COMMISSION OF THE EUROPEAN COMMUNITIES

Brussels, 3.12.2009
SEC(2009) 1652 final
Partie 2b

COMMISSION STAFF WORKING DOCUMENT

Accompanying the

COMMUNICATION FROM THE COMMISSION

FIFTH NATIONAL COMMUNICATION FROM THE EUROPEAN COMMUNITY UNDER THE UN FRAMEWORK CONVENTION ON CLIMATE CHANGE (UNFCCC)

(required under Article 12 of the United Nations Framework Convention on Climate Change)

Part 2b

[COM(2009) 667 final]

A 11 EU-15, 2000

Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals	**3,087,180.37**	**17,417.07**	**1,066.28**	**87,598.66**	**46,187.56**	**1,726.18**	**7,278.98**	**899.16**	**0.45**	**10,494.19**	**31,691.08**	**10,631.29**	**6,071.75**
1. Energy	**3,129,049.23**	**3,067.67**	**110.15**							**10,146.76**	**27,322.85**	**4,839.31**	**5,779.36**
A. Fuel Combustion — Reference Approach[2]	3,105,486.26												
A. Fuel Combustion — Sectoral Approach[2]	3,110,794.28	608.20	109.75							10,127.90	27,243.88	4,028.73	5,568.77
1. Energy Industries	1,111,268.50	56.43	29.98							1,823.72	448.52	54.87	3,874.99
2. Manufacturing Industries and Construction	550,965.20	56.66	20.16							1,399.68	3,442.23	127.36	965.67
3. Transport	816,324.34	119.58	37.88							5,546.48	16,642.19	2,881.98	270.47
4. Other Sectors	623,555.84	374.80	20.32							1,302.25	6,608.88	955.84	448.65
5. Other	8,680.40	0.73	1.41							55.77	102.06	8.68	9.00
B. Fugitive Emissions from Fuels	18,254.96	2,459.47	0.40							18.87	78.98	810.57	210.59
1. Solid Fuels	1,463.40	1,174.91	0.01							1.35	40.41	6.93	8.26
2. Oil and Natural Gas	16,791.56	1,284.57	0.39							17.51	38.57	803.65	202.33
2. Industrial Processes	**213,790.97**	**28.59**	**164.44**	**87,598.66**	**46,187.56**	**1,726.18**	**7,278.98**	**899.16**	**0.45**	**175.25**	**2,601.33**	**605.98**	**282.33**
A. Mineral Products	113,070.83	0.66	IE,NA,NE,NO							65.88	14.51	116.20	63.63
B. Chemical Industry	30,516.55	21.03	164.12	NA,NO	C,NA,NO	NA,NO	C,NA,NO	C,NA,NO	C,NA,NO	40.15	172.37	195.61	107.30
C. Metal Production	69,816.70	4.72	0.03				4,575.13		0.12	51.24	2,397.75	24.99	84.19
D. Other Production[3]	49.41	0.31	0.27							17.32	14.25	250.20	26.81
E. Production of Halocarbons and SF_6					17,368.54		678.41		0.01				
F. Consumption of Halocarbons and SF_6				87,598.66	28,819.03	1,726.18	2,025.44	899.16	0.30				
G. Other	337.47	1.86	0.02	NA,NE,NO	NA,NO	NA,NO	NA,NO	NA,NO	0.03	0.65	2.44	18.97	0.39

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.

EU-15, 2000 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs [1]		PFCs [1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**7,987.16**		**11.58**							NA,NO,NE	NA,NO,NE	**3,363.33**	NA,NO,NE
4. Agriculture		**8,351.37**	**734.26**							**128.45**	**454.21**	**499.61**	**4.14**
A. Enteric Fermentation		6,080.51											
B. Manure Management		2,177.69	76.04									265.69	
C. Rice Cultivation		101.52										0.10	
D. Agricultural Soils [4]		-30.01	657.83									174.04	
E. Prescribed Burning of Savannas		NA,NE,NO	NA,NE,NO							NO,NE	NO,NE	NO,NE	
F. Field Burning of Agricultural Residues		21.65	0.39							13.96	454.21	58.89	4.14
G. Other		NA,NO	NA,NE,NO							114.50	NA,NO	0.90	0.00
5. Land Use, Land-Use Change and Forestry	[5] **-266,355.90**	**144.89**	**10.94**							**21.56**	**751.86**	**1,235.48**	**0.65**
A. Forest Land	[5] -348,618.58	56.63	0.58							14.78	513.10	57.38	
B. Cropland	[5] 64,788.61	10.20	9.97							2.53	89.26	NA,NE,NO	
C. Grassland	[5] -4,256.59	11.05	0.08							2.74	96.60	IE,NA,NE,NO	
D. Wetlands	[5] 4,096.86	6.26	0.25							0.07	2.53	NA,NE,NO	
E. Settlements	[5] 17,715.45	5.53	0.04							1.37	48.35	NA,NE,NO	
F. Other Land	[5] 1,146.23	0.23	0.00							0.06	2.01	NA,NE,NO	
G. Other	[5] -1,227.88	55.00	0.02							NA,NE,NO	NA,NE,NO	1,178.10	0.65
6. Waste	**2,708.91**	**5,824.56**	**34.91**							**22.18**	**560.83**	**87.58**	**5.26**
A. Solid Waste Disposal on Land	[6] 26.55	5,228.00	0.01							0.12	9.94	37.43	0.10
B. Waste-water Handling		510.46	32.04							0.00	0.00	3.36	
C. Waste Incineration	[6] 2,682.36	21.67	0.94							22.01	550.85	29.42	5.14
D. Other	NA,NO	64.42	1.92							0.05	0.04	17.37	0.02
7. Other *(please specify)* [7]	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**
Other non-specified	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO

EU-15, 2000 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
Memo Items: [8]													
International Bunkers	**237,551.68**	**6.18**	**8.64**							**1,964.18**	**261.79**	**92.37**	**1,181.52**
Aviation	108,848.57	1.46	3.44							404.60	129.00	31.98	23.80
Marine	128,703.11	4.72	5.19							1,559.58	132.80	60.39	1,157.72
Multilateral Operations	**0.32**	**0.00**	**0.00**							**0.00**	**0.00**	**0.00**	**0.00**
CO_2 Emissions from Biomass	**199,702.60**												

