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Annual status report of the greenhouse gas inventory of Monaco

- 1. This status report was prepared by the secretariat as part of the initial check of the greenhouse gas inventory submitted in accordance with decision 19/CP.8. It reflects the content of the inventory submission of 2007 as originally submitted by the Party.
- 2. In this report, the following abbreviations are used:

CRF: common reporting format LUCF: Land-use Change and Forestry

LULUCF: Land Use, Land-use Change and

Forestry

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
CO₂: carbon dioxide
CH₄: methane
N₂O: nitrous oxide

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

NMVOCs: non-methane volatile organic

compounds

SO₂: sulphur dioxide

				INTR	ODUCTION	ON										
	Data of receipt	CRF 1	0 July 200	7		N	IR 3 Au	gust 2007								
п	Date of receipt	Additional information														
natio	Date of resubmission	CRF NIR														
forn	Date of resubmission	Additiona	l informati	on												
General information	Base year or period ^a	1990														
ener	CRF provided for years	1990–200	5													
9	Gases covered	CO_2	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	NOx	CO	NMVOCs	SO_2					
		~	>	>	~	>	>	>	>	>	>					
Description The organization of the NIR, in general, follows the structure as outlined in the revised UNI reporting guidelines (decision 18/CP.8). However, most of the chapters have been restructure the recommended Annexes have not been provided, except for an Annex containing a description the methodology of emissions calculation for the Energy and Waste sectors.																
s	Language of NIR	French		•		•		•	•	•						

^a Information on the base year in this status report does not reflect or prejudge any decision that may be taken by the Party in relation to the use of 1995 as base year for HFCs, PFCs and SF₆, in accordance with Article 3.8 of the Kyoto Protocol.

		Provision of in	nformation for the	PART I e latest reported inv	ventory year in the	e CRF: 2005	
		Energy	Industrial Processes	Solvent Use	Agriculture	Land Use, Land- use Change and Forestry	Waste
	Sectoral report tables	1 🔽	2(I) 2 (II) 2	3	4	5 🔽	6
	Sectoral background data tables	1.A(a)	2(I).A-G	3.A-D 🔽	4.A 🔽	5.A 🔽	6.A 🔽
		1.A(b)	2(II).C,E		4.B(a)	5.B 🔽	6.B
		1.A(c)	2(II).F		4.B(b)	5.C 🔽	6.C 🔽
		1.A(d)			4.C 🔽	5.D 🔽	
		1.B.1			4.D 🔽	5.E 🔽	
Tables		1.B.2			4.E	5.F 🔽	
Та		1.C 🔽			4.F	5 (I)	
		Bunkers separately	▽			5 (II)	
						5 (III)	
						5 (IV)	
						5 (V)	
	Summary tables (emission totals)	Summary 1.A	V	Summary 1.B	~	Summary 2	✓
	Other tables	Summary 3	<u>~</u>	Table 7 (Key categ	ories)	Table 9(a) (Comple	teness)
		Table 10 (Trends)	>			Table 9(b) (Comple	teness)
	Comments						
So.	Totals provided for		CH_4	N_2O	HFCs	PFCs	SF_6
Trends	provided for	V	V	V	V	V	
T	Totals provided for years	1990–2005	1990–2005	1990–2005	1995–2005	2001–2005	
co_2	Comparison of CO ₂ from fuel	Reference appre	oach Sec	toral approach	Difference mo 2 per cer		ence is more than 2 per cent
၁	combustion			V			on provided
	Disaggregation by species				FCs	S	F ₆
SF_6		Į.v	7		7		1
PFCs,	Reporting of actual and/or		Potential	Actual	Potential	Actual	Potential
HFCs, PFCs, SF ₆	potential estimates in the consumption of halocarbons and SF ₆	✓		V			
on	Used in	Summary table 1.A	V	Sectoral report table	es 🔽	Sectoral background	l data tables
Notation keys	Comments						

PART II Provision of CRF tables for years reported

				Years														Information				
				Base year ^a	1990	1991	1992	1993	1994	1995				1999	2000	2001	2002	2003	2004	2005	gaps relating to reporting	Comments
	Se	ctoral report – T	Гable 1		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 1.A(a)			✓	✓	✓	✓	\	✓	\	\	\	✓	✓	\	✓	✓	✓	✓		
		Table 1.A(b)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
_		Table 1.A(c)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Energy	SBDT	Table 1.A(d)			✓	✓	✓	✓	✓	✓	✓	✓	✓	~	~	✓	~	~	~	✓		No data are reported in this table, but notation keys NO, NE are used
		Table 1.B.1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in these
		Table 1.B.2			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		tables, but notation keys NO, NA are used
		Table 1.C			✓	✓	✓	✓	✓	✓	✓	1	✓	1	1	✓	✓	✓	✓	1		
	Sec	ctoral reports –	Table 2(I)		√	√	✓	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		For 1990–1994 no data are reported in this table, but notation keys NA, NE, NO are used
			Table 2(II)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
cesses		Table 2(I).A–G			~	√	✓	√	>	✓	\	>	>	✓	✓	\	~	~	✓	~		No data are reported in this table, but notation keys NE, NO, NA are used
Industrial Processes	SBDT	Table 2(II).C			<	*	✓	*	√	*	√	~	*	~	~	~	~	~	~	*		No data are reported in this table, but for 1995–2005 notation keys NO, NA are used and for 1990–1994 notation keys NE, NA, NO are used
		Table 2(II).E			√	√	✓	~	✓	~	✓	√	√	√	√	✓	√	~	√	√		No data are reported in this table, but for 1995–2005 notation keys NO, NA are used and for 1990–1994 notation keys NE, NA are used
		Table 2(II).F																				

