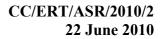




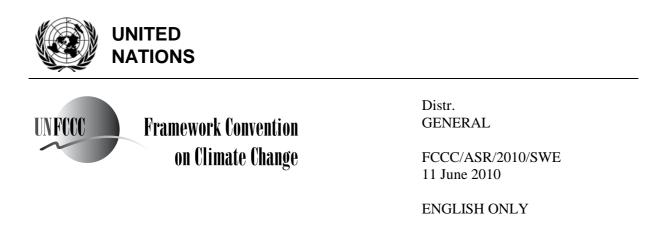
COMPLIANCE COMMITTEE



Annual status report of the annual inventory of Sweden

Note by the secretariat

The annual status report of the annual inventory of Sweden was published on 11 June 2010. 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 decision 4/CMP.4), the report is considered received by the secretariat on the same date. This report, FCCC/ASR/2010/SWE, 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.



Annual status report of the annual inventory of Sweden

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 2010 as originally submitted by the Party, and of the resubmission received by the secretariat by 27 May 2010.

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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	GR	EENHOU	JSE GAS I	INVE	NTO	RY SUB	BMISSIO	N					
		Date of 1	receipt		Date	e of resu	bmission	I	Comme	ents			
	NIR	14 April	2010										
	CRF tables ^a	14 April	2010										
General information	Additional information ^b	14 April	2010						Emissic SE_App for Key SE_App for Key SE_Ma	on fac pendi Sour pendi Cate jor cl	ctors ene ix 20B E rce Anal ix 21A S egories 1	ermal values rgy UNFCC ackground t ysis 1990-20 ummary Ov 990-2008.xL n methodolog loc	C.xls; ables 08.xls; erview s;
6	CRF provided for years	1990–20	08		-								
	Base year or period ^c	1990		В	ase y	e year for HFCs, PFCs and SF ₆ ^d 1995							
	Gases covered	CO ₂	CH_4	N_2C	С	HFCs	PFCs	SF_6	NO) _x	CO	NMVOCs	SO ₂
		✓	✓	✓		✓	✓	✓	~	/	✓	✓	✓
NIR	Description	reporting decision including	guidelines 14/CP.11,	^e on ai elabor elemei	nnual ated nts u	l invento with the nder the	ries follov "Annota	wing ir ted out	corpora line of t	tion he N	of the pr ational I	updated UN ovisions of nventory Re apters have b	port
	Language of NIR	English											
CRF	Missing source category larger than 7 per cent for categories included in Annex A to the Kyoto Protocol	No missing source category larger than 7 per cent has been identified.											

	SUBMISSION OF SUPPLEMENTARY INFORMATION UNDER ARTICLE 7.1												
		Date of receipt	Date of resubmission	Comments									
tary	KP-LULUCF information ^g	14 April 2010		NIR page 227, chapter	7.8								
supplementary mation	KP-LULUCF CRF ^h	14 April 2010		CRF provided for years:	2008								
	Information on Kyoto units (ERUs, CERs, RMUs and AAUs ⁱ)	14 April 2010		NIR, Annexes, page 99	9, Annex 6:5								
ng of infor	SEF ^j with Kyoto units	14 April 2010	14 May 2010		-								
Reporting	Change in national system ^k	14 April 2010		NIR, Annexes, page 83	3, Annex 6:1								
Rep	Change in national registry ^k	14 April 2010		NIR, Annexes, page 94	4, Annex 6:3								
	Minimization of adverse impacts ^k	14 April 2010		NIR, Annexes, page 10	IR, Annexes, page 107, Annex 6:9								

^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).

^g 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.

^h 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.

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

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.

^k 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.

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)).