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 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] CO_2 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 CO_2 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 CO_2 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 CO_2 emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

A 12 EU-15, 2001

Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		Net CO_2 emissions/removals	CH_4	N_2O	$HFCs^{(1)}$		$PFCs^{(1)}$		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
		(Gg)			CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**3,135,270.69**	**16,835.46**	**1,043.36**	**106,381.24**	**44,388.87**	**1,918.05**	**6,491.02**	**920.03**	**0.43**	**10,278.89**	**29,885.13**	**10,152.94**	**5,806.68**
1. Energy		**3,202,851.52**	**2,897.68**	**112.33**							**9,954.04**	**25,798.52**	**4,528.47**	**5,528.76**
A. Fuel Combustion	Reference Approach [2]	3,178,630.37												
	Sectoral Approach [2]	3,184,536.67	591.26	111.94							9,934.71	25,730.16	3,746.73	5,332.76
1. Energy Industries		1,135,487.56	58.52	30.94							1,804.81	451.19	53.46	3,645.01
2. Manufacturing Industries and Construction		548,362.93	56.10	20.35							1,386.95	3,293.43	127.47	960.00
3. Transport		825,736.87	111.55	38.28							5,358.21	15,311.95	2,637.12	264.81
4. Other Sectors		667,363.32	364.41	21.08							1,337.19	6,581.16	921.16	454.57
5. Other		7,586.00	0.68	1.28							47.54	92.43	7.52	8.36
B. Fugitive Emissions from Fuels		18,314.85	2,306.42	0.39							19.33	68.36	781.74	196.01
1. Solid Fuels		1,393.76	1,013.37	0.01							1.29	27.65	6.77	8.97
2. Oil and Natural Gas		16,921.09	1,293.05	0.38							18.04	40.72	774.97	187.04
2. Industrial Processes		**208,874.78**	**27.92**	**163.08**	**106,381.24**	**44,388.87**	**1,918.05**	**6,491.02**	**920.03**	**0.43**	**161.67**	**2,446.77**	**595.01**	**267.08**
A. Mineral Products		111,191.28	0.69	IE,NA,NE,NO							59.25	14.64	117.83	59.26
B. Chemical Industry		29,897.05	20.69	162.76	NA,NO	C,NA,NO	NA,NO	C,NA,NO	C,NA,NO	C,NA,NO	35.96	173.30	185.14	101.96
C. Metal Production		67,408.93	4.38	0.03				3,920.84		0.12	48.70	2,241.71	22.79	81.90
D. Other Production [3]		43.25	0.31	0.27							17.28	14.82	254.66	23.83
E. Production of Halocarbons and SF_6						10,908.44		662.26		0.00				
F. Consumption of Halocarbons and SF_6					106,381.24	33,480.43	1,918.05	1,907.93	920.03	0.27				
G. Other		334.25	1.85	0.02	NA,NE,NO	NA,NO	NA,NO	NA,NO	NA,NO	0.03	0.48	2.30	14.59	0.13

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.

EU-15, 2001 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs [1]		PFCs [1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**7,691.32**		**10.73**							**NA,NO,NE**	**NA,NO,NE**	**3,235.80**	**NA,NO,NE**
4. Agriculture		**8,309.81**	**709.54**							**122.55**	**468.09**	**499.62**	**4.30**
A. Enteric Fermentation		6,028.10											
B. Manure Management		2,186.53	76.49									270.84	
C. Rice Cultivation		102.81										0.10	
D. Agricultural Soils [4]		-29.95	632.70									166.76	
E. Prescribed Burning of Savannas		NA,NE,NO	NA,NE,NO							NO,NE	NO,NE	NO,NE	
F. Field Burning of Agricultural Residues		22.31	0.35							12.53	468.09	60.98	4.30
G. Other		NA,NO	NA,NE,NO							110.02	NA,NO	0.93	0.00
5. Land Use, Land-Use Change and Forestry	[5] **-286,834.77**	**122.62**	**12.45**							**17.02**	**594.04**	**1,207.47**	**0.43**
A. Forest Land	[5] -378,284.78	40.02	0.45							10.40	361.20	54.62	
B. Cropland	[5] 70,477.78	9.86	11.43							2.45	86.31	NA,NE,NO	
C. Grassland	[5] -4,843.30	10.69	0.07							2.66	93.49	IE,NA,NE,NO	
D. Wetlands	[5] 5,407.65	6.29	0.25							0.08	2.70	NA,NE,NO	
E. Settlements	[5] 18,649.72	5.55	0.04							1.38	48.59	NA,NE,NO	
F. Other Land	[5] 1,601.90	0.20	0.00							0.05	1.75	NA,NE,NO	
G. Other	[5] 156.26	50.00	0.21							NA,NE,NO	NA,NE,NO	1,152.85	0.43
6. Waste	**2,687.85**	**5,477.43**	**35.24**							**23.62**	**577.70**	**86.58**	**6.11**
A. Solid Waste Disposal on Land	[6] 26.49	4,906.40	0.01							0.12	9.63	35.50	0.10
B. Waste-water Handling		483.26	32.24							0.00	0.00	3.25	
C. Waste Incineration	[6] 2,661.36	21.76	0.95							23.08	567.93	29.59	5.95
D. Other	NA,NO	66.01	2.03							0.42	0.14	18.24	0.06
7. Other *(please specify)* [7]	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**
Other non-specified	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO

EU-15, 2001 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
Memo Items: [8]													
International Bunkers	**241,060.37**	**6.35**	**8.65**							**1,972.75**	**256.93**	**93.30**	**1,206.39**
Aviation	107,415.87	1.41	3.41							396.56	126.11	31.38	24.35
Marine	133,644.50	4.94	5.24							1,576.19	130.81	61.92	1,182.03
Multilateral Operations	**0.76**	**0.00**	**0.00**							**0.01**	**0.00**	**0.00**	**0.00**
CO_2 Emissions from Biomass	**206,856.07**												

