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English only

Annual status report of the annual inventory of Finland

1. This status report was prepared by the expert review team as part of the initial check of the annual inventory submitted in accordance with decision 15/CMP.1. It reflects the content of the inventory submission of 2013 as originally submitted by the Party.

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

AAU: assigned amount unit

CER: certified emission reduction CRF: common reporting format ERU: emission reduction unit

GHG: greenhouse gas

KP-LULUCF: Article 3, paragraphs 3 and 4, activities under the Kyoto Protocol

ICER: long-term certified emission

reduction

LULUCF: land use, land-use change and

forestry

NIR: national inventory report

RMU: removal unit

SBDT: sectoral background data tables SEF: standard electronic format SOPU: solvent and other product use tCER: temporary certified emission

reduction

Notation keys
C: confidential

IE: included elsewhere NA: not applicable NE: not estimated

NO: not occurring

Gases

CO₂: carbon dioxide CH₄: methane

N₂O: nitrous oxide

HFCs: hydrofluorocarbons PFCs: perfluorocarbons SF₆: sulphur hexafluoride NO_X: nitrogen oxides CO: carbon monoxide

NMVOCs: non-methane volatile organic

compounds

SO₂: sulphur dioxide



			GREENH	OUSE GAS	S INVENT	ORY SUBMISS	ION				
		Date of r	eceipt	Date of res	ubmission	Comments					
	NIR	15 Apr	il 2013								
	CRF tables ^a	15 Apr	il 2013								
	Additional information ^b	15 Apr	il 2013			The Party sul information f					
						20130312- 091840_CR2	012_I	Disaster	_Reco	very_v1.1.doc	pdf.
						20130312- 093242_CR2	012_0	Operatio	onal_Pl	an_v1.1.doc.p	odf
						20130312-09 v1.1.doc.pdf	4526_	_CR201	2_Secu	ırity_Plan_	
						20130312-09 v1.1.doc.pdf	4930_	_CR201	2_Tim	e_Validation_	_Plan
General information						20130312- 090423_CR2 v1.1.doc.pdf	012_	Applica	tion_Lo	ogging_Plan	
ıd info						UA-KCA_FI	N-201	13-2011	-v1.4.x	alsx	
Genera						20130312-09 ProcedureV1			2_Cha	nge Managem	nent
						20130312- 092009_CR2	012_1	Manual _.	_Interv	entionv1.1.do	c.pdf
						20130312- 094325_CR2 doc.pdf	012_I	Roles_A	And_Re	sponsibilities	_V1.1.
						20130312- 100525_CR2 1.doc.pdf and		Version	_Chang	ge_Manageme	ent_v1.
						UA-KCA_K	P-FIN	-2013-2	2011-v	.4.xlsx	
	CRF provided for years	1990–2	:011								
	Base year or period ^c	1990	Base y	ear for HI	FCs, PFC	s and $\mathrm{SF_6}^d$	1995				
	Gases covered	CO ₂	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	NO_X	СО	NMVOCs	SO_2
		✓	✓	✓	√	√	√	√	√	✓	✓
NIR	Description	UNFCO provision	CC repor	ting guide ecision 14	elines ^e on /CP.11, e	neral, follows annual inventaborated with xes does not f	tories 1 an ai	followi nnotate	ng inco	orporation of the of the NIR.	
	Language of NIR	English	1								
CRF^f	Missing source category cent for categories includ to the Kyoto Protocol			No miss	sing sour	ce category la	rger th	nan 7 pe	er cent l	nas been ident	rified.

- ^a CRF tables are contained in document FCCC/SBSTA/2006/9, annex II.
- ^b Additional information can be any information submitted by a Party in conjunction with the NIR or CRF tables.
- ^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, paragraph 6, of the Convention and decisions 9/CP.2 and 11/CP.4.
- ^d A Party may select 1990 or 1995 as the base year for the fluorinated gases in accordance with Article 3, paragraph 8, of the Kyoto Protocol.
- ^e "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part I: UNFCCC reporting guidelines on annual inventories" (FCCC/SBSTA/2006/9).
- ^f A Party has not reported an estimate for an Annex A category that accounted for 7 per cent or more of the Party's aggregate emissions (decision 15/CMP.1, para. 3(b)).

