

COMPLIANCE COMMITTEE



Annual status report of the annual inventory of Luxembourg

Note by the secretariat

The annual status report of the annual inventory of Luxembourg was published on 18 June 2014. For purposes of rule 10, paragraph 2, of the Rules of procedure of the Compliance Committee (annex to decision 4/CMP.2, as amended by decisions 4/CMP.4 and 8/CMP.9), the report is considered received by the secretariat on the same date. This report, FCCC/ASR/2014/LUX, contained in the annex to this note, is being forwarded to the Compliance Committee in accordance with section VI, paragraph 3, of the annex to decision 27/CMP.1 and paragraph 49 of the annex to decision 22/CMP.1.





Framework Convention on Climate Change Distr.: General 18 June 2014

English only

Annual status report of the annual inventory of Luxembourg

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 2014 as originally submitted by the Party, and of the resubmission received by 27 May 2014.

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 <i>Gases</i> CO ₂ : carbon dioxide CH ₄ : methane N ₂ O: nitrous oxide HFCs: hydrofluorocarbons PFCs: perfluorocarbons SF ₆ : sulphur hexafluoride NO _X : nitrogen oxides CO: carbon monoxide NMVOCs: non-methane volatile organic compounds SO ₂ : sulphur dioxide
reduction	SO ₂ : sulphur dioxide





Please recycle

		(GREENH	IOUSE GA	S INVENT	ORY SUBMIS	SION						
		Date of re	ceipt	Date of res	submission	Comments							
	NIR	15 April	2014	22 May	2014								
tion	CRF tables ^a	15 April	2014										
forma	Additional information ^b												
General information	CRF provided for years	years 1990–2012											
Gene	Base year or period ^c	1990Base year for HFCs, PFCs and SF_6^d 1995											
	Gases covered	CO_2	CH_4	N_2O	HFCs	PFCs	SF ₆	NO _X	СО	NMVOCs	SO_2		
		~	~	~	~	~	~	~	~	✓	~		
NIR	Description	The organization of the NIR, in general, follows the structure outlined in the updated UNFCCC reporting guidelines ^e on annual inventories following incorporation of the provisions of decision 14/CP.11, elaborated with an annotated outline of the NIR. However, the recommended annexes are not provided.											
	Language of NIR English												
CRF	Missing source category cent for categories includ to the Kyoto Protocol			No mis	sing sourc	ce category la	arger tl	nan 7 pe	er cent l	nas 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 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 2014	22 May 2014	NIR, page 451, chapter 11.
information	KP-LULUCF CRF ^b	15 April 2014		CRF provided for years: 2008–2012
supplementary i	Information on Kyoto units (ERUs, CERs, RMUs and AAUs) ^c	15 April 2014	22 May 2014	NIR, page 473, chapter 12.
plddns.	SEF ^d with Kyoto Protocol units	15 April 2014		
ting of	Change in national system ^e	15 April 2014	22 May 2014	NIR, page 475, chapter 13.
Reporting	Change in national registry ^e	15 April 2014	22 May 2014	NIR, page 475, chapter 14.
	Minimization of adverse impacts ^e	15 April 2014	22 May 2014	NIR, page 478, 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.

		Provision	of info	rmation for	the lates		PAR'		ar in f	he commo	n ren	orting format: 2012			
		Energy		Industrial pr		SOPU	i mve	Agricult		LULUC	_	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	~		I
		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.	~		
es		Bunkers	separate	ely 🗸						5 (II)	~	5(KP-I)B.3.	~		
salan I										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	Summar	ry 3	✓	Table	7 (Key cat	egorie	es) 🗸			Tabl	e 9(a) (Completeness))	1	/
		Table 10) (Trends	s) 🗸				<u> </u>			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	nformation for t	he lates	t reported	PAI inventory		ommon rep	orting fo	rmat: 2012 (continued	d)	
ıls	Provided for gases	CO ₂ 🖌	CH_4	~	N_2O	~	HFCs 🖌		PFCs 🗸		۲ SF ₆	/
Totals	Provided for years	1990–2012	1990–	2012	1990-	-2012	1990–2012		2000–2012		1990-	2012
		Reference appro	bach	Sectoral a	pproach	Difference m	ore than 2 p	oer cent	If difference	e is more	than 2	2 per cent
	Comparison of CO ₂ from fuel combustion	v		✓					Explanation provided	1		
SF_{δ}					HFCs		PFCs			SF_6		
	Disaggregation by sp	ecies			~		~					
13	Reporting of actual a	-			Actual	Potential	Actual	Potenti	ial	Actual		Potential
HF	estimates in the categ and SF ₆	ory consumption	of hal	ocarbons	~		~			~		
tion vs	Used in	Summary table .	l.A	~	Sectoral	report tables	~	Sector	al backgrour	nd data ta	ables	v
Notation keys	Comments							•				