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 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] CO_2 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 CO_2 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 CO_2 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 CO_2 emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

A 13 EU-15, 2002

Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		Net CO_2 emissions/removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
		(Gg)			CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**3,135,270.69**	**16,835.46**	**1,043.36**	**106,381.24**	**44,388.87**	**1,918.05**	**6,491.02**	**920.03**	**0.43**	**10,278.89**	**29,885.13**	**10,152.94**	**5,806.68**
1. Energy		**3,202,851.52**	**2,897.68**	**112.33**							**9,954.04**	**25,798.52**	**4,528.47**	**5,528.76**
A. Fuel Combustion	Reference Approach [2]	3,178,630.37												
	Sectoral Approach [2]	3,184,536.67	591.26	111.94							9,934.71	25,730.16	3,746.73	5,332.76
1. Energy Industries		1,135,487.56	58.52	30.94							1,804.81	451.19	53.46	3,645.01
2. Manufacturing Industries and Construction		548,362.93	56.10	20.35							1,386.95	3,293.43	127.47	960.00
3. Transport		825,736.87	111.55	38.28							5,358.21	15,311.95	2,637.12	264.81
4. Other Sectors		667,363.32	364.41	21.08							1,337.19	6,581.16	921.16	454.57
5. Other		7,586.00	0.68	1.28							47.54	92.43	7.52	8.36
B. Fugitive Emissions from Fuels		18,314.85	2,306.42	0.39							19.33	68.36	781.74	196.01
1. Solid Fuels		1,393.76	1,013.37	0.01							1.29	27.65	6.77	8.97
2. Oil and Natural Gas		16,921.09	1,293.05	0.38							18.04	40.72	774.97	187.04
2. Industrial Processes		**208,874.78**	**27.92**	**163.08**	**106,381.24**	**44,388.87**	**1,918.05**	**6,491.02**	**920.03**	**0.43**	**161.67**	**2,446.77**	**595.01**	**267.08**
A. Mineral Products		111,191.28	0.69	IE,NA,NE,NO							59.25	14.64	117.83	59.26
B. Chemical Industry		29,897.05	20.69	162.76	NA,NO	C,NA,NO	NA,NO	C,NA,NO	C,NA,NO	C,NA,NO	35.96	173.30	185.14	101.96
C. Metal Production		67,408.93	4.38	0.03				3,920.84		0.12	48.70	2,241.71	22.79	81.90
D. Other Production [3]		43.25	0.31	0.27							17.28	14.82	254.66	23.83
E. Production of Halocarbons and SF_6						10,908.44		662.26		0.00				
F. Consumption of Halocarbons and SF_6					106,381.24	33,480.43	1,918.05	1,907.93	920.03	0.27				
G. Other		334.25	1.85	0.02	NA,NE,NO	NA,NO	NA,NO	NA,NO	NA,NO	0.03	0.48	2.30	14.59	0.13

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.

EU-15, 2002 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs [1]		PFCs [1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**7,691.32**		**10.73**							**NA,NO,NE**	**NA,NO,NE**	**3,235.80**	**NA,NO,NE**
4. Agriculture		**8,309.81**	**709.54**							**122.55**	**468.09**	**499.62**	**4.30**
A. Enteric Fermentation		6,028.10											
B. Manure Management		2,186.53	76.49									270.84	
C. Rice Cultivation		102.81										0.10	
D. Agricultural Soils [4]		-29.95	632.70									166.76	
E. Prescribed Burning of Savannas		NA,NE,NO	NA,NE,NO							NO,NE	NO,NE	NO,NE	
F. Field Burning of Agricultural Residues		22.31	0.35							12.53	468.09	60.98	4.30
G. Other		NA,NO	NA,NE,NO							110.02	NA,NO	0.93	0.00
5. Land Use, Land-Use Change and Forestry	[5] **-286,834.77**	**122.62**	**12.45**							**17.02**	**594.04**	**1,207.47**	**0.43**
A. Forest Land	[5] -378,284.78	40.02	0.45							10.40	361.20	54.62	
B. Cropland	[5] 70,477.78	9.86	11.43							2.45	86.31	NA,NE,NO	
C. Grassland	[5] -4,843.30	10.69	0.07							2.66	93.49	IE,NA,NE,NO	
D. Wetlands	[5] 5,407.65	6.29	0.25							0.08	2.70	NA,NE,NO	
E. Settlements	[5] 18,649.72	5.55	0.04							1.38	48.59	NA,NE,NO	
F. Other Land	[5] 1,601.90	0.20	0.00							0.05	1.75	NA,NE,NO	
G. Other	[5] 156.26	50.00	0.21							NA,NE,NO	NA,NE,NO	1,152.85	0.43
6. Waste	**2,687.85**	**5,477.43**	**35.24**							**23.62**	**577.70**	**86.58**	**6.11**
A. Solid Waste Disposal on Land	[6] 26.49	4,906.40	0.01							0.12	9.63	35.50	0.10
B. Waste-water Handling		483.26	32.24							0.00	0.00	3.25	
C. Waste Incineration	[6] 2,661.36	21.76	0.95							23.08	567.93	29.59	5.95
D. Other	NA,NO	66.01	2.03							0.42	0.14	18.24	0.06
7. Other *(please specify)* [7]	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**
Other non-specified	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO

EU-15, 2002 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
Memo Items: [8]													
International Bunkers	**241,060.37**	**6.35**	**8.65**							**1,972.75**	**256.93**	**93.30**	**1,206.39**
Aviation	107,415.87	1.41	3.41							396.56	126.11	31.38	24.35
Marine	133,644.50	4.94	5.24							1,576.19	130.81	61.92	1,182.03
Multilateral Operations	**0.76**	**0.00**	**0.00**							**0.01**	**0.00**	**0.00**	**0.00**
CO_2 Emissions from Biomass	**206,856.07**												

