



Framework Convention on Climate Change Distr.: General 5 June 2013

English only

Annual status report of the annual inventory of Liechtenstein

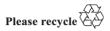
1. This status report was prepared by the expert review team as part of the initial check of the annual inventory submitted in accordance with decision 15/CMP.1. It reflects the content of the inventory submission of 2013 as originally submitted by the Party.

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 re	eceipt	Date of res	ubmission	Comments					
	NIR	15 Apri	1 2013								
	CRF tables ^a	15 Apri	1 2013								
tion	Additional information ^b	15 Apri	12013			The Party sul information f SIAR_Repor	iles al t_R-2	long wit _2012-l	th the N LI.xls		
orma						SIAR_Repor	_	_			
ıl infe						SIAR_Repor	t_R-4	_2012-1	LI.xls a	nd	
General information						SIAR_Repor	t_R-5	_2012-1	LI.xls.		
	CRF provided for years	1990–2	011								
	Base year or period ^c	1990	Base ye	ear for HF	FCs, PFCs	s and $\mathrm{SF_6}^d$	1990	1			
	Gases covered	CO ₂	CH ₄	N ₂ O	HFCs	PFCs	SF_6	NO _X	CO	NMVOCs	SO_2
		~	~	~	~	✓	~	~	~	✓	~
NIR	Description	UNFC	CC repor	ting guide	elines ^e on	neral, follows annual inven laborated with	tories	followi	ng inco	ed in the updat prporation of the of the NIR.	red he
	Language of NIR	English									
	Missing source category l cent for categories include to the Kyoto Protocol			No miss	sing sourc	e category la	rger 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 2013		NIR page 205, chapter 11
information	KP-LULUCF CRF ^b	15 April 2013		CRF provided for years: 2008–2011
supplementary i	Information on Kyoto units (ERUs, CERs, RMUs and AAUs) ^c	15 April 2013		NIR page 219, chapter 12
	SEF ^d with Kyoto units	15 April 2013		
Reporting of	Change in national system ^e	15 April 2013		NIR page 222, chapter 13
Repor	Change in national registry ^e	15 April 2013		NIR page 223, chapter 14
	Minimization of adverse impacts ^e	15 April 2013		NIR page 228, 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

11. ^e The requirements for Parties to report on changes in national systems in accordance with Article 5, paragraph 1, changes in ^e The requirements for Parties to report on changes in national systems in accordance with Article 3, paragraph 14, are set out in sections I.F, I.G 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	ı of info	rmation for	the lates	t reporte	PAR ¹ d inve		ar in tl	he commo	on rep	orting format: 2011			
	Energy		Industrial p		SOPU		Agricult		LULUC	_	KP-LULUCF ^a		Waste	2
Sectoral report	1	✓	2(I)	~	3	√	4	√	5	~	5(KP)	~	6	ì
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	✓			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.	~		
	Bunkers	separate	ely 🗸					-	5 (II)	~	5(KP-I)B.3.	~		
									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	Summar	ry 1.A	\checkmark	Summ	ary 1.B		~			Sum	mary 2	•	,	~
Other tables	Summar	ry 3	✓	Table ′	7 (Key cat	tegorie	es) 🗸			Tabl	e 9(a) (Completeness)	,	~
	Table 10) (Trends	5) 🗸							Tabl	e 9(b) (Completeness)		

^{*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 (the latest	t reported	PAR inventory		ommon rep	orting fo	rmat: 2011 (d	continued))	
tls		CO ₂ ✓	CH4 ,		-		HFCs ✓	0	PFCs 🖌		<i>F</i> ₆ <i>V</i>	/
Totals	Provided for years	1990–2011	1990–2	2011	1990–	-2011	1990–2011		1998–2011	1	996–2	2011
		Reference appr	oach S	Sectoral a	pproach	Difference m	ore than 2 p	per cent	If difference	e is more t	han 2	per cent
CO_2	Comparison of CO ₂ from fuel combustion	✓	,	✓					Explanatior provided	n		
6					HFCs		PFCs		1	SF_6		
C_S, SF_δ	Disaggregation by sp	pecies			~		~					
HFCs, PFCs,	Reporting of actual a				Actual	Potential	Actual	Potenti	ial	Actual	I	Potential
HFO	estimates in the categ and SF ₆	ory consumption	n of halc	ocarbons	~	✓	✓	~		~	,	 Image: A start of the start of
tion 's	Used in	Summary table	1.A	~	Sectoral	report tables	~	Sector	al backgroun	ıd data tal	oles	~
Notation keys	Comments			1							1	

