KYOTO ACCOUNTING TRENDS TABLES

PART C

KYOTO ACCOUNTING TRENDS TABLES

Australia
2002
Submission 2004

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	(Gg)										
1. Energy	**258,622.51**	**258,622.51**	**260,716.76**	**265,401.81**	**268,804.61**	**272,700.18**	**282,424.83**	**292,173.10**	**299,491.76**	**315,517.98**	**324,580.67**
A. Fuel Combustion (Sectoral Approach)	252,659.80	252,659.80	254,971.64	259,560.87	262,957.26	267,127.62	276,710.00	286,922.57	294,443.08	310,229.01	318,846.67
1. Energy Industries	141,805.68	141,805.68	145,296.14	148,512.17	149,790.74	150,850.78	156,807.47	163,334.69	169,403.10	184,779.29	189,112.04
2. Manufacturing Industries and Construction	37,384.55	37,384.55	36,829.60	36,707.28	37,143.37	38,645.38	39,169.22	40,314.68	39,855.61	40,222.52	43,600.70
3. Transport	59,726.89	59,726.89	59,076.56	60,194.18	61,358.05	62,765.30	65,366.69	67,710.68	69,060.28	69,122.80	69,969.79
4. Other Sectors	12,485.74	12,485.74	12,558.60	12,894.80	13,375.86	13,491.90	13,961.17	14,044.93	14,585.63	14,785.31	14,931.69
5. Other	1,256.94	1,256.94	1,210.75	1,252.43	1,289.24	1,374.24	1,405.45	1,517.59	1,538.46	1,319.08	1,232.45
B. Fugitive Emissions from Fuels	5,962.71	5,962.71	5,745.12	5,840.95	5,847.35	5,572.57	5,714.83	5,250.53	5,048.68	5,288.97	5,734.00
1. Solid Fuel	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2. Oil and Natural Gas	5,962.71	5,962.71	5,745.12	5,840.95	5,847.35	5,572.57	5,714.83	5,250.53	5,048.68	5,288.97	5,734.00
2. Industrial Processes	**19,234.74**	**19,234.74**	**18,879.21**	**16,641.99**	**16,709.21**	**18,613.30**	**18,594.08**	**18,668.64**	**18,658.14**	**18,940.36**	**19,548.74**
A. Mineral Products[1]	4,763.45	4,763.45	4,477.14	4,299.14	4,507.25	5,210.39	5,008.05	5,076.15	5,008.60	5,433.39	5,355.99
B. Chemical Industry[1]	C	C	C	C	C	C	C	C	C	C	C
C. Metal Production	14,471.28	14,471.28	14,402.08	12,342.86	12,201.96	13,402.91	13,586.03	13,592.48	13,649.53	13,506.97	14,192.74
D. Other Production	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
E. Production of Halocarbons and SF_6											
F. Consumption of Halocarbons and SF_6											
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Solvent and Other Product Use	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
4. Agriculture	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
A. Enteric Fermentation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Manure Management	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C. Rice Cultivation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Agricultural Soils	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Prescribed Burning of Savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Field Burning of Agricultural Residues	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Land Use, Land-Use Change and Forestry	**114,192.33**	**114,192.33**	**89,539.61**	**73,730.79**	**74,160.53**	**74,885.11**	**61,665.00**	**57,157.60**	**52,870.51**	**59,618.69**	**45,857.28**
A. Afforestation and reforestation[2]	0.00	0.00	-453.15	-928.64	-1,402.26	-1,752.32	-2,296.77	-2,948.58	-4,190.35	-5,589.02	-7,110.32
B. Land use change (deforestation)	114,192.33	114,192.33	89,992.76	74,659.43	75,562.79	76,637.42	63,961.77	60,106.18	57,060.86	65,207.71	52,967.60
6. Waste	**11.58**	**11.58**	**11.58**	**11.58**	**11.58**	**11.58**	**16.83**	**13.53**	**16.94**	**17.13**	**17.49**
A. Solid Waste Disposal on Land	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
B. Waste-water Handling	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C. Waste Incineration	11.58	11.58	11.58	11.58	11.58	11.58	16.83	13.53	16.94	17.13	17.49
D. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7. Other *(please specify)*	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Emissions/Removals with LUCF	**392,061.16**	**392,061.16**	**369,147.17**	**355,786.18**	**359,685.93**	**366,210.17**	**362,700.74**	**368,012.86**	**371,037.35**	**394,094.16**	**390,004.17**
Total Emissions without LUCF	**277,868.83**	**277,868.83**	**279,607.55**	**282,055.39**	**285,525.40**	**291,325.06**	**301,035.74**	**310,855.26**	**318,166.84**	**334,475.47**	**344,146.89**
Memo Items:											
International Bunkers	**6,400.97**	**6,400.97**	**6,378.80**	**6,584.40**	**6,987.84**	**7,365.97**	**8,532.60**	**9,030.65**	**9,020.41**	**9,473.01**	**9,752.78**
Aviation	4,345.12	4,345.12	4,520.39	4,795.71	5,199.38	5,353.94	5,857.66	6,311.70	6,501.21	7,232.89	7,268.09
Marine	2,055.85	2,055.85	1,858.42	1,788.69	1,788.46	2,012.03	2,674.93	2,718.95	2,519.20	2,240.12	2,484.69
Multilateral Operations	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
CO_2 Emissions from Biomass	**16,514.85**	**16,514.85**	**16,641.90**	**15,141.52**	**16,799.68**	**17,618.70**	**18,447.90**	**18,437.02**	**20,275.50**	**20,492.97**	**20,145.07**

1. Speciated emissions from Ammonia Production, Nitric Acid Production, Magnesia Production and Soda Ash Production and Use are Confidential. These emissions are reported in Table 10s5 as Confidential emissions reported as CO_2-e.

