 4, of the Kyoto ProtocolNIR: national inventory reportSBDT: sectoral background data tables

Notation keys C: confidential IE: included elsewhere NA: not applicable NE: not estimated NO: not occurring Greenhouse gases CO₂: carbon dioxide CH₄: methane N₂O: nitrous oxide HFCs: hydrofluorocarbons PFCs: perfluorocarbons SF₆: sulphur hexafluoride NOx: nitrogen oxides CO: carbon monoxide NMVOCs: non-methane volatile organic compounds SO₂: sulphur dioxide

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					INTRO	DUC	TIO	N							
			Date of r	eceipt			Date	of resubr	nission	Comments					
		CRF ^a	11 April 2	2008											
		NIR	11 April 2	2008											
tion (TION	Additional information ^b													
	orma	KP-LULUCF CRF ^c													
al info		KP-LULUCF information ^d													
	General Information	CRF provided for years	CRF	1990–20	06		KP-I	LULUCF							
	-	Base year or period	1990				Base	year for H	IFCs, PF	Cs and SF6		1995			
		Gases covered	CO ₂	CH_4	N ₂ O	HI	FCs PFCs SF ₆			NOx	СО	CO NMVOCs SO			
			✓	~	✓	``	/	✓	✓	~	~	✓	✓		
National	report	Description	reporting and "CO ₂ national e	guidelines reference nergy bala	decision approach ance" are r	18/C and o tot pr	CP.8). comp covide	However arison with ed. Finland	, the reconstruction the sectorated stated,	ommended a l approach,	annexes c and relev use to the	revised UNFC on "Key catego ant informatio draft status ro ne NIR.	ories" on on the		
		Language of NIR	English												
Common	format	Missing source category larger than 7 per cent for Annex A sources	No missir	ng source o	category la	ırger	than	7 per cent	has been	identified.					

^a CRF refers to the common reporting format tables included in document FCCC/SBSTA/2006/9.

^b Additional information can be any information submitted by a Party in conjunction with the national inventory report (NIR) or CRF tables.
 ^c Parties to the Kyoto Protocol are required to report anthropogenic greenhouse gas emissions by sources and removals by sinks from land use, land-use change and forestry activities under Article 3, paragraph 3, and, if any, elected activities under Article 3, paragraph 4, using the agreed common reporting format tables (decision 6/CMP.3). The reporting of KP-LULUCF CRF tables is voluntary until the 2010 submission.

^d Parties to the Kyoto Protocol are required to include in their annual greenhouse gas inventories information on anthropogenic greenhouse gas emissions by sources and removals by sinks from land use, land-use change and forestry activities under Article 3, paragraph 3, and, if any, elected activities under Article 3, paragraph 4, in accordance with paragraphs 5–9 in the annex to decision 15/CMP.1. The reporting of this information is voluntary until the 2010 submission.

^e A Party can choose 1990 or 1995 as its base year for the fluorinated gases in accordance with Article 3, paragraph 8, of the Kyoto Protocol.

