



COMPLIANCE COMMITTEE

CC/ERT/ASR/2011/4 22 September 2011

Annual status report of the annual inventory of Denmark

Note by the secretariat

The annual status report of the annual inventory of Denmark was published on 11 June 2011. 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/2011/DNK, 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.



UNFCCC

United Nations

Framework Convention on Climate Change

Distr.: General 11 June 2011

English only

Annual status report of the annual inventory of Denmark

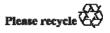
1. This status report was prepared by the expert review team as part of the initial check of the annual inventory submitted in accordance with decision 15/CMP.1. It reflects the content of the inventory submission of 2011 as originally submitted by the Party, and of the resubmission received by 27 May 2011.

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 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 $Greenhouse \ gases$ CO_2 : carbon dioxide CH_4 : methane

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



			Ģ	GRE	ENHOU	ISE GAS	INVEN	NTORY S	UBMIS	SION			
		Date of re	ceipt	Dai	te of resu	bmission	Comm	nents					
	NIR	15 April 2	2011	161	May 201	1							
tion	CRF tables ^a	15 April 2	2011	161	May 201	1	Only (CRF under	KP res	ubmitted			
forma	Additional information ^b	15 April 2	2011				CRF s	submission	is for Ma	ainland, the	Faroe Isla	nds and Greenlan	d
General information	CRF provided for years	1990–200	9										
Gen	Base year or period ^c	1990]	Base year	r for HFCs	s, PFCs	and SF_6^d	1995				
	Gases covered	CO_2	CH_4		N_2O	HFCs	Р	FCs	SF_6	NO _X	СО	NMVOCs	SO_2
		~	~		~	~	~	/	~	~	~	~	~
NIR	Description	-	invent	orie		-					-	INFCCC reportin elaborated with an	
	Language of NIR	English											
B 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.													

^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

^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).

 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)).

	SUBMISSI	ON OF SUPPLE	MENTARY INFORM	IATION UNDER ARTIC	LE 7.1
		Date of receipt	Date of resubmission	Comments	
ation	KP-LULUCF information ^a	15 April 2011	16 May 2011	NIR, page 596, chapter 11	
information	KP-LULUCF CRF ^b	15 April 2011	16 May 2011	CRF provided for years:	1990, 2008–2009
supplementary	Information on Kyoto units (ERUs, CERs, RMUs and AAUs) ^c	15 April 2011	16 May 2011	NIR, page 611, chapter 12	
lddns	SEF ^d with Kyoto units	15 April 2011			
ting of	Change in national system ^e	15 April 2011	16 May 2011	NIR, page 615, chapter 13	
Reporting	Change in national registry ^e	15 April 2011	16 May 2011	NIR, page 616, chapter 14	
	Minimization of adverse impacts ^e	15 April 2011	16 May 2011	NIR, page 617, 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	ofinfo	rmation for	the letes	t ronorto	PAR		or in t	ha comm	n ron	orting format: 2009			
	ĺ	Energy		Industrial pr		SOPU		Agriculi		LULUC	-	KP-LULUCF ^a		Waste	
	Sectoral report	1	✓	2(I)	~	3	~	4	√	5	~	5(KP)	√	6	~
	tables			2(II)	~		I		I						
	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	~		1	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	~					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.	✓		
Tables										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	y 1.A	✓	Summ	ary 1.B		~			Sum	mary 2	<u> </u>	, 	1
	Other tables	Summar	ry 3	~	Table ² catego						Tabl	e 9(a) (Completeness))	ľ	/
		Table 10) (Trend	s) 🗸				ı			Tabl	e 9(b) (Completeness))		
	Comments			1	1						1				

^{*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: 2009 (d	continued	d)	
ıls	Provided for gases	CO ₂ ✓	CH4		N_2O	~	HFCs 🗸		PFCs 🗸		SF ₆ •	/
Totals	Provided for years	1990–2009	1990–	2009	1990-	-2009	1992–2009		1994–2009		1990–	2009
		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	✓		✓					Explanation provided	1		
SF_{δ}					HFCs		PFCs			SF_6		
	Disaggregation by sp	pecies			~		~					
13	Reporting of actual a				Actual	Potential	Actual	Potenti	ial	Actual		Potential
HF	estimates in the categ and SF ₆	ory consumptior	n of hale	ocarbons	~	~	~	✓		~		✓
tion ys	Used in	Summary table .	1.A	v	Sectoral	report tables	~	Sector	al backgrour	nd data ta	ables	v
Notation keys	Comments											

