TABLE 6 CROSS-SECTORAL REPORT: Indirect emissions of N2O and CO2(Sheet 1 of 1)

CDEENHOUSE CASSOUDCE AND SINU		SO	URCE EMIS	SIONS		INDIRECT EMISSIONS			
GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CH ₄	CO	NMVOC	NO _x	NH3	CO2	N2O		
			(Gg)				(Gg)		
Total									
1. Energy									
2. Industrial processes and product use					5				
3. AFOLU - Agriculture				P					
4. AFOLU - Forestry and other land use									
Indirect N2O emissions from managed soils				F					
Indirect N2O emissions from manure management									
Other (please specify)									
5. Waste		NF							
6. Other (please specify)									

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A) (Sheet 1 of 3)

Year

Submission

Country

GREENHOUSE GAS SOURCE AND	Net CO ₂	CH ₄	N ₂ O	HFCs ⁽¹⁾	PFCs ⁽¹⁾	SF ₆	NF ₃	halogenated	NO _x	CO	NMVOC	SO ₂
SINK CATEGORIES er	missions/remova	ls										
		(Gg)										
Total National Emissions and Removals												
1. Energy												
A. Fuel Combustion Reference Approach ⁽²⁾												
Sectoral Approach ⁽²⁾												
1. Energy Industries												
2. Manufacturing Industries and Construction												
3. Transport												
4. Other Sectors												
5. Other												
B. Fugitive Emissions from Fuels												1
1. Solid Fuels												
2. Oil and Natural Gas												
3. Other Emissions from Energy Production												
C. CO2 Transport and Storage												
2. Industrial Processes												
A. Mineral Products												1
B. Chemical Industry												
C. Metal Production												
D. Non-Energy Products from Guels and Solvent Use Other	Production ⁽³⁾											
E. Electronic Industry Production of Halocarbons and SF ₆												
F. Product Uses as ODS Substitutes Consumption of Haloc:	arbons and SF ₆											
G. Other Product Manufacture and Use Consumption of Ha	locarbons and SI	27										
H. Other												

Note: A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

 \mathbf{P} = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

Note: All footnotes for this table are given at the end of the table on sheet 3.

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A) (Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND	Net CO ₂	CH ₄	N ₂ O	HF	Cs ⁽¹⁾	PF	Cs ⁽¹⁾	SI	F ₆	NO _x	СО	NMVOC	SO ₂
SINK CATEGORIES	emissions/removals			Р	Α	Р	Α	Р	Α				
		(Gg)			CO ₂ equiv	alent (Gg)				(G	g)		
3. Solvent and Other Product Use													
3. Agriculture, Forestry and Other Land Use													
A. AFOLU - Agriculture													
A. Enteric Fermentation													
B. Manure Management													
C. Rice Cultivation													
D. Agricultural Soils ⁽⁴⁾													
E. Prescribed Burning of Savannas													
F. Field Burning of Agricultural Residues													
G. Other													
B. AFOLU - Land Use, Land-Use Change and Forestry	(5)												
A. Forest Land	(5)												
B. Cropland	(5)												
C. Grassland	(5)												
D. Wetlands	(5)												
E. Settlements	(5)												
F. Other Land	(5)												
G. Other	(5)												
C. Aggregate sources and non-CO2 emissions sourc	es on land												
4. Waste				1									
A. Solid Waste Disposal on Land													
B. Biological Treatment of Solid Waste	(6)												
C. Waste Incineration Incineration and Open Burning of Wa	ste												
D. Waste Water Handling Treatment and Discharge	(6)												
E. Other													
5. Other (please specify) ⁽⁷⁾													
Indirect CO2 and N2O													

Note: All footnotes for this table are given at the end of the table on sheet 3.

Year

Submission

Country

SUMMARY 1.A SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7A) (Sheet 3 of 3)

Year Submission Country

GREENHOUSE GAS SOURCE AND	Net CO ₂	CH ₄	N ₂ O	Η	FCs	PI	FCs	S	SF ₆ NO		СО	NMVOC	SO ₂
SINK CATEGORIES	emissions/removals			Р	Α	Р	А	Р	А				
	(Gg)	•		CO ₂ equiv	alent (Gg)	•		•	(0	Gg)		
Memo Items: ⁽⁸⁾													
International Bunkers													
Aviation													
Marine													
Multilateral Operations													
CO ₂ Emissions from Biomass													
CO2 captured													
Long-term storage of C in waste disposal sites													
Indirect CO2 and N2O													

(1) The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

⁽²⁾ For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in the documentation box to Table 1.A.(c). For estimating national total emissions, the results from the Sectoral approach should be used, where possible.

⁽³⁾ Other Production includes Pulp and Paper and Food and Drink Production.

⁽⁴⁾ Parties which previously reported CO_2 from soils in the Agriculture sector should note this in the NIR.