2. Greenhouse sinks credits are accounted for in 2008–12 only. The values provided are only an indicative estimate of sequestration in reforestation activities.

TABLE 1 EMISSIONS TRENDS (CO_2)—KYOTO ACCOUNTING
(Sheet 1 of 6)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year	2000	2001	2002
1. Energy	**258,622.51**	**330,222.67**	**335,381.45**	**340,141.90**
A. Fuel Combustion (Sectoral Approach)	252,659.80	323,734.22	328,457.69	333,679.70
1. Energy Industries	141,805.68	192,390.72	197,223.59	198,870.90
2. Manufacturing Industries and Construction	37,384.55	42,588.54	42,034.59	43,248.67
3. Transport	59,726.89	72,095.17	72,260.40	74,086.56
4. Other Sectors	12,485.74	15,383.96	15,585.94	16,042.85
5. Other	1,256.94	1,275.82	1,353.17	1,430.71
B. Fugitive Emissions from Fuels	5,962.71	6,488.46	6,923.76	6,462.20
1. Solid Fuel	NE	NE	NE	NE
2. Oil and Natural Gas	5,962.71	6,488.46	6,923.76	6,462.20
2. Industrial Processes	**19,234.74**	**18,741.86**	**18,264.92**	**18,297.13**
A. Mineral Products[1]	4,763.45	5,150.78	5,157.40	5,179.52
B. Chemical Industry[1]	C	C	C	C
C. Metal Production	14,471.28	13,591.08	13,107.52	13,117.61
D. Other Production	NE	NE	NE	NE
E. Production of Halocarbons and SF_6				
F. Consumption of Halocarbons and SF_6				
G. Other	NA	NA	NA	NA
3. Solvent and Other Product Use	**NA**	**NA**	**NA**	**NA**
4. Agriculture	**NA**	**NA**	**NA**	**NA**
A. Enteric Fermentation	NA	NA	NA	NA
B. Manure Management	NA	NA	NA	NA
C. Rice Cultivation	NA	NA	NA	NA
D. Agricultural Soils	NA	NA	NA	NA
E. Prescribed Burning of Savannas	NA	NA	NA	NA
F. Field Burning of Agricultural Residues	NA	NA	NA	NA
G. Other	NA	NA	NA	NA
5. Land Use, Land-Use Change and Forestry	**114,192.33**	**33,938.16**	**23,084.39**	**26,184.87**
A. Afforestation and reforestation[2]	0.00	-10,177.06	-11,128.14	-12,979.00
B. Land use change (deforestation)	114,192.33	44,115.21	34,212.53	39,163.87
6. Waste	**11.58**	**16.30**	**16.30**	**16.30**
A. Solid Waste Disposal on Land	NE	NE	0.00	0.00
B. Waste-water Handling	NA	NA	0.00	0.00
C. Waste Incineration	11.58	16.30	16.30	16.30
D. Other	NA	NA	0.00	0.00
7. Other ***(please specify)***	**NA**	**NA**	**NA**	**NA**
NA	NA	NA	NA	NA
Total Emissions/Removals with LUCF	**392,061.16**	**382,918.99**	**376,747.06**	**384,640.21**
Total Emissions without LUCF	**277,868.83**	**348,980.83**	**353,662.67**	**358,455.34**
Memo Items:				
International Bunkers	**6,400.97**	**10,099.67**	**10,625.28**	**11,100.74**
Aviation	4,345.12	7,330.88	8,151.32	8,567.30
Marine	2,055.85	2,768.79	2,473.96	2,533.44
Multilateral Operations	**NE**	**NE**	**NE**	**NE**
CO_2 Emissions from Biomass	**16,514.85**	**20,146.07**	**20,147.07**	**17,600.23**

1. Speciated emissions from Ammonia Production, Nitric Acid Production, Magnesia Production and Soda Ash Production and Use are Confidential. These emissions are reported in Table 10s5 as Confidential emissions reported as CO_2-e.

2. Greenhouse sinks credits are accounted for in 2008–12 only. The values provided are only an indicative estimate of sequestration in reforestation activities.

