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Contents

Table 1s1	
Table 1s2	
Table 1s3	
Table 1(a)s1	
Table 1(a)s2	
Table 1(a)s3	
Table 1(b)s1	
Table 1(b)s2	
Table 1(b)s3	
Table 1(c)s1	
Table 1(c)s2	
Table 1(c)s3	
Table 1(d)s1	
Table 1(d)s2	
Table 1(d)s3	
Table 2(a)	
Table 2(b)	
Table 2(c)	
Table 2(d)	
Table 2(e)I	
Table 2(e)II	
Table 2(f)	
Table 3	
Table 4	
Table 4(a)I_2013	
Table 4(a)I_2014	
Table 4(a)II	No data was imported from KP-LULUCF CRF table 10 from the latest official GHG inventory submission.
Table 4(b)	
Table 5	
Table 6(a)	
Table 6(b)	Greenhouse gas projections: Scenario 'without measures' was not included.
Table 6(c)	Greenhouse gas projections: Scenario 'with additional measures' was not included.
Table 7_2013	
Table 7_2014	
Table 7(a)_2013	
Table 7(a)_2014	
Table 7(b)_2013	
Table 7(b)_2014	
Table 8	
Table 9	

Table 1 POL_BR2_v1.0

Emission trends: summary [(1)]
(Sheet 1 of 3)

GREENHOUSE GAS EMISSIONS	Base year[a]	1990	1991	1992	1993	1994	1995	1996	1997
	kt CO_2 eq								
CO_2 emissions without net CO_2 from LULUCF	474,657.36	379,464.82	376,496.13	366,413.10	366,726.68	362,432.48	363,900.96	377,676.61	368,543.24
CO_2 emissions with net CO_2 from LULUCF	460,160.19	352,503.13	356,469.99	370,450.85	362,837.21	358,040.22	348,448.09	344,253.18	335,298.88
CH_4 emissions without CH_4 from LULUCF	77,250.07	67,435.57	64,425.59	61,040.03	59,978.22	59,351.88	58,402.66	57,800.92	56,974.41
CH_4 emissions with CH_4 from LULUCF	77,294.20	67,479.63	64,470.58	61,084.54	60,020.43	59,392.81	58,448.56	57,837.31	57,012.35
N_2O emissions without N_2O from LULUCF	28,841.35	26,866.85	22,435.84	20,909.08	21,892.86	21,752.25	22,738.14	22,897.95	22,800.06
N_2O emissions with N_2O from LULUCF	28,852.52	27,759.56	22,441.99	20,960.10	21,904.61	21,764.52	22,747.56	22,914.47	22,809.33
HFCs	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	97.34	228.41	373.93
PFCs	147.26	141.87	141.31	134.63	144.86	152.78	171.97	161.07	173.36
Unspecified mix of HFCs and PFCs	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
SF_6	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	13.27	29.12	23.80	22.91
NF3	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Total (without LULUCF)	580,896.03	473,909.11	463,498.88	448,496.84	448,742.62	443,702.65	445,340.19	458,788.75	448,887.92
Total (with LULUCF)	566,454.17	447,884.19	443,523.87	452,630.12	444,907.11	439,363.60	429,942.65	425,418.24	415,690.76
Total (without LULUCF, with indirect)	580,896.03	473,909.11	463,498.88	448,496.84	448,742.62	443,702.65	445,340.19	458,788.75	448,887.92
Total (with LULUCF, with indirect)	566,454.17	447,884.19	443,523.87	452,630.12	444,907.11	439,363.60	429,942.65	425,418.24	415,690.76

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year[a]	1990	1991	1992	1993	1994	1995	1996	1997
	kt CO_2 eq								
1. Energy	483,466.81	386,536.68	386,344.92	376,329.65	378,288.32	371,703.39	372,445.51	387,356.19	376,404.40
2. Industrial processes and product use	34,248.55	25,372.91	22,064.63	21,087.87	21,212.39	23,471.35	25,019.47	24,135.04	24,939.16
3. Agriculture	48,438.01	47,608.57	40,917.81	37,093.27	35,483.29	35,150.91	34,720.57	34,339.01	34,671.46
4. Land Use, Land-Use Change and Forestry[b]	-14,441.86	-26,024.92	-19,975.01	4,133.29	-3,835.52	-4,339.05	-15,397.54	-33,370.52	-33,197.16
5. Waste	14,742.65	14,390.95	14,171.52	13,986.04	13,758.62	13,376.99	13,154.63	12,958.51	12,872.90
6. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total (including LULUCF)	566,454.17	447,884.19	443,523.87	452,630.12	444,907.11	439,363.60	429,942.65	425,418.24	415,690.76

Note: All footnotes for this table are given on sheet 3.

[1] The common tabular format will be revised, in accordance with relevant decisions of the Conference of the Parties and, where applicable, with decisions of the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol."