⁽⁵⁾ For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽⁶⁾ CO₂ from source categories Solid Waste Disposal on Land and Waste Incineration should only be included if it stems from non-biogenic or inorganic waste streams. Only emissions from

Waste Incineration Without Energy Recovery are to be reported in the Waste sector, whereas emissions from Incineration With Energy Recovery are to be reported in the Energy sector.

(7) If reporting any country-specific source category under sector "7. Other", detailed explanations should be provided in Chapter 9: Other (CRF sector 7) of the NIR

 $^{(8)}$ Countries are asked to report emissions from international aviation and marine bunkers and multilateral operations, as well as CO₂ emissions from biomass, under Memo Items. These emissions should not be included in the national total emissions from the energy sector. Amounts of biomass used as fuel are included in the national energy consumption but the corresponding CO₂ emissions are not included in the national total as it is assumed that the biomass is produced in a sustainable manner. If the biomass is harvested at an unsustainable rate, net CO₂ emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

SUMMARY 1.B SHORT SUMMARY REPORT FOR NATIONAL GREENHOUSE GAS INVENTORIES (IPCC TABLE 7B) (Sheet 1 of 1)

Year Submission

Country

GREENHOUSE GAS SOURCE AND	Net CO ₂	CH₄	N ₂ O	HF	Cs ⁽¹⁾	PF	Cs ⁽¹⁾	S	F ₆	NO _x	CO	NMVOC	SO ₂
SINK CATEGORIES	emisions/removals	~4	2	P	A	Р 11	A	P	A		00	1001000	~~ 2
		Gg)			CO ₂ equiv	alent (Gg)		-			(Gg)		
Total National Emissions and Removals													
1. Energy													
A. Fuel Combustion Reference Approach ⁽²⁾													
Sectoral Approach ⁽²⁾													
B. Fugitive Emissions from Fuels													
2. Industrial Processes			560										
3. Agriculture, Forestry and Other Land Use Solvent and	Oth	E											
A. Agriculture ⁽³⁾		216											
B. Foresty and Other Land Use, Land-Use Change an	(4)	E											
6. Waste	P												
7. Other													
Memo Items: ⁽⁵⁾													
International Bunkers													
Aviation													
Marine													
Multilateral Operations													
CO ₂ Emissions from Biomass													

Note: A = Actual emissions based on Tier 2 approach of the IPCC Guidelines.

P = Potential emissions based on Tier 1 approach of the IPCC Guidelines.

(1) The emissions of HFCs and PFCs are to be expressed as CO₂ equivalent emissions. Data on disaggregated emissions of HFCs and PFCs are to be provided in Table 2(II) of this common reporting format.

⁽²⁾ For verification purposes, countries are asked to report the results of their calculations using the Reference approach and to explain any differences with the Sectoral approach in the documentation box to Table 1.A.(c). For estimating national total emissions, the result from the Sectoral approach should be used, where possible.

⁽³⁾ Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

⁽⁴⁾ For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽⁵⁾ Countries are asked to report emissions from international aviation and marine bunkers and multilateral operations, as well as CO₂ emissions from biomass, under Memo Items. These emissions should not be included in the national total emissions from the energy sector. Amounts of biomass used as fuel are included in the national energy consumption but the corresponding CO₂ emissions are not included in the national total as it is assumed that the biomass is produced in a sustainable manner. If the biomass is harvested at an unsustainable rate, net CO₂ emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

SUMMARY 2 SUMMARY REPORT FOR CO2 EQUIVALENT EMISSIONS (Sheet 1 of 1)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES Total (Net Emissions)⁽¹⁾ 1. Energy

A. Fuel Combustion (Sectoral Approach)

 4. Other Sectors
 5. Other
 B. Fugitive Emissions from Fuels 1. Solid Fuels 2. Oil and Natural Gas 3. Other Emis

C. CO2 Transport and Storage 2. Industrial Processes A. Mineral Products B. Chemical Industry C. Metal Production

Energy Industries
 Manufacturing Industries and Construction
 Transport

ons from E

Energy Products from Guels and Solvent Use Other

									Submission
									Country
	CO2 ⁽¹⁾	CH ₄	N ₂ O	HFCs ⁽²⁾	PFCs ⁽²⁾	SF6 (2)	NF3	er halogenated g	Total
			•	CO ₂	equivalent (Gg)				
		-							
_									
			1	Co					
			20	9					
Prod.	ction- ⁽³⁾		1000						
_		0	ک در						
rbons	and SF ₆	00		ed					
ocarb	ons and SF	<u> </u>							

