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English only

Annual status report of the annual inventory of Monaco

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 2014 as originally submitted by the Party.

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

AAU: assigned amount unit CER: certified emission reduction

CRF: common reporting format ERU: emission reduction unit

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

RMU: removal unit

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

Gases

CO₂: carbon dioxide CH₄: methane

N₂O: nitrous oxide

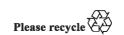
HFCs: hydrofluorocarbons PFCs: perfluorocarbons SF₆: sulphur hexafluoride NO_X: nitrogen oxides CO: carbon monoxide

NMVOCs: non-methane volatile organic

compounds SO₂: sulphur dioxide

GE.14-06322 (E)







			GREENH	OUSE GA	AS INVENT	ORY SUBMIS	SION				
		Date of r	eceipt	Date of re	esubmission	Comments					
	NIR										
tion	CRF tables ^a	15 Apr	il 2014								
General information	Additional information ^b	14 Apr	il 2014			File name: 2	2013-R	2 à R5-	MCO-2	2014-04-14-10)-37
eral in	CRF provided for years	1990–2	2012	I							
Gene	Base year or period ^c	1990	Base y	ear for H	IFCs, PFC	s and SF_6^d	1995	i			
	Gases covered	CO_2	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	NO_X	CO	NMVOCs	SO_2
		✓	√	✓	✓	✓	√	√	✓	√	✓
×	Description	At the t	time of r	ropering	this ropor	t, Monaco ha	ne not e	uhmitte	d ita N	TD	
NIR	Language of NIR	At the	ime or p	reparing	tilis repor	t, Monaco na	is not s	suommue	tu its iv	IK.	
RF^{f}	Missing source category cent for categories includ to the Kyoto Protocol			No mis	ssing sourc	ce category la	arger tl	han 7 pe	er cent	has been ident	ified.

- ^a CRF tables are contained in document FCCC/SBSTA/2006/9, annex II.
- Additional information can be any information submitted by a Party in conjunction with the NIR or CRF tables.
- 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 on 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)).

	SUBMISSION OF SUPPLEMENTARY INFORMATION UNDER ARTICLE 7.1												
		Date of receipt	Date of resubmission	Comments									
ation	KP-LULUCF information ^a												
information	KP-LULUCF CRF ^b	15 April 2014		CRF provided for years: 2008–2012									
of supplementary	Information on Kyoto units (ERUs, CERs, RMUs and AAUs) ^c												
olddns	SEF ^d with Kyoto Protocol units	14 April 2014											
	Change in national system ^e												
Reporting	Change in national registry ^e												
	Minimization of adverse impacts ^e												

^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.