6

																PART II	
				1						Prov	ision	of c	omn	ion i	epor	ting format tables for y	/ears reported
				Years	1		T		1						T		
				Base year ^a	0661	1995	2000	2004	2005	2006	2007	2008	2009	2010	2011	Information gaps relating to reporting ^b	Comments
	Sect	oral report: ta	ible 1		~	~	✓	✓	~	✓	~	~	~	~	~		
		Table 1.A(a)			~	~	~	~	~	~	~	~	~	~	~		
		Table 1.A(b))		~	~	~	~	~	~	~	~	~	~	~		
		Table 1.A(c)			~	~	✓	~	~	~	~	~	~	~	~		
Energy	SBDT	Table 1.A(d))		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation key NO is used.
		Table 1.B.1			~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation keys NO, NA are used.
		Table 1.B.2			~	~	✓	~	~	~	~	~	~	~	~		
		Table 1.C			~	~	~	~	~	~	~	~	~	~	~		
	Sect	oral	Table 2(I)		~	~	~	~	~	~	~	~	~	~	~		
	repo	rts:	Table 2(II)		~	~	~	~	~	~	~	~	~	~	~		
səssə		Table 2(I).A-	–G		~	~	✓	✓	~	✓	~	~	~	~	✓		
Industrial processes		Table 2(II).C	2		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation key NO is used.
Indu	SBDT	Table 2(II).E	2		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for 1990–2011. For 2008–2011, the notation keys NO, NA are used. For 1990–2007, the notation key NO is used.
		Table 2(II).F			~	~	~	~	~	~	~	~	~	~	~		

															PART II	
			r					P	rovis	sion	of co	mmo	n rep	orti	ng format tables for ye	ears 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		~	~	~	~	~	~	~	~	~	~	~	~	The cell for reporting CH ₄ emissions from manure management of other livestock is blank.
		Table 4.A		~	~	~	~	~	~	~	~	~	~	~		
		Table 4.B(a)		~	~	~	~	~	~	~	~	~	~	~		
ə.		Table 4.B(b)		~	~	~	~	~	~	~	~	~	~	~		
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.
	SE	Table 4.D		~	~	✓	~	~	~	~	~	~	~	~		
		Table 4.E		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation key NA is used.
		Table 4.F		~	~	~	~	~	~	~	√	~	~	~		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation keys NA, NO, NE are used.

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															PART II	
			•					Р	rovi	sion	of co	nmo	n rej	porti	ng format tables for ye	ears reported (continued)
			Years													
			Base year ^a	0661	1995	2000	2004	2005	2006	2007	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		~	✓	~	~	~	~	~	~	~	~	~		
		Table 5.E		~	~	~	~	~	~	~	~	~	~	~		
CF		Table 5.F		~	~	~	~	~	~	~	~	~	~	~		
LULUCF	SBDT	Table 5 (I)		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation keys NO, NA are used.
		Table 5 (II)		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation keys NA, NO are used.
		Table 5 (III)		~	~	~	~	~	~	~	~	~	~	~		
		Table 5 (IV)		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation keys NO, NA are used.
		Table 5 (V)		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for 1990–2011. For 1990–2011, the notation key NO is used.