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 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] CO_2 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 CO_2 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 CO_2 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 CO_2 emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

A 14 EU-15, 2003

Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		Net CO_2 emissions/removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
		(Gg)			CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**3,155,688.35**	**15,784.81**	**1,010.69**	**137,071.05**	**49,780.89**	**2,028.09**	**6,642.60**	**1,005.26**	**0.37**	**9,915.98**	**27,186.18**	**9,734.93**	**5,096.01**
1. Energy		**3,254,129.32**	**2,570.33**	**113.14**							**9,597.68**	**22,887.12**	**3,901.37**	**4,826.56**
A. Fuel Combustion	Reference Approach [2]	3,252,344.98												
	Sectoral Approach [2]	3,235,665.63	550.23	112.78							9,574.74	22,830.19	3,218.26	4,655.60
1. Energy Industries		1,193,415.69	60.51	31.90							1,894.46	486.03	57.29	3,340.73
2. Manufacturing Industries and Construction		541,569.01	55.46	20.27							1,383.25	3,307.31	132.15	712.51
3. Transport		841,858.87	94.43	38.38							4,950.69	12,836.17	2,166.88	223.37
4. Other Sectors		650,998.65	339.18	20.84							1,303.58	6,113.52	854.68	372.93
5. Other		7,823.42	0.65	1.39							42.76	87.16	7.26	6.06
B. Fugitive Emissions from Fuels		18,463.69	2,020.10	0.36							22.95	56.93	683.11	170.97
1. Solid Fuels		1,407.35	823.90	0.01							1.18	24.72	5.90	8.14
2. Oil and Natural Gas		17,056.34	1,196.20	0.35							21.77	32.21	677.21	162.83
2. Industrial Processes		**212,554.98**	**29.49**	**149.78**	**137,071.05**	**49,780.89**	**2,028.09**	**6,642.60**	**1,005.26**	**0.37**	**150.46**	**2,364.59**	**561.28**	**259.31**
A. Mineral Products		113,039.21	0.69	IE,NA,NE,NO							55.13	14.00	110.37	60.79
B. Chemical Industry		30,382.66	22.24	149.46	NA,NO	C,NA,NO	NA,NO	C,NA,NO	C,NA,NO	C,NA,NO	31.33	128.23	169.57	88.34
C. Metal Production		68,758.80	4.38	0.03				3,965.04		0.11	46.12	2,204.00	21.50	82.28
D. Other Production [3]		46.53	0.32	0.28							17.52	15.32	248.07	21.53
E. Production of Halocarbons and SF_6						7,894.00		747.99		0.01				
F. Consumption of Halocarbons and SF_6					137,071.05	41,886.60	2,028.09	1,929.57	1,005.26	0.23				
G. Other		327.78	1.85	0.02	NA,NE,NO	NA,NO	NA,NO	NA,NO	NA,NO	0.02	0.36	3.03	11.77	6.37

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.

EU-15, 2003 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs [1]		PFCs [1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**7,372.81**		**10.25**							**NA,NO,NE**	**NA,NO,NE**	**3,101.19**	**NA,NO,NE**
4. Agriculture		**8,126.89**	**689.81**							**120.18**	**523.16**	**535.66**	**4.94**
A. Enteric Fermentation		5,875.20											
B. Manure Management		2,147.55	73.06									264.46	
C. Rice Cultivation		109.11										0.10	
D. Agricultural Soils [4]		-29.90	616.37									200.71	
E. Prescribed Burning of Savannas		NA,NE,NO	NA,NE,NO							NO,NE	NO,NE	NO,NE	
F. Field Burning of Agricultural Residues		24.93	0.38							13.56	523.16	69.38	4.94
G. Other		NA,NO	NA,NE,NO							106.62	NA,NO	1.01	0.00
5. Land Use, Land-Use Change and Forestry	[5] **-321,062.42**	**143.90**	**12.27**							**25.28**	**870.85**	**1,550.61**	**0.96**
A. Forest Land	[5] -373,595.75	66.51	0.70							18.70	639.07	75.01	
B. Cropland	[5] 66,726.06	9.93	11.01							2.47	86.84	NA,NE,NO	
C. Grassland	[5] -40,545.26	10.45	0.07							2.59	91.28	IE,NA,NE,NO	
D. Wetlands	[5] 5,426.84	6.19	0.25							0.08	2.72	NA,NE,NO	
E. Settlements	[5] 18,812.79	5.55	0.04							1.38	48.56	NA,NE,NO	
F. Other Land	[5] 1,709.59	0.27	0.00							0.07	2.37	NA,NE,NO	
G. Other	[5] 403.32	45.00	0.21							NA,NE,NO	NA,NE,NO	1,475.60	0.96
6. Waste	**2,693.65**	**4,914.21**	**35.43**							**22.37**	**540.47**	**84.82**	**4.25**
A. Solid Waste Disposal on Land	[6] 15.88	4,339.13	0.01							0.08	8.98	31.67	0.06
B. Waste-water Handling		483.67	32.23							NA,NE,NO	NA,NE,NO	3.35	
C. Waste Incineration	[6] 2,677.77	21.23	0.95							22.24	531.45	29.13	4.16
D. Other	NA,NO	70.17	2.25							0.05	0.04	20.68	0.03
7. Other *(please specify)* [7]	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**
Other non-specified	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO

EU-15, 2003 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)				(Gg)					
Memo Items: [8]													
International Bunkers	**248,503.28**	**6.50**	**9.90**							**2,029.40**	**260.38**	**94.96**	**1,280.95**
Aviation	108,891.32	1.42	3.43							394.39	126.16	31.38	24.13
Marine	139,611.96	5.07	6.47							1,635.01	134.22	63.58	1,256.82
Multilateral Operations	**0.76**	**0.00**	**0.00**							**0.01**	**0.00**	**0.00**	**0.00**
CO_2 Emissions from Biomass	**221,432.97**												

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 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] CO_2 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 CO_2 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 CO_2 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 CO_2 emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

