

Table 1. National greenhouse gas inventory of anthropogenic emissions by sources and removals by sinks of all greenhouse gases not controlled by the Montreal Protocol^a and greenhouse gas precursors

Greenhouse gas source and sink categories	CO ₂ emissions (Gg)	CO ₂ removals (Gg)	CH ₄ (Gg)	N ₂ O (Gg)	CO (Gg)	NO _x (Gg)	NMVOCs (Gg)	SO _x (Gg)	HFCs ^{a,b} (Gg)			PFCs ^{a,b} (Gg)			SF ₆ ^a (Gg)
									HFC-23	HFC-134	Other (to be added)	CF ₄	C ₂ F ₆	Other (to be added)	
Total national emissions and removals	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1. Energy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A. Fuel combustion (sectoral approach)	X		X	X	X	X	X	X	X						
1. Energy industries	X		X	X	X	X	X	X	X						
2. Manufacturing industries and construction	X		X	X	X	X	X	X	X						
3. Transport	X		X	X	X	X	X	X	X						
4. Other sectors	X		X	X	X	X	X	X	X						
5. Other (please specify)	X		X	X	X	X	X	X	X						
B. Fugitive emissions from fuels	X		X		X	X	X	X	X						
1. Solid fuels			X		X	X	X	X	X						
2. Oil and natural gas			X		X	X	X	X	X						
2. Industrial processes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A. Mineral products	X				X	X	X	X	X						
B. Chemical industry	X		X	X	X	X	X	X	X						
C. Metal production	X		X	X	X	X	X	X	X						
D. Other production	X				X	X	X	X	X						
E. Production of halocarbons and sulphur hexafluoride															
F. Consumption of halocarbons and sulphur hexafluoride															
G. Other (please specify)	X		X	X	X	X	X	X	X						
3. Solvent and other product use	X				X				X						
4. Agriculture			X	X	X	X	X	X	X						
A. Enteric fermentation			X												
B. Manure management			X	X					X						
C. Rice cultivation			X						X						
D. Agricultural soils			X	X					X						
E. Prescribed burning of savannahs			X	X	X	X			X						
F. Field burning of agricultural residues			X	X	X	X			X						
G. Other (please specify)			X	X	X	X			X						
5. Land-use change and forestry	X ^b	X ^b	X	X	X	X	X	X	X						
A. Changes in forest and other woody biomass stocks	X ^b	X ^b													
B. Forest and grassland conversion	X	X	X	X	X	X									
C. Abandonment of managed lands		X													
D. CO ₂ emissions and removals from soil	X ^b	X ^b													
E. Other (please specify)	X	X	X	X	X	X									
6. Waste			X	X	X	X	X	X	X						
A. Solid waste disposal on land			X		X				X						
B. Waste-water handling			X	X	X	X			X						
C. Waste incineration					X	X			X						
D. Other (please specify)			X	X	X	X			X						
7. Other (please specify)	X	X	X	X	X	X	X	X	X						
Memo items															
International bunkers	X		X	X	X	X	X	X	X						
Aviation	X		X	X	X	X	X	X	X						
Marine	X		X	X	X	X	X	X	X						
CO₂ emissions from biomass	X														

Note: Shaded cells do not require entries.

Table 2. National greenhouse gas inventory of anthropogenic emissions of HFCs, PFCs and SF₆

Greenhouse gas source and sink categories	HFCs ^{a,b} (Gg)			PFCs ^{a,b} (Gg)			SF ₆ ^a (Gg)
	HFC-23	HFC-134	Other (to be added)	CF ₄	C ₂ F ₆	Other (to be added)	
Total national emissions and removals	X	X	X	X	X	X	X
1. Energy							
A. Fuel combustion (sectoral approach)							
1. Energy industries							
2. Manufacturing industries and construction							
3. Transport							
4. Other sectors							
5. Other (please specify)							
B. Fugitive emissions from fuels							
1. Solid fuels							
2. Oil and natural gas							
2. Industrial processes	X	X	X	X	X	X	X
A. Mineral products							
B. Chemical industry							
C. Metal production	X	X	X	X	X	X	X
D. Other production							
E. Production of halocarbons and sulphur hexafluoride	X	X	X	X	X	X	X
F. Consumption of halocarbons and sulphur hexafluoride	X	X	X	X	X	X	X
G. Other (please specify)							
3. Solvent and other product use							
4. Agriculture							
A. Enteric fermentation							
B. Manure management							
C. Rice cultivation							
D. Agricultural soils							
E. Prescribed burning of savannahs							
F. Field burning of agricultural residues							
G. Other (please specify)							
5. Land-use change and forestry							
A. Changes in forest and other woody biomass stocks							
B. Forest and grassland conversion							
C. Abandonment of managed lands							
D. CO ₂ emissions and removals from soil							
E. Other (please specify)							
6. Waste							
A. Solid waste disposal on land							
B. Waste-water handling							
C. Waste incineration							
D. Other (please specify)							
7. Other (please specify)	X	X	X	X	X	X	X
Memo items							
International bunkers							
Aviation							
Marine							
CO₂ emissions from biomass							