Table 1 POL_BR2_v1.0

Emission trends: summary [(1)]
(Sheet 2 of 3)

GREENHOUSE GAS EMISSIONS	*1998*	1999	2000	2001	2002	2003	2004	2005	2006	2007
CO_2 emissions without net CO_2 from LULUCF	339,469.55	329,870.26	319,482.57	315,509.06	307,790.64	320,487.58	324,514.92	323,586.36	337,065.77	336,707.74
CO_2 emissions with net CO_2 from LULUCF	300,260.35	283,720.28	288,498.87	292,787.16	275,634.32	286,793.86	279,317.04	279,010.67	276,744.28	305,305.23
CH_4 emissions without CH_4 from LULUCF	53,131.81	51,733.41	49,171.84	49,883.67	47,863.26	47,818.75	47,086.36	46,981.85	46,917.29	45,525.71
CH_4 emissions with CH_4 from LULUCF	53,166.14	51,770.51	49,204.39	49,916.25	47,897.98	47,855.66	47,120.62	47,015.34	46,956.37	45,555.41
N_2O emissions without N_2O from LULUCF	22,548.47	21,832.39	22,205.75	22,367.29	21,256.07	21,477.45	21,996.94	22,168.36	22,687.42	23,487.23
N_2O emissions with N_2O from LULUCF	22,554.55	21,843.19	22,214.48	22,372.57	21,263.48	21,500.97	22,002.96	22,356.38	22,696.43	23,521.32
HFCs	462.23	673.38	1,739.19	2,323.03	3,137.01	4,059.79	4,335.11	5,317.72	6,074.69	6,993.20
PFCs	174.86	168.71	176.68	197.34	207.33	201.08	205.07	187.41	193.58	184.63
Unspecified mix of HFCs and PFCs	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
SF_6	23.94	23.50	23.07	22.86	23.29	20.72	22.36	26.80	33.20	31.16
NF3	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Total (without LULUCF)	415,810.85	404,301.66	392,799.10	390,303.26	380,277.60	394,065.37	398,160.76	398,268.49	412,971.94	412,929.67
Total (with LULUCF)	376,642.06	358,199.57	361,856.67	367,619.22	348,163.41	360,432.08	353,003.16	353,914.31	352,698.54	381,590.96
Total (without LULUCF, with indirect)	415,810.85	404,301.66	392,799.10	390,303.26	380,277.60	394,065.37	398,160.76	398,268.49	412,971.94	412,929.67
Total (with LULUCF, with indirect)	376,642.06	358,199.57	361,856.67	367,619.22	348,163.41	360,432.08	353,003.16	353,914.31	352,698.54	381,590.96

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*1998*	1999	2000	2001	2002	2003	2004	2005	2006	2007
1. Energy	344,976.27	336,225.23	322,702.24	322,624.91	314,258.63	325,444.38	328,765.16	328,523.40	339,722.69	336,303.38
2. Industrial processes and product use	23,256.48	22,116.60	25,788.57	24,165.98	23,139.90	26,418.37	27,798.64	27,947.50	30,591.97	33,529.53
3. Agriculture	34,681.52	33,144.30	31,347.23	30,865.16	30,267.98	29,698.28	29,617.04	29,860.99	30,912.87	31,353.43
4. Land Use, Land-Use Change and Forestry[b]	-39,168.79	-46,102.09	-30,942.43	-22,684.05	-32,114.20	-33,633.29	-45,157.60	-44,354.18	-60,273.40	-31,338.71
5. Waste	12,896.58	12,815.52	12,961.06	12,647.21	12,611.10	12,504.34	11,979.92	11,936.60	11,744.42	11,743.33
6. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total (including LULUCF)	376,642.06	358,199.57	361,856.67	367,619.22	348,163.41	360,432.08	353,003.16	353,914.31	352,698.54	381,590.96

Note: All footnotes for this table are given on sheet 3.

Table 1 POL_BR2_v1.0

Emission trends: summary [1]
(Sheet 3 of 3)

GREENHOUSE GAS EMISSIONS	*2008*	2009	2010	2011	2012	2013	Change from base to latest reported year
							(%)
CO_2 emissions without net CO_2 from LULUCF	329,704.52	316,191.13	336,695.02	333,947.03	326,969.55	322,900.21	-31.97
CO_2 emissions with net CO_2 from LULUCF	298,537.94	286,803.12	308,474.02	298,872.40	292,423.36	285,272.89	-38.01
CH_4 emissions without CH_4 from LULUCF	44,550.67	43,017.27	43,515.17	42,273.51	42,726.61	42,097.14	-45.51
CH_4 emissions with CH_4 from LULUCF	44,585.31	43,047.11	43,546.82	42,304.59	42,758.38	42,134.12	-45.49
N_2O emissions without N_2O from LULUCF	22,950.33	19,826.93	19,542.95	19,882.64	19,826.27	20,233.61	-29.85
N_2O emissions with N_2O from LULUCF	23,974.79	19,832.83	19,546.80	19,887.18	19,835.40	20,236.95	-29.86
HFCs	7,415.19	8,366.72	8,304.03	8,992.69	9,234.01	9,606.78	
PFCs	163.12	17.97	17.07	16.22	15.41	14.64	-90.06
Unspecified mix of HFCs and PFCs	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
SF_6	32.87	37.60	35.37	39.02	40.13	39.15	
NF3	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
Total (without LULUCF)	404,816.70	387,457.61	408,109.60	405,151.11	398,811.96	394,891.52	-32.02
Total (with LULUCF)	374,709.21	358,105.34	379,924.10	370,112.09	364,306.67	357,304.53	-36.92
Total (without LULUCF, with indirect)	404,816.70	387,457.61	408,109.60	405,151.11	398,811.96	394,891.52	-32.02
Total (with LULUCF, with indirect)	374,709.21	358,105.34	379,924.10	370,112.09	364,306.67	357,304.53	-36.92