																PART II	
				r]	Prov	vision	n of c	omn	ion i	repoi	rting format tables for y	years reported
				Years													
				Base year ^a	1990	1995	2000	2002	2003	2004	2005	2006	2007	2008	2009	Information gaps relating to reporting ^b	Comments
	Secto	oral report: tab	ole 1		~	~	~	~	~	~	~	~	~	~	~		
		Table 1.A(a)			~	~	~	~	~	~	~	~	~	~	~		
		Table 1.A(b)			~	~	~	~	~	~	~	~	~	~	~		
Sy.		Table 1.A(c)			~	~	~	~	~	~	~	~	~	~	~		
Energy	SBDT	Table 1.A(d)			~	~	~	~	~	~	~	~	~	~	~		
		Table 1.B.1			~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table. The notation keys NO, NA are used.
	T	Table 1.B.2			~	~	~	~	~	~	~	~	~	~	~		
		Table 1.C			~	~	~	~	~	~	~	~	~	~	~		
	Secto		Table 2(I)		~	~	~	~	~	~	~	~	~	~	~		
	repoi	rts:	Table 2(II)		~	~	~	~	~	~	~	~	~	~	~		
es		Table 2(I).A-	G		~	~	~	~	~	~	~	~	~	~	~	✓	
Industrial processes	Tabl	Table 2(II).C			~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table for the years 2001–2009. For the years 2001–2003 the notation keys NO, NA are used. For the years 2004–2009 the notation key NO is used.
npul	SBDT	Table 2(II).E			~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table. For the years 1990–2007 the notation key NO is used. For the years 2008–2009 the notation keys NO, NA are used.
		Table 2(II).F			~	~	✓	~	~	~	✓	✓	~	✓	~		

								Р	rovis	sion	of co	mma	on rej	oorti	PART II ng format tables for ye	ears reported (continued)
			Years													
			Base year ^a	0661	1995	2000	2002	2003	2004	2005	2006	2007	2008	2009	Information gaps relating to reporting ^b	Comments
t use	Secto	oral report: Table 3		~	~	~	~	~	~	~	~	~	~	~		
Solvent	SOPU	Table 3.A–D		~	~	~	~	~	~	~	~	~	~	~		
	Secto	oral report: Table 4		~	~	~	~	~	~	~	~	~	~	~		
		Table 4.A		~	~	~	~	~	~	~	~	~	~	~		
		Table 4.B(a)		~	~	~	~	~	~	~	~	~	~	~		
lture		Table 4.B(b)		✓	~	~	~	~	~	~	~	~	~	~		
Agriculture	SBDT	Table 4.C		✓	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table. The notation key NO is used.
		Table 4.D		✓	~	~	~	~	~	~	~	~	~	~		
		Table 4.E		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table. The notation key NA is used.
		Table 4.F		~	~	~	~	~	~	~	~	~	✓	~		

×

															PART II	
			1					Р	rovi	sion	of co	mma	n rej	porti	ng format tables for ye	ears reported (continued)
			Years					-	-							
			Base year ^a	0661	1995	2000	2002	2003	2004	2005	2006	2007	2008	2009	Information gaps relating to reporting ^b	Comments
	Secto	oral report: Table 5		~	~	~	~			~	~	~	~	~		
		Table 5.A		~	~	~	~	~	~	~	~	~	~	~		
		Table 5.B		~	~	~	~	~	~	~	~	~	~	~		
		Table 5.C		~	~	~	~	~	~	~	~	~	~	~		
		Table 5.D		~	~	~	~	~	~	~	~	~	~	~		
JCF		Table 5.E		~	~	~	~	~	~	~	~	~	~	~		
LULUCF	SBDT	Table 5.F		~	~	~	~	~	~	~	~	~	~	~		
		Table 5 (I)		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table. The notation keys IE, NO, NA are used.
		Table 5 (II)		~	~	~	~	~	~	~	~	~	~	~		
	·	Table 5 (III)		~	~	~	~	~	✓	~	~	~	~	~		
		Table 5 (IV)		~	~	~	~	~	~	~	~	~	~	~		
		Table 5 (V)		~	~	~	~	~	~	~	~	~	~	~		No numerical data are reported in this table. The notation keys NA, NO are used.

