



COMPLIANCE COMMITTEE

CC/ERT/ASR/2014/18 18 June 2014

Annual status report of the annual inventory of Liechtenstein

Note by the secretariat

The annual status report of the annual inventory of Liechtenstein was published on 12 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/LIE, 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.





Distr.: General 12 June 2014

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 2014 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

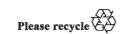
HFCs: hydrofluorocarbons PFCs: perfluorocarbons SF₆: sulphur hexafluoride NO_X: nitrogen oxides CO: carbon monoxide

NMVOCs: non-methane volatile organic

compounds SO₂: sulphur dioxide

GE.14-05326 (E)







		(GREENH	OUSE GA	S INVENT	ORY SUBMISS	SION				
		Date of re	eceipt	Date of re	submission	Comments					
	NIR	15 Apri	1 2014								
	CRF tables ^a	15 Apri	1 2014								
General information	Additional information ^b	15 Apri	1 2014			v5 2- v6.1.7. EU, ch_14_a Ch_14_adde Confidential CSEUR Cha diagram, SIA	_mod 1 REI addend addend ity Ag inges (AR_Re rt_R-3	el_2014 PORT-v dum, Ch _A2, ch greemen Chp 14 eport_R 3_2013-	3 00, A n_14_ad nap-14 - nt ETS \$ 2103 - -2_201 LI, SIA	R_Report_R-	esults 2014, tuses
	CRF provided for years	1990–2	012								
	Base year or period ^c	1990	Base y	ear for H	FCs, PFC	s and SF_6^d	1990)			
	Gases covered	CO_2	CH ₄	N_2O	HFCs	PFCs	SF ₆	NO_X	CO	NMVOCs	SO_2
		√	~	✓	✓	✓	√	✓	✓	✓	✓
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.											
	Language of NIR	English									
RF	Missing source category l cent for categories include to the Kyoto Protocol	larger th ed in Ar	an 7 per inex A	No mis	sing sourc	ce category la	rger t	han 7 pe	er cent	has been iden	tified.

- ^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		NIR, page 223, chapter 11.
information	KP-LULUCF CRF ^b	15 April 2014		CRF provided for years: 2008–2012
supplementary	Information on Kyoto units (ERUs, CERs, RMUs and AAUs) ^c	15 April 2014		NIR, page 237, chapter 12.
	SEF ^d with Kyoto Protocol units	15 April 2014		
Reporting of	Change in national system ^e	15 April 2014		NIR, page 241, chapter 13.
Repor	Change in national registry ^e	15 April 2014		NIR, page 242, chapter 14.
	Minimization of adverse impacts ^e	15 April 2014		NIR, page 247, 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	n of info	mation for t	he latest		PAR'		ar in tl	he commo	on repo	orting format: 2012			
		Energy		Industrial pro	cesses	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)	V	2(II).E	√			4.B(b)	✓	5.C	✓	5(KP-I)A.1.3	✓	6.C	✓
		1.A(d)	✓	2(II).F	✓	1		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.	✓		
les		Bunkers	separate	ely 🗸						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	✓		
												5(KP-II)3	✓		
												5(KP-II)4	√		
												5(KP-II)5	✓		
												Accounting table	✓		
	Summary tables	Summai	y 1.A	✓	Summa	ry 1.B		✓			Sum	mary 2		,	/
	Other tables	Summai	ry 3	✓	Table 7	(Key cate	gorie	es) 🗸			Tabl	e 9(a) (Completeness))	,	/
		Table 10	(Trends	(a) 🗸				ı			Tabl	e 9(b) (Completeness))		
	Comments			•	•										

^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.

					PAI	RTI						
	Provision of i	nformation for	the lates	t reported	inventory	y year in the c	ommon rep	orting fo	rmat: 2012 (continued	l)	
Totals	Provided for gases	CO₂ ✓	CH ₄	√	N_2O	✓	HFCs 🗸		PFCs 🗸	i.	SF_6	
Tot	Provided for years	1990–2012	1990–	2012	1990–	-2012	1990–2012		1991–2012		1996–	2012
		Reference appr	oach	Sectoral a	pproach	Difference m	ore than 2 p	er cent	If differenc	e is more	than 2	? per cent
CO ₂	Comparison of CO ₂ from fuel combustion	√		✓					Explanation provided	n		
SF_{δ}					HFCs		PFCs			SF_6		
	Disaggregation by sp	pecies			✓		~					
HFCs, PFCs,	Reporting of actual a	-			Actual	Potential	Actual	Potent	ial	Actual		Potential
HF	estimates in the categ and SF ₆	ory consumptio	n of hale	ocarbons	✓	✓	√	✓		✓		✓
tion vs	Used in	Summary table	1.A	~	Sectoral	report tables	~	Sector	al backgrou	nd data ta	bles	√
Notation keys	Comments				•		•	•				