	SUBMISSION OF S	UPPLEMENTARY	INFORMATION UNI	DER ARTICLE 7.1
		Date of receipt	Date of resubmission	Comments
ation	KP-LULUCF information ^a	15 April 2013		NIR page 420, chapter 11
information	KP-LULUCF CRF ^b	15 April 2013		CRF provided for years: 2008–2011
supplementary	Information on Kyoto units (ERUs, CERs, RMUs and AAUs) ^c	15 April 2013		NIR page 444, chapter 12
olddns.	SEF ^d with Kyoto units	15 April 2013		
ting of	Change in national system ^e	15 April 2013		NIR page 446, chapter 13
Reporting	Change in national registry ^e	15 April 2013		NIR page 447, chapter 14
	Minimization of adverse impacts ^e	15 April 2013		NIR page 451, chapter 15

^a 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, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, in accordance with the annex to decision 15/CMP.1, paragraphs 5–9.

^b Parties are required to report anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, using the agreed CRF tables adopted under decision 6/CMP.3. Parties may also elect to report these tables for the base year or 1990.

^c Parties are required to include in their annual submission information on ERUs, CERs, tCERs, ICERs, AAUs and RMUs, in accordance with the annex to decision 15/CMP.1, section I.E.

^d SEF for reporting Kyoto units, as adopted under decision 14/CMP.1 and required by the annex to decision 15/CMP.1, paragraph

<sup>11.

&</sup>lt;sup>e</sup> The requirements for Parties to report on changes in national systems in accordance with Article 5, paragraph 1, changes in national registries, and the minimization of adverse impacts in accordance with Article 3, paragraph 14, are set out in sections I.F, I.G and I.H, respectively, of the annex to decision 15/CMP.1.

	Provisio	n of info	mation for	the lates		PAR'		ar in t	he commo	on rep	orting format: 2011			
	Energy		Industrial pi	rocesses	SOPU		Agricult	ure	LULUC	F	KP-LULUCF ^a		Waste	?
Sectoral report	1	√	2(I)	✓	3	✓	4	✓	5	✓	5(KP)	✓	6	✓
tables			2(II)	✓						•				•
Sectoral	1.A(a)	√	2(I).A–G	√	3.A-D	✓	4.A	✓	5.A	√	5(KP-I)A.1.1	✓	6.A	✓
background data tables	1.A(b)	√	2(II).C	√		•	4.B(a)	✓	5.B	√	5(KP-I)A.1.2	✓	6.B	✓
	1.A(c)	√	2(II).E	✓			4.B(b)	✓	5.C	√	5(KP-I)A.1.3	✓	6.C	✓
	1.A(d)	√	2(II).F	✓			4.C	✓	5.D	√	5(KP-I)A.2	✓		•
	1.B.1	✓			_		4.D	✓	5.E	√	5(KP-I)A.2.1.	✓		
	1.B.2	√					4.E	✓	5.F	√	5(KP-I)B.1.	✓		
	1.C	✓					4.F	✓	5 (I)	√	5(KP-I)B.2.	✓		
sə	Bunker	s separate	ly 🗸						5 (II)	√	5(KP-I)B.3.	✓		
Tables			1						5 (III)	√	5(KP-I)B.4.	✓		
									5 (IV)	√	5(KP-II)1	✓		
									5 (V)	✓	5(KP-II)2	✓		
										ı	5(KP-II)3	✓		
											5(KP-II)4	✓		
											5(KP-II)5	✓		
											Accounting table	✓		
Summary table	s Summa	ry 1.A	✓	Summ	ary 1.B		✓			Sum	mary 2			/
Other tables	Summa	ry 3	✓	Table '	7 (Key cate	egorie	es) 🗸			Tabl	e 9(a) (Completeness))	,	/
	Table 1	0 (Trends) 🗸							Tabl	e 9(b) (Completeness)		
Comments				<u> </u>										

^a Parties are required to report anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, using the agreed CRF tables adopted under decision 6/CMP.3.