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

Year
Submission
Country

Table 1. National greenhouse gas inventory of anthropogenic emissions by sources and removals by sinks of all greenhouse gases not controlled by the Montreal Protocol¹ and greenhouse gas precursors

Greenhouse gas source and sink categories	CO ₂ emissions (Gg)	CO ₂ removals (Gg)	CH ₄ (Gg)	N ₂ O (Gg)	CO (Gg)	NO _x (Gg)	NMVOCs (Gg)	SO _x (Gg)
Total national emissions and removals	X	X	X	X	X	X	X	X
1. Energy	X	X	X	X	X	X	X	X
A. Fuel combustion (sectoral approach)	X		X	X	X	X	X	X
1. Energy industries	X		X	X	X	X	X	X
2. Manufacturing industries and construction	X		X	X	X	X	X	X
3. Transport	X		X	X	X	X	X	X
4. Other sectors	X		X	X	X	X	X	X
5. Other (please specify)	X		X	X	X	X	X	X
B. Fugitive emissions from fuels	X		X	X	X	X	X	X
1. Solid fuels			X	X	X	X	X	X
2. Oil and natural gas			X	X	X	X	X	X
2. Industrial processes	X	X	X	X	X	X	X	X
A. Mineral products	X			X	X	X	X	X
B. Chemical industry	X		X	X	X	X	X	X
C. Metal production	X		X	X	X	X	X	X
D. Other production	X			X	X	X	X	X
E. Production of halocarbons and sulphur hexafluoride								
F. Consumption of halocarbons and sulphur hexafluoride								
G. Other (please specify)	X		X	X	X	X	X	X
3. Solvent and other product use	X		X				X	
4. Agriculture			X	X	X	X	X	X
A. Enteric fermentation			X					
B. Manure management			X	X			X	
C. Rice cultivation			X				X	
D. Agricultural soils			X	X			X	
E. Prescribed burning of savannahs			X	X	X	X	X	
F. Field burning of agricultural residues			X	X	X	X	X	
G. Other (please specify)			X	X	X	X	X	
5. Land-use change and forestry	X ^b	X ^b	X	X	X	X	X	X
A. Changes in forest and other woody biomass stocks	X ^b	X ^b						
B. Forest and grassland conversion	X	X	X	X	X	X		
C. Abandonment of managed lands		X						
D. CO ₂ emissions and removals from soil	X ^b	X ^b						
E. Other (please specify)	X	X	X	X	X	X		
6. Waste			X	X	X	X	X	X
A. Solid waste disposal on land			X	X	X	X	X	
B. Waste-water handling			X	X	X	X	X	
C. Waste incineration					X	X	X	X
D. Other (please specify)			X	X	X	X	X	X
E. Other (please specify)	X	X	X	X	X	X	X	X
Memo items								
International bunkers	X		X	X	X	X	X	X
Aviation	X		X	X	X	X	X	X
Marine	X		X	X	X	X	X	X
CO₂ emissions from biomass	X							

Note: Shaded cells do not require entries.