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		Provision of	of informa	ation f	or the late	PART I est reporte	d inv	ento	ory year	in the C	CRF: 20)06			
		Energy	Industr proces		Solvent u	ise Agr	cultu	re	use cha	se, land- inge and estry		use, land- ge and fore (KP) ^a		Wa	ste
	Sectoral report	1 🗸	2(I)	\checkmark	3	✓	4	/	5	\checkmark	5(K	(P).		6	✓
	tables		2(II)	\checkmark			•					·			
	Sectoral background	1.A(a) 🗸	2(I).A-G	\checkmark	3.A-D	✓ 4	۰ I	/	5.A	. ✓	5(KP-I)A.1.1		6.A	✓
	data tables	1.A(b) 🗸	2(II).C	\checkmark		4.B(a) ,	/	5.B	✓	5(KP-l)A.1.2		6.B	✓
		1.A(c) 🗸	2(II).E	\checkmark	4	4.B(t) ,	/	5.C	 ✓ 	5(KP-l)A.1.3		6.C	✓
		1.A(d) 🗸	2(II).F	\checkmark		4.0	· •	/	5.D	√	5(KP-	-I)A.2			
		1.B.1 ✓				4.1) ,	/	5.E	✓	5(KP-I)A.2.1			
		1.B.2 ✓				4.	E	/	5.F	✓	5(KP-	-I)B.1			
		1.C 🗸				4.	F١	/	5 (I)	✓	5(KP-	-I)B.2			
ø		Bunkers separat	tely 🗸						5 (II)	✓	5(KP-	-I)B.3			
Tables									5 (III)	✓	5(KP-	-I)B.4			
Т									5 (IV)	✓	5(KF	P-II)1			
									5 (V)	✓	5(KF	P-II)2			
											5(KF	P-II)3			
											5(KF	P-II)4			
											5(KF	P-II)5			
											Accou				
	Summary tables										tał	ble			
	(emission totals)	Summary 1.A		√	Summary	1.B			✓	Summar	y 2				✓
	Other tables	Summary 3		\checkmark	Table 7 (I	Key catego	ries)		 ✓ 	Table 9(a) (Com	pleteness))		✓
		Table 10 (Trend	s)	\checkmark						Table 9(b) (Com	pleteness))		
	Comments														
lls	Provided for gases	CO₂ ✓	0	CH₄ ✓	/	N₂O ✓			HFCs	✓	PFC	Cs ✓		SF ₆ ✓	1
Totals	Provided for years	1990–2006	19	90–20	06	1990–200	6		1990–20)06	1990)–2006	1	990–20	06
~	Comparison of	Reference ap	proach		Sectoral	approach			Differen		than	If diffe			than
CO2	CO ₂ from fuel combustion	√	sprouen			✓			2 p	ber cent		Explanat	2 per ion pro		
SF_6	Disaggregation b	by species			H	FCs	-		I	PFCs		r	SF		
3s, S						 ✓ 				✓					
PFC		ual and/or potent			Actual	Potent	al		Actual	Pote	ential	Actua	1	Poter	ntial
HFCs, PFCs,	emission estimat halocarbons and	tes in the consum SF ₆	ption of		✓	✓			✓		 Image: A state of the state of	✓		✓	
	Used in	Summary table	1.A		✓ Sec	toral repor	tahle	es		✓ S	ectoral b	backgroun	d data	tables	\checkmark
Notation keys	Comments														
				-											

^a The reporting of KP-LULUCF CRF tables is voluntary until the 2010 submission.

	PART II Provision of CRF tables for years reported																					
											Ye	ars										
			Base year ^a	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	Information gaps relating to reporting ^b	Comments
	S	ectoral report: Table 1		\checkmark	~	\checkmark	\checkmark	\checkmark	✓	\checkmark	\checkmark											
		Table 1.A(a)		~	✓	\checkmark	✓	✓	✓	✓	\checkmark	✓	✓	✓	\checkmark	✓	✓	~	✓	\checkmark		
		Table 1.A(b)		\checkmark	\checkmark	\checkmark	✓	\checkmark														
ç.		Table 1.A(c)		\checkmark																		
Energy	SRDT	Table 1.A(d)		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	✓	\checkmark												
E	J	Table 1.B.1		~	~	~	~	~	~	~	~	~	~	~	~	~	✓	~	~	~		No data are reported in this table, but notation key NO is used.
		Table 1.B.2		\checkmark	~	\checkmark	\checkmark															
		Table 1.C		~	✓	✓	✓	\checkmark	~	✓	\checkmark	✓	✓	\checkmark	\checkmark	✓	✓	>	✓	✓		
	Т	Table 2(I)	i 1	\checkmark	\checkmark	\checkmark	✓	\checkmark	✓	\checkmark	\checkmark	\checkmark	✓	✓	\checkmark	\checkmark	√	\checkmark	\checkmark	✓		1
	S	ectoral reports: Table 2(I)		▼ √	• ✓	▼ √	▼ ✓	▼ ✓	▼ ✓	▼ √	• √	▼ ✓	▼ ✓	▼ ✓	▼ √	▼ ✓	▼ ✓	• √	•	▼ ✓		
sses	-	Table 2(I).A–G		• •	· •	•	√	· ~	· ~	· •	· •	· ~	· ~	· ~	· •	· •	· •	• •	· ~	· ~		
Industrial processes	CBDT			~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		No data are reported in this table, but for years 1990–1993 notation key NO is used and for years 1994– 2006 notation keys NO, C are used.
Indi		Table 2(II).E		✓	~	~	~	~	~	~	~	~	~	~	~	~	~	~	✓	~		No data are reported in this table, but notation keys NO, NA are used.
		Table 2(II).F		✓	✓	\checkmark	✓	✓	✓	\checkmark	\checkmark	✓	✓	✓	\checkmark	\checkmark	\checkmark	~	✓	✓		
e.	S	ectoral report: Table 3		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Solvent use	SBDT	Table 3.A–D		~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		