					PAR	RTI						
	Provision of i	information for	the lates	t reported	l inventory	year in the c	ommon rep	orting fo	rmat: 2011 (continue	d)	
als	Provided for gases	CO₂ ✓	CH ₄	✓	N_2O	\	HFCs ✓		PFCs 🗸		SF_6	
Totals	Provided for years	1990–2011	1990–	2011	1990–	-2011	1990–2011		1990–2011		1990-	-2011
		Reference app	roach	Sectoral a	pproach	Difference m	ore than 2 p	er cent	If difference	e is more	than .	2 per cent
CO_2	Comparison of CO ₂ from fuel combustion	√		✓		✓			Explanation provided	1	✓	
SF_{δ}					HFCs		PFCs			SF_6		
PFCs, SI	Disaggregation by sp		√		~							
S, PF	Reporting of actual a	•			Actual	Potential	Actual	Potent	ial	Actual		Potential
HFCs,	estimates in the categ and SF ₆	ory consumption	on of halo	ocarbons	✓	✓	✓	√		✓		✓
tion	Used in	Summary table	2 1.A	~	Sectoral	report tables	~	Sector	al backgrour	ıd data t	ables	/
Notation keys	Comments				•		•	•				

										_						PART II	
				ı						Prov	ision	of c	omn	ion r	epor	ting format tables for y	/ears reported
				Years													
				Base				,				0.0				Information gaps	
				year ^a	0661	1995	2000			2006	2007	2008	2009	2010	2011	relating to reporting ^b	Comments
	Sect	oral report: ta	ble 1		✓	✓	✓	✓	✓	✓	√	✓	√	✓	✓		
		Table 1.A(a)			√	✓	✓	✓	✓								
		Table 1.A(b)			✓	✓	✓	√	√	√	√	√	V	✓	√		
83		Table 1.A(c)			√	✓	√	√	✓	√	✓	✓	✓	√	✓		
Energy	SBDT	Table 1.A(d)			✓	✓	√	√	✓	√	V	✓	✓	√	✓		
	S	Table 1.B.1			√	✓	✓	✓	✓	✓	✓	V	✓	√	✓		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation key NO is used.
		Table 1.B.2			✓	√	√	√	√	√	✓	✓	✓	✓	✓		
		Table 1.C			V	✓	√	✓	√	✓	✓	V	√	√	V		
	Sect		Table 2(I)		✓	✓	✓	✓	✓	✓	√	✓	√	√	✓		
	repo	ns.	Table 2(II)		✓	✓	✓	✓	✓	✓	√	✓	√	√	✓		
cesses		Table 2(I).A-	-G		✓	✓	√	✓	✓	✓	√	✓	√	√	✓		
Industrial processes		Table 2(II).C			✓	✓	✓	✓	✓	✓	✓	✓	✓	√	✓		No numerical data are reported in this table for 1990–2011. For 1994–2011, the notation keys NO, C are used. For 1990–1993, the notation key NO is used.
Indi	SBDT	Table 2(II).E	,		√	✓	✓	✓	✓	✓	✓	✓	✓	√	✓		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation keys NO, NA are used.
		Table 2(II).F			√	√	✓	✓	√	✓	✓	✓	✓	✓	✓		

								p	rovis	sion (of co	mmo	n rer	orti	PART II	ears reported (continued)
	Provision of common reporting format tables for years reported (continued) Years															
			Base year ^a	0661	1995	2000	2004	2005	2006	2007	2008	2009	2010	2011	Information gaps relating to reporting ^b	Comments
U.	Secto	oral report: Table 3		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
SOPU	SBDT	Table 3.A–D		✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓		
	Secto	oral report: Table 4		✓	✓	✓	√	√	✓	✓	✓	√	✓	✓		
		Table 4.A		✓	✓	✓	✓	✓	✓	✓	√	√	✓	✓		
		Table 4.B(a)		√	√	✓	✓	√	✓	√	√	✓	V	√		
e,		Table 4.B(b)		√	√	✓	✓	√	✓	√	√	✓	V	√		
Agriculture	SBDT	Table 4.C		✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation keys NO, NA are used.
		Table 4.D		✓	✓	✓	√	√	√	✓	√	√	√	✓		
		Table 4.E		✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation keys NO, NA are used.
		Table 4.F		✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓		