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*2008*	2009	2010	2011	2012	2013	Change from base to latest reported year
							(%)
1. Energy	329,833.73	318,421.23	338,562.43	332,755.32	327,734.72	323,470.71	-33.09
2. Industrial processes and product use	32,314.72	26,972.63	28,038.05	30,966.26	30,000.45	30,290.96	-11.56
3. Agriculture	31,184.76	30,470.72	29,962.73	30,305.15	30,086.67	30,100.41	-37.86
4. Land Use, Land-Use Change and Forestry[b]	-30,107.49	-29,352.27	-28,185.50	-35,039.02	-34,505.29	-37,586.99	160.26
5. Waste	11,483.49	11,593.03	11,546.40	11,124.39	10,990.11	11,029.45	-25.19
6. Other	NO	NO	NO	NO	NO	NO	
Total (including LULUCF)	374,709.21	358,105.34	379,924.10	370,112.09	364,306.67	357,304.53	-36.92

Notes:

(1) Further detailed information could be found in the common reporting format tables of the Party's greenhouse gas inventory, namely "Emission trends (CO_2)", "Emission trends (CH_4)", "Emission trends (N_2O)" and "Emission trends (HFCs, PFCs and SF_6)", which is included in an annex to this biennial report.

(2) 2011 is the latest reported inventory year.

(3) 1 kt CO_2 eq equals 1 Gg CO_2 eq.

Abbreviation: LULUCF = land use, land-use change and forestry.

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

[b] Includes net CO_2, CH_4 and N_2O from LULUCF.

Custom Footnotes

Table 1 (a) POL_BR2_v1.0

Emission trends (CO_2)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*Base year* [a] *kt*	1990	1991	1992	1993	1994	1995	1996	1997
1. Energy	442,242.56	354,770.38	355,193.47	346,594.72	347,460.18	340,919.53	341,427.09	355,886.91	345,959.38
A. Fuel combustion (sectoral approach)	439,046.20	352,126.75	353,411.01	344,731.38	345,788.67	340,362.26	339,907.16	354,576.56	343,514.63
1. Energy industries	256,963.48	235,095.08	228,816.70	219,603.78	206,759.94	205,915.41	190,561.55	197,141.58	191,457.06
2. Manufacturing industries and construction	55,067.83	43,014.56	39,957.52	37,383.70	47,855.98	48,705.88	63,172.73	67,663.86	63,889.34
3. Transport	23,889.76	20,283.82	21,327.51	21,768.41	21,308.38	22,395.05	23,146.66	25,585.44	27,034.84
4. Other sectors	103,125.14	53,733.28	63,309.29	65,975.49	69,864.37	63,345.91	63,026.21	64,185.69	61,133.40
5. Other	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE
B. Fugitive emissions from fuels	3,196.37	2,643.63	1,782.45	1,863.34	1,671.51	557.27	1,519.93	1,310.34	2,444.75
1. Solid fuels	3,115.68	2,561.07	1,703.34	1,777.09	1,573.63	449.89	1,407.11	1,186.50	2,325.97
2. Oil and natural gas and other emissions from energy production	80.68	82.56	79.12	86.25	97.89	107.38	112.83	123.85	118.78
C. CO2 transport and storage	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Industrial processes	29,111.78	21,513.08	18,604.66	17,686.96	17,372.13	19,617.42	20,651.72	19,651.53	20,524.81
A. Mineral industry	11,529.22	8,791.61	8,182.58	8,384.61	8,037.48	9,562.74	9,669.55	9,242.89	9,925.94
B. Chemical industry	6,326.32	4,367.80	4,188.39	3,850.50	3,883.58	4,323.42	4,919.43	4,861.97	4,907.16
C. Metal industry	8,029.37	6,036.69	4,337.13	3,767.82	3,628.58	3,989.10	4,185.71	3,663.47	3,834.39
D. Non-energy products from fuels and solvent use	3,226.87	2,316.98	1,896.55	1,684.02	1,822.49	1,742.16	1,877.03	1,883.20	1,857.32
E. Electronic industry									
F. Product uses as ODS substitutes									
G. Other product manufacture and use									
H. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
3. Agriculture	2,854.95	2,831.30	2,384.38	1,833.30	1,599.26	1,599.40	1,522.14	1,833.84	1,755.19
A. Enteric fermentation									
B. Manure management									
C. Rice cultivation									
D. Agricultural soils									
E. Prescribed burning of savannas									
F. Field burning of agricultural residues									
G. Liming	2,337.30	2,337.30	2,099.38	1,593.28	1,334.43	1,305.48	1,197.97	1,503.47	1,410.09
H. Urea application	517.66	494.00	285.00	240.02	264.84	293.92	324.16	330.37	345.10
I. Other carbon-containing fertilizers	NO	NO	NO	NO	NO	NO	NO	NO	NO
J. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
4. Land Use, Land-Use Change and Forestry	-14,497.17	-26,961.69	-20,026.14	4,037.75	-3,889.47	-4,392.26	-15,452.87	-33,423.42	-33,244.37
A. Forest land	-21,187.49	-33,701.67	-26,214.94	-1,957.33	-11,195.44	-10,414.28	-21,698.57	-39,440.86	-39,205.48
B. Cropland	859.94	1,145.80	626.10	630.11	635.02	637.81	643.30	648.27	642.99
C. Grassland	672.96	713.11	720.99	651.86	583.10	588.08	750.07	677.85	651.29
D. Wetlands	4,493.94	4,479.52	4,479.48	4,460.16	4,457.08	4,437.48	4,450.56	4,441.01	4,414.84
E. Settlements	663.48	401.55	362.22	252.95	1,630.77	358.64	401.78	250.31	251.98
F. Other land	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
G. Harvested wood products	NA	NA	NA	NA	NA	NA	NA	NA	NA
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Waste	448.05	350.06	313.63	298.12	295.11	296.13	300.02	304.33	303.86
A. Solid waste disposal	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
B. Biological treatment of solid waste									
C. Incineration and open burning of waste	448.05	350.06	313.63	298.12	295.11	296.13	300.02	304.33	303.86
D. Waste water treatment and discharge									
E. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Memo items:									
International bunkers	2,784.27	1,893.77	1,148.24	1,472.17	1,135.76	1,142.63	1,220.35	1,434.91	1,490.65
Aviation	1,031.55	635.48	656.17	712.33	709.37	718.24	774.40	910.36	815.78
Navigation	1,752.72	1,258.29	492.07	759.84	426.39	424.39	445.95	524.55	674.88
Multilateral operations	NA	NA	NA	NA	NA	NA	NA	NA	NA
CO2 emissions from biomass	6,869.31	6,813.47	5,770.98	6,394.32	17,805.11	17,261.14	17,602.21	17,320.56	17,300.09
CO2 captured	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE
Long-term storage of C in waste disposal sites	13,392.19	14,977.23	15,709.86	16,403.89	17,083.30	17,744.89	18,419.00	19,130.08	19,866.98
Indirect N2O									
Indirect CO2 (3)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total CO2 equivalent emissions without land use, land-use change and forestry	580,896.03	473,909.11	463,498.88	448,496.84	448,742.62	443,702.65	445,340.19	458,788.75	448,887.92
Total CO2 equivalent emissions with land use, land-use change and forestry	566,454.17	447,884.19	443,523.87	452,630.12	444,907.11	439,363.60	429,942.65	425,418.24	415,690.76
Total CO2 equivalent emissions, including indirect CO2, without land use, land-use change and forestry	474,657.36	379,464.82	376,496.13	366,413.10	366,726.68	362,432.48	363,900.96	377,676.61	368,543.24
Total CO2 equivalent emissions, including indirect CO2, with land use, land-use change and forestry	460,160.19	352,503.13	356,469.99	370,450.85	362,837.21	358,040.22	348,448.09	344,253.18	335,298.88

