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**ENGLISH ONLY** 

## Annual status report of the annual inventory of Monaco

- 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.
- 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 elsewhereNA: not applicableNE: not estimatedNO: not occurring

Greenhouse gases
CO<sub>2</sub>: carbon dioxide
CH<sub>4</sub>: methane
N<sub>2</sub>O: nitrous oxide

HFCs: hydrofluorocarbons PFCs: perfluorocarbons SF<sub>6</sub>: sulphur hexafluoride NO<sub>X</sub>: nitrogen oxides CO: carbon monoxide

NMVOCs: non-methane volatile organic

compounds

SO<sub>2</sub>: sulphur dioxide

I		GR	EENHOU	SE GAS I	NVE	NTO	ORY SUB	MISSIO	N					
Ī			Date of 1	eceipt		Da	te of resu	bmission		Comm	ents			
	u	NIR	30 March	n 2010		01	April 201	0						
	atio	CRF tables <sup>a</sup>	23 March	n 2010										
	form	Additional information <sup>b</sup>												
	al in	CRF provided for years	1990-20	08		-								
	General information	Base year or period <sup>c</sup>	1990		E	Base	year for H	IFCs, PFC	Cs and	SF <sub>6</sub> <sup>d</sup>	199	5		
	Ğ	Gases covered	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub>	О	HFCs	PFCs	SF <sub>6</sub>	N	$O_X$	CO	NMVOCs	$SO_2$
			✓	✓	✓	/	✓	✓	✓	,	/	✓	✓	✓
	NIR	Description	reporting decision including	guidelines 14/CP.11, reporting	e on a elabor eleme	nnu ratec ents	al invento I with the under the	ries follov "Annotat Kyoto Pro	wing ir ed outl otocol'	icorpora line of the '. Howe	ation he Na ever,	of the pr ational Ir "informa	updated UN ovisions of eventory Rep tion on is not prov	ort
		Language of NIR	French											
	$C\mathbf{R}\mathbf{F}^{\mathrm{f}}$	Missing source category larger than 7 per cent for categories included in Annex A to the Kyoto Protocol	No missi	ng source c	catego	ory la	arger than	7 per cen	t has b	een ide	ntifie	ed.		

	SUBMISSION OF SUPPLEMENTARY INFORMATION UNDER ARTICLE 7.1									
		Date of receipt	Date of resubmission	Comments						
tary	KP-LULUCF information <sup>g</sup>	23 March 2010								
supplementary mation	KP-LULUCF CRF <sup>h</sup>	23 March 2010		CRF provided for years:	2008					
	Information on Kyoto units (ERUs, CERs, RMUs and AAUs <sup>i</sup> )	30 March 2010	01 April 2010	Chapter 7 in NIR						
ng of infor	SEF <sup>j</sup> with Kyoto units			not provided						
Reporting in	Change in national system <sup>k</sup>	30 March 2010	01 April 2010							
Rep	Change in national registryk	30 March 2010	01 April 2010							
	Minimization of adverse impacts <sup>k</sup>			not provided						

- <sup>a</sup> CRF tables are contained in document FCCC/SBSTA/2006/9, annex II.
- <sup>b</sup> Additional information can be any information submitted by a Party in conjunction with the NIR or CRF tables.
- <sup>c</sup> 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.
- 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.
- <sup>e</sup> "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)).
- 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.
- <sup>1</sup> Parties are required to include in their annual submission information on ERUs, CERs, tCERs, lCERs, 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.
- <sup>k</sup> 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.