								D	morrio	ion d	of acr			antin	PART II	low venested (continued)
	Provision of common reporting format tables for years reported (continued) Years															ans reported (continued)
			Years	ı	1	ı	1	1	1		1	1	1			
			Base year ^a	0661	2661	2000	2004	2005	2006	2002	2008	2009	2010	2011	Information gaps relating to reporting ^b	Comments
	Secto	oral report: Table 5			_	✓	✓	✓	✓	✓	✓	√	✓	✓		
		Table 5.A		√	✓	✓	√	✓	✓	✓	✓	✓	✓	✓		
		Table 5.B		√	✓	✓	√	✓	✓	✓	✓	√	✓	✓		
		Table 5.C		√	✓	✓	√	✓	✓	✓	✓	✓	✓	✓		
		Table 5.D		√	✓	✓	√	✓	✓	✓	✓	√	✓	✓		
UCF		Table 5.E		√	✓	✓	√	✓	✓	✓	✓	✓	✓	✓		
LULUCF	SBDT	Table 5.F		✓	✓	✓	√	✓	✓	✓	✓	√	✓	✓		
		Table 5 (I)		✓	✓	✓	√	✓	✓	✓	✓	√	✓	✓		
		Table 5 (II)		✓	✓	√	✓	✓	✓	✓	✓	√	√	✓		
		Table 5 (III)		✓	✓	√	√	✓	✓	✓	✓	~	√	✓		
		Table 5 (IV)		√	✓	√	√	✓	✓	✓	✓	√	✓	✓		
		Table 5 (V)		√	✓	✓	✓	✓	✓	✓	✓	√	✓	✓		

							Pr	ovisi	on of	com	ımon	rep	ortin		PART II	reported (continued)
			Years													
			Base year ^a	0661	1995	2000	2004	2005	2006	2007	2008	2009	2010	2011	Information gaps relating to reporting ^b	Comments
	Sect	oral report: Table 5 (KP)									✓	✓	✓	✓		
		Table 5 (KP-I) A.1.1									✓	✓	✓	✓		
		Table 5 (KP-I)A.1.2									✓	✓	✓	✓		No numerical data are reported in this table for 2008–2011. For these years the notation key NA is used.
		Table 5 (KP-I) A.1.3									✓	✓	✓	✓		
		Table 5 (KP-I) A.2									✓	✓	√	✓		
		Table 5 (KP-I) A.2.1									✓	✓	√	√		No numerical data are reported in this table for 2008–2011. For these years the notation key NA is used.
		Table 5 (KP-I) B.1									✓	✓	✓	✓		
KP-LULUCF		Table 5 (KP-I) B.2									✓	√	✓	✓		No numerical data are reported in this table for 2008–2011. For these years the notation key NA is used.
KP-i	SBDT	Table 5 (KP-I) B.3									✓	✓	✓	✓		No numerical data are reported in this table for 2008–2011. For these years the notation key NA is used.
		Table 5 (KP-I) B.4									✓	✓	✓	✓		No numerical data are reported in this table for 2008–2011. For these years the notation key NA is used.
		Table 5 (KP-II) 1									√	✓	√	√		
		Table 5 (KP-II) 2									✓	✓	✓	✓		No numerical data are reported in this table for 2008–2011. For these years the notation key NE is used.
		Table 5 (KP-II) 3									√	✓	✓	√		
		Table 5 (KP-II) 4									√	√	√	√		
		Table 5 (KP-II) 5									✓	✓	✓	✓		

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Provision of common reporting format tables for years reported (continued)														
Years														
	Base											Information gaps relating to		
	year ^a	0661	2661	2000	2004	2005	2006	2007	8007	2009	2010	2011	. b	Comments
Accounting table									✓	✓	✓	✓		

						J	Prov	ision	of co	omm	on re	port			RT II at tables for years repor	rted (continued)
	Years															
			Base year ^a	0661	2661	2000	2004	2005	2006	2007	2008	2009	2010	2011	Information gaps relating to reporting ^b	Comments
	Secto	oral report: Table 6		✓	✓	✓	√	✓	✓	√	✓	✓	✓	√		
ste		Table 6.A		✓	V	✓	√	V	V	✓	V	✓	V	√		
Waste	SBDT	Table 6.B		✓	√	✓	√	√	✓	✓	✓	✓	√	√		
		Table 6.C		✓	√	√	√	✓	✓	√	✓	✓	√	√		
		Summary 1.A		✓	✓	✓	√	✓	✓	√	✓	✓	✓	√		
		Summary 1.B		✓	✓	✓	√	✓	✓	√	✓	✓	✓	√		
		Summary 2 (CO ₂ equivalent emissions)		✓	✓	✓	✓	✓	✓	V	✓	✓	✓	✓		
tables		Summary 3 (Methods/emission factors)		✓	✓	✓	✓	✓	✓	V	√	✓	✓	✓		
other		Table 7 (Key categories)		✓										√		
Summary and other tables		Table 8(a) (Recalculation – recalculated data)		✓	✓	✓	✓	✓	✓	V	✓	✓	✓			
Sun		Table 8(b) (Recalculation – explanatory information)		✓	✓	✓	✓	✓	✓	√	✓	~	✓		√	
		Table 9(a) (Completeness)		✓	✓	√	√	✓	✓	√	✓	✓	✓	√		
		Table 9(b) (Completeness)		✓	~	√	✓	✓	✓	~	~	✓	✓	✓		
		Table 10 (Trends)		✓	V	✓	✓	✓	V	√	√	✓	V	✓		