A 15 EU-15, 2004

Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		Net CO_2 emissions/removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
		(Gg)			CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**3,135,270.69**	**16,835.46**	**1,043.36**	**106,381.24**	**44,388.87**	**1,918.05**	**6,491.02**	**920.03**	**0.43**	**10,278.89**	**29,885.13**	**10,152.94**	**5,806.68**
1. Energy		**3,202,851.52**	**2,897.68**	**112.33**							**9,954.04**	**25,798.52**	**4,528.47**	**5,528.76**
A. Fuel Combustion	Reference Approach[2]	3,178,630.37												
	Sectoral Approach[2]	3,184,536.67	591.26	111.94							9,934.71	25,730.16	3,746.73	5,332.76
1. Energy Industries		1,135,487.56	58.52	30.94							1,804.81	451.19	53.46	3,645.01
2. Manufacturing Industries and Construction		548,362.93	56.10	20.35							1,386.95	3,293.43	127.47	960.00
3. Transport		825,736.87	111.55	38.28							5,358.21	15,311.95	2,637.12	264.81
4. Other Sectors		667,363.32	364.41	21.08							1,337.19	6,581.16	921.16	454.57
5. Other		7,586.00	0.68	1.28							47.54	92.43	7.52	8.36
B. Fugitive Emissions from Fuels		18,314.85	2,306.42	0.39							19.33	68.36	781.74	196.01
1. Solid Fuels		1,393.76	1,013.37	0.01							1.29	27.65	6.77	8.97
2. Oil and Natural Gas		16,921.09	1,293.05	0.38							18.04	40.72	774.97	187.04
2. Industrial Processes		**208,874.78**	**27.92**	**163.08**	**106,381.24**	**44,388.87**	**1,918.05**	**6,491.02**	**920.03**	**0.43**	**161.67**	**2,446.77**	**595.01**	**267.08**
A. Mineral Products		111,191.28	0.69	IE,NA,NE,NO							59.25	14.64	117.83	59.26
B. Chemical Industry		29,897.05	20.69	162.76	NA,NO	C,NA,NO	NA,NO	C,NA,NO	C,NA,NO	C,NA,NO	35.96	173.30	185.14	101.96
C. Metal Production		67,408.93	4.38	0.03				3,920.84		0.12	48.70	2,241.71	22.79	81.90
D. Other Production[3]		43.25	0.31	0.27							17.28	14.82	254.66	23.83
E. Production of Halocarbons and SF_6						10,908.44		662.26		0.00				
F. Consumption of Halocarbons and SF_6					106,381.24	33,480.43	1,918.05	1,907.93	920.03	0.27				
G. Other		334.25	1.85	0.02	NA,NE,NO	NA,NO	NA,NO	NA,NO	NA,NO	0.03	0.48	2.30	14.59	0.13

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.

EU-15, 2004 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs [1]		PFCs [1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**7,691.32**		**10.73**							**NA,NO,NE**	**NA,NO,NE**	**3,235.80**	**NA,NO,NE**
4. Agriculture		**8,309.81**	**709.54**							**122.55**	**468.09**	**499.62**	**4.30**
A. Enteric Fermentation		6,028.10											
B. Manure Management		2,186.53	76.49									270.84	
C. Rice Cultivation		102.81										0.10	
D. Agricultural Soils [4]		-29.95	632.70									166.76	
E. Prescribed Burning of Savannas		NA,NE,NO	NA,NE,NO							NO,NE	NO,NE	NO,NE	
F. Field Burning of Agricultural Residues		22.31	0.35							12.53	468.09	60.98	4.30
G. Other		NA,NO	NA,NE,NO							110.02	NA,NO	0.93	0.00
5. Land Use, Land-Use Change and Forestry	[5] **-286,834.77**	**122.62**	**12.45**							**17.02**	**594.04**	**1,207.47**	**0.43**
A. Forest Land	[5] -378,284.78	40.02	0.45							10.40	361.20	54.62	
B. Cropland	[5] 70,477.78	9.86	11.43							2.45	86.31	NA,NE,NO	
C. Grassland	[5] -4,843.30	10.69	0.07							2.66	93.49	IE,NA,NE,NO	
D. Wetlands	[5] 5,407.65	6.29	0.25							0.08	2.70	NA,NE,NO	
E. Settlements	[5] 18,649.72	5.55	0.04							1.38	48.59	NA,NE,NO	
F. Other Land	[5] 1,601.90	0.20	0.00							0.05	1.75	NA,NE,NO	
G. Other	[5] 156.26	50.00	0.21							NA,NE,NO	NA,NE,NO	1,152.85	0.43
6. Waste	**2,687.85**	**5,477.43**	**35.24**							**23.62**	**577.70**	**86.58**	**6.11**
A. Solid Waste Disposal on Land	[6] 26.49	4,906.40	0.01							0.12	9.63	35.50	0.10
B. Waste-water Handling		483.26	32.24							0.00	0.00	3.25	
C. Waste Incineration	[6] 2,661.36	21.76	0.95							23.08	567.93	29.59	5.95
D. Other	NA,NO	66.01	2.03							0.42	0.14	18.24	0.06
7. Other ***(please specify)*** [7]	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**
Other non-specified	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO

EU-15, 2004 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
Memo Items: [8]													
International Bunkers	**265,647.42**	**6.77**	**10.52**							**2,129.72**	**276.08**	**100.23**	**1,357.61**
Aviation	117,398.72	1.51	3.71							422.99	136.26	33.76	26.38
Marine	148,248.70	5.26	6.81							1,706.73	139.82	66.47	1,331.23
Multilateral Operations	**0.76**	**0.00**	**0.00**							**0.01**	**0.00**	**0.00**	**0.00**
CO_2 Emissions from Biomass	**236,871.17**												

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 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] CO_2 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 CO_2 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 CO_2 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 CO_2 emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