Australia
2002
Submission 2004

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	(Gg)										
Total Emissions	**5,748.64**	**5,748.64**	**5,715.67**	**5,666.59**	**5,608.87**	**5,543.55**	**5,641.96**	**5,590.87**	**5,695.33**	**5,776.63**	**5,751.42**
1. Energy	**1,197.86**	**1,197.86**	**1,173.98**	**1,225.86**	**1,186.31**	**1,174.69**	**1,290.37**	**1,279.15**	**1,321.40**	**1,405.04**	**1,298.78**
A. Fuel Combustion (Sectoral Approach)	113.77	113.77	115.33	117.87	119.16	117.66	115.84	114.03	115.57	111.08	108.47
1. Energy Industries	1.90	1.90	1.92	2.01	2.06	2.09	2.25	2.29	4.70	5.03	7.47
2. Manufacturing Industries and Construction	1.55	1.55	1.52	1.47	1.58	1.63	1.76	1.78	2.36	2.43	2.43
3. Transport	26.25	26.25	25.74	26.02	26.64	27.43	28.42	29.43	30.39	31.23	31.58
4. Other Sectors	84.03	84.03	86.11	88.32	88.84	86.46	83.36	80.47	78.06	72.33	66.93
5. Other	0.05	0.05	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.05
B. Fugitive Emissions from Fuels	1,084.09	1,084.09	1,058.65	1,108.00	1,067.14	1,057.04	1,174.53	1,165.12	1,205.83	1,293.96	1,190.31
1. Solid Fuel	753.16	753.16	760.91	791.41	791.02	777.46	832.39	846.98	865.54	954.70	903.33
2. Oil and Natural Gas	330.93	330.93	297.75	316.59	276.12	279.58	342.14	318.14	340.28	339.25	286.99
2. Industrial Processes	**3.29**	**3.29**	**3.03**	**3.30**	**3.33**	**3.72**	**3.80**	**3.88**	**3.80**	**3.96**	**3.70**
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical Industry	0.44	0.44	0.40	0.41	0.32	0.40	0.38	0.45	0.43	0.35	0.34
C. Metal Production	2.85	2.85	2.63	2.89	3.01	3.32	3.42	3.43	3.37	3.60	3.36
D. Other Production	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Production of Halocarbons and SF_6											
F. Consumption of Halocarbons and SF_6											
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Solvent and Other Product Use	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
4. Agriculture	**3,580.33**	**3,580.33**	**3,590.78**	**3,524.04**	**3,473.13**	**3,411.72**	**3,410.59**	**3,413.85**	**3,465.27**	**3,478.10**	**3,539.00**
A. Enteric Fermentation	3,214.15	3,214.15	3,225.19	3,165.04	3,096.48	3,023.30	2,994.09	2,983.45	3,007.34	3,011.19	3,048.62
B. Manure Management	71.82	71.82	71.81	73.22	76.13	78.72	79.70	80.59	83.99	88.02	90.11
C. Rice Cultivation	23.36	23.36	24.94	25.53	28.51	28.87	30.89	33.44	34.38	34.50	31.94
D. Agricultural Soils	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
E. Prescribed Burning of Savannas	262.24	262.24	260.34	251.59	262.73	271.68	296.36	306.04	327.82	332.11	356.16
F. Field Burning of Agricultural Residues	8.77	8.77	8.50	8.66	9.29	9.15	9.55	10.33	11.73	12.29	12.17
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Land Use, Land-Use Change and Forestry	**262.24**	**262.24**	**227.26**	**184.37**	**201.29**	**211.55**	**173.18**	**163.00**	**162.87**	**155.92**	**152.80**
A. Afforestation and reforestation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Land use change (deforestation)	262.24	262.24	227.26	184.37	201.29	211.55	173.18	163.00	162.87	155.92	152.80
6. Waste	**704.92**	**704.92**	**720.62**	**729.02**	**744.81**	**741.86**	**764.02**	**731.00**	**741.99**	**733.62**	**757.14**
A. Solid Waste Disposal on Land	648.73	648.73	663.71	671.42	686.63	683.07	704.51	670.70	681.02	672.00	694.82
B. Waste-water Handling	56.19	56.19	56.91	57.61	58.17	58.79	59.51	60.29	60.98	61.61	62.32
C. Waste Incineration	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
D. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7. Other *(please specify)*	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Memo Items:											
International Bunkers	**0.13**	**0.13**	**0.11**	**0.11**	**0.11**	**0.13**	**0.16**	**0.16**	**0.16**	**0.14**	**0.15**
Aviation	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03
Marine	0.11	0.11	0.09	0.09	0.09	0.10	0.14	0.14	0.13	0.12	0.12
Multilateral Operations	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
CO_2 Emissions from Biomass											

TABLE 1 EMISSIONS TRENDS (CH_4)—KYOTO ACCOUNTING
(Sheet 2 of 6)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base Year	2000	2001	2002
Total Emissions	**5,748.64**	**5,883.66**	**5,884.42**	**5,839.76**
1. Energy	**1,197.86**	**1,361.00**	**1,301.30**	**1,227.91**
A. Fuel Combustion (Sectoral Approach)	113.77	105.10	98.54	98.99
1. Energy Industries	1.90	9.17	9.05	9.18
2. Manufacturing Industries and Construction	1.55	2.46	2.32	2.29
3. Transport	26.25	31.58	30.18	31.25
4. Other Sectors	84.03	61.83	56.93	56.20
5. Other	0.05	0.05	0.05	0.06
B. Fugitive Emissions from Fuels	1,084.09	1,255.90	1,202.76	1,128.92
1. Solid Fuel	753.16	935.15	878.36	831.25
2. Oil and Natural Gas	330.93	320.76	324.40	297.67
2. Industrial Processes	**3.29**	**3.33**	**3.10**	**3.08**
A. Mineral Products	NA	NA	NA	NA
B. Chemical Industry	0.44	0.44	0.35	0.36
C. Metal Production	2.85	2.90	2.76	2.72
D. Other Production	NA	NA	NA	NA
E. Production of Halocarbons and SF_6				
F. Consumption of Halocarbons and SF_6				
G. Other	NA	NA	NA	NA
3. Solvent and Other Product Use	**NA**	**NA**	**NA**	**NA**
4. Agriculture	**3,580.33**	**3,617.57**	**3,675.85**	**3,672.16**
A. Enteric Fermentation	3,214.15	3,062.70	3,081.98	3,058.55
B. Manure Management	71.82	91.23	93.31	95.51
C. Rice Cultivation	23.36	35.30	35.13	28.12
D. Agricultural Soils	NE	NE	NE	NE
E. Prescribed Burning of Savannas	262.24	415.82	452.58	476.92
F. Field Burning of Agricultural Residues	8.77	12.52	12.85	13.05
G. Other	NA	NA	NA	NA
5. Land Use, Land-Use Change and Forestry	**262.24**	**133.47**	**119.00**	**126.23**
A. Afforestation and reforestation	NA	NA	NA	NA
B. Land use change (deforestation)	262.24	133.47	119.00	126.23
6. Waste	**704.92**	**768.28**	**785.17**	**810.38**
A. Solid Waste Disposal on Land	648.73	705.21	721.25	745.71
B. Waste-water Handling	56.19	63.07	63.92	64.67
C. Waste Incineration	NE	NE	NE	NE
D. Other	NA	NA	NA	NA
7. Other *(please specify)* [redacted]	**NA**	**NA**	**NA**	**NA**
NA	NA	NA	NA	NA
Memo Items:				
International Bunkers	**0.13**	**0.16**	**0.15**	**0.13**
Aviation	0.02	0.03	0.03	0.01
Marine	0.11	0.13	0.12	0.12
Multilateral Operations	NE	NE	NE	NE
CO_2 Emissions from Biomass				