6

	PART II Provision of common reporting format tables for years reported																
															ting format tables for y	years reported	
	Years																
												2009	2010	2011	2012	Information gaps relating to reporting ^b	Comments
	Sect	oral report: ta	ible 1		~	✓	~	~		~	~	~	~	√	~		
		Table 1.A(a)			~	✓	~	~	~	~	~	~	~	~	~		
		Table 1.A(b)	1		~	~	~	~	~	~	~	~	~	~	~		
A		Table 1.A(c)			~	~	~	~	~	~	~	~	~	~	~		
Energy	SBDT	Table 1.A(d)			~	~	~	~	~	~	~	~	~	~	~		
	SB	Table 1.B.1			~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for the years 1990–2012. For these years the notation key NO is used.
		Table 1.B.2			~	~	~	~	~	~	~	~	~	~	~		
		Table 1.C			~	~	~	~	~	~	~	~	~	~	~		
	Sect		Table 2(I)		~	~	✓	~	~	~	~	~	~	✓	~		
	repo		Table 2(II)		~	~	~	~	~	~	~	~	~	~	~		
Industrial processes		Table 2(I).A-	–G		~	~	~	~	~	~	~	~	~	~	~		
ustrial j	Table 2(II).C		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for the years 1990–2012. For these		
lpul	SBDT	Table 2(II).E			~	~	~	~	~	~	~	~	~	~	~		years the notation keys NO and NA are used.
		Table 2(II).F			~	~	√	~	~	~	~	~	~	~	~		

															PART II	
	Provision of common reporting form														ng format tables for ye	ears reported (continued)
			Years													
			Base year ^a	0661	1995	2000	2005	2006	2007	2008	2009	2010	2011	2012	Information gaps relating to reporting ^b	Comments
U	Sect	oral report: Table 3		✓	~	~	~	~	~	~	~	~	~	~		
SOPU	SBDT	Table 3.A–D		~	~	~	~	~	~	~	~	~	~	~		
	Sect	oral report: Table 4		~	~	~	~	~	~	~	~	~	~	~		
		Table 4.A		~	~	~	~	~	~	~	~	~	~	~		
		Table 4.B(a)		~	~	~	~	~	~	~	~	~	~	~		
re		Table 4.B(b)		~	~	~	~	~	~	~	~	~	~	~		
Agriculture	SBDT	Table 4.C		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for the years 1990–2012. For these years the notation keys NO and NA are used.
		Table 4.D		~	~	~	~	~	~	~	~	~	~	~		
		Table 4.E		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for the years 1990–2012. For these years the notation key NA is used.
		Table 4.F		✓	~	~	~	√	✓	✓	✓	~	~	~		

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															PART II	
	Provision of common reporting													porti	ng format tables for ye	ears reported (continued)
			Years													
			Base year ^a	0661	1995	2000	2005	2006	2007	2008	2009	2010	2011	2012	Information gaps relating to reporting ^b	Comments
	Secto	oral report: Table 5		✓	~	✓	✓	✓	~	~	~	~	~	~		
Ī		Table 5.A		~	~	~	~	~	~	~	~	~	~	~		
		Table 5.B		~	~	~	~	~	~	~	~	~	~	~		
		Table 5.C		~	~	~	~	~	~	~	~	~	~	~		
		Table 5.D		~	~	~	~	~	~	~	~	~	~	~		
F		Table 5.E		~	~	~	~	~	~	~	~	~	~	~		
LULUCF	SBDT	Table 5.F		~	~	~	~	~	~	~	~	~	~	~		
Γ	SE	Table 5 (I)		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for the years 1990–2012. For these years
		Table 5 (II)		~	~	~	~	~	~	~	~	~	~	~		the notation keys NO and NA are used.
		Table 5 (III)		~	~	~	~	~	~	~	~	~	~	~		
		Table 5 (IV)		~	~	~	~	~	~	~	~	~	~	~		
		Table 5 (V)		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for the years 1990–2012. For these years the notation keys NE and NO are used.