A 16 EU-15, 2005

Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		Net CO_2 emissions/removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
		(Gg)			CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**3,156,423.84**	**14,943.71**	**995.26**	**161,219.76**	**53,422.96**	**1,868.30**	**4,053.18**	**1,083.15**	**0.38**	**9,441.90**	**24,120.44**	**8,875.00**	**4,561.67**
1. Energy		**3,230,636.80**	**2,273.14**	**112.06**							**9,133.66**	**19,901.26**	**3,319.30**	**4,300.71**
A. Fuel Combustion	Reference Approach[2]	3,236,716.49												
	Sectoral Approach[2]	3,212,299.21	521.02	111.68							9,108.31	19,847.91	2,698.01	4,113.24
1. Energy Industries		1,195,673.95	61.33	31.66							1,871.55	492.63	53.77	2,906.30
2. Manufacturing Industries and Construction		527,804.69	55.76	20.69							1,398.09	3,239.02	135.49	668.84
3. Transport		848,403.58	78.19	37.23							4,540.31	10,282.74	1,708.98	195.26
4. Other Sectors		632,512.40	325.04	20.77							1,242.74	5,725.94	790.59	336.11
5. Other		7,904.59	0.69	1.34							55.63	107.58	9.17	6.74
B. Fugitive Emissions from Fuels		18,337.59	1,752.12	0.38							25.35	53.35	621.29	187.47
1. Solid Fuels		1,342.57	589.88	0.01							1.16	20.66	6.40	8.53
2. Oil and Natural Gas		16,995.02	1,162.24	0.37							24.19	32.69	614.89	178.94
2. Industrial Processes		**218,175.44**	**30.66**	**151.37**	**161,219.76**	**53,422.96**	**1,868.30**	**4,053.18**	**1,083.15**	**0.38**	**149.66**	**2,554.76**	**534.12**	**253.16**
A. Mineral Products		115,801.70	0.62	IE,NA,NE,NO							51.75	16.00	98.20	59.99
B. Chemical Industry		31,783.99	21.04	151.04	NA,NO	C,NA,NO	NA,NO	C,NA,NO	C,NA,NO	C,NA,NO	33.56	119.39	147.43	85.74
C. Metal Production		70,170.87	6.92	0.03				1,835.51		0.12	44.99	2,398.99	22.07	84.08
D. Other Production[3]		33.89	0.32	0.28							19.02	15.38	255.65	16.46
E. Production of Halocarbons and SF_6						4,715.42		475.50		0.00				
F. Consumption of Halocarbons and SF_6					161,219.76	48,704.06	1,868.30	1,742.17	1,083.15	0.23				
G. Other		384.99	1.76	0.02	NA,NE,NO	NA,NO	NA,NO	NA,NO	NA,NO	0.02	0.34	5.00	10.76	6.88

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,

EU-15, 2005 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs [1]		PFCs [1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**7,423.33**		**9.71**							**NA,NO,NE**	**NA,NO,NE**	**3,122.01**	**NA,NO,NE**
4. Agriculture		**8,002.27**	**674.00**							**114.30**	**343.41**	**486.96**	**2.99**
A. Enteric Fermentation		5,761.02											
B. Manure Management		2,146.49	72.24									263.33	
C. Rice Cultivation		108.35										0.09	
D. Agricultural Soils [4]		-29.96	601.49									178.90	
E. Prescribed Burning of Savannas		NA,NO	NA,NO							NO,NE	NO,NE	NO,NE	
F. Field Burning of Agricultural Residues		16.37	0.26							9.54	343.41	43.69	2.99
G. Other		NA,NO	NA,NE,NO							104.75	NA,NO	0.96	0.00
5. Land Use, Land-Use Change and Forestry	[5] **-302,467.83**	**126.13**	**11.90**							**20.65**	**720.30**	**1,327.42**	**0.39**
A. Forest Land	[5] -391,059.70	53.89	0.58							14.19	492.80	58.68	
B. Cropland	[5] 65,588.78	10.00	10.74							2.48	87.47	NA,NE,NO	
C. Grassland	[5] -2,994.57	10.30	0.07							2.56	90.26	IE,NA,NE,NO	
D. Wetlands	[5] 5,453.55	6.54	0.27							0.07	2.51	NA,NE,NO	
E. Settlements	[5] 18,432.72	5.22	0.03							1.30	45.72	NA,NE,NO	
F. Other Land	[5] 1,480.97	0.18	0.00							0.04	1.53	NA,NE,NO	
G. Other	[5] 630.42	40.00	0.21							NA,NE,NO	NA,NE,NO	1,268.74	0.39
6. Waste	**2,656.10**	**4,511.51**	**36.22**							**23.63**	**600.71**	**85.18**	**4.42**
A. Solid Waste Disposal on Land	[6] 13.59	3,936.51	0.01							0.08	8.07	29.67	0.05
B. Waste-water Handling		481.05	32.59							NA,NE,NO	NA,NE,NO	3.52	
C. Waste Incineration	[6] 2,642.51	23.71	0.98							23.50	592.59	31.97	4.35
D. Other	NA,NO	70.23	2.65							0.05	0.04	20.02	0.02
7. Other *(please specify)* [7]	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**
Other non-specified	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO

EU-15, 2005 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
Memo Items: [8]													
International Bunkers	**278,696.92**	**6.95**	**10.88**							**2,136.92**	**278.28**	**103.43**	**1,368.51**
Aviation	123,010.55	1.57	3.88							437.81	143.58	36.61	27.05
Marine	155,686.37	5.38	7.00							1,699.11	134.70	66.82	1,341.45
Multilateral Operations	**1.78**	**0.00**	**0.00**							**0.01**	**0.00**	**0.00**	**0.00**
CO_2 Emissions from Biomass	**244,969.88**												

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 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] CO_2 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 CO_2 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 CO_2 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 CO_2 emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