	PART II Provision of CRF tables for years reported (continued)																					
											Ye	ars										
_			Base year ^a	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	Information gaps relating to reporting ^b	Comments
	Se	ctoral report: Table 4		\checkmark	\checkmark	✓	✓	✓	✓	✓	\checkmark	✓	✓	\checkmark	\checkmark	✓	✓	✓	✓	~		
		Table 4.A		~	\checkmark	~	✓	~	~	✓	\checkmark	~	~	✓	\checkmark	~	\checkmark	\checkmark	✓	~		
		Table 4.B(a)		>	✓	\checkmark	~	\checkmark	✓	✓	\checkmark	\checkmark	\checkmark	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	~		
ıre		Table 4.B(b)		\checkmark	\checkmark	\checkmark	✓	\checkmark	✓	\checkmark												
Agriculture	SBDT	Table 4.C		~	~	~	~	~	~	~	~	~	✓	~	~	✓	~	✓	~	✓		No data are reported in this table, but notation keys NO, NA are used.
Agı	SE	Table 4.D		\checkmark																		
		Table 4.E		\checkmark	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	>		No data are reported in this table, but notation keys NO, NA are used.
		Table 4.F		~	~	✓	✓	✓	✓	✓	~	✓	~	✓	✓	~	✓	~	✓	>		No data are reported in this table, but notation keys NE, NO, NA are used.
	5	ctoral report: Table 5		\checkmark	✓	\checkmark	\checkmark	✓	✓	✓	√	✓	\checkmark	\checkmark	\checkmark	✓	\checkmark	✓	✓	\checkmark		
	36	Table 5.A		• •	· ✓	• •	•	• •	• •	• ✓	✓	• •	• •	• •	•	• •	•	• ✓	• •	• •		
stry		Table 5.B		· •	· •	· ✓	· ✓	· •	· ✓	· •	· ✓	· ✓	· •	· ✓								
ores		Table 5.C		✓	· ✓	· ✓	✓	· ✓	· ✓	· •	· •	· ✓	· ✓	· ✓	· ✓	· ✓	· ✓	✓	· ✓	✓		
nd f		Table 5.D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\checkmark	✓	✓		
ge a		Table 5.E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\checkmark	\checkmark	✓	\checkmark	\checkmark	✓	\checkmark		
ang		Table 5.F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ie cł	SBDT	Table 5 (I)		✓	\checkmark	✓	\checkmark	\checkmark	✓	\checkmark												
sn-p	SB	Table 5 (II)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\checkmark		
Land use, land-use change and forestry		Table 5 (III)		~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		No data are reported in this table, but for years 1990, 1992–2006 notation key NE is used and for year 1991 notation keys NE, IE are used.
		Table 5 (IV)		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	✓	\checkmark											
		Table 5 (V)		>	~	~	✓	~	~	✓	\checkmark	~	✓	✓	✓	~	✓	✓	✓	~		

PART II Provision of CRF tables for years reported (continued)																						
	Years																					
		Base year ^a	0661	1991	1992	1993	1994	1995	1996	1997	1998	6661	2000	2001	2002	2003	2004	2005	2006	Information gaps relating to reporting ^b	Comments	
Se	ectoral report: Table 5 (KP)																					
	Table 5(KP-I)A.1.1																					
SRDT	Table 5(KP-I)A.1.2																					
<u>.</u>	Table 5(KP-I)A.1.3																					
	Table 5(KP-I)A.2																					I
	Table 5(KP-I)A.2.1																					ľ
	Table 5(KP-I)B.1																					T
5	Table 5(KP-I)B.2																					1
SBDT	Table 5(KP-I)B.3																					1
SB	Table 5(KP-I)B.4																					1
	Table 5(KP-II)1																					1
	Table 5(KP-II)2																					1
	Table 5(KP-II)3																					ł
	Table 5(KP-II)4																					1
	Table 5(KP-II)5				-	1																1
	Accounting table																					1

