

Annual status report of the annual inventory of Liechtenstein

1. This status report was prepared by the secretariat 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 2009 as originally submitted by the Party.

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

A: afforestation AAU: assigned amount unit CER: certified emission reduction CM: cropland management CRF: common reporting format D: deforestation ERU: emission reduction unit FM: forest management GM: grazing land management 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 R: reforestation RMU: removal unit **RV**: revegetation SBDT: sectoral background data tables SEF: standard electronic format tCER: temporary certified emission

reduction

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

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	GRE	EENHOU	SE GAS	INV	ENT	ORY SU	BMISSIC	N				
		Date of 1	receipt		Date	of resub	nission	Com	ments			
п	NIR	02 April	2009									
natio	CRF tables ^a	02 April	2009									
form	Additional information ^b											
General information	CRF provided for years	1990–20	07						_			
ener	Base year or period ^c	1990			Base	year for H	HFCs, PFC	Cs and SF	2 <mark>6d 199</mark>	90		
Ċ	Gases covered	CO ₂	CH ₄	N	$_2O$	HFCs	PFCs	SF_6	NO _X	CO	NMVOCs	SO_2
		✓	✓	1	✓	✓	✓	\checkmark	✓	✓	✓	✓
NIR	Description		nization o es ^e (decisio				ne structu	re outline	d in the r	evised U	NFCCC repo	orting
Z	Language of NIR	English										
CRF ^f	Missing source category larger than 7 per cent for categories included in Annex A to the Kyoto Protocol	No missi	ng source	cate	egory	larger tha	n 7 per ce	nt has be	en identif	ïed.		

	SUBMISSION OF	SUPPLEMENTARY	Y INFORMATION	UNDER ARTICLE 7.1	
		Date of receipt	Date of resubmission	Comments	
<u>t</u>	KP-LULUCF information ^h	02 April 2009		The information is included i annex 8 to the NIR.	n chapter 7 of and
eporting informa	KP-LULUCF CRF ⁱ	02 April 2009		CRF provided for years:	2007
a) : :	Information on Kyoto units (ERUs, CERs, RMUs and AAUs ^j)	02 April 2009			
tary enta	SEF ^k with Kyoto units	24 March 2009			
Voluntary r supplementary	Change in national system ¹	02 April 2009		Liechtenstein reports no char system in annex 10 to the NI	
lns	Change in national registry ^l				
	Minimization of adverse impacts ¹				

^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).

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)).

^g Parties are required to submit supplementary information under Article 7, paragraph 1, of the Kyoto Protocol from the 2010 submission; however, they may elect to submit this information on a voluntary basis before this submission.

^h Parties are required to include in their annual inventories 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 decision 15/CMP.1, annex, paragraphs 5-9.

ⁱ 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 are required to report these tables on a mandatory basis commencing with the 2010 submission; however, they may elect to report these tables on a voluntary basis before this submission. Parties may also elect to report these tables for the base year or 1990.

^j Parties are required to include in their annual inventory information on ERUs, CERs, ICERs, ICERs, AAUs and RMUs, in accordance with decision 15/CMP.1, annex, section E.

^k SEF for reporting Kyoto Protocol units, as adopted under decision 14/CMP.1 and required by decision 15/CMP.1, annex, paragraph 11. ¹ 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 F, G and H, respectively, of the annex to decision 15/CMP.1.

