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Annual status report of the greenhouse gas inventory of Luxembourg

- 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 format

LULUCF: land use, land-use change and

forestry

KP-LULUCF CRF: tables for reporting activities under Article 3, paragraphs 3

and 4, of the Kyoto Protocol

NIR: national inventory report

SBDT: 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

	INTRODUCTION														
		Date of re	eceipt]	Date	of resubi	mission	Commen	ts					
	CRF ^a	23 April 2	800												
	NIR	2 June 20	08												
ition	Additional information ^b														
rma	KP-LULUCF CRF ^c														
al infc	KP-LULUCF information ^d														
General information	CRF provided for years	KP-I	ULUCF												
	Base year or period	1990			1	Base	year for H	HFCs, PF	Cs and SF	e 6	1995				
	Gases covered	HF	Cs	PFCs SF ₆		NOx	СО	NMVOCs	SO_2						
		✓	✓	✓	✓	/	✓	✓	✓	✓	✓	✓			
National inventory report	Description	The organization of the NIR, in general, follows the structure as outlined in the revised UNFCC reporting guidelines (decision 18/CP.8). However, some of the recommended annexes such as "Detailed discussion of methodology and data for estimating CO ₂ emissions from fossil fuel combustion", "CO ₂ reference approach and comparison with sectoral approach, and relevant information on the national energy balance", "Assessment of completeness and (potential) sour sinks of greenhouse gas emissions and removals excluded" and "Tables 6.1 and 6.2 of the IPCC practice guidance" are not provided.										as ources and			
Z	Language of NIR	English													
Common reporting format	Missing source category larger than 7 per cent for Annex A sources	No missin	g source o	category la	arger t	han '	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.

PART I Provision of information for the latest reported inventory year in the CRF: 2006

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		Ener	gy	Industr		Solven	t use	Agric	ılture	use ch	use, land lange and restry		l use, land-us ge and forest (KP) ^a		Wa	ste
	Sectoral report	1	✓	2(I)	✓	3	✓	4	✓		5 ✓	5(KP).		6	\checkmark
	tables		•	2(II)	✓											
	Sectoral background	1.A(a)	✓	2(I).A-G	✓	3.A-D	✓	4.A	✓	5.4	A 🗸	5(KI	P-I)A.1.1	6.	.A	✓
	data tables	1.A(b)	✓	2(II).C	✓			4.B(a)	✓	5.1	В	5(KI	P-I)A.1.2	6	.B	✓
		1.A(c)	✓	2(II).E	✓			4.B(b)	✓	5.0	C 🗸	5(KI	P-I)A.1.3	6	.C	✓
		1.A(d)	✓	2(II).F				4.C	✓	5.1) √	5(Kl	P-I)A.2			
		1.B.1	✓			_		4.D	✓	5.	E 🗸	5(KP-	-I)A.2.1.			
		1.B.2	✓					4.E	✓	5.	F 🗸	5(K)	P-I)B.1			
		1.C	✓					4.F	✓	5 (D 🗸	5(K)	P-I)B.2			
×		Bunkers	separa	itely 🗸						5 (I	n 🗸	5(KI	P-I)B.3			
Tables			•							5 (II	D 🗸	5(K)	P-I)B.4			
T										5 (IV	7) 🗸	5(K	P-II)1			
										5 (V) 🗸	5(K	P-II)2			
												5(K	P-II)3			
												5(K	P-II)4			
													P-II)5			
			Accounting table													
	Summary tables (emission totals)	Summar	y 1.A		✓	Summa	ry 1.I	3		✓	Summa	· ·				✓
	Other tables	Summar	y 3		✓	Table 7	(Key	categorie	es)	✓	Table 9	(a) (Con	npleteness)			✓
		Table 10	(Trend	ds)	✓						Table 9(b) (Completeness)					
	Comments														·	
slı	Provided for gases	CO	₂ ✓	(CH ₄ ✓	,	N	I ₂ O ✓		HFCs	✓	P	FCs	5	SF ₆ ▼	/
Totals	Provided for years	1990	-2006	199	90–20	06	199	90–2006		1990–2	.006			19	90–20)06
	Comparison of	Dafa	ranca a	pproach		Seator	al ar	proach			nce more	than	If differen	nce is	more	than
CO_2	CO ₂ from fuel combustion	KCIC		рргоасп		Sector		proach		2	per cent			per ce		
			✓				✓						Explanation	ı prov	ided	
HFCs, PFCs, SF ₆	Disaggregation b	by species	3]	HFCs ✓				PFCs			SF ₆		
PFC	Reporting of act					Actual		Potential		Actual	Po	ential	Actual		Pote	ntial
IFCs,	emission estimat halocarbons and		consun	nption of		✓		- otonia		. iotuul	10		Actual ✓		Potential	
\vdash		r				T										
ion	Used in	Summar	y table	1.A		✓ Se	ectora	ıl report t	ables		√ §	Sectoral	background o	lata ta	bles	✓
Notation keys	Comments															
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^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	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 1		√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.A(a)		>	>	>	✓	\	✓	✓	✓	\	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.A(b)		✓	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
>		Table 1.A(c)		√	✓	✓	✓	√	✓	✓	✓	√	✓	✓	✓	✓	✓	✓	✓	✓		
Energy	T	Table 1.A(d)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
En	SBDT	Table 1.B.1		✓	✓	√	✓	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but notation key NO is used.
		Table 1.B.2		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		I	<u> </u>	,	,	,		,				,									- I	
	e.	Table 2(I)		√	✓	√	√	√														
E S	Se	ctoral reports: Table 2(II)		√	√	√	√	✓	√		✓	✓	√	√		√	√	√	√			
Industrial processes		Table 2(I).A–G		√		N. 1.																
ndu	SBDT	Table 2(II).C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in these tables, but notation
1 2	SB	Table 2(II).E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		keys NO, NA are used.
		Table 2(II).F																				
	<u></u>			/																		
se	Se	ctoral report: Table 3		✓	✓	✓	✓	✓	√	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	✓		
Solvent use	SBDT	Table 3.A–D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

