

United Nations



Framework Convention on Climate Change Distr.: General 14 June 2012

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 2012 as originally submitted by the Party.

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

AAU: assigned amount unit	Nota
ARD: afforestation, reforestation and	C: cc
deforestation	IE: ii
CER: certified emission reduction	NA:
CRF: common reporting format	NE: 1
ERU: emission reduction unit	NO:
FM: forest management	
GHG: greenhouse gas	Gree
KP-LULUCF: Article 3, paragraphs 3 and	CO_2 :
4, activities under the Kyoto Protocol	CH_4 :
ICER: long-term certified emission	N_2O :
reduction	HFC
LULUCF: land use, land-use change and	PFC
forestry	SF ₆ :
NIR: national inventory report	NO _x
RMU: removal unit	CO:
SBDT: sectoral background data tables	NMV
SEF: standard electronic format	co
SOPU: solvent and other product use	SO ₂ :
tCER: temporary certified emission reduction	~ 52.

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 NO_X: nitrogen oxides CO: carbon monoxide NMVOCs: non-methane volatile organic compounds SO₂: sulphur dioxide



			GREENH	OUSE GA	AS INVENT	ORY SUBMISS	SION				
		Date of r	eceipt	Date of re	esubmission	Comments					
	NIR	14 Apri	1 2012								
	CRF tables ^a	12 Apri	1 2012								
mation	Additional information ^b	23 Mar 2012	ch			The followin NIR:	ıg file	was sul	omitted	together with	the
General information						"Information Finland.docx		nanges i	n the n	ational registry	y of
Gen	CRF provided for years	1990–2	010								
	Base year or period ^c	1990	Base ye	ear for H	IFCs, PFC	s and $SF_6^{\ d}$	1995				
	Gases covered	CO_2	CH_4	N_2O	HFCs	PFCs	SF ₆	NO _X	СО	NMVOCs	SO_2
		~	~	\checkmark	~	✓	~	~	~	~	~
NIR	Description	reportir	ng guidel	ines ^e on	annual inv		owing	incorpo	oration	lated UNFCC of the provisio	
	Language of NIR	English	l								
CRF^{f}	Missing source category cent for categories includ to the Kyoto Protocol	larger th ed in Ar	an 7 per inex A	No mis	ssing sourc	ce category la	rger tl	nan 7 pe	er cent l	has been ident	ified.

^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 for 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 IN	FORMATION UNDER	ARTICLE 7.1		
		Date of receipt	Date of resubmission	Comments		
ion	KP-LULUCF information ^a	14 April 2012		NIR, page 406, chapter	11.	
y information	KP-LULUCF CRF ^b	12 April 2012		CRF provided for years:	2008–2010	
of supplementary	Information on Kyoto units (ERUs, CERs, RMUs and AAUs) ^{<i>c</i>}	14 April 2012		NIR, page 428, chapter	12.	
of supt	SEF ^d with Kyoto units	16 February 2012				
Reporting .	Change in national system ^e	14 April 2012		NIR, page 430, chapter	13.	
Repc	Change in national registry ^e	14 April 2012		NIR, page 431, chapter	14.	
	Minimization of adverse impacts ^e	14 April 2012		NIR, page 434, 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 Protocol units, as adopted under decision 14/CMP.1 and required by the annex to decision 15/CMP.1, paragraph 11.

^{*e*} 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 infor	mation for	the lates		PAR' inve		ar in tl	he commo	on rep	orting format: 2010			
	<u> </u>	Energy		Industrial pr	ocesses	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)	v	2(II).C	~		-	4.B(a)	~	5.B	~	5(KP-I)A.1.2	~	6.B	~
		1.A(c)	v	2(II).E	~			4.B(b)	~	5.C	~	5(KP-I)A.1.3	~	6.C	~
		1.A(d)	v	2(II).F	~			4.C	~	5.D	~	5(KP-I)A.2	~		
		1.B.1	✓		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.	~		
les		Bunkers	separate	ly 🗸				L		5 (II)	~	5(KP-I)B.3.	~		
Tables										5 (III)	~	5(KP-I)B.4.	~		
										5 (IV)	~	5(KP-II)1	~		
										5 (V)	~	5(KP-II)2	~		
												5(KP-II)3	~		
												5(KP-II)4	~		
												5(KP-II)5	~		
												Accounting table	~		
	Summary tables	Summa	ry 1.A	~	Summ	ary 1.B		~			Sum	mary 2			/
	Other tables	Summa	ry 3	~	Table 7	7 (Key cate	egorie	es) 🗸			Tabl	e 9(a) (Completeness))	ľ	/
		Table 10) (Trends) 🗸							Tabl	e 9(b) (Completeness)		
	Comments										I				

^{*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.