	1	Provision	of info	rmation for	the lates		PAR'		ar in tl	he commo	n ren	orting format: 2012			
		Energy		Industrial pr		SOPU	IIIVC	Agricult		LULUC		KP-LULUCF ^a		Waste	
	ctoral report	1	√	2(I)	✓	3	✓	4	✓	5	✓	5(KP)	✓	6	✓
tab	oles			2(II)	✓						ı				
	ctoral	1.A(a)	✓	2(I).A–G	✓	3.A-D	✓	4.A	✓	5.A	✓	5(KP-I)A.1.1	✓	6.A	✓
	ckground ta tables	1.A(b)	✓	2(II).C	√		<u> </u>	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.	✓		
les		Bunkers	separate	ely 🗸					<u> </u>	5 (II)	✓	5(KP-I)B.3.	✓		
Tables				l.						5 (III)	✓	5(KP-I)B.4.	✓		
										5 (IV)	✓	5(KP-II)1	√		
										5 (V)	✓	5(KP-II)2	√		
											ı	5(KP-II)3	✓		
												5(KP-II)4	√		
												5(KP-II)5	√		
												Accounting table	√		
Su	mmary tables	Summar	y 1.A	✓	Summa	ary 1.B		✓			Sum	mary 2	1	,	/
Otl	her tables	Summar	у 3	✓	Table 7	7 (Key cat	egorie	es) 🗸			Tabl	e 9(a) (Completeness))	,	/
		Table 10	(Trends	s) 🗸				·			Tabl	e 9(b) (Completeness))		
Со	omments			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	information for	the lates	t reported	PAI		ommon rep	orting fo	rmat: 2012 (continue	d)	
als	Provided for gases	CO₂ ✓	CH ₄	/	N_2O	✓	HFCs 🗸		PFCs 🗸		SF_6	/
Totals	Provided for years	1990–2012	1990–	2012	1990-	-2012	1990–2012		2001–2009		1990-	-2012
		Reference appr	oach	Sectoral a	pproach	Difference m	ore than 2 p	er cent	If difference	e is more	than 2	2 per cent
CO ₂	Comparison of CO ₂ from fuel combustion	√		✓					Explanation provided	n		
SF_{δ}		1	<u> </u>		HFCs		PFCs		II.	SF_6		
	Disaggregation by sp	pecies			√							
HFCs, PFCs,	Reporting of actual a	•			Actual	Potential	Actual	Potent	ial	Actual		Potential
HFC	estimates in the categ and SF ₆	ory consumptio	n of halo	ocarbons	✓	✓				√		√
tion vs	Used in	Summary table	1.A	~	Sectoral	report tables	~	Sector	al backgrour	ıd data ta	ables	~
Notation keys	Comments						•					

	PART II Provision of common reporting format tables for years reported																
				Years													
				Base	_		_					_	_			Information gaps	
				year ^a	0661	1995	2000	2005	2006	2007	2008	2009	2010	2011	2012	relating to reporting ^b	Comments
	Sect	oral report: ta	ible 1		√												
		Table 1.A(a)			✓	✓	✓	✓	✓	✓	✓	√	✓	✓	✓		
		Table 1.A(b)			√	✓	✓	✓	√	√	✓	✓	✓	✓	√	✓	
		Table 1.A(c)			√	✓	✓	✓	√	√	✓	✓	✓	✓	√		
Energy	SBDT	Table 1.A(d)	1		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation keys NO and NE are used.
		Table 1.B.1			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation keys NO and NA are used.
		Table 1.B.2			V	✓	✓	✓	√	√	✓	V	✓	✓	√		
		Table 1.C			√	✓	✓	√	✓	✓	√	V	√	√	√		
	Sect	oral	Table 2(I)		✓	✓	✓	√	✓	✓	✓	✓	✓	✓	✓		
ses	repo		Table 2(II)		V	√	√	✓	✓	✓	✓	√	✓	✓	✓	✓	
proces		Table 2(I).A-	-G		V	√	√	✓	√	√	✓	✓	✓	✓	✓		
Industrial processes	SBDT	Table 2(II).C			~	✓	✓	✓	✓	✓	✓	√	✓	✓	✓		No numerical data are reported in this table for the years 1990–2012. For these
hul	SB	Table 2(II).E	3		✓	√		years the notation keys NO and NA are used.									
		Table 2(II).F	,		√												

	PART II Provision of common reporting format tables for years reported (continued)															
	Provision of common reporting format tables for year														ears reported (continued)	
				1		1					I			1		
			Base year ^a	0661	1995	2000	2005	2006	2007	2008	5005	2010	2011	2012	Information gaps relating to reporting ^b	Comments
U	Secto	oral report: Table 3		✓	✓	✓	√	✓	√	✓	✓	✓	✓	✓		
SOPU	SBDT	Table 3.A–D		✓	√	√	✓	√	✓	✓	✓	✓	V	✓		
	Secto	oral report: Table 4		✓	✓	√	✓	✓	✓	✓	✓	✓	√	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation keys NA and NO are used.
		Table 4.A		√	√	✓	✓	√	√	✓	✓	√	✓	✓	√	No numerical data are reported in this table for the years 1990–2012. For these years
		Table 4.B(a)		√	✓	✓	✓	✓	√	√	√	✓	✓	✓		the notation key NO is used.
ure	•	Table 4.B(b)		✓	V	✓	√	√	√	√	√	✓	✓	✓	✓	
Agriculture	L(Table 4.C		✓	√	✓	√	√	√	√	✓	√	√	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation keys NO and NA are used.
Ą		Table 4.D		✓	√	✓	✓	✓	√	✓	✓	~	✓	✓		
		Table 4.E		✓	√	√	✓	√	✓	✓	✓	√	V	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation key NO is used.
		Table 4.F		✓	√	√	✓	√	✓	✓	✓	√	√	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation keys NA and NO are used.