A 17 EU-15, 2006

Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		Net CO_2 emissions/removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
		(Gg)			CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**3,157,670.87**	**14,697.49**	**950.45**	**170,105.64**	**54,237.35**	**1,789.06**	**3,614.11**	**1,179.07**	**0.39**	**9,141.32**	**23,083.34**	**8,703.77**	**4,353.63**
1. Energy		**3,221,246.66**	**2,138.32**	**112.90**							**8,834.55**	**18,949.77**	**3,039.96**	**4,090.08**
A. Fuel Combustion	Reference Approach[2]	3,210,430.36												
	Sectoral Approach[2]	3,202,790.75	511.15	112.54							8,807.27	18,889.46	2,443.23	3,908.62
1. Energy Industries		1,195,430.97	58.15	31.91							1,813.02	494.38	54.31	2,710.84
2. Manufacturing Industries and Construction		529,660.58	55.03	21.14							1,372.71	3,340.90	136.69	650.90
3. Transport		849,915.01	73.57	37.55							4,371.22	9,269.30	1,483.56	210.46
4. Other Sectors		620,362.57	323.78	20.57							1,201.18	5,690.93	760.88	329.61
5. Other		7,421.61	0.61	1.36							49.14	93.95	7.79	6.81
B. Fugitive Emissions from Fuels		18,455.91	1,627.17	0.36							27.28	60.31	596.73	181.47
1. Solid Fuels		1,393.04	530.03	0.01							1.20	24.48	6.34	8.58
2. Oil and Natural Gas		17,062.87	1,097.14	0.35							26.08	35.83	590.39	172.88
2. Industrial Processes		**220,749.70**	**30.52**	**116.94**	**170,105.64**	**54,237.35**	**1,789.06**	**3,614.11**	**1,179.07**	**0.39**	**148.00**	**2,405.75**	**536.77**	**255.28**
A. Mineral Products		117,464.55	0.92	IE,NA,NE,NO							52.82	16.41	106.73	61.18
B. Chemical Industry		30,997.19	20.05	116.61	NA,NO	C,NA,NO	NA,NO	C,NA,NO	C,NA,NO	C,NA,NO	28.12	128.58	134.61	88.61
C. Metal Production		71,898.14	7.45	0.03				1,568.43		0.14	46.56	2,240.69	21.73	82.51
D. Other Production[3]		20.13	0.32	0.28							20.15	15.65	263.24	15.98
E. Production of Halocarbons and SF_6						2,577.47		345.13		0.01				
F. Consumption of Halocarbons and SF_6					170,105.64	51,656.59	1,789.06	1,700.56	1,179.07	0.23				
G. Other		369.70	1.79	0.02	NA,NE,NO	NA,NO	NA,NE,NO	NA,NO	NA,NO	0.02	0.35	4.41	10.45	7.00

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.

EU-15, 2006 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs [1]		PFCs [1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**7,333.70**		**9.89**							**NA,NO,NE**	**NA,NO,NE**	**3,100.32**	**NA,NO,NE**
4. Agriculture		**7,979.65**	**662.10**							**115.60**	**420.33**	**501.62**	**3.84**
A. Enteric Fermentation		5,716.49											
B. Manure Management		2,163.58	71.13									258.89	
C. Rice Cultivation		109.29										0.10	
D. Agricultural Soils [4]		-29.75	590.67									186.72	
E. Prescribed Burning of Savannas		NA,NO	NA,NO							NO,NE	NO,NE	NO,NE	
F. Field Burning of Agricultural Residues		20.04	0.31							11.19	420.33	54.90	3.84
G. Other		NA,NO	NA,NE,NO							104.41	NA,NO	1.02	0.00
5. Land Use, Land-Use Change and Forestry	[5] **-294,337.65**	**129.37**	**12.29**							**21.03**	**738.23**	**1,440.28**	**0.22**
A. Forest Land	[5] -395,583.28	58.44	0.61							14.65	513.30	59.39	
B. Cropland	[5] 66,429.01	9.88	11.10							2.45	86.44	NA,NE,NO	
C. Grassland	[5] 1,480.34	10.09	0.07							2.50	88.20	IE,NA,NE,NO	
D. Wetlands	[5] 4,672.66	6.52	0.26							0.07	2.61	NA,NE,NO	
E. Settlements	[5] 27,062.66	5.28	0.04							1.31	46.16	NA,NE,NO	
F. Other Land	[5] 1,378.61	0.17	0.00							0.04	1.52	NA,NE,NO	
G. Other	[5] 222.35	39.00	0.20							NA,NE,NO	NA,NE,NO	1,380.89	0.22
6. Waste	**2,678.46**	**4,419.64**	**36.33**							**22.14**	**569.27**	**84.82**	**4.20**
A. Solid Waste Disposal on Land	[6] 13.29	3,840.05	0.00							0.07	7.60	28.76	0.05
B. Waste-water Handling		484.99	32.79							NA,NE,NO	NA,NE,NO	3.54	
C. Waste Incineration	[6] 2,665.17	22.47	0.96							22.02	561.62	30.83	4.13
D. Other	NA,NO	72.13	2.57							0.04	0.04	21.69	0.02
7. Other ***(please specify)*** [7]	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**
Other non-specified	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO

EU-15, 2006 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
Memo Items: [8]													
International Bunkers	**293,890.22**	**7.29**	**11.65**							**2,287.68**	**296.82**	**110.02**	**1,426.51**
Aviation	128,201.05	1.60	4.04							456.89	150.34	38.30	30.01
Marine	165,689.17	5.69	7.61							1,830.80	146.48	71.72	1,396.50
Multilateral Operations	**2.73**	**0.00**	**0.00**							**0.02**	**0.00**	**0.00**	**0.00**
CO_2 Emissions from Biomass	**260,415.03**												

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 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] CO_2 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 CO_2 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 CO_2 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 CO_2 emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