	Provision of i	information for	the late:	st reported	PAI inventory		ommon rep	orting fo	rmat: 2010 (continued)	
ıls	Provided for gases	CO ₂ 🖌	CH4	~	N_2O	✓	HFCs 🖌		PFCs 🗸	s	SF ₆ ✓	/
Totals	Provided for years	1990–2010	1990-	-2010	1990-	-2010	1990–2010		1990–2010	1	990–2	010
		Reference appr	roach	Sectoral a	pproach	Difference m	ore than 2 p	per cent	If differenc	e is more t	than 2	per cent
CO_2	Comparison of CO ₂ from fuel combustion	~		~					Explanation provided	n		
SF_6				•	HFCs	•	PFCs			SF_6		
	Disaggregation by sp	pecies			~							
HFCs, PFCs,	Reporting of actual a	-			Actual	Potential	Actual	Potent	ial	Actual	F	Potential
HFG	estimates in the categ and SF ₆	ory consumptio	on of hal	ocarbons	✓	~	✓	~		~	``	/
tion >S	Used in	Summary table	1.A	~	Sectoral	report tables	~	Sector	al backgrou	nd data tal	bles	/
Notation keys	Comments			·				·				

6

																PART II	
				T						Prov	visior	n of c	omn	non	repo	rting format tables for	r years reported
				Years													
				Base	9	5	0	3	4	5	5	7	8	0		Information gaps	
				year ^a	0661	1995	2000	2003	2004	2005	2006	2007	2008	2009			Comments
	Secto	oral report: ta	ible 1		~	~	~	~	~	~	~	~	~	~	~		
		Table 1.A(a)			~	~	✓	~	~	~	~	~	~	~	~		
		Table 1.A(b)			~	~	~	~	~	~	~	~	~	~	~		
<i>.8</i>		Table 1.A(c)			~	~	~	~	~	~	~	~	~	~	~		
Energy	SBDT	Table 1.A(d))		~	~	~	~	~	~	~	~	~	√	~		
		Table 1.B.1			~	~	~	~	~	~	~	~	~	√	~		No numerical data are reported in this table, the notation key NO is used.
		Table 1.B.2			~	~	~	~	~	~	~	~	~	~	~		
		Table 1.C			~	~	~	~	~	~	~	~	~	~	~		
	Secto		Table 2(I)		~	~	~	~	~	~	~	~	~	~	~		
	repo		Table 2(II)		~	~	~	~	~	~	~	~	~	~	~		
esses		Table 2(I).A-	–G		~	~	~	~	~	~	~	~	~	✓	~		
Industrial processes	SBDT	Table 2(II).C	2		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table. For the years 1990–1993 the notation key NO is used. For the years 1994–2010 the notation keys NO, C are used.
1		Table 2(II).E	1		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table, the notation keys NO, NA are used.
		Table 2(II).F	,		~	~	~	~	~	~	~	~	~	~	~		

								Р	rovis	sion (of co	nmo	n rei	oortii	PART II ng format tables for ve	ears reported (continued)
			Years													
			Base year ^a	1990	1995	2000	2003	2004	2005	2006	2007	2008	2009	2010	Information gaps relating to reporting ^b	Comments
use	Secto	oral report: Table 3		✓	~	~	~	~	~	~	~	~	~	~		
Solvent	SOPU	Table 3.A–D		~	~	~	~	~	~	~	~	~	~	~		
	Secto	oral report: Table 4		✓	~	~	~	✓	✓	✓	✓	~	~	~		
		Table 4.A		~	~	~	~	~	~	~	~	~	~	~		
		Table 4.B(a)		~	~	~	~	~	~	~	~	~	~	~		
lture		Table 4.B(b)		~	~	~	~	~	~	~	~	~	~	~		
Agriculture	SBDT	Table 4.C		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table, the notation keys NO, NA are used.
		Table 4.D		~	~	~	~	~	~	~	~	~	~	~		
		Table 4.E		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table, the notation keys NO, NA are used.
		Table 4.F		✓	~	~	~	√	~	√	~	~	~	~		

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															PART II	
			1					Р	Provi	sion	of con	nmo	n rej	porti	ng format tables for year	rs reported (continued)
			Years													
			Base year ^a	0661	1995	2000	2003	2004	2005	2006	2007	2008	2009	2010	Information gaps relating to reporting ^b Co	Comments
	Secto	oral report: Table 5		✓	~	~	~	~	✓	~	✓	~	~	~		
		Table 5.A		~	~	~	~	~	~	~	~	~	~	~		
		Table 5.B		~	~	~	~	~	~	~	~	~	~	~		
		Table 5.C		~	~	~	~	~	~	~	~	~	~	~		
		Table 5.D		~	~	~	~	~	~	~	~	~	~	~		
JCF		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	f con	ımon	repo	ortin		PART II mat tables for years	reported (continued)
		Years													
		Base year ^a	0661	1995	2000	2003	2004	2005	2006	2007	2008	2009	2010	Information gaps relating to reporting ^b	Comments
Se	ectoral 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, 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, the notation key NA is used.
	Table 5 (KP-I) B.1										~	~	~		
KP-LULUCF	Table 5 (KP-I) B.2										~	~	~		
KP-LU	Table 5 (KP-I) B.2 Table 5 (KP-I) B.3										~	~	~		No numerical data are reported in these tables, the notation key NA is used.
	Table 5 (KP-I) B.4										~	~	~		
	Table 5 (KP-II) 1										~	~	~		
	Table 5 (KP-II) 2										~	~	~		No numerical data are reported in this table, the notation key NE is used.
	Table 5 (KP-II) 3										~	√	~		
	Table 5 (KP-II) 4										~	~	~		
	Table 5 (KP-II) 5										~	~	~		
A	ccounting table										~	~	~		