E. Electronic Industry Production of Halocarbons and SF ₆		be l	218						
F. Product Uses as ODS Substitutes Consumption of Halocarbons	and SF6	10C							
F. Product Uses as ODS Substitutes Consumption of Halocarbons G. Other Product Manufacture and Use Consumption of Halocarb	ons and SEA (
H. Other	10								
3. Agriculture, Forestry and Other Land Use									
3. Solvent and Other Product Use									
4. Agriculture									
A. Enteric Fermentation									
B. Manure Management									
C. Rice Cultivation									
D. Agricultural Soils ⁽³⁾									
E. Prescribed Burning of Savannas									
F. Field Burning of Agricultural Residues									
G. Other									
5. Land Use, Land-Use Change and Forestry ⁽¹⁾									
A. Forest Land									
B. Cropland									
C. Grassland									
D. Wetlands									
E. Settlements									
F. Other Land									
G. Other									
C. Aggregate sources and non-CO2 emissions sources of	n land								
4. Waste									
A. Solid Waste Disposal-on Land									
B. Biological Treatment of Solid Waste									
C. Waste Incineration Incineration and Open Burning of Waste									
D. Waste Water Handling Treatment and Discharge									
E. Other									
5. Other (as specified in Summary 1.A)									
Indirect emissions									
Memo Items: ⁽⁴⁾									
International Bunkers									
Aviation									
Marine									
Multilateral Operations									
CO ₂ Emissions from Biomass									
CO2 captured									
Long-term storage of C in waste disposal sites									
Indirect CO2 and N2O									
									<u> </u>
			Tota	l direct CO2 Equiva	lent Emissions wi	thout Land Use	Land-Use Chan	ge and Forestry	
				otal direct CO ₂ Equiva					

Total direct CO2 Equivalent Emissions with Land Use, Land-Use Change and Forestry	
Total Direct and Indirect CO2 Equivalent Emissions without Land Use, Land-Use Change and Forestry	
Total CO2 Equivalent Emissions with Land Use, Land-Use Change and Forestry	

(1) For CO₂ from Land Use, Land-use Change and Forestry the net emissions/removals are to be reported. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+). (²⁾ Actual emissions should be included in the national totals. If no actual emissions were reported, potential emissions should be included.

⁽³⁾ Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

⁽⁴⁾ See footnote 8 to table Summary 1.A.

Year Submission

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED (Sheet 1 of 2)

Year Submission Country

GREENHOUSE GAS SOURCE AND SINK	0	CO ₂	C	H ₄	Ν	20	H	FCs	PF	^C Cs	S	F ₆
CATEGORIES	Method applied	Emission factor	Method applied	Emission facto								
1. Energy												
A. Fuel Combustion												
 Energy Industries 												
Manufacturing Industries and Construction												
3. Transport					meu							
Other Sectors					alle							
5. Other					0							
B. Fugitive Emissions from Fuels					<u> </u>							
 Solid Fuels 												
2. Oil and Natural Gas			6		200							
2. Industrial Processes			A O P	<u> </u>	6							
A. Mineral Products												
B. Chemical Industry				<u> </u>								
C. Metal Production				1								
D. Other Production												
E. Production of Halocarbons and SF ₆												
F. Consumption of Halocarbons and SF ₆												
G. Other												

Use the following notation keys to specify the method applied:		
D (IPCC default)	T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively)	CR (CORINAIR)
RA (Reference Approach)	T2 (IPCC Tier 2)	CS (Country Specific)
T1 (IPCC Tier 1)	T3 (IPCC Tier 3)	OTH (Other)

If using more than one method within one source category, list all the relevant methods. Explanations regarding country-specific methods, other methods or any modifications to the default IPCC methods, as well as information regarding the use of different methods per source category where more than one method is indicated, should be provided in the documentation box. Also use the documentation box to explain the use of notation OTH.

Use the following notation keys to specify the emission factor used:

CR (CORINAIR) PS (Plant Specific)	D (IPCC default)	CS (Country Specific)	OTH (Other)
	CR (CORINAIR)	PS (Plant Specific)	

Where a mix of emission factors has been used, list all the methods in the relevant cells and give further explanations in the documentation box. Also use the documentation box to explain the use of notation OTH.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED (Sheet 2 of 2)

GREENHOUSE GAS SOURCE AND SINK	C	202	(CH ₄	N	2 0	HI	Cs	P	FCs	5	SF ₆
CATEGORIES	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor
3. Solvent and Other Product Use												
4. Agriculture												
A. Enteric Fermentation												
B. Manure Management												
C. Rice Cultivation												
D. Agricultural Soils												
E. Prescribed Burning of Savannas							00					
F. Field Burning of Agricultural Residues						<u>re</u> or						
G. Other						are						
5. Land Use, Land-Use Change and Forestry						(O)						
A. Forest Land					<u>upo</u>							
B. Cropland												
C. Grassland				6	ð							
D. Wetlands				<u> 40 p</u>								
E. Settlements												
F. Other Land												
G. Other												
6. Waste												
A. Solid Waste Disposal on Land												
B. Waste-water Handling												
C. Waste Incineration												
D. Other												
7. Other (as specified in Summary 1.A)												

Use the following notation keys to specify the method applied:

D (IPCC default)	T1a, T1b, T1c (IPCC Tier 1a, Tier 1b and Tier 1c, respectively)	CR (CORINAIR)
RA (Reference Approach)	T2 (IPCC Tier 2)	CS (Country Specific)
T1 (IPCC Tier 1)	T3 (IPCC Tier 3)	OTH (Other)

If using more than one method within one source category, list all the relevant methods. Explanations regarding country-specific methods, other methods or any modifications to the default IPCC methods, as well as information regarding the use of different methods per source category where more than one method is indicated, should be provided in the documentation box. Also use the documentation box to explain the use of notation OTH.