	PART II Provision of CRF tables for years reported (continued)																					
					n	n	ī	ī		ī	Ye	ars			T	T		ī	I			
			Base year ^a	1990	1661	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	Information gaps relating to reporting ^b	Comments
	Se	ctoral report: Table 6		\checkmark	✓	~	✓	✓	✓	✓	✓	✓	✓	~	✓	✓	~	✓	✓	✓		
Waste	F	Table 6.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~	✓	✓	~	✓	✓	✓		
Wa	SBDT	Table 6.B		\checkmark	\checkmark	\checkmark	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	✓	\checkmark		
	S	Table 6.C		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	✓	✓	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	✓	✓	\checkmark		
_	r			/																		
		Summary 1.A		<u>√</u>	✓ ✓	 ✓ 	 ✓ 	✓ ✓	 ✓ 	✓ ✓	✓ ✓	✓ ✓	 ✓ 	✓ ✓	 ✓ 	√	√	✓ ✓	 ✓ 	 ✓ 		
		Summary 1.B		\checkmark	\checkmark	✓	\checkmark	✓	✓	✓	✓	\checkmark	✓	\checkmark	✓	✓	\checkmark	✓	✓	✓		
		Summary 2 (CO ₂ equivalent emissions)		\checkmark	\checkmark	\checkmark	✓	✓	\checkmark	✓	✓	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	✓	\checkmark	\checkmark		
Summary and other tables	SBDT	Summary 3 (Methods/emission factors)		✓	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	In its response to the draft status report, Finland stated that the reporting gaps in this table are due the CRF Reporter software.
ry a	S	Table 7 (Key categories)		\checkmark														\checkmark	\checkmark	\checkmark		
mmaı		Table 8(a) (Recalculation – recalculated data)		\checkmark	~	~	~	~	~	~	~	~	~	>	✓	✓	~	~	~			
Su		Table 8(b) (Recalculation – explanatory information)		✓	~	~	~	~	✓	~	~	~	✓	~	✓	✓	~	~	~		~	
		Table 9(a) (Completeness)		\checkmark	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 9(b) (Completeness)																				
		Table 10 (Trends)		~	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

^a This column indicates that the Party uses a base year other than 1990 in accordance with decisions 9/CP.2 and 11/CP.4, and does not reflect the choice of a base year for the fluorinated gases.

^b This column indicates that reporting gaps (blank cells) have been identified in a given table of the CRF, owing to limited use, or lack of, notation keys (NO, NE, NA, IE, C).

^c Parties to the Kyoto Protocol are required to report anthropogenic greenhouse gas emissions by sources and removals by sinks from land use, land-use change and forestry activities under Article 3, paragraph 3, and, if any, elected activities under Article 3, paragraph 4, using the agreed common reporting format tables (decision 6/CMP.3). The reporting of KP-LULUCF CRF tables is voluntary until the 2010 submission.

	PART III Provision of information relating to recalculations													
Table 8(a) (Recalculated data)	\checkmark	Comments												
Recalculation for years	1990–2005													
Recalculated sectors/gases	Energy	Industrial processes	Solvent use	Agriculture	Land use, land-use change and forestry	Waste								
CO ₂	✓	✓			✓	\checkmark								
CH ₄	✓	✓		\checkmark	✓	√								
N ₂ O	✓	✓		\checkmark	✓	√								
HFCs														
PFCs														
SF ₆														
Table 8(b) (Explanatory information)	~	✓		✓	✓	~								
Full CRF for the recalculated base year	\checkmark	Percentage difference in a	ggregate greenhouse gas bas	e year estimate	with LULUCF without LULUCF	5.83 % -0.08 %								