	Provision of common reporting for													PART II	
		Years				PI	ovisi		con	nmoi	ı rep	orui	1g 101	mat tables for years	reported (continued)
		Base year ^a	0661	1995	2000	2005	2006	2007	2008	2009	2010	2011	2012	Information gaps relating to reporting ^b	Comments
Se	ctoral 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 the years 2008–2012. For these years the notation key NO is used.
	Table 5 (KP-I) A.1.3								~	~	~	~	~		No numerical data are reported in this table for the years 2008–2012. For these years the notation key NA is used.
	Table 5 (KP-I) A.2		1						~	~	~	~	~		
	Table 5 (KP-I) A.2.1								~	~	~	~	~		
	Table 5 (KP-I) B.1								~	~	~	~	~		-
LUCF	Table 5 (KP-I) B.2								~	~	~	~	~		No numerical data are reported in this table for the years 2008–2012. For these years the notation key NA is used.
KP-LULUCF	Table 5 (KP-I) B.3		1						~	~	~	V	~		
k	Table 5 (KP-I) B.4		1						~	~	~	~	~		-
	Table 5 (KP-II) 1								~	~	~	~	~		No numerical data are reported in this table for the years 2008–2012. For these years the notation keys NO and NA are used.
	Table 5 (KP-II) 2								~	~	~	~	~		No numerical data are reported in this table for the years 2008–2012. For these years the notation key NA is used.
	Table 5 (KP-II) 3			1					~	~	~	~	~		
	Table 5 (KP-II) 4								✓	~	~	~	~		No numerical data are reported in this table for the years 2008–2012. For these
	Table 5 (KP-II) 5			1					~	~	~	~	~		years the notation keys NO and NA are used.
Ac	counting table								~	~	~	~	~		

	PART II Provision of common reporting format tables for years reported (continued)															
			Years													
			Base year ^a	0661	1995	2000	2005	2006	2007	2008	2009	2010	2011	2012	Information gaps relating to reporting ^b	Comments
	Sect	oral report: Table 6		~	√	~	~		~	~	~	~	~	~		
		Table 6.A		✓	~	~	~	~	✓	~	~	~	~	~		
Waste	SBDT	Table 6.B		✓	~	~	~	~	✓	~	~	~	~	~		
	SB	Table 6.C		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for the years 1990–2012. For these years the notation key IE is used.
		Summary 1.A		~	~	~	~	~	~	~	~	~	~	~		
		Summary 1.B		~	~	~	~	~	~	~	~	~	~	~		
		Summary 2 (CO ₂ equivalent emissions)		~	~	~	~	~	~	~	~	~	~	~		
tables		Summary 3 (Methods/emission factors)		~	~	~	~	~	~	~	~	~	~	~		
other		Table 7 (Key categories)		~	~	~	~	~	~	~	~	~	~	~		
Summary and other tables		Table 8(a) (Recalculation – recalculated data)		~	~	~	~	~	~	~	~	~	~			
Sun		Table 8(b) (Recalculation – explanatory information)		~	~	~	~	~	~	~	~	~	~			
		Table 9(a) (Completeness)		~	~	~	~	~	~	~	~	~	~	~		
		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 inf	PART III ormation relating to recalc	ulations		
Table 8(a) (Recalculated data)	\checkmark	Comments				
Recalculation reported for years	1990–2011					
Recalculated sectors/gases	Energy	Industrial processes	SOPU	Agriculture	LULUCF	Waste
CO ₂	✓	\checkmark	~		V	
CH ₄	~			✓		✓
N ₂ O	✓		~	~	✓	✓
HFCs		✓				
PFCs						
SF ₆						
Table 8(b) (Explanatory information)	~	✓	✓	V	✓	✓
Percentage difference in aggregate	e greenhouse gas	Base year estimate: ^a	With LULUCF:	0%	Without LULUCF:	0%
emission		Latest recalculated year: ^b	With LULUCF:	-0.93%	Without LULUCF:	0.22%

^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
		ions by sources and removals by sinks are clearly distinguished from emissions from categories ed in Annex A to the Kyoto Protocol	~	
6		nation on how inventory methodologies have been applied taking into account IPCC good practice ace for LULUCF ^a and decision 16/CMP.1	~	
ohs 5–	Inform	nation on geographical location of the boundaries of areas that encompass:		
ragral		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		Luxembourg did not elect any activities under Article 3, paragraph 4.
MP.1,		Land subject to elected activities under Article 3.4		
sion 15/C		nation on the spatial assessment unit for determining the area of accounting for afforestation, station and deforestation	~	
Reporting requirements under decision 15/CMP.1, annex, paragraphs 5–9	geogra	nation on GHG emissions/removals resulting from activities under Article 3.3 and 3.4, for all aphical locations reported in the current and previous years since the beginning of the commitment or the onset of the activity, whichever comes later	✓	
equiremen		nation on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic a) that are not accounted for	~	
sporting ru		nation on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out als from:		
R_{ℓ}		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)				
-9	Specific information to be reported for Article 3.3 activities:			
graphs 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	~	
nex, para		How harvesting or forest disturbance that is followed by the re-establishment of forest is distinguished from deforestation	~	
CMP.1, an		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:			
Reporting requirements under decision 15/CMP.1, annex, paragraphs		Activities under Article 3.4 that occurred since 1 January 1990 and are human induced		Luxembourg did not elect any activities under Article 3, paragraph 4.
		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		
ng require		Emissions/removals from Article 3.4 activities that are not accounted for under activities under Article 3.3		
Reporti		Forest management: information on the extent to which GHG removals by sinks offsets the debit incurred under Article 3.3		