Use the following notation keys to specify the emission factor used:

D (IPCC default)	CS (Country Specific)
CR (CORINAIR)	PS (Plant Specific)

OTH (Other)

Where a mix of emission factors has been used, list all the methods in the relevant cells and give further explanations in the documentation box. Also use the documentation box to explain the use of notation OTH.

Documentation box:

• Parties should provide the full information on methodological issues, such as methods and emission factors used, in the relevant sections of Chapters 3 to 9 (see section 2.2 of each of Chapters 3 - 9) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and further details are needed to understand the content of this table.

Where a mix of methods/emission factors has been used within one source category, use this documentation box to specify those methods/emission factors for the various sub-sources where they have been applied.
Where the notation OTH (Other) has been entered in this table, use this documentation box to specify those other methods/emission factors.

Year Submission

Country

TABLE 7 SUMMARY OVERVIEW FOR KEY CATEGORIES (Sheet 1 of 1)

KEY CATEGORIES OF EMISSIONS AND REMOVALS	Gas	Criteria used	for key source id	entification	Key category excluding LULUCF ⁽¹⁾	Key category including LULUCF ⁽¹⁾	Comments ⁽¹⁾
		L	Т	Q	LULUUF	LULUUF	
Specify key categories according to the national level of disaggregation used:			2				
For example: 4.B Manure Managment	CH4	Х	CEV!		Х		
			112-				
		QE					
		<u> </u>					
	EV						

Note: L = Level assessment; T = Trend assessment; Q = Qualitative assessment; ⁽¹⁾ The term "key categories" refers to both the key source categorie as a areased in the IPCC good practice guidance and the key categories as addressed in the IPCC good practice guidance for LULUCF.

(2) For estimating key categories Parties may chose the disaggregation level presented as an example in table 7.1 of the IPCC good practice guidance (page 7.6) and table 5.4.1 (page 5.31) of the IPCC good practice guidance for LULUCF, the level used in table Summary 1.A of the common reporting format or any other disaggregation level that the Party used to determine its key categories.

Documentation box:

Parties should provide the full information on methodologies used for identifying key categories and the quantitative results from the level and trend assessments (according to tables 7.1–7.3 of the IPCC good practice guidance and tables 5.4.1–5.4.3 of the IPCC good practice guidance for LULUCF) in Annex 1 to the NIR.

TABLE 8(a) RECALCULATION - RECALCULATED DATA (Sheet 1 of 4) Recalculated year:

Recalculated year: Year

Submission Country

				С	02			CH ₄						N ₂ O					
GREE	NHOUSE GAS SOURCE AND SINK CATEGORIES	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽³⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽³⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽³⁾
		(CO ₂ equivalent (G	g)		(%)	1		CO2 equivalent (G	9		(%)		(CO2 equivalent (Gg	9		(%)	
	ational Emissions and Removals																		
1. Ene 1.A.	Fuel Combustion Activities																		
1.A.1.	Energy Industries																		
1.A.2.	Manufacturing Industries and Construction								updat										
1.A.3.	Transport								dat										
1.A.4.	Other Sectors							he	UP-										
1.A.5.	Other						¢	100											
1.B.	Fugitive Emissions from Fuels																		
1.B.1.	Solid fuel																		
1.B.2.	Oil and Natural Gas																		
	istrial Processes																		
2.A.	Mineral Products																		
2.B.	Chemical Industry																		
2.C.	Metal Production																		
2.D.	Other Production																		
2.G.	Other																		

Note: All footnotes for this table are given at the end of the table on sheet 2.

teet 1 of 4)

TABLE 8(a) RECALCULATION - RECALCULATED DATA (Sheet 2 of 4) Recalculated year:

Recalculated year: Year Submission

Country

				(02					CI	H ₄					N	20		
GREEN CATEG	HOUSE GAS SOURCE AND SINK ORIES	Previous submission	Latest submission :O2 equivalent (G2	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾ (%)	Impact of recalculation on total emissions including LULUCF ⁽³⁾	Previous submission	Latest submission O2 equivalent (G	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾ (%)	Impact of recalculation on total emissions including LULUCF ⁽³⁾	Previous submission	Latest submission O2 equivalent (G	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾ (%)	Impact of recalculation on total emissions including LULUCF ⁽³⁾
Total N	ational Emissions and Removals		202 equivalent (Og	5)		(78)			O2 equivalent (O)	5)		(70)			O2 equivalent (O)	5)		(70)	
3. Solve	ent and Other Product Use																		
4. Agri	culture																		
4.A.	Enteric Fermentation																		
4.B.	Manure Management																		
4.C.	Rice Cultivation																		
4.D.	Agricultural Soils (4)							_											
4.E.	Prescribed Burning of Savannas							_											
4.F.	Field Burning of Agricultural Residues							_		*ed									
4.G.	Other									gar									
5. La	nd Use, Land-Use Change and Forestry (net) ⁽⁵⁾								be ur	dated									
5.A.	Forest Land							70											
5.B.	Cropland																		
5.C.	Grassland																		
5.D.	Wetlands																		
5.E.	Settlements																		
5.F.	Other Land																		
5.G.	Other																		

Note: All footnotes for this table are given at the end of the table on sheet 2.