Australia
2002
Submission 2004

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	(Gg)										
Total Emissions	**75.94**	**76.03**	**77.18**	**77.14**	**80.02**	**82.15**	**83.77**	**84.61**	**90.17**	**94.45**	**100.29**
1. Energy	**7.95**	**7.95**	**8.85**	**9.65**	**10.55**	**11.44**	**12.39**	**13.22**	**14.02**	**15.00**	**15.88**
A. Fuel Combustion (Sectoral Approach)	7.84	7.84	8.75	9.55	10.44	11.35	12.29	13.12	13.95	14.90	15.80
1. Energy Industries	1.41	1.41	1.47	1.50	1.49	1.51	1.55	1.61	1.72	1.92	1.95
2. Manufacturing Industries and Construction	0.68	0.68	0.66	0.60	0.67	0.68	0.74	0.75	0.80	0.81	0.82
3. Transport	5.49	5.49	6.35	7.18	8.01	8.89	9.72	10.49	11.16	11.90	12.77
4. Other Sectors	0.24	0.24	0.25	0.25	0.26	0.26	0.25	0.25	0.25	0.24	0.24
5. Other	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02
B. Fugitive Emissions from Fuels	0.12	0.12	0.11	0.11	0.10	0.09	0.09	0.10	0.07	0.11	0.07
1. Solid Fuel	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2. Oil and Natural Gas	0.12	0.12	0.11	0.11	0.10	0.09	0.09	0.10	0.07	0.11	0.07
2. Industrial Processes	**C**	**0.09**	**0.09**	**0.07**	**0.07**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**
A. Mineral Products	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical Industry[1]	C	C	C	C	C	C	C	C	C	C	C
C. Metal Production	0.09	0.09	0.09	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08
D. Other Production	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Production of Halocarbons and SF_6											
F. Consumption of Halocarbons and SF_6											
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Solvent and Other Product Use	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
4. Agriculture	**64.26**	**64.26**	**64.79**	**64.29**	**66.13**	**67.26**	**68.23**	**68.29**	**73.04**	**76.38**	**81.35**
A. Enteric Fermentation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Manure Management	1.70	1.70	1.89	2.16	2.46	2.72	2.99	3.01	3.34	3.63	4.13
C. Rice Cultivation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Agricultural Soils	48.86	48.86	49.31	48.98	49.93	50.33	49.76	49.29	52.56	55.39	58.63
E. Prescribed Burning of Savannas	13.42	13.42	13.33	12.88	13.45	13.91	15.17	15.66	16.78	17.00	18.23
F. Field Burning of Agricultural Residues	0.28	0.28	0.27	0.27	0.29	0.30	0.31	0.33	0.36	0.36	0.36
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Land Use, Land-Use Change and Forestry	**2.17**	**2.17**	**1.88**	**1.52**	**1.66**	**1.75**	**1.43**	**1.35**	**1.35**	**1.29**	**1.26**
A. Afforestation and reforestation	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Land use change (deforestation)	2.17	2.17	1.88	1.52	1.66	1.75	1.43	1.35	1.35	1.29	1.26
6. Waste	**1.56**	**1.56**	**1.58**	**1.60**	**1.61**	**1.63**	**1.65**	**1.67**	**1.69**	**1.71**	**1.73**
A. Solid Waste Disposal on Land	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Waste-water Handling	1.56	1.56	1.58	1.60	1.61	1.63	1.65	1.67	1.69	1.71	1.73
C. Waste Incineration	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
D. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7. Other *(please specify)*	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Memo Items:											
International Bunkers	**0.19**	**0.19**	**0.19**	**0.19**	**0.20**	**0.22**	**0.25**	**0.26**	**0.26**	**0.28**	**0.29**
Aviation	0.13	0.13	0.13	0.14	0.15	0.16	0.17	0.19	0.19	0.22	0.22
Marine	0.06	0.06	0.05	0.05	0.05	0.06	0.07	0.08	0.07	0.06	0.07
Multilateral Operations	NE	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
CO_2 Emissions from Biomass											

1. Speciated emissions from Ammonia Production, Nitric Acid Production, Magnesia Production and Soda Ash Production and Use are Confidential. These emissions are reported in Table 10s5

