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Annual status report of the greenhouse gas inventory of Ireland

1. This status report was prepared by the expert review team in accordance with decision 22/CMP.1 as part of the initial check of the greenhouse gas inventory submitted. It reflects the content of the inventory of 2008 as submitted by the Party.

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

CRF: common reporting format
LULUCF: land use, land-use change and forestry
KP-LULUCF CRF: tables for reporting activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol
NIR: national inventory report
SBDT: sectoral background data tables

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
N_2O: nitrous oxide
HFCs: hydrofluorocarbons
PFCs: perfluorocarbons
SF_6: sulphur hexafluoride
NOx: nitrogen oxides
CO: carbon monoxide
NMVOCs: non-methane volatile organic compounds
SO_2: sulphur dioxide

INTRODUCTION											
General information		**Date of receipt**				**Date of resubmission**		**Comments**			
	CRF[a]	14 April 2008									
	NIR	14 April 2008									
	Additional information[b]										
	KP-LULUCF CRF[c]										
	KP-LULUCF information[d]										
	CRF provided for years	CRF	1990–2006			KP-LULUCF					
	Base year or period	1990				Base year for HFCs, PFCs and SF_6[e]			1995		
	Gases covered	CO_2	CH_4	N_2O	HFCs	PFCs	SF_6	NOx	CO	NMVOCs	SO_2
		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
National inventory report	Description	The organization of the NIR, in general, follows the structure as outlined in the revised UNFCCC reporting guidelines (decision 18/CP.8). However, some of the recommended annexes such as key categories, "Detailed discussion of methodology and data for estimating CO_2 emissions from fossil fuel combustion", "Assessment of completeness", and "Table 6.1 and 6.2 of the IPCC good practice guidance" are not provided. Ireland stated, in its response to the draft status report that this information is provided in the body of the NIR.									
	Language of NIR	English									
Common reporting format	Missing source category larger than 7 per cent for Annex A sources	No missing source category larger than 7 per cent has been identified.									

[a] CRF refers to the common reporting format tables included in document FCCC/SBSTA/2006/9.
[b] Additional information can be any information submitted by a Party in conjunction with the national inventory report (NIR) or CRF tables.
[c] Parties to the Kyoto Protocol are required to report anthropogenic greenhouse gas emissions by sources and removals by sinks from land use, land-use change and forestry activities under Article 3, paragraph 3, and, if any, elected activities under Article 3, paragraph 4, using the agreed common reporting format tables (decision 6/CMP.3). The reporting of KP-LULUCF CRF tables is voluntary until the 2010 submission.
[d] Parties to the Kyoto Protocol are required to include in their annual greenhouse gas inventories information on anthropogenic greenhouse gas emissions by sources and removals by sinks from land use, land-use change and forestry activities under Article 3, paragraph 3, and, if any, elected activities under Article 3, paragraph 4, in accordance with paragraphs 5–9 in the annex to decision 15/CMP.1. The reporting of this information is voluntary until the 2010 submission.
[e] A Party can choose 1990 or 1995 as its base year for the fluorinated gases in accordance with Article 3, paragraph 8, of the Kyoto Protocol.

PART I
Provision of information for the latest reported inventory year in the CRF: 2006

		Energy		Industrial processes		Solvent use		Agriculture		Land use, land-use change and forestry		Land use, land-use change and forestry (KP)[a]		Waste	
Tables	Sectoral report tables	1	✓	2(I)	✓	3	✓	4	✓	5	✓	5(KP)		6	✓
				2(II)	✓										
	Sectoral background data tables	1.A(a)	✓	2(I).A–G	✓	3.A–D	✓	4.A	✓	5.A	✓	5(KP-I)A.1.1.		6.A	✓
		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	✓					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 separately	✓							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 (emission totals)	Summary 1.A	✓	Summary 1.B	✓	Summary 2	✓								
	Other tables	Summary 3	✓	Table 7 (Key categories)	✓	Table 9(a) (Completeness)	✓								
		Table 10 (Trends)	✓			Table 9(b) (Completeness)									
	Comments														

Totals	Provided for gases	CO_2 ✓	CH_4 ✓	N_2O ✓	HFCs ✓	PFCs ✓	SF_6 ✓
	Provided for years	1990–2006	1990–2006	1990–2006	1990–2006	1990–2006	1990–2006

CO_2	Comparison of CO_2 from fuel combustion	Reference approach	Sectoral approach	Difference more than 2 per cent	If difference is more than 2 per cent
		✓	✓		Explanation provided

HFCs, PFCs, SF_6	Disaggregation by species	HFCs		PFCs		SF_6	
		✓		✓			
	Reporting of actual and/or potential emission estimates in the consumption of halocarbons and SF_6	Actual	Potential	Actual	Potential	Actual	Potential
		✓	✓	✓	✓	✓	✓

Notation keys	Used in	Summary table 1.A	✓	Sectoral report tables	✓	Sectoral background data tables	✓
	Comments						

[a] The reporting of KP-LULUCF CRF tables is voluntary until the 2010 submission.