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	Provis	sion of informat	ion for the	lates		PART I inventory	year	in the co	mmon	reporting	format: 20	008		
		Energy	Industri process		Solvent ar other product us	Agri	culture	e LU	JLUCF	KI	P-LULUCF ^a		Waste	
	Sectoral report tables	1 🗸	2(I)	✓	3 🗸	<	 ✓ 		5 🗸	5(KP)	 Image: A second s	6 🗸	
	tables		2(II)	✓										
	Sectoral background	1.A(a) 🗸	2(I).A-G	✓	3.A–D •	4.A	. ✓	5.	A 🗸	5(KI	P-I)A.1.1	✓ 6.4	A ✓	
	data tables	1.A(b) 🗸	2(II).C	\checkmark		4.B(a) √	5.	в 🗸	5(KI	P-I)A.1.2	✓ 6.1	3 ✓	
		1.A(c) 🗸	2(II).E	✓		4.B(b) 🗸	5.	c ✓	5(KI	P-I)A.1.3	✓ 6.0	C 🗸	
		1.A(d) 🗸	2(II).F	✓		4.0	· 🗸	5.	D 🗸	+ (1): 1.2	✓		
		1.B.1 🗸				4.E	√ √	5	E 🗸		XP-I) .2.1.	~		
		1.B.2 ✓				4.I	e 🗸	5	.F 🗸			✓		
		1.C 🗸				4.I	a ✓	5 ((I) 🗸	5(KF	P-I)B.2.	\checkmark		
Tables		Bunkers separa	tely 🗸					5 (1	I) 🗸	5(KF	P-I)B.3.	\checkmark		
Ë								5 (I	I) 🗸	5(KF	P-I)B.4.	✓		
								5 (Г	<i>V</i>) ✓	5(K	P-II)1	✓		
								5 (<i>V</i>) √	5(K	P-II)2	✓		
										5(K	P-II)3	✓		
										5(K	P-II)4	✓		
											/-	✓		
											ounting ble	~		
	Summary tables	Summary 1.A		✓	Summary	1.B		~	Summ	ary 2			✓	
	Other tables	Summary 3		\checkmark	Table 7 (K	ey catego	ries)		Table	9(a) (Com	pleteness)		✓	
		Table 10 (Trend	s)	✓					Table	9(b) (Con	pleteness)			
	Comments													
s	Provided for	CO₂ ✓	C	H₄ ✓		N ₂ O ✓		HFCs	✓	PF	Cs ✓	S	F ₆ ✓	
Totals	gases Provided for													
	years	1990–2008	199	0–200	1 8	990–2008	5	1990–	2008	1990)-2008	199	0–2008	
$\mathbf{)}_2$	Comparison of CO ₂ from fuel	Reference ap	proach		Sectoral a	pproach			nce mo per cer			ence is n 2 per cer	nore than	
CO_2	CO_2 from fuel combustion	✓			~	/		2	√ v		Explanatio			
F_6	Disaggregation b	by species			HF	Cs			PFCs			SF ₆		
Cs, S					~				✓					
PF(ual and/or potent			Actual	Potenti	al	Actual	Р	otential	Actual		Potential	
HFCs, PFCs, SF ₆	emission estimat consumption of I	es in the categor halocarbons and			✓	✓		~		✓	✓ Actual		✓	
	Used in	Summary table	1 A		✓ Secto	oral report	tables							
Notation keys	Comments	Summary table			, see		autos			Sceloral	Juen Bround	Jula la	105	
Not														
										LILLO				

^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.