Note: All footnotes for this table are given on sheet 3.

Table 1 (a) POL_BR2_v1.0

Emission trends (CO_2)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*1998*	1999	2000	2001	2002	2003	2004	2005	2006	2007
1. Energy	318,209.40	310,041.94	298,086.09	296,456.33	289,823.64	300,739.59	303,984.16	304,020.12	315,628.98	313,700.85
A. Fuel combustion (sectoral approach)	317,203.04	307,946.63	295,182.98	294,184.87	287,374.53	297,776.67	301,252.55	300,807.10	312,098.04	310,363.27
1. Energy industries	184,170.78	178,750.48	176,303.92	177,914.75	171,702.44	180,070.21	177,948.91	176,683.11	181,931.31	178,581.20
2. Manufacturing industries and construction	53,722.28	45,918.00	46,390.59	41,103.88	38,493.54	37,644.11	38,672.03	34,359.52	34,191.19	36,446.57
3. Transport	28,452.91	31,014.17	27,285.60	27,067.94	26,123.71	28,489.90	32,226.36	34,601.54	38,320.87	42,317.42
4. Other sectors	50,857.07	52,263.98	45,202.87	48,098.30	51,054.84	51,572.46	52,405.26	55,162.92	57,654.68	53,018.08
5. Other	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE
B. Fugitive emissions from fuels	1,006.36	2,095.31	2,903.11	2,271.46	2,449.11	2,962.92	2,731.61	3,213.02	3,530.94	3,337.58
1. Solid fuels	868.40	1,938.61	2,689.41	2,023.66	2,214.55	2,705.12	2,440.97	1,852.14	2,122.38	2,132.20
2. Oil and natural gas and other emissions from energy production	137.96	156.70	213.70	247.80	234.57	257.80	290.64	1,360.87	1,408.56	1,205.38
C. CO2 transport and storage	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
2. Industrial processes	19,019.02	17,736.07	19,600.41	17,274.04	16,127.37	17,835.26	18,830.86	17,819.22	19,698.82	21,558.51
A. Mineral industry	9,473.70	9,243.85	9,348.68	8,013.93	7,731.21	7,832.81	8,551.34	8,241.17	9,409.65	10,673.47
B. Chemical industry	4,503.54	3,964.69	4,825.74	4,514.18	3,794.71	5,096.61	5,242.09	5,400.58	5,728.00	5,784.35
C. Metal industry	3,088.85	2,750.66	3,329.88	2,778.25	2,618.08	2,999.32	3,184.67	2,379.18	2,496.93	2,990.28
D. Non-energy products from fuels and solvent use	1,952.94	1,776.87	2,096.11	1,967.68	1,983.37	1,906.52	1,852.75	1,798.29	2,064.24	2,110.42
E. Electronic industry										
F. Product uses as ODS substitutes										
G. Other product manufacture and use										
H. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3. Agriculture	1,917.24	1,822.77	1,532.65	1,442.07	1,418.60	1,354.40	1,339.02	1,339.53	1,331.10	993.75
A. Enteric fermentation										
B. Manure management										
C. Rice cultivation										
D. Agricultural soils										
E. Prescribed burning of savannas										
F. Field burning of agricultural residues										
G. Liming	1,571.75	1,488.52	1,198.79	1,095.03	1,084.35	1,031.79	991.98	992.49	944.90	584.28
H. Urea application	345.49	334.25	333.86	347.04	334.25	322.61	347.04	347.04	386.21	409.47
I. Other carbon-containing fertilizers	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
J. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
4. Land Use, Land-Use Change and Forestry	-39,209.20	-46,149.98	-30,983.71	-22,721.90	-32,156.32	-33,693.72	-45,197.88	-44,575.68	-60,321.49	-31,402.50
A. Forest land	-44,755.26	-51,838.42	-36,566.21	-28,375.72	-37,498.41	-38,737.82	-50,387.10	-49,809.91	-65,470.72	-36,501.27
B. Cropland	640.68	642.00	656.60	647.26	643.27	622.87	620.91	735.29	723.60	704.98
C. Grassland	179.36	347.04	263.68	250.77	9.83	-304.26	-179.62	-204.66	-225.28	-312.03
D. Wetlands	4,414.59	4,427.24	4,419.43	4,388.99	4,398.57	4,482.98	4,397.37	4,366.27	4,355.35	4,379.44
E. Settlements	311.44	272.15	242.79	366.81	290.42	242.50	350.55	337.32	295.56	326.37
F. Other land	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
G. Harvested wood products	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Waste	323.88	269.48	263.43	336.62	421.04	558.33	360.88	407.49	406.86	454.62
A. Solid waste disposal	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
B. Biological treatment of solid waste										
C. Incineration and open burning of waste	323.88	269.48	263.43	336.62	421.04	558.33	360.88	407.49	406.86	454.62
D. Waste water treatment and discharge										
E. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Memo items:										
International bunkers	1,670.53	1,907.41	1,698.87	1,607.78	1,622.52	1,731.32	1,616.72	1,935.08	2,162.06	2,070.27
Aviation	830.56	741.89	789.18	777.35	762.58	824.65	809.87	908.31	1,221.26	1,278.11
Navigation	839.97	1,165.53	909.69	830.43	859.95	906.68	806.85	1,026.77	940.80	792.16
Multilateral operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CO2 emissions from biomass	17,381.11	16,666.63	16,891.34	18,047.22	18,372.76	18,550.52	19,193.40	19,807.99	20,688.33	21,043.27
CO2 captured	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE
Long-term storage of C in waste disposal sites	20,633.72	21,434.33	22,157.67	22,797.24	23,414.52	23,990.40	24,622.21	25,208.32	25,824.50	26,443.57
Indirect N2O										
Indirect CO2 (3)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total CO2 equivalent emissions without land use, land-use change and forestry	415,810.85	404,301.66	392,799.10	390,303.26	380,277.60	394,065.37	398,160.76	398,268.49	412,971.94	412,929.67
Total CO2 equivalent emissions with land use, land-use change and forestry	376,642.06	358,199.57	361,856.67	367,619.22	348,163.41	360,432.08	353,003.16	353,914.31	352,698.54	381,590.96
Total CO2 equivalent emissions, including indirect CO2, without land use, land-use change and forestry	339,469.55	329,870.26	319,482.57	315,509.06	307,790.64	320,487.58	324,514.92	323,586.36	337,065.77	336,707.74
Total CO2 equivalent emissions, including indirect CO2, with land use, land-use change and forestry	300,260.35	283,720.28	288,498.87	292,787.16	275,634.32	286,793.86	279,317.04	279,010.67	276,744.28	305,305.23

Note: All footnotes for this table are given on sheet 3.

Table 1(a) POL_BR2_v1.0

Emission trends (CO_2)