TABLE 1 EMISSIONS TRENDS (N_2O)—KYOTO ACCOUNTING
(Sheet 3 of 6)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year	2000	2001	2002
Total Emissions	**75.94**	**107.20**	**110.50**	**112.42**
1. Energy	**7.95**	**16.79**	**17.17**	**17.49**
A. Fuel Combustion (Sectoral Approach)	7.84	16.71	17.08	17.41
1. Energy Industries	1.41	1.97	2.02	2.02
2. Manufacturing Industries and Construction	0.68	0.79	0.74	0.72
3. Transport	5.49	13.69	14.07	14.41
4. Other Sectors	0.24	0.23	0.23	0.23
5. Other	0.01	0.02	0.02	0.02
B. Fugitive Emissions from Fuels	0.12	0.09	0.09	0.08
1. Solid Fuel	NE	NE	NE	NE
2. Oil and Natural Gas	0.12	0.09	0.09	0.08
2. Industrial Processes	**C**	**0.07**	**0.07**	**0.07**
A. Mineral Products	NA	NA	NA	NA
B. Chemical Industry[1]	C	C	C	C
C. Metal Production	0.09	0.07	0.07	0.07
D. Other Production	NA	NA	NA	NA
E. Production of Halocarbons and SF_6				
F. Consumption of Halocarbons and SF_6				
G. Other	NA	NA	NA	NA
3. Solvent and Other Product Use	**NE**	**NE**	**NE**	**NE**
4. Agriculture	**64.26**	**87.48**	**90.51**	**92.03**
A. Enteric Fermentation	NA	NA	NA	NA
B. Manure Management	1.70	4.39	4.42	4.44
C. Rice Cultivation	NA	NA	NA	NA
D. Agricultural Soils	48.86	61.45	62.56	62.81
E. Prescribed Burning of Savannas	13.42	21.28	23.16	24.41
F. Field Burning of Agricultural Residues	0.28	0.36	0.36	0.37
G. Other	NA	NA	NA	NA
5. Land Use, Land-Use Change and Forestry	**2.17**	**1.10**	**0.98**	**1.04**
A. Afforestation and reforestation	NA	NA	NA	NA
B. Land use change (deforestation)	2.17	1.10	0.98	1.04
6. Waste	**1.56**	**1.75**	**1.77**	**1.79**
A. Solid Waste Disposal on Land	NA	NA	NA	NA
B. Waste-water Handling	1.56	1.75	1.77	1.79
C. Waste Incineration	NE	NE	NE	NE
D. Other	NA	NA	NA	NA
7. Other *(please specify)* [redacted]	**NA**	**NA**	**NA**	**NA**
NA	NA	NA	NA	NA
Memo Items:				
International Bunkers	**0.19**	**0.30**	**0.31**	**0.33**
Aviation	0.13	0.22	0.24	0.26
Marine	0.06	0.08	0.07	0.07
Multilateral Operations	NE	**NE**	**NE**	**NE**
CO_2 Emissions from Biomass				

1. Speciated emissions from Ammonia Production, Nitric Acid Production, Magnesia Production and Soda Ash Production and Use are Confidential. These emissions are reported in Table 10s5

Australia
2002
Submission 2004

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year [1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
	(Gg)													
Emissions of HFCs – CO_2 equivalent (Gg)	**1,126.27**	**1,126.27**	**1,126.27**	**1,053.94**	**1,446.59**	**936.01**	**977.42**	**602.54**	**907.09**	**1,311.25**	**1,694.44**	**2,084.83**	**2,344.90**	**2,744.46**
HFC-23	0.10	0.10	0.10	0.09	0.12	0.07	0.06	NE	NE	NE	NE	NE	NE	NE
HFC-32	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
HFC-41	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
HFC-43-10mee	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
HFC-125	NE	NE	NE	NE	NE	0.02	0.03	0.05	0.05	0.06	0.07	0.08	0.08	0.10
HFC-134	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
HFC-134a	NE	NE	NE	NE	NE	0.00	0.05	0.22	0.42	0.69	0.94	1.19	1.39	1.61
HFC-152a	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
HFC-143	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
HFC-143a	NE	NE	NE	NE	NE	0.02	0.03	0.05	0.06	0.07	0.07	0.09	0.08	0.09
HFC-227ea	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
HFC-236fa	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
HFC-245ca	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Emissions of PFCs – CO_2 equivalent (Gg)	**3,938.28**	**3,938.28**	**3,941.47**	**3,935.10**	**2,833.07**	**1,847.57**	**1,309.06**	**1,205.39**	**1,050.67**	**1,396.99**	**981.99**	**1,103.21**	**1,555.97**	**1,507.17**
CF_4	NE	0.51	0.51	0.51	0.37	0.24	0.17	0.16	0.14	0.18	0.13	0.14	0.20	0.20
C_2F_6	NE	0.07	0.07	0.07	0.05	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03
C_3F_8	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
C_4F_{10}	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
c-C_4F_8	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
C_5F_{12}	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
C_6F_{14}	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Emissions of SF_6 – CO_2 equivalent (Gg)	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**8.60**	**5.98**	**3.66**	**3.59**	**2.39**	**NE**	**NE**
SF_6	NE	NE	NE	NE	NE	NE	NE	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Chemical	GWP
HFCs	
HFC-23	11700
HFC-32	650
HFC-41	150
HFC-43-10mee	1300
HFC-125	2800
HFC-134	1000
HFC-134a	1300
HFC-152a	140
HFC-143	300
HFC-143a	3800
HFC-227ea	2900
HFC-236fa	6300
HFC-245ca	560
PFCs	
CF_4	6500
C_2F_6	9200
C_3F_8	7000
C_4F_{10}	7000
c-C_4F_8	8700
C_5F_{12}	7500
C_6F_{14}	7400
SF_6	23900

1. Australia is yet to decide whether a 1990 or 1995 baseline will be used for synthetic greenhouse gases under the Kyoto Protocol. The 1990 estimates are included to enable indicative trends analysis only.