							Р	rovisio	n of ca	ommon		PART ting fo		ables fo	or year	's reported	
					Years												
				Base year ^a	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	Information gaps relating to reporting ^b	Comments
	Sec	toral report: Ta	able 1		\checkmark	~	✓	✓	✓	✓	✓	✓	\checkmark	✓	✓		
		Table 1.A(a)			\checkmark	✓	\checkmark	\checkmark	\checkmark	\checkmark	✓	✓	\checkmark	\checkmark	\checkmark		
		Table 1.A(b)			\checkmark	✓	\checkmark	\checkmark	\checkmark	\checkmark	✓	✓	\checkmark	✓	✓	✓	
Energy	_	Table 1.A(c)			✓	~	✓	✓	✓	✓	~	✓	✓	~	~		
Ene		Table 1.A(d)			\checkmark	✓	\checkmark	✓	✓	\checkmark	✓	✓	✓	✓	✓		
	\mathbf{S}	Table 1.B.1			\checkmark	✓	\checkmark	\checkmark	\checkmark	\checkmark	✓	✓	✓	\checkmark	\checkmark		
		Table 1.B.2			\checkmark	✓	\checkmark	\checkmark	\checkmark	\checkmark	✓	✓	\checkmark	✓	✓	✓	
		Table 1.C			✓	~	~	✓	✓	~	✓	✓	✓	~	~		
			Table 2(I)		\checkmark	\checkmark	\checkmark	\checkmark									
sses	See	toral reports:	Table 2(II)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
oce		Table 2(I).A–G			\checkmark	✓	\checkmark	\checkmark	✓	\checkmark	✓	✓	✓	✓	\checkmark		
l pr		Table 2(II).C			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Industrial processes	SBDT	Table 2(II).E			~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for the year 2008. For this year the notation keys NO, NA are used and for the years 1990–2007 the notation key NO is used.
Γ		Table 2(II).F			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	See	toral report: Ta	able 3		\checkmark	✓	✓	\checkmark	\checkmark	✓	✓	✓	✓	✓	\checkmark		
Solvent use	SBDT	Table 3.A–D			~	~	~	~	~	~	~	~	~	~	~		

					т	Duovisi	an of o				PART				ntad (continued)	
			_		ł	TOVISI	on of co			ting to	rmat t	adles I	or year	s repo	rted (continued)	
			Base vear ^a	1990	1995	2000	2001	9Y 5005	ears	2004	2005	2006	2007	2008	Information gaps relating to reporting ^b	Comments
	See	ctoral report: Table 4		~	√	√	√	√	√	√	√	√	√	√		
		Table 4.A		\checkmark	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓	✓		
		Table 4.B(a)		\checkmark	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓	✓		
re		Table 4.B(b)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Agriculture	DT	Table 4.C Table 4.D		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table. The notation key NO is used.
Agr	SB	Table 4.D		\checkmark	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓	✓		
		Table 4.E		✓	~	~	~	~	✓	~	~	✓	~	✓		No numerical data are reported in this table. The notation key NO is used.
		Table 4.F		✓	~	~	~	~	✓	~	~	✓	~	✓		No numerical data are reported in this table. The notation keys NO, NE, NA are used.
	Se	ctoral report: Table 5		\checkmark	✓	✓	\checkmark	✓	✓	\checkmark	✓	\checkmark	✓	\checkmark		
		Table 5.A		✓	✓	✓	✓	✓	✓	\checkmark	✓	✓	✓	\checkmark		
		Table 5.B		✓	~	~	~	✓	✓	✓	✓	✓	✓	✓		
		Table 5.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\checkmark		
		Table 5.D		~	✓	✓	~	✓	✓	\checkmark	✓	\checkmark	✓	✓		
CF		Table 5.E		\checkmark	✓	\checkmark	✓	\checkmark								
LULUCF	DT	Table 5.F Table 5 (I)		\checkmark	✓	\checkmark	✓	\checkmark								
Γſ	SB	Table 5 (I)		\checkmark	\checkmark	\checkmark	\checkmark	✓	\checkmark	\checkmark	✓	\checkmark	✓	\checkmark		
		Table 5 (II)		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table. The notation key NE is used.
		Table 5 (III)		\checkmark	✓	~	~	~	✓	✓	✓	✓	✓	✓		
		Table 5 (IV)		\checkmark	✓	✓	✓	✓	✓	✓	✓	✓	✓	\checkmark		
		Table 5 (V)		\checkmark	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	\checkmark	

					F	Provisio	on of co	ommor	ı repor		PART rmat ta		or year	s repo	rted (continued)	
								Ye	ars							
			Base year ^a	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	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 year 2008. The notation key NO is used.
		Table 5 (KP-I) A.1.3												✓		
		Table 5 (KP-I) A.2												\checkmark		
		Table 5 (KP-I) A.2.1												~		No numerical data are reported in this table for the year 2008. The notation key NO is used.
E		Table 5 (KP-I) B.1												✓		
n	E	Table 5 (KP-I) B.2												\checkmark		
KP-LULUCF	SBDT	Table 5 (KP-I) B.3												✓		No numerical data are reported in this table for the year 2008. The notation key NA is used.
Ϋ́ρ.		Table 5 (KP-I) B.4												✓		2008. The notation key IVA is used.
		Table 5 (KP-II) 1												✓		
		Table 5 (KP-II) 2												~		No numerical data are reported in this table for the year 2008. 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 year 2008. The notation keys NO, NA are used.
		Table 5 (KP-II) 5												✓		
	Ac	counting table												\checkmark		