								P	rovis	sion (of cor	mmo	n rep	orti	PART II ng format tables for ye	ears reported (continued)
			Years													
			Base year ^a	0661	1995	2000	2005	2006	2007	2008	2009	2010	2011	2012	Information gaps relating to reporting ^b	Comments
	Secto	oral report: Table 5		✓	✓	√	✓	√	✓	✓	✓	✓	√	✓		
		Table 5.A		✓	✓	√	✓	√	✓	✓	✓	✓	√	√		
		Table 5.B		√	√	✓	✓	√	√	√	√	V	V	√		No numerical data are reported in this table for the years 1990–2012. For these years
		Table 5.C		✓	~	V	✓	✓	✓	√	✓	V	V	✓		the notation key NO is used.
		Table 5.D		√	✓	✓	✓	√	✓	√	√	V	V	√		
		Table 5.E		✓	√	√	✓	√	√	√	✓	V	V	✓		
LULUCF	T(Table 5.F		✓	√	✓	✓	✓	√	✓	✓	✓	✓	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation key NO is used.
77	SBDT	Table 5 (I)		✓	√	V	√	√	✓	√	✓	✓	V	√		No numerical data are reported in this table for the years 1990–2012. For these years
		Table 5 (II)		✓	√	V	√	√	✓	√	✓	✓	V	√		the notation keys NO and NA are used.
		Table 5 (III)		✓	✓	✓	✓	✓	√	✓	✓	✓	✓	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation key NO is used.
		Table 5 (IV)		✓	√	√	√	√	√	✓	✓	✓	√	√		No numerical data are reported in this table for the years 1990–2012. For these years the notation keys NO and NA are used.
		Table 5 (V)		√	✓	√	✓	✓	√	✓	√	✓	√	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation key NO is used.

	PART II Provision of common reporting format tables for years reported (continued)															
			Years													
			Base year ^a	0661	2661	2000	2005	2006	2007	2008	2009	2010	2011	2012	Information gaps relating to reporting ^b	Comments
	Sect	oral report: Table 5 (KP)								✓	✓	√	✓	√		
		Table 5 (KP-I) A.1.1								✓	✓	V	✓	✓		
		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								✓	✓	✓	✓	√		
LUCF	TO	Table 5 (KP-I) B.2								√	✓	√	√	✓		No numerical data are reported in this table for the years 2008–2012. For these
KP-LULUCF	SBDT	Table 5 (KP-I) B.3								✓	√	√	√	✓		years the notation key NA is used.
k		Table 5 (KP-I) B.4								✓	√	√	✓	√		
		Table 5 (KP-II) 1								✓	✓	√	✓	~		1
		Table 5 (KP-II) 2								√	√	√	√	√		1
		Table 5 (KP-II) 3								✓	✓	√	✓	~		1
		Table 5 (KP-II) 4								√	√	V	✓	√		1
		Table 5 (KP-II) 5								✓	✓	√	✓	~		1
	Acc	ounting table								✓	√	√	✓	√		