PART II
Provision of CRF tables for years reported

			Years																		Information gaps relating to reporting[b]	Comments
			Base year[a]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006		
Energy		**Sectoral report**: Table 1		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	SBDT	Table 1.A(a)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.A(b)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.A(c)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Table 1.A(d)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.B.1		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but notation keys NE, NO are used.
		Table 1.B.2		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Industrial processes	**Sectoral reports:**	Table 2(I)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 2(II)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	SBDT	Table 2(I).A–G		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 2(II).C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but notation keys NO, NA are used.
		Table 2(II).E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but notation keys NA, NO are used.
		Table 2(II).F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Solvent use		**Sectoral report**: Table 3		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	SBDT	Table 3.A–D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

PART II
Provision of CRF tables for years reported (continued)

			Years																		Information gaps relating to reporting[b]	Comments
			Base year[a]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006		
Agriculture	**Sectoral report**: Table 4			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	SBDT	Table 4.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 4.B(a)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 4.B(b)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 4.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but notation key NO is used.
		Table 4.D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 4.E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but for years 1990–1991, 1993, 1998–1999, 2004–2006 notation key NO is used and for years 1992, 1994–1997, 2000–2003 notation keys NE, NO are used.
		Table 4.F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but notation key NO is used.
Land use, land-use change and forestry	**Sectoral report**: Table 5			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	SBDT	Table 5.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5 (I)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but notation key IE is used.
		Table 5 (II)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5 (III)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		For years 1990–1991, no data are reported in this table, but notation keys NO, NA are used.
		Table 5 (IV)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5 (V)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

PART II
Provision of CRF tables for years reported (continued)

			Years																		Information gaps relating to reporting[b]	Comments
			Base year[a]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006		
Land Use, Land-use Change and Forestry (KP)[c]	**Sectoral report**: Table 5 (KP)																					
	SBDT	Table 5(KP-I)A.1.1																				
		Table 5(KP-I)A.1.2																				
		Table 5(KP-I)A.1.3																				
		Table 5(KP-I)A.2																				
		Table 5(KP-I)A.2.1																				
		Table 5(KP-I)B.1																				
		Table 5(KP-I)B.2																				
		Table 5(KP-I)B.3																				
		Table 5(KP-I)B.4																				
		Table 5(KP-II)1																				
		Table 5(KP-II)2																				
		Table 5(KP-II)3																				
		Table 5(KP-II)4																				
		Table 5(KP-II)5																				
		Accounting table																				

PART II
Provision of CRF tables for years reported (continued)

			Years																		Information gaps relating to reporting[b]	Comments
			Base year[a]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006		
Waste		**Sectoral report:** Table 6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	SBDT	Table 6.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 6.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 6.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but notation keys NE, NO are used.
Summary and other tables	SBDT	Summary 1.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Summary 1.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Summary 2 (CO_2 equivalent emissions)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Summary 3 (Methods/emission factors)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		Table 7 (Key categories)		✓																✓		
		Table 8(a) (Recalculation – recalculated data)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		Table 8(b) (Recalculation – explanatory information)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
		Table 9(a) (Completeness)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 9(b) (Completeness)																				
		Table 10 (Trends)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

[a] This column indicates that the Party uses a base year other than 1990 in accordance with decisions 9/CP.2 and 11/CP.4, and does not reflect the choice of a base year for the fluorinated gases.
[b] This column indicates that reporting gaps (blank cells) have been identified in a given table of the CRF, owing to limited use, or lack of, notation keys (NO, NE, NA, IE, C).
[c] Parties to the Kyoto Protocol are required to report anthropogenic greenhouse gas emissions by sources and removals by sinks from land use, land-use change and forestry activities under Article 3, paragraph 3, and, if any, elected activities under Article 3, paragraph 4, using the agreed common reporting format tables (decision 6/CMP.3). The reporting of KP-LULUCF CRF tables is voluntary until the 2010 submission.

PART III
Provision of information relating to recalculations

Table 8(a) (Recalculated data)	✓	Comments				
Recalculation for years	1990–2005					
Recalculated sectors/gases	Energy	Industrial processes	Solvent use	Agriculture	Land use, land-use change and forestry	Waste
CO_2	✓	✓	✓		✓	
CH_4	✓			✓	✓	✓
N_2O	✓			✓	✓	
HFCs		✓				
PFCs		✓				
SF_6		✓				
Table 8(b) (Explanatory information)	✓	✓	✓	✓	✓	✓
Full CRF for the recalculated base year	✓	Percentage difference in aggregate greenhouse gas base year estimate			with LULUCF without LULUCF	0.39 % 0.27 %