^a Parties included in Annex I to the Convention undergoing the process of transition to a market economy are allowed to use a base year or a period of years other than 1990, in accordance with the provisions of Article 4, paragraph 6, of the Convention and decisions 9/CP.2 and 11/CP.4.

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

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PART III Provision of information relating to recalculations							
Table 8(a) (Recalculated data)	✓	Comments					
Recalculation reported for years	1990–2010						
Recalculated sectors/gases	Energy	Industrial processes	SOPU	Agriculture	LULUCF	Waste	
CO ₂	√	✓	√		✓		
CH ₄	√			✓	√	✓	
N_2O	✓	✓		✓	✓	✓	
HFCs							
PFCs							
SF ₆		✓					
Table 8(b) (Explanatory information)	~	✓	✓	✓	✓	~	
Percentage difference in aggregate greenhouse gas		Base year estimate: ^a	With LULUCF:	1.15 %	Without LULUCF:	0.1 %	
emissions		Latest recalculated year: ^b	With LULUCF:	-4.88 %	Without LULUCF:	-0.03 %	

^a Parties included in Annex I to the Convention undergoing the process of transition to a market economy are allowed to use a base year or a period of years other than 1990, in accordance with the provisions of Article 4, paragraph 6, of the Convention and decisions 9/CP.2 and 11/CP.4.

^b The latest recalculated year is the submission year minus 3.

	PART IV					
	Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3 and 4					
				Observation		
	Emissions by sources and removals by sinks are clearly distinguished from emissions from categories included in Annex A to the Kyoto Protocol		√			
agraphs 5–9	Information on how inventory methodologies have been applied taking into account IPCC good practice guidance for LULUCF ^a and decision 16/CMP.1		√			
	Inform	Information on the geographical location of the boundaries of areas that encompass:				
		Units of land subject to activities under Article 3.3	✓			
annex, pa		Units of land subject to activities under Article 3.3, which would otherwise be included in land subject to elected activities under Article 3.4	√			
AP.I,		Land subject to elected activities under Article 3.4	✓			
sion 15/C	Information on the spatial assessment unit for determining the area of accounting for afforestation, reforestation and deforestation		√			
Reporting requirements under decision 15/CMP.1, annex, paragraphs 5–9	Information on GHG emissions/removals resulting from activities under Article 3.3 and 3.4 for all geographical locations reported in the current and previous years since the beginning of the commitment period or the onset of the activity, whichever comes later		✓			
	Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for		√			
	Information on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 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				

^a The Intergovernmental Panel on Climate Change Good Practice Guidance for Land Use, Land-Use Change and Forestry.

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	PART IV								
	Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3 and 4 (continued)								
				Observation					
-6	Specific information to be reported for Article 3.3 activities:								
paragraphs 5–		Activities under Article 3.3 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							
annex, para		How harvesting or forest disturbance that is followed by the re-establishment of forest is distinguished from deforestation	✓						
		Emissions/removals from lands harvested during the first commitment period following afforestation and reforestation on these units of land since 1990	✓						
n 15/0	Specific information to be reported for Article 3.4 activities:								
decisic		Activities under Article 3.4 that occurred since 1 January 1990 and are human induced	✓						
Reporting requirements under decision 15/CMP.1,		Cropland management, grazing land management, revegetation: emissions/removals reported for each year of the commitment period and for the base year for each of the elected activities on the geographical locations reported		Finland elected only forest management under Article 3, paragraph 4.					
ng require		Emissions/removals from Article 3.4 activities that are not accounted for under activities under Article 3.3		Information required in paragraph 9(c) of the annex to 15/CMP1. is not included in the submission.					
Reporti		Forest management: information on the extent to which GHG removals by sinks offsets the debit incurred under Article 3.3	√						