TABLE 1 EMISSION TRENDS (HFCs, PFCs and SF_6)— KYOTO ACCOUNTING
(Sheet 4 of 6)

Australia
2002
Submission 2004

GREENHOUSE GAS EMISSIONS	Base year [1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	CO_2 equivalent (Gg)										
Net CO_2 emissions/removals	392,061.16	392,061.16	369,147.17	355,786.18	359,685.93	366,210.17	362,700.74	368,012.86	371,037.35	394,094.16	390,004.17
CO_2 emissions (without LUCF)	277,868.83	277,868.83	279,607.55	282,055.39	285,525.40	291,325.06	301,035.74	310,855.26	318,166.84	334,475.47	344,146.89
Confidential emissions reported as CO_2-e[2]	1,741.00	1,741.00	1,602.97	1,754.48	2,308.45	2,459.67	2,407.17	2,592.87	2,564.16	2,784.44	2,666.08
CH_4	120,721.47	120,721.47	120,029.06	118,998.38	117,786.20	116,414.55	118,481.19	117,408.33	119,601.88	121,309.30	120,779.90
N_2O	23,568.33	23,568.33	23,926.13	23,912.46	24,806.09	25,467.34	25,969.39	26,229.99	27,953.11	29,280.65	31,090.69
HFCs	1,126.27	1,126.27	1,126.27	1,053.94	1,446.59	936.01	977.42	602.54	907.09	1,311.25	1,694.44
PFCs	3,938.28	3,938.28	3,941.47	3,935.10	2,833.07	1,847.57	1,309.06	1,205.39	1,050.67	1,396.99	981.99
SF_6	NE	NE	NE	NE	NE	NE	NE	8.60	5.98	3.66	3.59
Total (with net CO_2 emissions/removals)	**543,156.50**	**543,156.50**	**519,773.07**	**505,440.53**	**508,866.33**	**513,335.32**	**511,844.98**	**516,060.59**	**523,120.24**	**550,180.45**	**547,220.87**
Total (without CO_2 from LUCF)	**428,964.18**	**428,964.18**	**430,233.46**	**431,709.74**	**434,705.80**	**438,450.22**	**450,179.98**	**458,902.99**	**470,249.73**	**490,561.76**	**501,363.59**

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	CO_2 equivalent (Gg)										
1. Energy	286,243.09	286,243.09	288,115.39	294,137.40	296,986.38	300,915.69	313,362.45	323,134.50	331,587.72	349,674.62	356,777.21
2. Industrial Processes	26,136.19	26,136.19	25,640.24	23,476.99	23,389.12	23,958.80	23,392.27	23,184.21	23,290.34	24,543.39	24,997.35
3. Solvent and Other Product Use	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4. Agriculture	95,108.72	95,108.72	95,489.92	93,935.45	93,435.46	92,495.65	92,772.68	92,861.55	95,411.82	96,717.86	99,536.18
5. Land Use, Land-Use Change and Forestry	120,371.03	120,371.03	94,894.21	78,074.86	78,903.27	79,869.64	65,745.38	60,998.06	56,707.93	63,292.40	49,457.46
6. Waste	15,297.48	15,297.48	15,633.31	15,815.83	16,152.10	16,095.53	16,572.21	15,882.27	16,122.43	15,952.18	16,452.67
7. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

1. Australia is yet to decide whether a 1990 or 1995 baseline will be used for synthetic greenhouse gases under the Kyoto Protocol. The 1990 estimates are included to enable indicative trends analysis only.
2. Includes confidential emissions from Ammonia Production (2B1) and Soda Ash Production and Use (2A4), Magnesia Production (2A7) and N_2O from Nitric Acid Production (2B2).

GREENHOUSE GAS EMISSIONS	Base year [1]	2000	2001	2002
Net CO_2 emissions/removals	392,061.16	382,918.99	376,747.06	384,640.21
CO_2 emissions (without LUCF)	277,868.83	348,980.83	353,662.67	358,455.34
Confidential emissions reported as CO_2-e[2]	1,741.00	2,765.12	3,477.12	3,748.43
CH_4	120,721.47	123,556.82	123,572.86	122,634.93
N_2O	23,568.33	33,230.50	34,255.26	34,849.79
HFCs	1,126.27	2,084.83	2,344.90	2,744.46
PFCs	3,938.28	1,103.21	1,555.97	1,507.17
SF_6	NE	2.39	0.00	0.00
Total (with net CO_2 emissions/removals)	**543,156.50**	**545,661.86**	**541,953.15**	**550,125.00**
Total (without CO_2 from LUCF)	**428,964.18**	**511,723.70**	**518,868.77**	**523,940.12**

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year	2000	2001	2002
1. Energy	286,243.09	364,009.32	368,032.13	371,350.26
2. Industrial Processes	26,136.19	24,790.29	25,728.53	26,382.17
3. Solvent and Other Product Use	NA	NA	NA	NA
4. Agriculture	95,108.72	103,087.61	105,250.54	105,643.77
5. Land Use, Land-Use Change and Forestry	120,371.03	37,082.87	25,888.16	29,159.12
6. Waste	15,297.48	16,691.76	17,053.79	17,589.67
7. Other	NA	NA	NA	NA

1. Australia is yet to decide whether a 1990 or 1995 baseline will be used for synthetic greenhouse gases under the Kyoto Protocol. The 1990 estimates are included to enable indicative trends analysis only.
2. Includes confidential emissions from Ammonia Production (2B1) and Soda Ash Production and Use (2A4), Magnesia Production (2A7) and N_2O from Nitric Acid Production (2B2).