(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*2008*	2009	2010	2011	2012	2013	Change from base to latest reported year
							%
1. Energy	307,728.79	297,644.41	317,102.13	312,012.80	306,155.61	302,125.95	-31.68
A. Fuel combustion (sectoral approach)	304,859.11	295,314.52	314,550.79	308,985.62	302,604.61	298,208.54	-32.08
1. Energy industries	172,875.58	165,458.66	171,929.81	173,754.02	168,618.09	169,172.05	-34.16
2. Manufacturing industries and construction	32,311.02	28,407.62	30,194.75	31,068.68	30,047.01	29,820.43	-45.85
3. Transport	44,221.68	44,897.85	47,303.88	47,906.92	46,067.50	43,351.76	81.47
4. Other sectors	55,450.82	56,550.39	65,122.36	56,256.00	57,872.02	55,864.29	-45.83
5. Other	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	
B. Fugitive emissions from fuels	2,869.68	2,329.90	2,551.33	3,027.18	3,550.99	3,917.41	22.56
1. Solid fuels	1,523.23	999.24	1,320.27	1,253.87	1,640.37	1,899.61	-39.03
2. Oil and natural gas and other emissions from energy production	1,346.44	1,330.66	1,231.06	1,773.31	1,910.62	2,017.80	2,400.85
C. CO2 transport and storage	NO	NO	NO	NO	NO	NO	
2. Industrial processes	20,665.65	17,329.02	18,384.42	20,706.87	19,521.39	19,337.72	-33.57
A. Mineral industry	10,243.62	8,970.71	9,706.95	11,241.97	9,860.96	9,255.14	-19.72
B. Chemical industry	5,625.01	4,760.54	4,866.14	5,377.03	5,485.40	5,517.45	-12.79
C. Metal industry	2,667.71	1,654.83	1,688.99	2,133.01	2,274.70	2,434.45	-69.68
D. Non-energy products from fuels and solvent use	2,129.31	1,942.94	2,122.35	1,954.85	1,900.34	2,130.68	-33.97
E. Electronic industry							
F. Product uses as ODS substitutes							
G. Other product manufacture and use							
H. Other	NO	NO	NO	NO	NO	NO	
3. Agriculture	853.13	776.13	786.61	799.30	761.15	883.46	-69.06
A. Enteric fermentation							
B. Manure management							
C. Rice cultivation							
D. Agricultural soils							
E. Prescribed burning of savannas							
F. Field burning of agricultural residues							
G. Liming	410.31	351.38	388.15	376.22	336.67	438.83	-81.22
H. Urea application	442.82	424.75	398.46	423.08	424.48	444.63	-14.11
I. Other carbon-containing fertilizers	NO	NO	NO	NO	NO	NO	
J. Other	NO	NO	NO	NO	NO	NO	
4. Land Use, Land-Use Change and Forestry	-31,166.58	-29,388.01	-28,221.00	-35,074.64	-34,546.19	-37,627.32	159.55
A. Forest land	-36,613.02	-34,623.25	-33,343.32	-40,019.76	-39,555.41	-41,421.75	95.50
B. Cropland	1,100.38	853.63	675.82	631.18	615.88	-435.68	-150.66
C. Grassland	-333.46	-309.65	-295.52	-324.13	-341.21	-348.42	-151.78
D. Wetlands	4,356.68	4,337.75	4,351.83	4,324.39	4,307.83	4,316.31	-3.95
E. Settlements	322.84	353.51	390.19	313.68	426.72	262.23	-60.48
F. Other land	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	
G. Harvested wood products	NA	NA	NA	NA	NA	NA	
H. Other	NA	NA	NA	NA	NA	NA	
5. Waste	456.95	441.56	421.85	428.07	531.41	553.08	23.44
A. Solid waste disposal	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	
B. Biological treatment of solid waste							
C. Incineration and open burning of waste	456.95	441.56	421.85	428.07	531.41	553.08	23.44
D. Waste water treatment and discharge							
E. Other	NO	NO	NO	NO	NO	NO	
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	
Memo items:							
International bunkers	2,426.47	2,193.31	2,156.78	1,970.63	1,993.37	1,959.87	-29.61
Aviation	1,547.48	1,398.22	1,465.17	1,426.64	1,533.27	1,514.25	46.79
Navigation	878.99	795.09	691.61	543.99	460.10	445.62	-74.58
Multilateral operations	NA	NA	NA	NA	NA	NA	
CO2 emissions from biomass	23,785.51	26,527.92	30,409.85	32,993.63	35,726.23	34,827.58	407.00
CO2 captured	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	
Long-term storage of C in waste disposal sites	26,979.63	27,475.56	27,964.44	28,417.80	28,880.63	29,279.69	118.63
Indirect N2O							
Indirect CO2 (3)	NA	NA	NA	NA	NA	NA	
Total CO2 equivalent emissions without land use, land-use change and forestry	404,816.70	387,457.61	408,109.60	405,151.11	398,811.96	394,891.52	-32.02
Total CO2 equivalent emissions with land use, land-use change and forestry	374,709.21	358,105.34	379,924.10	370,112.09	364,306.67	357,304.53	-36.92
Total CO2 equivalent emissions, including indirect CO2, without land use, land-use change and forestry	329,704.52	316,191.13	336,695.02	333,947.03	326,969.55	322,900.21	-31.97
Total CO2 equivalent emissions, including indirect CO2, with land use, land-use change and forestry	298,537.94	286,803.12	308,474.02	298,872.40	292,423.36	285,272.89	-38.01

Abbreviations: CRF = common reporting format, LULUCF = land use, land-use change and forestry.

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

[b] Fill in net emissions/removals as reported in CRF table Summary 1.A of the latest reported inventory year. For the purposes of reporting, the signs for removals are always negative (-) and for emissions positive (+).