 TABLE 8(a) RECALCULATION - RECALCULATED DATA (Sheet 3 of 4) Recalculated year:

			С	02					C	H4				N	20		
GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽³⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	
	(CO2 equivalent (G	g)		(%)		(O2 equivalent (G	g)		(%)	(CO ₂ equivalent (G	g)		(%)	
6. Waste																	
6.A. Solid Waste Disposal on Land																	
6.B. Waste-water Handling																	
6.C. Waste Incineration																	
6.D. Other						reo :											
7. Other (as specified in Summary 1.A)					19	Co.											
					<u>npda</u>												
Memo Items:																	
International Bunkers				60	2												
Multilateral Operations				40													
CO2 Emissions from Biomass																	

Recalculated year: Year

Submission

Country

TABLE 8(a) RECALCULATION - RECALCULATED DATA (Sheet 4 of 4) Recalculated year:

Recalculated year: Year

Submission

																			Submission
				HI	Cs					PF	Cs					s	F ₆		
GREENHOUSE GAS SOURCE AND SI CATEGORIES	P	Previous Ibmission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽³⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽³⁾	Previous submission	Latest submission	Difference	Difference ⁽¹⁾	Impact of recalculation on total emissions excluding LULUCF ⁽²⁾	Impact of recalculation on total emissions including LULUCF ⁽³⁾
		Ċ	O2 equivalent (Gg	g)		(%)		(O2 equivalent (G	g)		(%)		(O ₂ equivalent (G	g)		(%)	
Total Actual Emissions																			
2.C.3. Aluminium Production																			
2.E. Production of Halocarbons and SF ₆																			
2.F. Consumption of Halocarbons and SF	6																		
2.G. Other																			
Potential Emissions from Consumption o and SF ₆	f HFCs/PFCs							ateo											
								19		-									
				Previous s			bmission 1	Difference	Difference ⁽¹⁾										
					(O ₂ equivalent (ae T		(%)										
Total CO2 Equivalent Emissions with	h Land Use, Land-Use	e Change and	Forestry			<u> </u>	6												
Total CO2 Equivalent Emissions wit	hout Land Use, Land-U	Use Change a	and Forestry			10				1									

(1) Estimate the percentage change due to recalculation with respect to the previous submission (percentage change = 100 x [(LS-PS)/PS], where LS = latest submission and PS = previous submission. All cases of recalculation of the estimate of the source/sink category should be addressed and explained in table 8(b).

(2) Total emissions refer to total aggregate GHG emissions expressed in terms of CO2 equivalent, excluding GHGs from the LULUCF sector. The impact of the recalculation on the total emissions is calculated as follows: impact of recalculation (%) = 100 x [(source (LS) - source (PS))/total emissions (LS)], where LS = latest submission, PS

= previous submission.

(4) Parties which previously reported CO₂ from soils in the Agriculture sector should note this in the NIR.

(5) Net CO2 emissions/removals to be reported.

Documentation box:

Parties should provide detailed information on recalculations in Chapter 10: Recalculations and Improvements, and in the relevant sections of Chapters 3 to 9 (see section 2.5 of each of Chapters 3 - 9) of the NIR. Use this documentation box to provide r

TABLE 8(b) RECALCULATION - EXPLANATORY INFORMATION (Sheet 1 of 1)

Year Submission Country

			RECALCULATION DUE TO								
G				CHANGES IN:			Other shares in data (a.g. statistical				
-	cify the sector and source/sink category ⁽¹⁾ where changes in estimates have irred:	GHG	Methods ⁽²⁾	Emission factors ⁽²⁾	Activity data ⁽²⁾	Addition/removal/ reallocation of source/sink categories	Other changes in data (e.g. statistical or editorial changes, correction of errors)				

(1) Enter the identification code of the source/sink category (e.g. 1.B.1) in the first column and the name of the category (e.g. Fugitive Emissions from Solid Fuels) in the second column of the table. Note that the source categories entered in this table should match those used in table 8(a).
 (2) Explain changes in methods, emission factors and activity data that have resulted in recalculation of the estimate of the source/sink as indicated in table 8(a). Include changes in the assumptions and coefficients in the Methods column.

Documentation box:

Parties should provide the full information on recalculations in Chapter 10: Recalculations and Improvements, and in the relevant sections of Chapters 3 to 9 (see section 2.5 of each of Chapters 3 to 9) of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and further details are needed to understand the content of this table. References should point particularly to the sections of the NIR in which justifications of the changes as to improvements in the accuracy, completeness and consistency of the inventory are reported.