	PART II Provision of CRF tables for years reported																				
											Years									Information	
-			Base year ^a	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004		gaps relating to reporting	
e	S	ectoral report – Table 3		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Solvent Us	SRDT	Table 3.A–D		\	√	✓	~	√	✓	\	√	*	√	\	✓	✓	~	✓	\		For 1990–1994 no data are reported in this table, but notation key NE is used

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

											Years									Information		
			Base year ^a	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	gaps relating to reporting ^b		
	Sec	ctoral report – Table 4		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but notation keys NA, NO are used	
		Table 4.A		✓	✓	✓	✓	\	✓	\	\	\	\	✓	✓	✓	✓	✓	✓		No data are reported in these tables,	
ب		Table 4.B(a)		✓	✓	✓	✓	>	✓	>	>	\	>	>	✓	✓	✓	>	✓		but notation key NO is used	
Agriculture		Table 4.B(b)		✓	✓	✓	✓	~	✓	\	~	√	\	✓	✓	✓	✓	✓	✓		No data are reported in these tables,	
ricu	DT	Table 4.C		✓	✓	✓	✓	\	✓	\	\	\	\	\	✓	✓	✓	\	✓		but notation keys NO, NA are used	
Agı	SBDT	Table 4.D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
		Table 4.E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but notation key NO is used	
		Table 4.F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in this table, but notation keys NO, NA are used	
	Sec	ctoral report – Table 5		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
٦		Table 5.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in these tables,	
and		Table 5.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		but notation key NO is used	
Change a		Table 5.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Ch		Table 5.D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
use	_	Table 5.E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
Land-use	SBDT	Table 5.F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No data are reported in these tables,	
	SI	Table 5 (I)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		but notation key NO is used	
Land Use,		Table 5 (II)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
nd l		Table 5 (III)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
La		Table 5 (IV)		✓	√	✓	✓	✓	✓	✓	1	✓	✓	✓	✓	✓	✓	✓	✓			
		Table 5 (V)		√	√	✓	✓	1	✓	1	1	✓	√	✓	✓	✓	✓	✓	√			

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

										Years										Information	
			Base year ^a	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	gaps relating to reporting ^b	
	Se	ectoral report – Table 6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
te		Table 6.A		✓	√	✓	✓	1	✓	✓	✓	✓	~	\	✓	✓	✓	✓	✓		No data are reported in this table, but notation keys NO, NA are used
Waste	SBDT	Table 6.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
À	SB	Table 6.C		✓	✓	~	✓	√	✓	✓	~	✓	*	√	✓	✓	✓	✓	✓		For 1990 no data are reported in this table, but notation keys NO, NA are used
	Sı	ummary 1.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Sı	ummary 1.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
tables		ummary 2 (CO ₂ quivalent emissions)		✓	✓	✓	✓	~	✓	✓	✓	✓	~	✓	✓	✓	✓	✓	✓		
er tal	St (M	ummary 3 Methods/emission factors)		✓	✓	~	✓	~	✓	✓	✓	✓	\	✓	✓	✓	✓	✓	✓	✓	
otp	Ta	able 7 (Key categories)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
arv and other		able 8(a) (Recalculation – calculated data)																			For the years 1990–2004, only the columns relating to the latest submission are filled in
Summarv	Ta ex	able 8(b) (Recalculation – splanatory information)																			
	_	able 9(a) (Completeness)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		able 9(b) (Completeness)		✓	✓	√	✓	✓	✓	✓	✓	√	✓	✓	√	√	✓	✓	✓		
	Ta	able 10 (Trends)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

^a This Party uses a base year of 1990.
^b This column indicates that reporting gaps (blank cells) have been identified in a given table of the CRF. This was due to limited use, or lack of, notation keys (NO, NE, NA, IE, C).

	PART III Provision of information relating to recalculation														
Table 8(a) (Recalculated data)		Comments	No information on recalc	ulations is provided											
Recalculation for years	·														
Recalculated sectors/gases	Energy	Industrial Processes	Solvent Use	Agriculture	Land Use, Land-use Change and Forestry	Waste									
CO_2															
CH ₄															
N ₂ O															
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														