Custom Footnotes

Table 1(b) POL_BR2_v1.0

Emission trends (CH_4)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*Base year* [a]	1990	1991	1992	1993	1994	1995	1996	1997
	kt								
1. Energy	1,552.67	1,187.83	1,163.03	1,104.60	1,138.70	1,136.43	1,143.98	1,155.30	1,111.52
A. Fuel combustion (sectoral approach)	219.23	124.58	152.87	157.70	198.03	179.04	178.14	183.96	164.78
1. Energy industries	3.61	3.29	3.19	3.15	2.87	2.89	2.30	2.38	2.32
2. Manufacturing industries and construction	4.04	4.14	3.95	3.70	4.74	4.89	6.58	6.93	6.42
3. Transport	4.87	4.70	5.31	5.50	5.62	6.20	6.13	6.24	6.20
4. Other sectors	206.70	112.45	140.43	145.35	184.80	165.06	163.12	168.41	149.84
5. Other	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE
B. Fugitive emissions from fuels	1,333.44	1,063.25	1,010.16	946.90	940.67	957.39	965.83	971.34	946.74
1. Solid fuels	1,287.40	1,023.57	970.34	906.53	893.80	908.98	915.10	918.50	894.93
2. Oil and natural gas and other emissions from energy production	46.04	39.68	39.83	40.38	46.87	48.41	50.73	52.84	51.81
C. CO2 transport and storage									
2. Industrial processes	2.81	2.51	1.93	1.86	1.78	1.73	1.99	2.05	2.16
A. Mineral industry									
B. Chemical industry	1.74	1.60	1.27	1.22	1.20	1.06	1.31	1.39	1.45
C. Metal industry	1.07	0.91	0.66	0.64	0.58	0.67	0.68	0.65	0.71
D. Non-energy products from fuels and solvent use	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Electronic industry									
F. Product uses as ODS substitutes									
G. Other product manufacture and use									
H. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
3. Agriculture	993.36	974.83	887.60	817.51	749.75	741.35	705.28	677.98	691.55
A. Enteric fermentation	878.10	862.16	771.85	705.56	650.75	641.19	604.95	586.46	598.74
B. Manure management	114.45	111.87	114.97	111.27	98.18	99.49	99.53	90.75	92.06
C. Rice cultivation	NO	NO	NO	NO	NO	NO	NO	NO	NO
D. Agricultural soils	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Prescribed burning of savannas	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Field burning of agricultural residues	0.81	0.80	0.78	0.68	0.81	0.68	0.80	0.77	0.75
G. Liming									
H. Urea application									
I. Other carbon-containing fertilizers									
J. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
4. Land use, land-use change and forestry	1.77	1.76	1.80	1.78	1.69	1.64	1.84	1.46	1.52
A. Forest land	1.35	1.35	1.39	1.37	1.27	1.22	1.24	1.25	1.23
B. Cropland	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C. Grassland	0.41	0.41	0.41	0.41	0.41	0.41	0.60	0.21	0.29
D. Wetlands	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
E. Settlements	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Other land	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Harvested wood products									
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Waste	541.17	532.25	524.46	517.63	508.91	494.56	484.87	476.71	473.75
A. Solid waste disposal	409.92	414.63	412.42	410.85	405.85	402.29	398.19	397.21	398.96
B. Biological treatment of solid waste	0.13	0.20	0.24	0.30	0.37	0.46	0.80	0.87	0.88
C. Incineration and open burning of waste	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
D. Waste water treatment and discharge	131.12	117.42	111.80	106.48	102.69	91.81	85.88	78.63	73.91
E. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total CH4 emissions without CH4 from LULUCF	3,090.00	2,697.42	2,577.02	2,441.60	2,399.13	2,374.08	2,336.11	2,312.04	2,278.98
Total CH4 emissions with CH4 from LULUCF	3,091.77	2,699.19	2,578.82	2,443.38	2,400.82	2,375.71	2,337.94	2,313.49	2,280.49
Memo items:									
International bunkers	0.17	0.12	0.05	0.07	0.04	0.04	0.05	0.05	0.07
Aviation	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01
Navigation	0.16	0.12	0.05	0.07	0.04	0.04	0.04	0.05	0.06
Multilateral operations	NA	NA	NA	NA	NA	NA	NA	NA	NA
CO2 emissions from biomass									
CO2 captured									
Long-term storage of C in waste disposal sites									
Indirect N2O									
Indirect CO2 (3)									

Note: All footnotes for this table are given on sheet 3.