Australia
2002
Submission 2004

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year [1]	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
	(Gg)										
1. Energy	**286,243.09**	**286,243.09**	**288,115.39**	**294,137.40**	**296,986.38**	**300,915.69**	**313,362.45**	**323,134.50**	**331,587.72**	**349,674.62**	**356,777.21**
A. Fuel Combustion (Sectoral Approach)	**257,478.85**	**257,478.85**	**260,105.15**	**264,995.26**	**268,697.11**	**273,116.90**	**282,953.04**	**293,385.71**	**301,195.07**	**317,179.36**	**326,023.91**
1. Energy Industries	142,283.89	142,283.89	145,792.61	149,020.09	150,296.69	151,362.82	157,335.68	163,881.70	170,033.76	185,479.71	189,873.98
2. Manufacturing Industries and Construction	37,628.27	37,628.27	37,066.87	36,923.72	37,383.32	38,888.87	39,436.62	40,584.96	40,153.22	40,525.77	43,907.13
3. Transport	61,979.86	61,979.86	61,586.86	62,966.05	64,401.43	66,098.47	68,978.19	71,581.10	73,158.36	73,467.27	74,592.28
4. Other Sectors	14,325.20	14,325.20	14,443.22	14,827.69	15,321.11	15,386.62	15,789.98	15,812.35	16,303.08	16,380.01	16,411.29
5. Other	1,261.63	1,261.63	1,215.59	1,257.71	1,294.56	1,380.12	1,412.58	1,525.59	1,546.64	1,326.59	1,239.23
B. Fugitive Emissions from Fuels	28,764.25	28,764.25	28,010.24	29,142.15	28,289.27	27,798.79	30,409.41	29,748.79	30,392.65	32,495.26	30,753.30
1. Solid Fuel	15,816.36	15,816.36	15,979.04	16,619.63	16,611.41	16,326.61	17,480.17	17,786.50	18,176.44	20,048.78	18,969.85
2. Oil and Natural Gas	12,947.88	12,947.88	12,031.20	12,522.52	11,677.86	11,472.19	12,929.24	11,962.29	12,216.22	12,446.49	11,783.44
2. Industrial Processes	**26,136.19**	**26,136.19**	**25,640.24**	**23,476.99**	**23,389.12**	**23,958.80**	**23,392.27**	**23,184.21**	**23,290.34**	**24,543.39**	**24,997.35**
A. Mineral Products	4,763.45	4,763.45	4,477.14	4,299.14	4,507.25	5,210.39	5,008.05	5,076.15	5,008.60	5,433.39	5,355.99
B. Chemical Industry	1,750.19	1,750.19	1,611.45	1,763.04	2,315.18	2,468.04	2,415.16	2,602.43	2,573.19	2,791.81	2,673.27
C. Metal Production	18,496.27	18,496.27	18,425.39	16,360.88	15,120.09	15,344.37	14,991.64	14,894.48	14,795.48	15,003.28	15,270.06
D. Other Production	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
E. Production of Halocarbons and SF_6	1,126.27	1,126.27	1,126.27	1,053.94	1,446.59	811.70	718.85	NO	NO	NO	NO
F. Consumption of Halocarbons and SF_6	NE	NE	NE	NE	NE	124.31	258.57	611.15	913.07	1,314.91	1,698.03
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Solvent and Other Product Use	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
4. Agriculture	**95,108.72**	**95,108.72**	**95,489.92**	**93,935.45**	**93,435.46**	**92,495.65**	**92,772.68**	**92,861.55**	**95,411.82**	**96,717.86**	**99,536.18**
A. Enteric Fermentation	67,497.11	67,497.11	67,728.92	66,465.79	65,026.00	63,489.39	62,875.98	62,652.50	63,154.17	63,234.89	64,020.92
B. Manure Management	2,035.67	2,035.67	2,092.36	2,207.06	2,359.72	2,496.10	2,600.52	2,626.58	2,798.78	2,974.31	3,173.72
C. Rice Cultivation	490.50	490.50	523.78	536.08	598.63	606.24	648.74	702.28	722.05	724.47	670.72
D. Agricultural Soils	15,145.90	15,145.90	15,284.72	15,184.62	15,479.29	15,602.96	15,425.05	15,279.15	16,294.45	17,169.47	18,174.45
E. Prescribed Burning of Savannas	9,667.99	9,667.99	9,598.03	9,275.25	9,685.99	10,015.91	10,925.88	11,282.61	12,085.87	12,243.81	13,130.55
F. Field Burning of Agricultural Residues	271.55	271.55	262.12	266.65	285.82	285.05	296.50	318.43	356.50	370.90	365.81
G. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Land Use, Land-Use Change and Forestry	**120,371.03**	**120,371.03**	**94,894.21**	**78,074.86**	**78,903.27**	**79,869.64**	**65,745.38**	**60,998.06**	**56,707.93**	**63,292.40**	**49,457.46**
A. Afforestation and reforestation [2]	0.00	0.00	-453.15	-928.64	-1,402.26	-1,752.32	-2,296.77	-2,948.58	-4,190.35	-5,589.02	-7,110.32
B. Land use change (deforestation)	120,371.03	120,371.03	95,347.36	79,003.50	80,305.54	81,621.96	68,042.15	63,946.64	60,898.28	68,881.42	56,567.78
6. Waste	**15,297.48**	**15,297.48**	**15,633.31**	**15,815.83**	**16,152.10**	**16,095.53**	**16,572.21**	**15,882.27**	**16,122.43**	**15,952.18**	**16,452.67**
A. Solid Waste Disposal on Land	13,623.32	13,623.32	13,937.81	14,099.77	14,419.29	14,344.40	14,794.69	14,084.77	14,301.35	14,112.10	14,591.29
B. Waste-water Handling	1,662.58	1,662.58	1,683.92	1,704.47	1,721.23	1,739.55	1,760.69	1,783.97	1,804.14	1,822.94	1,843.89
C. Waste Incineration	11.58	11.58	11.58	11.58	11.58	11.58	16.83	13.53	16.94	17.13	17.49
D. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
7. Other *(please specify)*	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Emissions/Removals with LUCF	**543,156.50**	**543,156.50**	**519,773.07**	**505,440.53**	**508,866.33**	**513,335.32**	**511,844.98**	**516,060.59**	**523,120.24**	**550,180.45**	**547,220.87**
Total Emissions without LUCF	**422,785.48**	**422,785.48**	**424,878.86**	**427,365.67**	**429,963.05**	**433,465.68**	**446,099.60**	**455,062.53**	**466,412.31**	**486,888.05**	**497,763.41**
Memo Items:											
International Bunkers	**6,461.40**	**6,461.40**	**6,438.86**	**6,646.42**	**7,053.58**	**7,435.31**	**8,613.12**	**9,115.69**	**9,105.41**	**9,562.31**	**9,844.63**
Aviation	4,385.62	4,385.62	4,562.49	4,840.41	5,247.80	5,403.82	5,912.32	6,370.59	6,561.81	7,300.53	7,336.08
Marine	2,075.79	2,075.79	1,876.37	1,806.01	1,805.78	2,031.49	2,700.80	2,745.10	2,543.60	2,261.79	2,508.55
Multilateral Operations	**NE**	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
CO_2 Emissions from Biomass	**16,514.85**	16,514.85	16,641.90	15,141.52	16,799.68	17,618.70	18,447.90	18,437.02	20,275.50	20,492.97	20,145.07