														PA	RT II	
			-]	Prov	ision	of c	omm	on r	epor	ting	form	at tables for years repo	rted (continued)
			Years													
			Base year ^a	066 I	1995	2000	2003	2004	2005	2006	2007	2008	2009	2010	Information gaps relating to reporting ^b	Comments
	Sect	oral report: Table 6		√	✓	✓	√	✓	✓	~	~	~	✓	✓		
te		Table 6.A		~	~	~	~	~	~	~	~	~	~	~		
Waste	SBDT	Table 6.B		~	~	~	✓	~	✓	~	~	~	~	~		
		Table 6.C		~	~	~	~	~	~	~	~	~	~	~		
		Summary 1.A		~	~	~	~	~	~	~	~	~	~	~		
		Summary 1.B		~	~	~	~	~	~	~	~	~	~	~		
		Summary 2 (CO ₂ equivalent emissions)		~	~	~	~	~	~	~	~	~	~	~		
tables		Summary 3 (Methods/emission factors)		~	~	~	~	~	~	~	~	~	~	~		
other	TC	Table 7 (Key categories)		~								~	~	~		
Summary and other tables	SBDT	Table 8(a) (Recalculation – recalculated data)		~	~	~	~	~	~	~	~	~	~			
Sun		Table 8(b) (Recalculation – explanatory information)		~	~	~	~	~	~	~	~	~	~			
		Table 9(a) (Completeness)	1	~	~	~	~	~	~	~	~	~	~	~		
		Table 9(b) (Completeness)		~	~	~	~	~	~	~	~	~	~	~		
		Table 10 (Trends)		~	~	~	~	~	~	~	~	~	~	~		

^{*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).

		Provision of info	PART III prmation relating to recalc	ulations		
Table 8(a) (Recalculated data)	✓	Comments				
Recalculation reported for years	1990–2009	1	I			
Recalculated sectors/gases	Energy	Industrial processes	Solvent and other product use	Agriculture	LULUCF	Waste
CO_2	✓	✓	✓		✓	
CH_4	✓			✓	✓	✓
N ₂ O	✓			✓	✓	✓
HFCs						
PFCs						
SF_6						
Table 8(b) (Explanatory information)	✓	V	V	✓	V	V
Percentage difference in aggregate	e greenhouse gas	Base year estimate: ^a	with LULUCF:	-1.23 %	without LULUCF:	-0 %
emission		Latest recalculated year: ^b	with LULUCF:	16.45 %	without LULUCF:	-0.34 %

^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.

12

	PART IV		
	Provision of information relating to KP-LULUCF activities under	Article 3, pa	aragraphs 3 and 4
		Provided	Observation
	sions by sources and removals by sinks are clearly distinguished from emissions from categories ded in Annex A to the Kyoto Protocol	~	
	mation on how inventory methodologies have been applied taking into account IPCC good practice ance for LULUCF ^a and decision 16/CMP.1	~	
Inform	mation on geographical location of the boundaries of areas that encompass:		
	Units of land subject to activities under Article 3.3	✓	
	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	v	
	Land subject to elected activities under Article 3.4	✓	
	mation on the spatial assessment unit for determining the area of accounting for afforestation, estation and deforestation	v	
geogr	mation on GHG emissions/removals resulting from activities under Article 3.3 and 3.4, for all raphical locations reported in the current and previous years since the beginning of the commitment d or the onset of the activity, whichever comes later	✓	
	mation on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic on) that are not accounted for	~	
	mation on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out vals 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.

PART IV				
Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3 and 4 (continued)				
			Provided	Observation
	Specific information to be reported for Article 3.3 activities:			
Reporting requirements under decision 15/CMP.1, annex, paragraphs 5–9		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	~	
		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	~	
	Specific information to be reported for Article 3.4 activities:			
		Activities under Article 3.4 that occurred since 1 January 1990 and are human induced	✓	
		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 selected only forest management under Article 3, paragraph 4.
		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/CMP.1 is not included in the submission. In its response to the draft status report, Finland stated that "In CRF tables (5(KP-1).A.2.1 and 5(KP-1).A.1.3) and in the descriptions of how the ARD and FM areas are determined (see e.g. Section 11.1.3) in the NIR. Methodologies used and described in the NIR (see e.g Section 11.3-11.5) confirms that there is no overlap between article 3.3 and 3.4 estimates."
		Forest management: information on the extent to which GHG removals by sinks offsets the debit incurred under Article 3.3	~	