	PART II Provision of common reporting format tables for years reported (continued)															
			L				Prov	ISIOII	01 00	Ж	оп ге	epor	at tables for years repo	rtea (continuea)		
			Years	1	1	1	1		1	1	1	1		1		
			Base year ^a	0661	1995	2000	2005	2006	2002	2008	2009	0102	2011	2012	Information gaps relating to reporting ^b	Comments
	Sect	oral report: Table 6		✓	√	✓	✓	✓	✓	✓	✓	✓	✓	✓		
ste		Table 6.A		✓	✓	✓	✓	√	√	✓	√	✓	✓	✓		No numerical data are reported in this table for the years 1990–2012. For these years the notation keys NO and NA are used.
Waste	SBDT	Table 6.B		~	√	√	✓	✓	✓	✓	✓	✓	✓	✓		
		Table 6.C		✓	✓	✓	√	√		No numerical data are reported in this table for the year 1990. For this year the notation keys NA and NO are used.						
		Summary 1.A		~	√	√	✓	✓	✓	✓	✓	✓	✓	✓		
		Summary 1.B		√	✓	√	✓	✓	✓	✓	✓	✓	√	✓		
		Summary 2 (CO ₂ equivalent emissions)		✓	✓	✓	✓	√	V	√	V	✓	√	✓		
tables		Summary 3 (Methods/emission factors)		✓	✓	✓	✓	√	√	✓	✓	✓	✓	✓	√	
other		Table 7 (Key categories)		✓	V	√	✓	✓	✓	✓	✓	✓	✓	✓		
Summary and other tables		Table 8(a) (Recalculation – recalculated data)		✓	✓	√	✓	√	√	✓	√	✓	✓			
Sum		Table 8(b) (Recalculation – explanatory information)		✓											✓	
		Table 9(a) (Completeness)		√	V	√	✓	√	√	✓	√	✓	✓	✓	✓	
		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).

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			PART III			
		Provision of info	ormation relating to recalc	ulations		
Table 8(a) (Recalculated data)	✓	Comments				
Recalculation reported for years	1990–2011					
Recalculated sectors/gases	Energy	Industrial processes	SOPU	Agriculture	LULUCF	Waste
CO ₂	✓		√			
CH ₄	✓					
N_2O	√		✓			√
HFCs		✓				
PFCs		✓				
SF ₆						
Table 8(b) (Explanatory information)						
Percentage difference in aggregate	e greenhouse gas	Base year estimate: ^a	With LULUCF:	1.04%	Without LULUCF:	1.04%
emission		Latest recalculated year: ^b	With LULUCF:	0.26%	Without LULUCF:	0.26%

^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, pa	aragraphs 3 and 4
			Provided	Observation
		ons by sources and removals by sinks are clearly distinguished from emissions from categories ed in Annex A to the Kyoto Protocol		At the time of preparing this report, Monaco has not
6		ation on how inventory methodologies have been applied taking into account IPCC good practice ce for LULUCF ^a and decision 16/CMP.1		submitted its NIR.
-5 sha	Inform	ation 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		
:MP.1,		Land subject to elected activities under Article 3.4		At the time of preparing this report, Monaco has not
ision 15/C		ation on the spatial assessment unit for determining the area of accounting for afforestation, tation and deforestation		submitted its NIR.
Reporting requirements under decision 15/CMP.1, annex, paragraphs 5–9	geogra	ation on GHG emissions/removals resulting from activities under Article 3.3 and 3.4, for all phical locations reported in the current and previous years since the beginning of the commitment or the onset of the activity, whichever comes later		
equiremen		ation on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic) that are not accounted for		
eporting r		ation on anthropogenic GHGs from LULUCF activities under Article 3.3 and 3.4 factoring out als from:		
R		Elevated CO ₂ concentrations above pre-industrial levels		
		Indirect nitrogen deposition		At the time of preparing this report, Monaco has not submitted its NIR.
		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.

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	PART IV						
Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3 and 4 (continued)							
			Provided	Observation			
6-	Specific information to be reported for Article 3.3 activities:						
Reporting requirements under decision 15/CMP.1, annex, paragraphs 5-		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		At the time of preparing this report, Monaco has not submitted its NIR.			
		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		At the time of preparing this report, Monaco has not submitted its NIR.			
		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					