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	Provis	sion of informat	tion for th	e late	st reporte	PART I d invento		ar in	the con	ımon re	eporting	format: 2	2007		
		Energy	Industr process		Solvent a other product u	Ag	gricult	ure	LUI	LUCF	KF	P-LULUCI	⊋a	W	aste
	Sectoral report tables	1 🗸	2(I)	\checkmark	3	✓	4	✓	4	5 🗸	5	(KP)	✓	6	\checkmark
	Sectoral	1.A(a) ✓	2(II) 2(I).A-G	✓ ✓	3.A-D	✓ _	I.A	✓	5.A	√	5(V	P-I)A.1.1	✓	6.A	
	background data tables	1.A(a) ✓ 1.A(b) ✓	2(I).A-O 2(II).C	• •	5.A-D	4.B		· √	5.F	- -		IP-I)A.1.2	• •	6.B	·
		1.A(c) ✓	2(II).E	·		4.B	-	· ✓	5.0	-		IP-I)A.1.3	· ~	6.C	· •
		1.A(d) ✓	2(II).F	✓	_		4.C	✓	5.E		-	P-I)A.2	✓		
		1.B.1 ✓	~ /		1	2	I.D	✓	5.E	E 🗸	-	-I)A.2.1.	✓		
		1.B.2 ✓				4	4.E	✓	5.H	- 🗸	5(K)	P-I)B.1.	✓		
s		1.C 🗸					4.F	✓	5 (I) 🗸	5(K	P-I)B.2.	\checkmark		
Tables		Bunkers separa	ntely 🗸						5 (II) 🗸	5(K)	P-I)B.3.	~		
Τ									5 (III) 🗸	5(K)	P-I)B.4.	>		
									5 (IV) 🗸	5(K	CP-II)1	\checkmark		
									5 (V) 🗸	· ·	XP-II)2	✓		
												CP-II)3	✓		
												CP-II)4	✓ ✓	-	
											· · ·	CP-II)5 ounting	✓		
					1							able	✓		
	Summary tables	Summary 1.A		✓	Summary	1.B			✓	Summa	ry 2				✓
	Other tables	Summary 3		\checkmark	Table 7 (I	Key cate	gories))	✓	Table 9	(a) (Com	pleteness)			✓
		Table 10 (Trend	ls)	\checkmark						Table 9	(b) (Con	pleteness))		
	Comments														
Totals	Provided for gases	CO₂ ✓	С	EH4 ✓	/	N ₂ O v	(HFCs	✓	P	FCs		SF ₆	✓
To	Provided for years	1990–2007	199	90–20	07	1990–20	007		1990–2	007				1996–2	2007
2	Comparison of	Reference a	pproach		Sectoral	approac	h		Differen			If diffe	•		e than
CO2	CO ₂ from fuel combustion	✓ ×				 ✓ 			2]	per cent		Explanat		ovidec	l
s, SF6	Disaggregation b	by species				FCs ✓]	PFCs			S	F ₆	
PFC	Reporting of act	ual and/or poten	tial		Actual	Pote	ntial		Actual	Po	tential	Actua	1	Pot	ential
HFCs, PFCs, SF ₆	emission estimat halocarbons and		nption of		✓	T 01€1			/ icidai	10	untia	√ Actua	.1		✓
u	Used in	Summary table	1.A		✓ Sec	toral rep	ort tab	les		✓	Sectoral l	oackgroun	d data	a tables	5 ✓
Notation keys	Comments					ľ						J			

^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.

							Pre	ovisio	1 of co	mmor	ı repo	PAR rting f		table	s for y	ears r	eporte	ed					
				0					1	1		Years	1										
_			Base year ^a	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Information gaps relating to reporting ^b	Comments
	Se	ctoral report: Table 1		\checkmark	✓	\checkmark	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓	✓	\checkmark	\checkmark	✓	✓	✓		
		Table 1.A(a)		\checkmark	✓	\checkmark	✓	✓	✓	✓	\checkmark	\checkmark	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓		
		Table 1.A(b)		✓	✓	✓	~	~	✓	✓	✓	✓	✓	✓	~	~	✓	~	✓	~	✓	✓	
		Table 1.A(c)		\checkmark	✓	\checkmark	✓	✓	✓	✓	\checkmark	\checkmark	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓		
Energy	SBDT	Table 1.A(d)		✓	~	✓	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table, but notation key NO is used.
E	SB	Table 1.B.1		~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table, but notation keys NO, NA are used.
		Table 1.B.2		✓	~	✓	✓	~	✓	✓	✓	✓	✓	✓	~	✓	\checkmark	✓	✓	✓	✓		
		Table 1.C		~	~	~	✓	✓	✓	✓	✓	~	✓	~	~	✓	~	~	~	✓	✓		
		Table 2(I)		\checkmark	✓	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	✓	✓	✓	✓	✓	\checkmark	✓	✓	\checkmark	✓		
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roce		Table 2(I).A–G		\checkmark	✓	\checkmark	✓	✓	✓	✓	\checkmark	\checkmark	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓		
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	Se	ctoral report: Table 4		\checkmark	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\checkmark	\checkmark	✓	✓	✓	\checkmark	✓		
		Table 4.A		✓	✓	✓	✓	\checkmark	✓	✓	✓	✓	✓	✓	✓	\checkmark	✓	\checkmark	✓	~	✓		
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		Table 4.B(b)		\checkmark	✓	✓	✓	\checkmark	✓	✓	✓	✓	✓	\checkmark	\checkmark	\checkmark	✓	\checkmark	\checkmark	\checkmark	\checkmark		
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gri	SBDT	Table 4.D		\checkmark	✓	✓	✓	✓	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓	✓	~	✓	✓		
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		Table 4.F		~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table, but notation keys NA, NO, NE are used.
	Se	ctoral report: Table 5		\checkmark	✓	✓	✓	\checkmark	✓	✓	✓	✓	✓	✓	✓	\checkmark	\checkmark	✓	✓	\checkmark	✓		
		Table 5.A		\checkmark	✓	✓	✓	\checkmark	✓	✓	✓	✓	✓	✓	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	✓		
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Γſ	SB			~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		reported in these tables, but notation key NO is used.
		Table 5 (III)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓	✓	✓	✓		
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		Table 5 (V)		~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		reported in these tables, but notation key NO is used.