1. Australia is yet to decide whether a 1990 or 1995 baseline will be used for synthetic greenhouse gases under the Kyoto Protocol. The 1990 estimates are included to enable indicative trends analysis only.

2. Greenhouse sinks credits are accounted for in 2008–12 only. The values provided are only an indicative estimate of sequestration in reforestation activities.

TABLE 1 EMISSIONS TRENDS (CO_2-e)—KYOTO ACCOUNTING
(Sheet 6 of 6)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year [1]	2000	2001	2002
1. Energy	**286,243.09**	**364,009.32**	**368,032.13**	**371,350.26**
A. Fuel Combustion (Sectoral Approach)	**257,478.85**	**331,120.30**	**335,821.42**	**341,154.75**
1. Energy Industries	142,283.89	193,195.15	198,038.50	199,690.77
2. Manufacturing Industries and Construction	37,628.27	42,886.28	42,313.57	43,520.50
3. Transport	61,979.86	77,000.89	77,256.34	79,209.89
4. Other Sectors	14,325.20	16,755.24	16,852.52	17,294.84
5. Other	1,261.63	1,282.74	1,360.48	1,438.75
B. Fugitive Emissions from Fuels	28,764.25	32,889.02	32,210.71	30,195.51
1. Solid Fuel	15,816.36	19,638.07	18,445.52	17,456.28
2. Oil and Natural Gas	12,947.88	13,250.95	13,765.20	12,739.23
2. Industrial Processes	**26,136.19**	**24,790.29**	**25,728.53**	**26,382.17**
A. Mineral Products	4,763.45	5,150.78	5,157.40	5,179.52
B. Chemical Industry	1,750.19	2,774.33	3,484.41	3,756.09
C. Metal Production	18,496.27	14,777.96	14,741.82	14,702.11
D. Other Production	NE	NE	NE	NE
E. Production of Halocarbons and SF_6	1,126.27	NO	NO	NO
F. Consumption of Halocarbons and SF_6	NE	2,087.22	2,344.90	2,744.46
G. Other	NA	NA	NA	NA
3. Solvent and Other Product Use	**NA**	**NA**	**NA**	**NA**
4. Agriculture	**95,108.72**	**103,087.61**	**105,250.54**	**105,643.77**
A. Enteric Fermentation	67,497.11	64,316.79	64,721.56	64,229.55
B. Manure Management	2,035.67	3,276.92	3,329.36	3,381.60
C. Rice Cultivation	490.50	741.34	737.82	590.57
D. Agricultural Soils	15,145.90	19,048.48	19,394.07	19,471.15
E. Prescribed Burning of Savannas	9,667.99	15,329.93	16,685.35	17,582.73
F. Field Burning of Agricultural Residues	271.55	374.14	382.39	388.17
G. Other	NA	NA	NA	NA
5. Land Use, Land-Use Change and Forestry	**120,371.03**	**37,082.87**	**25,888.16**	**29,159.12**
A. Afforestation and reforestation [2]	0.00	-10,177.06	-11,128.14	-12,979.00
B. Land use change (deforestation)	120,371.03	47,259.93	37,016.30	42,138.12
6. Waste	**15,297.48**	**16,691.76**	**17,053.79**	**17,589.67**
A. Solid Waste Disposal on Land	13,623.32	14,809.45	15,146.15	15,659.82
B. Waste-water Handling	1,662.58	1,866.01	1,891.34	1,913.55
C. Waste Incineration	11.58	16.30	16.30	16.30
D. Other	NA	NA	NA	NA
7. Other *(please specify)*	**NA**	**NA**	**NA**	**NA**
NA	NA	NA	NA	NA
Total Emissions/Removals with LUCF	**543,156.50**	**545,661.86**	**541,953.15**	**550,125.00**
Total Emissions without LUCF	**422,785.48**	**508,578.98**	**516,064.99**	**520,965.88**
Memo Items:				
International Bunkers	**6,461.40**	**10,194.71**	**10,725.41**	**11,206.95**
Aviation	4,385.62	7,399.42	8,227.70	8,649.31
Marine	2,075.79	2,795.29	2,497.71	2,557.64
Multilateral Operations	**NE**	NE	NE	NE
CO_2 Emissions from Biomass	**16,514.85**	20,146.07	20,147.07	17,600.23

1. Australia is yet to decide whether a 1990 or 1995 baseline will be used for synthetic greenhouse gases under the Kyoto Protocol. The 1990 estimates are included to enable indicative trends analysis only.

2. Greenhouse sinks credits are accounted for in 2008–12 only. The values provided are only an indicative estimate of sequestration in reforestation activities.