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ ^(a)	CH ₄	N ₂ O	HFCs	PFCs	SF ₆	Unspecified mix of HFCs and	NF ₃	Total
	CO ₂ equivalent (kt)								
Total [net emissions]^(a)									
1. Energy									
A. Fuel combustion (sectoral approach)									
1. Energy industries									
2. Manufacturing industries and construction									
3. Transport									
4. Other sectors									
5. Other									
B. Fugitive emissions from fuels									
1. Solid fuels									
2. Oil and natural gas									
C. CO ₂ transport and storage									
2. Industrial processes and product use									
A. Mineral industry									
B. Chemical industry									
C. Metal industry									
D. Non-energy products from fuels and solvent									
E. Electronic industry									
F. Product uses as ODS substitutes									
G. Other product manufacture and use									
H. Other									
3. Agriculture									
A. Enteric fermentation									
B. Manure management									
C. Rice cultivation									
D. Agricultural soils									
E. Prescribed burning of savannahs									
F. Field burning of agricultural residues									
G. Liming									
H. Urea application									
I. Other carbon-containing fertilizers									
J. Other									
4. Land use, land-use change and forestry^(a)									
A. Forest land									
B. Cropland									
C. Grassland									
D. Wetlands									
E. Settlements									
F. Other land									
G. Harvested wood products									
H. Other									
5. Waste									
A. Solid waste disposal									
B. Biological treatment of solid waste									
C. Incineration and open burning of waste									
D. Waste water treatment and discharge									
E. Other									
6. Other [as specified in summary 1.A]									
Memo items:^(a)									
International bunkers									
Aviation									
Navigation									
Multilateral operations									
CO₂ emissions from biomass									
CO₂ captured									
Long-term storage of C in waste disposal sites									
Indirect N₂O									
Indirect CO₂^(a)									
Total CO₂ equivalent emissions without land use, land-use change and forestry									
Total CO₂ equivalent emissions with land use, land-use change and forestry									
Total CO₂ equivalent emissions, including indirect CO₂, without land use, land-use change and forestry									
Total CO₂ equivalent emissions, including indirect CO₂, with land use, land-use change and forestry									

all greenhouse gases not covered

Greenhouse gas source and sink categories	GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ ⁽¹⁾	CH ₄	N ₂ O	HFCs	PFCs	CO ₂ equivalent (kt)
Total national emissions and removals	SINK CATEGORIES						
1. Energy	Total (net emissions)⁽¹⁾						
A. Fuel combustion (sectoral approach)	1. Energy						
1. Energy industries	A. Fuel combustion (sectoral approach)						
2. Manufacturing industries and construction	1. Energy industries						
3. Transport	2. Manufacturing industries and construction						
4. Other sectors	3. Transport						
5. Other (please specify)	4. Other sectors						
B. Fugitive emissions from fuels	5. Other						
1. Solid fuels	B. Fugitive emissions from fuels						
2. Oil and natural gas	1. Solid fuels						
	2. Oil and natural gas						
	C. CO ₂ transport and storage						
2. Industrial processes	2. Industrial processes and product use						
A. Mineral products	A. Mineral industry						
B. Chemical industry	B. Chemical industry						
C. Metal production	C. Metal industry						
D. Other production	D. Non-energy products from fuels and solvent						
E. Production of halocarbons and sulphur hexafluoride	E. Electronic Industry						
F. Consumption of halocarbons and sulphur hexafluoride	F. Product uses as ODS substitutes						
G. Other (please specify)	G. Other product manufacture and use						
	H. Other						
3. Solvent and other product use	3. Agriculture						
4. Agriculture	A. Enteric fermentation						
A. Enteric fermentation	B. Manure management						
B. Manure management	C. Rice cultivation						
C. Rice cultivation	D. Agricultural soils						
D. Agricultural soils	E. Prescribed burning of savannas						
E. Prescribed burning of savannas	F. Field burning of agricultural residues						
F. Field burning of agricultural residues	G. Liming						
G. Other (please specify)	H. Urea application						
	I. Other carbon-containing fertilizers						
5. Land-use change and forestry	J. Other						
A. Changes in forest and other woody biomass stocks	4. Land use, land-use change and forestry⁽¹⁾						
B. Forest and grassland conversion	A. Forest land						
C. Abandonment of managed lands	B. Cropland						
D. CO ₂ emissions and removals from soil	C. Grassland						
E. Other (please specify)	D. Wetlands						
	E. Settlements						
6. Waste	F. Other land						
A. Solid waste disposal on land	G. Harvested wood products						
B. Waste-water handling	H. Other						
C. Waste incineration	5. Waste						
D. Other (please specify)	A. Solid waste disposal						
	B. Biological treatment of solid waste						
7. Other (please specify)	C. Incineration and open burning of waste						
Memo items	D. Waste water treatment and discharge						
International bunkers	E. Other						
Aviation	6. Other (as specified in summary 1.A)						
Marine							
CO ₂ emissions from biomass	Memo items:⁽²⁾						
	International bunkers						
	Aviation						