			_			Pro	ovisio	1 of co	mmor	ı repoi	rting f	PAR ormat	T II tables	s for y	ears r	eporte	ed (con	ntinueo	d)			-	
						-						Years					-						
			Base year ^a	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	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, but for 2007 notation key NO is used.
		Table 5 (KP-I) A.1.3																			\checkmark		
		Table 5 (KP-I) A.2																			\checkmark		
ల		Table 5 (KP-I) A.2.1																			✓		
JCF		Table 5 (KP-I) B.1																			✓		No numerical data are
JLI	SBDT	Table 5 (KP-I) B.2																			✓		reported in these tables, but for 2007 notation key
KP-LULUCF ⁶	IS	Table 5 (KP-I) B.3																			\checkmark		NA is used.
KI		Table 5 (KP-I) B.4																			✓		
		Table 5 (KP-II) 1																			✓	\checkmark	No numerical data are
		Table 5 (KP-II) 2																			✓		reported in these tables,
		Table 5 (KP-II) 3																			\checkmark		but for 2007 notation key NO is used.
		Table 5 (KP-II) 4																			\checkmark	\checkmark	No numerical data are
		Table 5 (KP-II) 5																			~		reported in these tables, but for 2007 notation keys NO, NA are used.
	Ac	counting table																			✓		• • •

| Table 6 | Base
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Table 6			

 | 1997 | 1998
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gaps relating
to reporting ^b | Comments |
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		Provision of	PART III of information relating to a	recalculations		
Table 8(a) (Recalculated data)	\checkmark	Comments				
Recalculation reported for years	1990–2006					
Recalculated sectors/gases	Energy	Industrial processes	Solvent and other product use	Agriculture	LULUCF	Waste
CO ₂	\checkmark		\checkmark		√	✓
CH ₄	✓			✓		✓
N ₂ O	\checkmark		\checkmark	✓		✓
HFCs		✓				
PFCs						
SF ₆						
Table 8(b) (Explanatory information)						
Percentage difference in aggrega	ate greenhouse gas	base year estimate: ^a	with LULUCF:	0.01 %	without LULUCF:	0.01 %
emission		latest recalculated year:b	with LULUCF:	-0.02 %	without LULUCF:	-0.02 %

^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.

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	Provided	Comments
Emissions by sources and removals by sinks are clearly distinguished from emissions from categories included in Annex A to the Kyoto Protocol.	\checkmark	
Information on how inventory methodologies have been applied taking into account IPCC good practice guidance for LULUCF ^b and decision 16/CMP.1.	~	
Information 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		Liechtenstein has not elected an activities under Article 3,
Land subject to elected activities under Article 3.4		paragraph 4.
Information on the spatial assessment unit for determining the area of accounting for afforestation, reforestation and deforestation.	\checkmark	
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		Liechtenstein has reported A, F and D only for 2007.
comes later.		and D only for 2007.
comes later. Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for.	✓	
Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for. Information on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out removals from:	✓	
Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for. Information on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out removals from: Elevated CO2 concentrations above pre-industrial levels	✓ 	
Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for. Information on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out removals from: Elevated CO2 concentrations above pre-industrial levels Indirect nitrogen deposition	✓ 	
Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for. Information on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out removals from: Elevated CO2 concentrations above pre-industrial levels Indirect nitrogen deposition The dynamic effects of age structure resulting from activities prior to 1 January 1990	✓ 	
Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for. Information on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out removals from: Elevated CO2 concentrations above pre-industrial levels Indirect nitrogen deposition The dynamic effects of age structure resulting from activities prior to 1 January 1990 Specific information to be reported for Article 3.3 activities:	✓ ✓	
Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for. Information on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out removals from: Elevated CO2 concentrations above pre-industrial levels Indirect nitrogen deposition The dynamic effects of age structure resulting from activities prior to 1 January 1990 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	✓ 	
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Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for. Information on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out removals from: Elevated CO2 concentrations above pre-industrial levels Indirect nitrogen deposition The dynamic effects of age structure resulting from activities prior to 1 January 1990 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 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		Liechtenstein has not elected an

^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. Parties are required to report these tables on a mandatory basis commencing with the 2010 submission; however, they may elect to report these tables on a voluntary basis before this submission. Parties may also elect to report these tables for the base year or 1990. ^b The Intergovernmental Panel on Climate Change *Good Practice Guidance for Land Use, Land-Use Change and Forestry*.

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