			Years																			
			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		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 4.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 4.B(a)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
4)		Table 4.B(b)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Agriculture	SBDT	Table 4.C		✓	\	√	✓	✓	✓	✓	✓	\	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but notation keys NO, NA are used.
Ϋ́	S	Table 4.D		✓	>	>	✓	✓	✓	✓	✓	>	\	✓	✓	✓	\	✓	✓	✓		
		Table 4.E		✓	✓	✓	✓	✓	✓	~	✓	✓	✓	✓	✓	<	✓	✓	✓	<		No data are reported in this table, but notation key NA is used.
		Table 4.F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	C		ī	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		
try	Se	ctoral report: Table 5 Table 5.A		∨	∨	∨	∨	∨	∨	∨	∨	∨	∨	∨	∨	∨	∨	∨	∨	∨		
res		Table 5.A		∨	∨	∨	V	∨	∨	∨	∨	∨	∨	∨	∨	∨	∨	∨	v	∨		
ld fe		Table 5.C		∨	√	∨	✓	V ✓	∨	✓	∨	√	∨	V ✓	V ✓	∨	▼	V ✓	∨	∨		No data are reported in
e ar		Table 5.D		▼	✓	✓	✓	√	✓	V	✓	✓	✓	V	√	∨	√	✓	▼	∨		these tables, but notation
ang		Table 5.E		· /	✓	<i>'</i>	· /	✓	<i>'</i>	· /	→	<i>'</i>	· /	· ·	· ·	· ·	✓	· /	· /	· /		key NE is used.
ch	DT			· ·	·	·	·	· ✓	· ·	✓	· ✓	·	·	· ✓	· ✓	· ·	· ·	<i>'</i>	· /	· ·		
-ns	SBDT	Table 5 (I)		· /	·	· ✓	·	· ✓	·	<i>'</i>	· ✓	·	·	· ✓	· ✓	· /	· ·	·	·	· ✓		
and		Table 5 (II)		· /	· ✓	✓	1	√	✓	✓	✓	· ✓	· ✓	· ✓	√	·	✓	✓	·	· ✓		
se, l		Table 5 (III)		· ·	· ✓	· ·	<i>'</i>	· ·	· ·	·	· /	· ✓	· /	· ·	· /	· ·	· ·	·	· /	· ·		No data are reported in these tables, but notation
Land use, land-use change and forestry		Table 5 (IV)		<u> </u>	✓	✓	✓	✓	✓	✓	▼	✓	✓	∨	√	✓	✓	✓	•	∨		keys NA, NE are used.
Lar		Table 5 (V)		▼	√	✓	✓	✓	✓	✓	√	✓	✓	✓	✓	✓	√	✓	✓	√		

	PART II Provision of CRF tables for years reported (continued)																					
Years																						
			Base year ^a	1990	1991	1992	1993	1994	1995	9661	2661	8661	6661	2000	2001	2002	2003	2004	2002	9007	Information gaps relating to reporting ^b	Comments
	Se	ctoral report: Table 5 (KP)																				
ပ		Table 5(KP-I)A.1.1																				
(F)		Table 5(KP-I)A.1.2																				
y. (1		Table 5(KP-I)A.1.3																				
estr		Table 5(KP-I)A.2																				
for		Table 5(KP-I)A.2.1																				
and		Table 5(KP-I)B.1																				
ge :		Table 5(KP-I)B.2																				
han	DT	Table 5(KP-I)B.3																				
se c	SB	Table 5(KP-I)B.3 Table 5(KP-I)B.4 Table 5(KP-II)1																				
Land use, land-use change and forestry (KP) ^c		Table 5(KP-II)1																				
lar,		Table 5(KP-II)2																				
use,		Table 5(KP-II)3																				
pui		Table 5(KP-II)4																				
$\Gamma_{\mathcal{E}}$		Table 5(KP-II)5																				
		Accounting table																				

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)	✓	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	✓														
CH ₄	✓			✓		✓									
N ₂ O	✓			✓											
HFCs															
PFCs															
SF ₆															
Table 8(b) (Explanatory information)	✓			✓		✓									
Full CRF for the recalculated base year Percentage difference in aggregate greenhouse gas base year estimate with LULUCF 0.15 % without LULUCF 0.14 %															