## PART I Provision of information for the latest reported inventory year in the common reporting format: 2008

													101111at. 2			
		Ener	gy	Industr			nt and ner ct use	Agric	ulture	LUI	LUCF	KF	P-LULUCF	7a	W	aste
	Sectoral report	1	✓	2(I)	✓		3 🗸	4	✓	4	5 🗸	5(	KP)	✓	6	✓
	tables			2(II)									İ			
	Sectoral background	1.A(a)	✓	2(I).A-G	<b>✓</b>	3.A-I	<b>√</b>	4.A	✓	5.A	\ \	5(KI	P-I)A.1.1	✓	6.A	✓
	data tables	1.A(b)	<b>√</b>	2(II).C	>			4.B(a)	✓	5.E	3	5(KI	P-I)A.1.2	✓	6.B	✓
		1.A(c)	<b>✓</b>	2(II).E	<b>✓</b>			4.B(b)	✓	5.0	✓	5(KI	P-I)A.1.3	✓	6.C	✓
		1.A(d)	✓	2(II).F				4.C	✓	5.I	<b>√</b>		P-I)A.2	✓		
		1.B.1	✓					4.D	✓	5.I	✓		ΚΡ-I) .2.1.	✓		
		1.B.2	✓					4.E	✓	5.1	₹ 🗸	5(KF	P-I)B.1.	✓		
80		1.C	✓					4.F	✓	5 (I	) 🗸	5(KF	P-I)B.2.	✓		
Tables		Bunkers	separat	tely 🗸						5 (II	)	5(KF	P-I)B.3.	✓		
T										5 (III	) 🗸	5(KF	P-I)B.4.	✓		
										5 (IV	) 🗸	5(K	P-II)1	✓		
										5 (V	) 🗸	5(K	P-II)2	✓		
												5(K	P-II)3	✓		
													P-II)4	<b>√</b>		
												`	P-II)5 ounting	✓		
													ible	✓		
	Summary tables	Summar	y 1.A		✓	Sumn	nary 1.	В		✓	Summa	ary 2				✓
	Other tables	Summary	y 3		<b>✓</b>	Table	7 (Key	categori	es)	✓	Table 9	(a) (Con	pleteness)			✓
		Table 10	(Trends	s)	✓						Table 9	(b) (Con	pleteness)			
	Comments															
S	Provided for	CO	<sub>2</sub> ✓	C	H <sub>4</sub> ✓		N	<sub>2</sub> O ✓		HFCs	<b>√</b>	PFO	Cs ✓		SF <sub>6</sub>	<b>√</b>
Totals	gases Provided for															
	years	1990-	-2008	199	90–200	)8	199	90–2008		1994–2	008	2001	1–2008		1990–2	2008
27	Comparison of CO <sub>2</sub> from fuel	Refe	rence ap	proach		Secto	ral app	oroach		Differer	nce mor		If diffe	rence 2 per		e than
CO	combustion		✓				✓				T. COIN		Explanati			1
F <sub>6</sub>	Disaggregation l	y species					HFCs				PFCs			S	F <sub>6</sub>	
3, S							✓				✓					
PF(	Reporting of act					Actual		Potential		Actual	Po	otential	Actua	ıl	Pot	ential
HFCs, PFCs, SF <sub>6</sub>	emission estimated consumption of	tes in the chalocarbo	category ons and S	SF <sub>6</sub>		<b>√</b>		<b>√</b>		<b>✓</b>		<b>√</b>	<b>✓</b>			<b>√</b>
					I											
Notation keys	Used in	Summary	y table 1	.A		<b>√</b> !	Sectora	ıl report t	ables		<b>√</b>	Sectoral 1	oackgroun	d data	tables	s 🗸
Nota key	Comments															
		1														

<sup>&</sup>lt;sup>a</sup> 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.

							P	rovisio	n of co	mmon	report	ing fo	rmat ta	bles fo	or year	s reported	
									Ye	ars							
				Base year <sup>a</sup>	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	Information gaps relating to reporting <sup>b</sup>	Comments
	Se	ctoral report: Ta	able 1		✓	✓	✓	✓	✓	✓	✓	>	✓	<b>\</b>	✓		
		Table 1.A(a)			✓	✓	✓	✓	✓	✓	✓	>	✓	>	✓		
		Table 1.A(b)			✓	✓	✓	✓	✓	✓	✓	<b>\</b>	✓	>	✓	✓	
56		Table 1.A(c)			✓	<b>✓</b>	✓	✓	✓	<b>✓</b>	✓	✓	✓	✓	<b>✓</b>		
Energy	SBDT	Table 1.A(d)			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table. The notation keys NO, NE are used.
	"	Table 1.B.1			✓	✓	✓	✓	✓	✓	✓	<b>✓</b>	✓	<b>✓</b>	✓		No numerical data are reported in this table. The notation
		Table 1.B.2			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		keys NO, NA are used.
		Table 1.C			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
			Table 2(I)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
r s	Se	ctoral reports:	Table 2(II)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
[ndustrial processes		Table 2(I).A-G			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
roc	SBDT	Table 2(II).C			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table. The notation
II d	SB	Table 2(II).E			✓	✓	✓	✓	✓	✓	✓	<b>✓</b>	✓	<b>✓</b>	✓		keys NO, NA are used.
		Table 2(II).F															
	Se	ctoral report: Ta	able 3		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Solvent	SBDT	Table 3.A–D			✓	<b>√</b>	✓	✓	<b>√</b>	<b>√</b>	✓	✓	✓	✓	<b>√</b>		