																PART II	
				1						Prov	ision	of c	omn	ion r	epor	ting format tables for y	rears reported
				Years	1		1	1	1	1	1	1	1	1	1		
				Base year ^a	0661	1995	2000	2005	2006	2002	2008	2009	2010	2011	2012	Information gaps relating to reporting ^b	Comments
	Sect	oral report: ta	ble 1		✓	✓	✓	✓	√	✓	✓	√	✓	✓	✓		
		Table 1.A(a)			✓	✓	√	√	✓	√	√	V	✓	✓	√		
		Table 1.A(b)			✓	√	√	√	✓	√	√	~	✓	✓	V		
		Table 1.A(c)			✓	√	√	√	√	√	√	✓	✓	✓	✓		
Energy	SBDT	Table 1.A(d)			✓	✓	✓	✓	✓	✓	✓	✓	√	✓	✓		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.1		√	✓	✓	✓	✓	✓	✓	✓	√	√	✓		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 1.B.2				✓	✓	√	✓	√	√	√	✓	✓	✓	✓		
		Table 1.C			✓	√	√	√	√	√	✓	✓	✓	✓	✓		
	Sect		Table 2(I)		✓	✓	√	√	√	√	✓	✓	✓	✓	✓		
	repo		Table 2(II)		✓	√	√	√	√	√	✓	✓	✓	✓	✓		
sses		Table 2(I).A-	-G		√	✓	√	√	√	√	✓	V	✓	✓	√		
Industrial processes		Table 2(II).C			√	✓	✓	✓	√	✓	√	✓	√	✓	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation key NO is used.
Indust	SBD1	Table 2(II).E			✓	√	✓	✓	✓	✓	√	√	✓	✓	✓		No numerical data are reported in this table for the years 1990–2012. For the years 1990–2007 the notation key NO is used. For the years 2008–2012 the notation keys NO and NA are used.
		Table 2(II).F			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

								р	rovis	sion (of co	mmo	n ron	orti	PART II	ears reported (continued)
			Years						TOVE	51011	or cor		птер	or u	iig format tables for ye	zars reported (communed)
			Base year ^a	0661	1995	2000	2005	2006	2007	2008	2009	2010	2011	2012	Information gaps relating to reporting ^b	Comments
U	Secto	oral report: Table 3		✓	✓	√	✓	√	✓		✓	~	√	✓		
SOPU	SBDT	Table 3.A–D		√	√	V	✓	✓	✓	✓	✓	√	✓	✓		
	Secto	oral report: Table 4		✓	✓	√	✓	✓	√	√	√	V	V	✓		
		Table 4.A		✓	✓	√	✓	✓	✓	√	√	~	√	✓		
	,	Table 4.B(a)		✓	✓	✓	√	✓	✓	V	✓	V	V	✓		
	,	Table 4.B(b)		√	✓	✓	~	V	✓	✓	V	V	V	√		
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.
Ą	SE	Table 4.D		√	✓	✓	√	✓	√	✓	✓	✓	V	✓		
		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		√	√	V	√	✓	√	✓	✓	✓	√	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation keys NA, NO and NE are used.

											e ac-			a4*	PART II	one non-artial (continued)
			1					r	rovis	sion (or cor	mmo	n rep	oru	ng format tables for ye	ears reported (continued)
			Years													
			Base year ^a	0661	2661	2000	2005	2006	2007	2008	5000	2010	2011	2012	Information gaps relating to reporting ^b	Comments
	Secto	oral report: Table 5		✓	✓			✓	✓	✓	✓	√		✓		
		Table 5.A		✓	✓	✓	√	√	√	✓	√	√	✓	✓		
		Table 5.B		√	✓	√	√	✓	V	√	√	V	✓	✓		
		Table 5.C		✓	✓	✓	√	√	V	✓	√	✓	✓	✓		
		Table 5.D		√	√	√	✓	✓	V	✓	√	V	✓	✓		
Ĺr.		Table 5.E		✓	✓	✓	√	√	V	✓	√	✓	✓	✓		
LULUCF	JT	Table 5.F		✓	✓	✓	√	√	V	✓	√	✓	✓	✓		
77	SBDT	Table 5 (I)		√	✓	√	√	✓	V	√	√	V	✓	✓		No numerical data are reported in this table for the years 1990–2012. For these years
		Table 5 (II)		✓	✓	✓	√	✓	V	✓	√	✓	✓	✓		the notation keys NO and NA are used.
		Table 5 (III)		✓	✓	✓	√	✓	V	✓	√	✓	✓	✓		
		Table 5 (IV)		✓	✓	✓	✓	V	✓	✓	✓	✓	✓	✓		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 5 (V)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation key NO is used.