TABLE 9(a) COMPLETENESS - INFORMATION ON NOTATION KEYS (Sheet 1 of 1)

Year Submission Country

		Sources and sinks not estimated (NE) ⁽¹⁾		
GHG	Sector ⁽²⁾	Source/sink category ⁽²⁾		Explanation
CO2				
CH4				
140				
N2O				
HFCs				
PFCs				
SF6				
		Sources and sinks reported elsewhere (IE) ⁽³⁾		
GHG	Source/sink category	Allocation as per IPCC Guidelines	Allocation used by the Party	Explanation
CO2				
CH4				
100				
N2O				
HFCs				
PFCs				
SF6				

(1) Clearly indicate sources and sinks which are considered in the IPCC Guidelines but are not considered in the submitted inventory. Explain the reason for excluding these sources and sinks, in order to avoid arbitrary interpretations. An entry should be made for each source/sink category for which the notation key NE (not estimated) is entered in the sectoral tables.

(2) Indicate omitted source/sink following the IPCC source/sink category structure (e.g. sector: Waste, source category: Waste-Water Handling).

⁽³⁾ Clearly indicate sources and sinks in the submitted inventory that are allocated to a sector other than that indicated by the IPCC Guidelines. Show the sector indicated in the IPCC Guidelines and the sector to which the source or sink is allocated in the submitted inventory. Explain the reason for reporting these sources and sinks in a different sector. An entry should be made for each source/sink for which the notation key IE (included elsewhere) is used in the sectoral tables.

TABLE 9(b)COMPLETENESS - INFORMATION ON ADDITIONAL GREENHOUSE GASES(Sheet 1 of 1)

Year Submission

Country

Additional GHG emissions reported ⁽¹⁾										
GHG	Source category	Emissions (Gg)	Estimated GWP value (100-year horizon)	quivalent (Gg)	Reference to the source of GWP value	Explanation				

(1) Parties are encouraged to provide information on emissions of given of gases whose GWP values have not yet been agreed upon by the COP. Include such gases in this table if they are considered in the submitted inventory. Provide additional information on the estimation methods used.

Documentation box:

Parties should provide detailed information regarding completeness of the inventory in the NIR (Chapter 1.8: General Assessment of the Completeness, and Annex 5). Use this documentation box to provide references to relevant sections of the NIR if any additional information and further details are needed to understand the content of this table.

TABLE 10 EMISSION TRENDS

 $\rm CO_2$ (Sheet 1 of 5)

Year Submission

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	(Years 1991 to latest reported year)	Change from base to latest reported year
		(G	g)	%
1. Energy				
A. Fuel Combustion (Sectoral Approach)				
 Energy Industries 				
2. Manufacturing Industries and Construction				
3. Transport				
4. Other Sectors				
5. Other				
B. Fugitive Emissions from Fuels				
1. Solid Fuels				
Oil and Natural Gas				
2. Industrial Processes				
A. Mineral Products				
B. Chemical Industry				
C. Metal Production				
D. Other Production				
E. Production of Halocarbons and SF ₆				
F. Consumption of Halocarbons and SF ₆				
G. Other				
3. Solvent and Other Product Use				
4. Agriculture				
A. Enteric Fermentation				
B. Manure Management				
C. Rice Cultivation				
D. Agricultural Soils				
E. Prescribed Burning of Savannas				
F. Field Burning of Agricultural Residues				
G. Other				
5. Land Use, Land-Use Change and Forestry ⁽²⁾				
A. Forest Land				
B. Cropland				
C. Grassland		800		
D. Wetlands	28	1 c		
E. Settlements				
F. Other Land				
G. Other	e			
6. Waste		sted		
A. Solid Waste Disposal on Land				
B. Waste-water Handling				
C. Waste Incineration				
D. Other				
7. Other (as specified in Summary 1.A)				
7. Other (as specifica in Summary 1.1)				
Indirect CO2 Emissions				
Hurreet CO2 Emissions				
Tetal line (CO projectory in the line and CO from LULUCE				
Total direct CO ₂ emissions including net CO ₂ from LULUCF				
Total direct CO2 emissions excluding net CO2 from LULUCF				
Total direct and indirect CO ₂ emissions including net CO ₂ from LULUCF				
Total direct and indirect CO2 emissions excluding net CO2 from LULUCF				
Memo Items:				
International Bunkers				
Aviation				
Marine				
Multilateral Operations				
CO ₂ Emissions from Biomass				
CO2 captured				
Long-term storage of C in waste disposal sites				
Indirect CO2 Emissions				

Indirect CO2 Emissions Note: All footnotes for this table are given at the end of the table on sheet 5.