						Pr	ovisi	on of	f com	mon	repo	ortin		PART II mat tables for years	s reported (continued)
		Years													
		Base year ^a	0661	1995	2000	2002	2003	2004	2005	2006	2007	2008	2009	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 2008–2009. For these years the notation keys IE, NA are used.
	Table 5 (KP-I) A.1.3											~	~		No numerical data are reported in this table for the years 2008–2009. For these years the notation keys NE, NO are used.
	Table 5 (KP-I) A.2											~	~		
	Table 5 (KP-I) A.2.1											~	~		
	Table 5 (KP-I) B.1											~	~		
JCF	Table 5 (KP-I) B.2		~									~	~		
KP-LULUCF	Table 5 (KP-I) B.3		~									~	~		
KP	Table 5 (KP-I) B.4		~									~	~		No numerical data are reported in this table for the years 1990, 2008–2009. For these years the notation key NA is used.
	Table 5 (KP-II) 1											~	~		No numerical data are reported in this table for the years 2008–2009. For these years the notation key IE is used.
	Table 5 (KP-II) 2											~	~		
	Table 5 (KP-II) 3	1	~	1								~	~		
	Table 5 (KP-II) 4	1	~									~	~		
	Table 5 (KP-II) 5		~									~	~	~	No numerical data are reported in this table for the years 1990, 2008–2009. For these years the notation keys NO, NA are used.
Ac	counting table	1										~	~		

														DA		
							Prov	ision	of c	omm	on re	epor	ting f		RT II at tables for years repo	orted (continued)
			Years									-	0			
			Base year ^a	066 I	1995	2000	2002	2003	2004	2005	2006	2007	2008	2009	Information gaps relating to reporting ^b	Comments
	Sect	oral report: Table 6		~	~	✓	✓	~	~	~	~	~	~	~		
te		Table 6.A		~	~	~	~	~	~	~	~	~	~	~		
Waste	SBDT	Table 6.B		~	~	~	~	~	~	~	~	~	~	~		
	v ₁	Table 6.C		~	~	~	~	~	~	~	~	~	~	~		
		Summary 1.A		~	~	~	~	~	~	~	~	~	~	~		
		Summary 1.B		~	~	~	~	~	~	~	~	~	~	~		
		Summary 2 (CO ₂ equivalent emissions)		~	~	~	~	~	~	~	~	~	~	~		
tables		Summary 3 (Methods/emission factors)		~	~	~	~	~	~	~	~	~	~	~		
otherı	T	Table 7 (Key categories)											T			
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/CP2 and 11/CP4.

^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 info	ormation relating to recalc	ulations		
Table 8(a) (Recalculated data)	\checkmark	Comments				
Recalculation reported for years	1990–2008					
Recalculated sectors/gases	Energy	Industrial processes	Solvent and other product use	Agriculture	LULUCF	Waste
CO ₂	\checkmark	\checkmark	\checkmark		✓	\checkmark
CH ₄	\checkmark			\checkmark	\checkmark	\checkmark
N ₂ O	\checkmark		✓	\checkmark	\checkmark	\checkmark
HFCs						
PFCs						
SF ₆						
Table 8(b) (Explanatory information)						
Percentage difference in aggregat	e greenhouse gas	Base year estimate: ^a	with LULUCF:	-1.03 %	without LULUCF:	-1.54 %
emission		Latest recalculated year: ^b	with LULUCF:	-7.84 %	without LULUCF:	-0.79 %

^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, p	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 for LULUCF ^{α} and decision 16/CMP.1	~	
ohs 5–9	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	~	In 5(KP-I)A.1.3 of KP-LULUCF CRF table, the area subject to activity for Denmark is reported as "NE".
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	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 n) that are not accounted for	~	
sporting r		nation 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 Arti	icle 3, parag	raphs 3 and 4 (continued)
			Provided	Observation
	Specifi	c 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	✓	
raphs 5–9		How harvesting or forest disturbance that is followed by the re-establishment of forest is distinguished from deforestation	~	
ex, parag		Emissions/removals from lands harvested during the first commitment period following afforestation and reforestation on these units of land since 1990	~	
.1, am	Specifi	c information to be reported for Article 3.4 activities:		
/CMP		Activities under Article 3.4 that occurred since 1 January 1990 and are human induced	✓	
er decision 15		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	✓	
Reporting requirements under decision 15/CMP.1, annex, paragraphs 5–9		Emissions/removals from Article 3.4 activities that are not accounted for under activities under Article 3.3		Information required in paragraph 9 (c) of the annex to 15/CMP.1 is not included in the submission. In its response to the draft status report, Denmark stated that "In the NIR 2011 Chapter 11.1.4 the hierarchy between KP-LULUCF activities are described. The adherence to this hierarchy ensures that emissions from activities under article 3.4 are not double counted under both article 3.3 and 3.4 activities."
		Forest management: information on the extent to which GHG removals by sinks offsets the debit incurred under Article 3.3	~	