							Pr	ovisi	on of	con	ımor	rep	ortin		PART II mat tables for years re	eported (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 5 (KP)								✓	V	√	√	✓		
		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								✓	√	√	✓	✓		
		Table 5 (KP-I) A.2.1								✓	✓	✓	√	✓		No numerical data are reported in this table for the years 2010–2012. For these years the notation key NO is used.
F		Table 5 (KP-I) B.1								✓	√	√	✓	✓		
KP-LULUCF	SBDT	Table 5 (KP-I) B.2								✓	✓	√	✓	✓		No numerical data are reported in this table for the years 2008–2012. For these
KP-L		Table 5 (KP-I) B.3								✓	√	√	✓	√		years the notation key NA is used.
		Table 5 (KP-I) B.4								✓	✓	√	✓	√		
		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								✓	√	√	✓	√		
		Table 5 (KP-II) 4								✓	√	√	✓	√		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) 5								✓	✓	✓	✓	~		1
	Acc	ounting table								✓	✓	✓	√	✓		

							Prov	ision	of co	omm	on re	port			RT II at tables for years repor	rted (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		✓	✓	✓	√	✓	✓	✓	✓	✓	✓	√		
ste		Table 6.A		√	✓	V	V	✓	✓	√	✓	✓	√	✓		
Waste	SBDT	Table 6.B		√	✓	V	V	✓	✓	√	✓	✓	√	✓		
		Table 6.C		√	✓	✓	✓	✓	✓	√	√	✓	✓	✓		
		Summary 1.A		√	✓	√	√	✓	✓	V	√	√	√	✓		
		Summary 1.B		√	✓	✓	✓	✓	✓	√	V	✓	√	✓		
		Summary 2 (CO ₂ equivalent emissions)		✓	V	✓	✓	V	V	✓	√	V	√	√		
tables		Summary 3 (Methods/emission factors)		✓	√	✓	✓	√	√	✓	✓	√	✓	✓		
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)		✓	✓	✓	~	✓	✓	✓	✓	√	√	✓		

^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	1990–2011	•													
Recalculated sectors/gases	Energy	Industrial processes	SOPU	Agriculture	LULUCF	Waste									
CO ₂	√		√												
CH₄	√					√									
N_2O	√		√	✓		√									
HFCs		✓													
PFCs		✓													
SF_6															
Table 8(b) (Explanatory information)	✓	✓	✓	✓		√									
Percentage difference in aggregate	e greenhouse gas	Base year estimate: ^a	With LULUCF:	-0.99%	Without LULUCF:	-0.95%									
emission		Latest recalculated year: ^b	With LULUCF:	-2.71%	Without LULUCF:	-2.63%									

^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								
			Provided	Observation				
	Emissions by sources and removals by sinks are clearly distinguished from emissions from categories included in Annex A to the Kyoto Protocol		√					
6	Information on how inventory methodologies have been applied taking into account IPCC good practice guidance for LULUCF ^a and decision 16/CMP.1		√					
-9 sha	Information on geographical location of the boundaries of areas that encompass:							
ragrap		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 activities under Article 3, paragraph 4.				
MP.1,		Land subject to elected activities under Article 3.4		paragraph 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		✓					
equiremen	Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for		√					
eporting r	Information on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out removals from:							
Re		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)								
			Provided	Observation				
Reporting requirements under decision 15/CMP.1, annex, paragraphs 5–9	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						
		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		Liechtenstein did not elect any activities under Article 3,				
		Emissions/removals from Article 3.4 activities that are not accounted for under activities under Article 3.3		paragraph 4.				
		Forest management: information on the extent to which GHG removals by sinks offsets the debit incurred under Article 3.3						