Country

TABLE 10 EMISSION TRENDS CH₄

(Sheet 2 of 5)

Year Submission Country

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	(Years 1991 to laters reported year)	Change from base to latest reported year
1. Energy			40-	,.
A. Fuel Combustion (Sectoral Approach)			<u></u>	
1. Energy Industries				
		he		
2. Manufacturing Industries and Construction		<u>p</u>		
3. Transport		9		
4. Other Sectors				
5. Other				
B. Fugitive Emissions from Fuels				
1. Solid Fuels				
Oil and Natural Gas				
2. Industrial Processes				
A. Mineral Products				
B. Chemical Industry				
C. Metal Production				
D. Other Production				
E. Production of Halocarbons and SF ₆				
F. Consumption of Halocarbons and SF ₆				
G. Other				
3. Solvent and Other Product Use				
4. Agriculture				
A. Enteric Fermentation				
B. Manure Management				
C. Rice Cultivation				
D. Agricultural Soils				
E. Prescribed Burning of Savannas				-
F. Field Burning of Agricultural Residues				-
G. Other				-
5. Land Use, Land-Use Change and Forestry				
A. Forest Land				
B. Cropland				
C. Grassland				
D. Wetlands				_
E. Settlements				
F. Other Land				
G. Other				
6. Waste				
A. Solid Waste Disposal on Land				
B. Waste-water Handling				
C. Waste Incineration				
D. Other				
7. Other (as specified in Summary 1.A)				
Total CH ₄ emissions including CH ₄ from LULUCF				
Total CH ₄ emissions excluding CH ₄ from LULUCF				
Memo Items:				
International Bunkers				
Aviation				
Marine				
Multilateral Operations			1	+
CO ₂ Emissions from Biomass				

Note: All footnotes for this table are given at the end of the table on sheet 5.

TABLE 10 EMISSION TRENDS N_2O (Sheet 3 of 5)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	(Years 1991 to latest reported year)	Change from base to latest reported year
)(Gg)	%
1. Energy				
A. Fuel Combustion (Sectoral Approach)				
Energy Industries Manufacturing Industries and Construction				
3. Transport				
4. Other Sectors				
5. Other				
B. Fugitive Emissions from Fuels				
1. Solid Fuels				
2. Oil and Natural Gas				
2. Industrial Processes				
A. Mineral Products				
B. Chemical Industry				
C. Metal Production				
D. Other Production E. Production of Halocarbons and SF ₆				
E. Production of Halocarbons and SF_6 F. Consumption of Halocarbons and SF_6				
F. Consumption of Halocarbons and Sr_6 G. Other				
3. Solvent and Other Product Use				
4. Agriculture				
A. Enteric Fermentation				
B. Manure Management				
C. Rice Cultivation				
D. Agricultural Soils	1			
E. Prescribed Burning of Savannas			A	
F. Field Burning of Agricultural Residues		e upda	<u>~ @0</u>	
G. Other		19		
5. Land Use, Land-Use Change and Forestry		<u>0</u>		
A. Forest Land		114		
B. Cropland	10	0		
C. Grassland		<u>)</u> <u> </u>		
D. Wetlands	10			
E. Settlements F. Other Land				
G. Other 6. Waste				
A. Solid Waste Disposal on Land				
B. Waste-water Handling				
C. Waste Incineration				
D. Other				
7. Other (as specified in Summary 1.A)				
Indirect N2O Emissions				
Total Direct N ₂ O emissions including N ₂ O from LULUCF				
Total Durect N ₂ O emissions excluding N ₂ O from LULUCF				
Total Direct and Indirect N ₂ O emissions including N ₂ O from				
LULUCF				
Total Durect and Indirect N ₂ O emissions excluding N ₂ O from				
LULUCF				
Memo Items:				
International Bunkers				
Aviation				
Marine				
Multilateral Operations				
CO ₂ Emissions from Biomass				
Indirect N2O Emissions				

 Indirect N2O Emissions

 Note: All footnotes for this table are given at the end of the table on sheet 5.

Year Submission Country

TABLE 10 EMISSION TRENDS HFCs, PFCs and SF ₆ (Sheet 4 of 5)				Year Submission Country
GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾	1990	(Years 1991 to latest reported year)	Change from base to latest reported year
		. (0	Gg)	%
Emissions of PFC and HFCs ⁽³⁾ - (Gg CO, equivalent)				
Emissions of HFCs ⁽³⁾ - (Gg CO ₂ equivalent)				
HFC-23				
HFC-32				
HFC-41				
HFC-43-10mee				
HFC-125				
HFC-134				
HFC-134a		1		
HFC-152a	80	<u>a0 · </u>		
HFC-143	<u></u>	6-		
HFC-143a HFC-227ea				
HFC-22/ea HFC-236fa	<u> </u>			
HFC-245ca			_	ł
Unspecified mix of listed HFCs ⁽⁴⁾ - (Gg CO ₂ equivalent)				
	updat			
Emissions of PFCs ⁽³⁾ - (Gg CO ₂ equivalent)				
CF4				
C_2F_6				
C3F6 C3F8				
C_4F_{10}				
$c-C_4F_8$				
C ₅ F ₁₂				
$C_{6}F_{14}$				
Unspecified mix of listed PFCs ⁽⁴⁾ - (Gg CO ₂ equivalent)				
ADD GASES				
Emissions of SF6 ⁽³⁾ - (Gg CO ₂ equivalent)				
SF ₆		1		1

Note: All footnotes for this table are given at the end of the table on sheet 5.