A 18 EU-15, 2007

Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES		Net CO_2 emissions/removals	CH_4	N_2O	HFCs[1]		PFCs[1]		SF_6		NO_x	CO	NMVOC	SO_2
					P	A	P	A	P	A				
		(Gg)			CO_2 equivalent (Gg)						(Gg)			
Total National Emissions and Removals		**3,125,915.64**	**14,521.00**	**943.54**	**178,931.66**	**56,635.24**	**1,725.10**	**3,349.11**	**1,214.56**	**0.39**	**8,812.29**	**22,082.63**	**8,205.16**	**4,163.46**
1. Energy		**3,155,622.00**	**2,036.45**	**111.77**							**8,511.49**	**18,156.76**	**2,868.34**	**3,898.02**
A. Fuel Combustion	Reference Approach[2]	3,166,984.77												
	Sectoral Approach[2]	3,137,251.89	514.49	111.43							8,487.79	18,095.64	2,289.91	3,723.16
1. Energy Industries		1,207,863.92	56.45	31.85							1,760.21	505.72	53.43	2,571.16
2. Manufacturing Industries and Construction		517,244.44	56.72	21.02							1,354.22	3,346.86	135.36	650.08
3. Transport		850,892.12	68.88	37.56							4,206.17	8,451.24	1,361.63	209.46
4. Other Sectors		553,577.21	331.89	19.70							1,118.38	5,704.99	732.18	285.96
5. Other		7,674.21	0.54	1.31							48.80	86.83	7.31	6.50
B. Fugitive Emissions from Fuels		18,370.11	1,521.96	0.34							23.69	61.12	578.43	174.86
1. Solid Fuels		1,397.00	435.99	0.01							1.08	24.47	6.12	10.52
2. Oil and Natural Gas		16,973.11	1,085.97	0.33							22.62	36.65	572.32	164.34
2. Industrial Processes		**225,787.47**	**31.63**	**118.34**	**178,931.66**	**56,635.24**	**1,725.10**	**3,349.11**	**1,214.56**	**0.39**	**150.19**	**2,325.02**	**523.10**	**256.52**
A. Mineral Products		119,297.86	0.97	IE,NA,NE,NO							54.56	15.29	100.27	60.51
B. Chemical Industry		32,307.41	20.85	118.01	NA,NO	C,NA,NO	NA,NO	C,NA,NO	C,NA,NO	C,NA,NO	28.89	128.37	128.06	90.16
C. Metal Production		73,837.02	7.73	0.03				1,429.86		0.13	46.05	2,161.39	20.56	84.63
D. Other Production[3]		29.46	0.32	0.28							20.37	15.63	263.76	14.67
E. Production of Halocarbons and SF_6						1,831.99		322.40		C,NA,NO				
F. Consumption of Halocarbons and SF_6					178,931.66	54,792.90	1,725.10	1,596.85	1,214.56	0.25				
G. Other		315.72	1.76	0.02	NA,NE,NO	NA,NO	NA,NE,NO	NA,NO	NA,NO	0.01	0.32	4.34	10.45	6.54

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.

EU-15, 2007 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs [1]		PFCs [1]		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
3. Solvent and Other Product Use	**7,281.64**		**10.28**							**NA,NO,NE**	**NA,NO,NE**	**3,078.07**	**NA,NO,NE**
4. Agriculture		**8,011.73**	**655.60**							**111.79**	**420.51**	**480.06**	**3.84**
A. Enteric Fermentation		5,738.05											
B. Manure Management		2,170.11	71.80									263.30	
C. Rice Cultivation		113.26										0.11	
D. Agricultural Soils [4]		-29.74	583.49									160.72	
E. Prescribed Burning of Savannas		NA,NO	NA,NO							NO,NE	NO,NE	NO,NE	
F. Field Burning of Agricultural Residues		20.04	0.31							11.20	420.51	55.00	3.84
G. Other		NA,NO	NA,NE,NO							100.59	NA,NO	0.93	0.00
5. Land Use, Land-Use Change and Forestry	[5] **-265,232.53**	**115.89**	**10.91**							**18.04**	**632.45**	**1,170.57**	**1.02**
A. Forest Land	[5] -355,121.98	46.19	0.56							11.68	408.57	60.45	
B. Cropland	[5] 62,838.72	9.69	9.79							2.41	84.83	NA,NE,NO	
C. Grassland	[5] -4,999.68	10.12	0.07							2.51	88.52	IE,NA,NE,NO	
D. Wetlands	[5] 4,776.69	6.41	0.26							0.07	2.62	NA,NE,NO	
E. Settlements	[5] 27,286.11	5.31	0.04							1.32	46.43	NA,NE,NO	
F. Other Land	[5] 1,368.76	0.17	0.00							0.04	1.49	NA,NE,NO	
G. Other	[5] -1,381.14	38.00	0.20							NA,NE,NO	NA,NE,NO	1,110.12	1.02
6. Waste	**2,457.05**	**4,325.31**	**36.64**							**20.79**	**547.87**	**85.01**	**4.05**
A. Solid Waste Disposal on Land	[6] 12.53	3,744.15	0.00							0.07	7.10	28.28	0.05
B. Waste-water Handling		485.56	33.02							NA,NE,NO	NA,NE,NO	4.37	
C. Waste Incineration	[6] 2,444.52	21.59	0.94							20.69	540.73	29.96	3.98
D. Other	NA,NO	74.01	2.67							0.03	0.04	22.40	0.02
7. Other *(please specify)* [7]	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**	**NA,NO**
Other non-specified	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO	NA,NO

EU-15, 2007 Summary 1.A Summary report for National Greenhouse Gas Inventories (IPCC Table 7A)

(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO_2 emissions/removals	CH_4	N_2O	HFCs		PFCs		SF_6		NO_x	CO	NMVOC	SO_2
				P	A	P	A	P	A				
	(Gg)			CO_2 equivalent (Gg)						(Gg)			
Memo Items: [8]													
International Bunkers	**298,759.91**	**7.33**	**12.40**							**2,374.68**	**306.59**	**111.94**	**1,439.74**
Aviation	131,574.31	1.57	4.19							468.78	152.79	37.65	29.95
Marine	167,185.60	5.76	8.21							1,905.90	153.80	74.29	1,409.79
Multilateral Operations	**1.96**	**0.00**	**0.00**							**0.01**	**0.00**	**0.00**	**0.00**
CO_2 Emissions from Biomass	**272,338.63**												

[1] The emissions of HFCs and PFCs are to be expressed as CO_2 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] CO_2 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 CO_2 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 CO_2 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 CO_2 emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.