	PART II Provision of common reporting format tables for years reported (continued)													rs repo	orted (continued)	
								Ye	ars							
	Base 1990 2000 2001 2004 2003 2005 2005 2006 2006 2007 2008									Information gaps relating to reporting ^b	Comments					
	See	ctoral report: Table 6		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark								
Waste	H	Table 6.A		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark								
W	SBDT	Table 6.B		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark								
	S	Table 6.C		\checkmark	\checkmark	\checkmark	\checkmark	\checkmark								
		Summary 1.A		√	✓	>	✓	✓	✓	✓	✓	✓	✓	✓		
		Summary 1.B		✓	\checkmark	>	\checkmark	✓	\checkmark	\checkmark	✓	~	✓	✓		
bles		Summary 2 (CO ₂ equivalent emissions)		\checkmark	~	~	✓	✓	✓	✓	✓	✓	✓	✓		
and other tables		Summary 3 (Methods/emission factors)		\checkmark	~	~	✓	✓	✓	~	✓	✓	~	~		
l ot	E	Table 7 (Key categories)														
	SBDT	Table 8(a) (Recalculation – recalculated data)		\checkmark	~	>	~	~	~	~	~	~	~			
Summary		Table 8(b) (Recalculation – explanatory information)		~	~	~	~	~	~	~	~	~	~			
Su		Table 9(a) (Completeness)		\checkmark	✓	\checkmark	✓	✓	✓	✓	✓	~	✓	✓		
		Table 9(b) (Completeness)														
		Table 10 (Trends)		✓	✓	~	✓	\checkmark	✓	✓	\checkmark	✓	✓	\checkmark		

^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).

	PART III Provision of information relating to recalculations												
Table 8(a) (Recalculated data)	✓	Comments											
Recalculation reported for years	1990–2007												
Recalculated sectors/gases	Energy	Industrial processes	Solvent and other product use	Agriculture	LULUCF	Waste							
CO ₂	✓	✓	\checkmark		✓	✓							
CH ₄	✓	✓		✓	✓	\checkmark							
N ₂ O	✓		\checkmark	✓	✓	\checkmark							
HFCs		✓											
PFCs													
SF ₆		√											
Table 8(b) (Explanatory information)	\checkmark	✓	\checkmark	✓	✓	✓							
Percentage difference in aggreg	ate greenhouse gas	Base year estimate: ^a	with LULUCF:	3.80 %	without LULUCF: 0.7 %								
emissions		Latest recalculated year:b	with LULUCF:	14.23 %	% without LULUCF: 1.15 %								

^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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PART IV		
Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3		1
	Provided	Observation
Emissions by sources and removals by sinks are clearly distinguished from emissions from categories included in Annex A to the Kyoto Protocol.	✓	
Information on how inventory methodologies have been applied taking into account IPCC good practice guidance for LULUCF ^a 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	\checkmark	
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 Land subject to elected activities under Article 3.4	✓	
Land subject to elected activities under Article 3.4	✓	
Information on the spatial assessment unit for determining the area of accounting for afforestation, reforestation and	~	
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.	~	
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 anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out removals from:		
Elevated CO ₂ concentrations above pre-industrial levels	✓	
Elevated CO ₂ concentrations above pre-industrial levels Indirect nitrogen deposition	✓	
	✓	
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	✓	
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, 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	~	
Activities under Article 3.4 that occurred since 1 January 1990 and are human induced	✓	
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		Sweden does not elect any activities under Article 3, paragraph 4 except forest management.
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	✓	

^a The Intergovernmental Panel on Climate Change Good Practice Guidance for Land Use, Land-Use Change and Forestry.