TABLE 10 EMISSION TRENDS GHG CO2 eq. emissions (Sheet 3 of 5)

SINK CATEGORIES (Gg C02 eg) Image: Comparison (%) I. Barry Decomposition (Section Approach) Image: Comparison (%) Image: Comp	m base to latest ted year
L. Beergy	%
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2. Manufacturing Industries and Construction 3. Transport 4. Other Sectors 4	
3. Trasport. Image: Constraint of the sectors of t	
4. Other Sectors Image: Construction of Parks 19. Studie Fach Image: Construction of Parks 2. Other Emissions from Energy Production Image: Construction of Parks 2. Other Sectors Image: Construction of Parks 3. Other Emissions from Energy Production Image: Construction of Parks 2. Other Analysis Image: Construction of Parks 3. Marcel Industry Image: Construction of Parks B. Oberrical Industry Image: Construction of Parks B. Oberrical Industry Image: Construction of Parks D. None-Integry Product Construction of Parks Image: Construction of Parks D. None-Integry Product Construction of Parks Image: Construction of Parks D. None-Integry Product Construction of Parks Image: Construction of Parks D. None-Integry Product Construction of Parks Image: Construction of Parks D. None-Integry Product Construction of Parks Image: Construction of Parks D. Appricture Forestry and Other Land Use Image: Construction of Parks J. Other Forestry and Construction of Parks Image: Construction of Parks D. Appricture Forestry and Construction of Parks Image: Construction of Parks D. Appricture Forestry and Construction of Parks Image: Construction of Parks	
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5. Other (as specified in Summary 1.A)	
Indirect emissions Image: second se	
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Memo Items: ⁽⁴⁾	
International Bunkers	
Aviation	
Marine description descripti description description description description description d	
Multilateral Operations	
CO ₂ Emissions from Biomass	
CO2 captured	
Long-term storage of C in waste disposal sites	
Indirect CO2 and N2O	
Total direct CO ₂ Equivalent Emissions withoutLULUCF	
Total direct CO ₂ Equivalent Emissions with LULUCF	
Total Direct and Indirect CO ₂ Equivalent Emissions without LULUCF	
Total CO ₂ Equivalent Emissions with LULUCF	

TABLE 10 EMISSION TRENDS SUMMARY (Sheet 5 of 5)

Year Submission Country

GREENHOUSE GAS EMISSIONS	Base year ⁽¹⁾	1990	(Years 1991 to latest reported year)	Change from base to latest reported year	
		CO ₂ equivalent (Gg)			
CO ₂ emissions including net CO ₂ from LULUCF					
CO2 emissions excluding net CO2 from LULUCF					
CH ₄ emissions including CH ₄ from LULUCF					
CH ₄ emissions excluding CH ₄ from LULUCF					
N ₂ O emissions including N ₂ O from LULUCF					
N ₂ O emissions excluding N ₂ O from LULUCF					
direct/indirect					
HFCs					
PFCs		<u> </u>			
SF ₆		ateo			
Other gases	d d	ale-			
Total (including LULUCF)					
Total (excluding LULUCF)	UP				
Total (including LULUCF, including indirect)	be .				
Total (excluding LULUCF, including indirect)					

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year ⁽¹⁾		Change from base to latest reported year
		(%)	
1. Energy			
2. Industrial Processes			
3. Solvent and Other Product Use			
4. Agriculture			
5. Land Use, Land-Use Change and Forestry ⁽⁵⁾			
6. Waste			
7. Other			
Total (including LULUCF) ⁽⁵⁾			

(1) The column "Base year" should be filled in only by those Parties with economies in transition that use a base year different from 1990 in accordance with the relevant decisions of the COP. For these Parties, this different base year is used to calculate the percentage change in the final column of this table.

(2) Fill in net emissions/removals as reported in table Summary 1.A. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

⁽³⁾ Enter actual emissions estimates. If only potential emissions estimates are available, these should be reported in this table and an indication for this be provided in the documentation box. Only in these rows are the emissions expressed as CO₂ equivalent emissions.

(4) In accordance with the UNFCCC reporting guidelines, HFC and PFC emissions should be reported for each relevant chemical. However, if it is not possible to report values for each chemical (i.e. mixtures, confidential data, lack of disaggregation), this row could be used for reporting aggregate figures for HFCs and PFCs, respectively. Note that the unit used for this row is Gg of CO₂ equivalent and that appropriate notation keys should be entered in the cells for the individual chemicals.
(5) Includes net CO₂, CH₄ and N₂O from LULUCF.

20 4 22

Documentation box:

• Parties should provide detailed explanations on emissions trends in Chapter 2: Trends in Greenhouse Gas Emissions and, as appropriate, in the corresponding Chapters 3 - 9 of the NIR. Use this documentation box to provide references to relevant sections of the NIR if any additional information and further details are needed to understand the content of this table.

· Use the documentation box to provide explanations if potential emissions are reported.