														I	PART II	
			1				Pr	ovisi	on of	f con	nmor	ı rep	orti	ng foi	mat tables for years	reported (continued)
			Years					1								
			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 NO is used.
		Table 5 (KP-I) A.1.3									~	~	~	~		No numerical data are reported in this table for 2008–2011. For these years the notation key NA is used.
		Table 5 (KP-I) A.2									~	~	√	~		
		Table 5 (KP-I) A.2.1									~	~	✓	~		No numerical data are reported in this table for 2010–2011. For these years the notation key NO is used.
UCF		Table 5 (KP-I) B.1									~	~	✓	~		No numerical data are reported in this table for 2008–2011. For these years the notation key NA is used.
KP-LULUCF	SBDT	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.
		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									~	~	~	~		No numerical data are reported in this table for 2008–2011. For these years the notation keys NO, NA are used.
		Table 5 (KP-II) 2									~	~	~	~		No numerical data are reported in this table for 2008–2011. For these years the notation key NA is used.
		Table 5 (KP-II) 3									~	~	~	~		No numerical data are reported in this table for 2008–2011. For these years the notation keys NO, NA are used.

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						Pr	ovisi	on of	com	mon	rep	ortin		PART II mat tables for years	reported (continued)
		Years													
		Base year ^a	0661	1995	2000	2004	2005	2006	2007	2008	2009	2010		Information gaps relating to reporting ^b	Comments
	Table 5 (KP-II) 4									~	~	~	~		No numerical data are reported in this table for 2008–2011. For these years the notation keys NO, NA are used.
	Table 5 (KP-II) 5									~	~	~	~		No numerical data are reported in this table for 2008–2011. For these years the notation keys NO, NA are used.
А	accounting table									✓	✓	✓	~		

							Prov	ision	ofco	omm	on re	eport			RT II at tables for years repo	orted (continued)
			Years									-				
			Base year ^a	1990	1995	2000	2004	2005	2006	2007	2008	2009	2010	2011	Information gaps relating to reporting ^b	Comments
	Sect	oral report: Table 6		~	~	~	~	~	~	~	~	~	~	~		
ste		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		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)	İ	~	~	~	~	~	~	~	~	~	~	~		
		Table 9(b) (Completeness)	İ							Ť.						
		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 ormation relating to recalc	ulations		
Table 8(a) (Recalculated data)	~	Comments				
Recalculation reported for years	1990–2010					
Recalculated sectors/gases	Energy	Industrial processes	SOPU	Agriculture	LULUCF	Waste
CO ₂	✓		✓		V	~
CH ₄	✓			×		~
N ₂ O	√		~	\checkmark	✓	✓
HFCs		✓				
PFCs						
SF ₆						
Table 8(b) (Explanatory information)	×	Ý	✓	✓	✓	✓
Percentage difference in aggregat	e greenhouse gas	Base year estimate: ^a	With LULUCF:	-0.7 %	Without LULUCF:	-0.14 %
emissions		Latest recalculated year: ^b	With LULUCF:	-0.09 %	Without LULUCF:	0.41 %

^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, pa	aragraphs 3 and 4
			Provided	Observation
		ons by sources and removals by sinks are clearly distinguished from emissions from categories ed in Annex A to the Kyoto Protocol	~	
6		ation on how inventory methodologies have been applied taking into account IPCC good practice ce for LULUCF ^{<i>a</i>} and decision 16/CMP.1	~	
ohs 5–	Inform	ation on the geographical location of the boundaries of areas that encompass:		
ragraț		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		Liechtenstein did not elect any activity under Article 3,
MP.I,		Land subject to elected activities under Article 3.4		paragraph 4.
sion 15/Cı		ation on the spatial assessment unit for determining the area of accounting for afforestation, tation and deforestation	~	
Reporting requirements under decision 15/CMP.1, annex, paragraphs 5–9	geogra	ation on GHG emissions/removals resulting from activities under Article 3.3 and 3.4 for all phical locations reported in the current and previous years since the beginning of the commitment or the onset of the activity, whichever comes later	✓	
equiremen		ation on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic) that are not accounted for	~	
eporting r		ation on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out als from:		
R_{t}		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:		
	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		Liechtenstein did not elect any activity under Article 3, paragraph 4.
keporting requirements under decision 15/CMP.1, annex, paragraphs	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		
	Emissions/removals from Article 3.4 activities that are not accounted for under activities under Article 3.3		
	Forest management: information on the extent to which GHG removals by sinks offsets the debit incurred under Article 3.3		