PART II

					I	<u>Provi</u> si	on of c	ommor	ı repor		PART rmat t		or year	s repo	rted (continued)	
								Ye	ars							
			Base year <sup>a</sup>	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	Information gaps relating to reporting <sup>b</sup>	Comments
		Sectoral report: Table 4		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table. The notation keys NA, NO are used.
		Table 4.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table. The notation
٥		Table 4.B(a)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		key NO is used.
Agriculture		Table 4.B(b)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No conservation I determine the distribution of the contestion
ricii		Table 4.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table. The notation keys NO, NA are used.
Agr	D	Table 4.C Table 4.D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		,
		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 NA, NO are used.
		Sectoral report: Table 5		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.B		✓	✓	✓	✓	<b>✓</b>	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table. The notation
		Table 5.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		key NO is used.
۲÷		Table 5.D		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5.E		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
LULUCE		Table 5.F		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
1		Table 5 (I)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 5 (II)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table. The notation
		Table 5 (III)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		key NO is used.
		Table 5 (IV)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

Table 5 (V)

					I	Provisio	on of co	ommon	repor		PART rmat ta		or yeai	s repo	rted (continued)	
				1			ı	Ye	ars	ı	ı	ı		1		
			Base year <sup>a</sup>	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	Information gaps relating to reporting <sup>b</sup>	Comments
	Se	ctoral report: Table 5 (KP)												✓		
		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												✓		
Ŧ		Table 5 (KP-I) B.1												✓		
)Ü	Ţ	Table 5 (KP-I) B.2												✓		No numerical data are reported in this table for the year
KP-LULUCF	SBDT	Table 5 (KP-I) B.3												✓		2008. The notation key NA is used.
Œ.		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												<b>✓</b>		
		Table 5 (KP-II) 5												✓	✓	1
	A	counting table												<b>✓</b>	✓	1

PART II Provision of common reporting format tables for years reported (continued)

									ars							
			Base year <sup>a</sup>	1990	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	Information gaps relating to reporting <sup>b</sup>	Comments
	Sec	ctoral report: Table 6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table. The notation keys NO, NA are used.
ste		Table 6.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Waste	SBDT	Table 6.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table for the year 1990. For these years the notation keys NA, NO are used.
	01	Table 6.C		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Summary 1.A		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Summary 1.B		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ples		Summary 2 (CO <sub>2</sub> equivalent emissions)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
and other tables		Summary 3 (Methods/emission factors)		<b>✓</b>	<b>✓</b>	✓	✓	<b>✓</b>	✓	<b>√</b>	<b>✓</b>	✓	<b>✓</b>	✓		
l ot	DT	Table 7 (Key categories)		<b>\</b>	>	✓	✓	<b>\</b>	✓	<b>\</b>	<b>\</b>	✓	<b>\</b>	✓		
	SBDT	Table 8(a) (Recalculation – recalculated data)														
Summary		Table 8(b) (Recalculation – explanatory information)														
Su		Table 9(a) (Completeness)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 9(b) (Completeness)														
		Table 10 (Trends)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

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.
 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).

		Provision	PART III of information relating to 1	recalculations		
Table 8(a) (Recalculated data)		Comments	No information on recalcula	tions is provided		
Recalculation reported for years						
Recalculated sectors/gases	Energy	Industrial processes	Solvent and other product use	Agriculture	LULUCF	Waste
$CO_2$						
CH <sub>4</sub>						
$N_2O$						
HFCs						
PFCs						
SF <sub>6</sub>						
Table 8(b) (Explanatory information)						
Percentage difference in aggreg	ate greenhouse gas	Base year estimate: <sup>a</sup>	with LULUCF:	%	without LULUCF:	%
emissions		Latest recalculated year:b	with LULUCF:	%	without LULUCF:	%

<sup>&</sup>lt;sup>a</sup> 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.

<sup>b</sup> The latest recalculated year is the submission year minus 3.

Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3	anu 4	
	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 <sup>a</sup> 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		Monaco does not elect any 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.		
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.	<b>√</b>	
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 <sub>2</sub> 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, 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		
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		Monaco does not elect any activities under Article 3,
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		paragraph 4.

<sup>&</sup>lt;sup>a</sup> The Intergovernmental Panel on Climate Change Good Practice Guidance for Land Use, Land-Use Change and Forestry.