Table 1(b) POL_BR2_v1.0

Emission trends (CH_4)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*1998*	1999	2000	2001	2002	2003	2004	2005	2006	2007
1. Energy	972.03	949.09	886.58	951.08	883.52	891.82	892.66	879.51	868.78	809.97
A. Fuel combustion (sectoral approach)	139.30	140.32	114.30	123.50	127.80	126.51	131.34	138.89	153.03	142.08
1. Energy industries	2.16	2.10	2.09	2.16	2.11	2.20	2.27	2.51	2.67	2.77
2. Manufacturing industries and construction	5.08	4.40	4.41	3.95	3.79	3.68	3.76	3.40	3.49	3.63
3. Transport	5.71	6.08	4.61	4.43	4.32	4.44	4.83	4.66	5.01	5.09
4. Other sectors	126.34	127.73	103.19	112.96	117.58	116.19	120.49	128.32	141.86	130.59
5. Other	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE
B. Fugitive emissions from fuels	832.73	808.77	772.28	827.58	755.72	765.31	761.32	740.62	715.75	667.89
1. Solid fuels	776.83	750.39	700.27	748.03	678.24	683.41	670.38	651.16	628.11	584.02
2. Oil and natural gas and other emissions from energy production	55.90	58.38	72.01	79.55	77.48	81.90	90.94	89.46	87.64	83.88
C. CO2 transport and storage										
2. Industrial processes	2.01	1.81	2.09	1.91	2.14	2.09	2.23	1.89	2.80	2.92
A. Mineral industry										
B. Chemical industry	1.46	1.29	1.46	1.35	1.56	1.46	1.54	1.39	2.30	2.37
C. Metal industry	0.56	0.52	0.62	0.56	0.57	0.63	0.68	0.50	0.50	0.55
D. Non-energy products from fuels and solvent use	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Electronic industry										
F. Product uses as ODS substitutes										
G. Other product manufacture and use										
H. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3. Agriculture	678.73	647.01	600.75	580.78	571.96	571.89	554.41	567.73	582.37	587.73
A. Enteric fermentation	583.45	553.11	512.92	493.60	477.62	476.61	462.75	471.12	482.39	488.27
B. Manure management	94.46	93.15	87.12	86.36	93.58	94.56	90.77	95.84	99.23	98.72
C. Rice cultivation	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
D. Agricultural soils	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Prescribed burning of savannas	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Field burning of agricultural residues	0.82	0.75	0.71	0.83	0.76	0.72	0.89	0.77	0.75	0.74
G. Liming										
H. Urea application										
I. Other carbon-containing fertilizers										
J. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4. Land use, land-use change and forestry	1.37	1.48	1.30	1.30	1.39	1.48	1.37	1.34	1.56	1.19
A. Forest land	1.23	1.19	1.19	1.18	1.18	1.16	1.17	1.15	1.15	1.13
B. Cropland	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C. Grassland	0.14	0.30	0.11	0.13	0.21	0.32	0.20	0.19	0.41	0.06
D. Wetlands	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
E. Settlements	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Other land	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
G. Harvested wood products										
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Waste	472.50	471.43	477.45	461.57	456.92	446.95	434.15	430.15	422.74	420.41
A. Solid waste disposal	402.69	406.84	406.68	405.77	400.83	389.33	383.97	383.39	379.42	377.38
B. Biological treatment of solid waste	1.22	1.29	1.29	1.58	1.19	0.98	1.57	2.15	1.91	2.01
C. Incineration and open burning of waste	NO, NA	NO, NA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D. Waste water treatment and discharge	68.60	63.30	69.48	54.22	54.90	56.65	48.61	44.61	41.41	41.02
E. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total CH4 emissions without CH4 from LULUCF	2,125.27	2,069.34	1,966.87	1,995.35	1,914.53	1,912.75	1,883.45	1,879.27	1,876.69	1,821.03
Total CH4 emissions with CH4 from LULUCF	2,126.65	2,070.82	1,968.18	1,996.65	1,915.92	1,914.23	1,884.82	1,880.61	1,878.25	1,822.22
Memo items:										
International bunkers	0.08	0.11	0.09	0.08	0.08	0.09	0.08	0.10	0.09	0.08
Aviation	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Navigation	0.08	0.11	0.08	0.08	0.08	0.08	0.07	0.09	0.09	0.07
Multilateral operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CO2 emissions from biomass										
CO2 captured										
Long-term storage of C in waste disposal sites										
Indirect N2O										
Indirect CO2 (3)										

Note: All footnotes for this table are given on sheet 3.

Table 1(b) POL_BR2_v1.0

Emission trends (CH_4)

(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*2008*	2009	2010	2011	2012	2013	Change from base to latest reported year
							%
1. Energy	789.13	736.27	758.09	728.43	762.10	755.01	-51.37
A. Fuel combustion (sectoral approach)	149.36	152.52	179.32	157.94	162.88	158.80	-27.57
1. Energy industries	3.10	3.53	3.95	4.31	5.05	4.49	24.23
2. Manufacturing industries and construction	3.48	3.24	3.52	3.81	3.77	4.09	1.18
3. Transport	5.09	5.06	5.14	4.86	4.51	4.12	-15.39
4. Other sectors	137.69	140.70	166.71	144.95	149.56	146.09	-29.32
5. Other	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	
B. Fugitive emissions from fuels	639.77	583.75	578.77	570.49	599.22	596.21	-55.29
1. Solid fuels	555.20	503.65	496.96	491.20	514.68	497.95	-61.32
2. Oil and natural gas and other emissions from energy production	84.57	80.09	81.81	79.29	84.54	98.26	113.44
C. CO2 transport and storage							
2. Industrial processes	2.58	2.41	2.50	2.75	2.41	2.55	-9.28
A. Mineral industry							
B. Chemical industry	2.08	2.10	2.03	2.22	1.86	1.99	14.72
C. Metal industry	0.50	0.32	0.46	0.53	0.55	0.55	-48.26
D. Non-energy products from fuels and solvent use	NA	NA	NA	NA	NA	NA	
E. Electronic industry							
F. Product uses as ODS substitutes							
G. Other product manufacture and use							
H. Other	NO	NO	NO	NO	NO	NO	
3. Agriculture	579.83	568.09	568.25	564.50	561.13	543.51	-45.29
A. Enteric fermentation	487.81	479.96	479.57	480.34	482.93	468.50	-46.65
B. Manure management	91.11	87.15	87.83	83.32	77.32	74.04	-35.31
C. Rice cultivation	NO	NO	NO	NO	NO	NO	
D. Agricultural soils	NA	NA	NA	NA	NA	NA	
E. Prescribed burning of savannas	NO	NO	NO	NO	NO	NO	
F. Field burning of agricultural residues	0.91	0.98	0.85	0.84	0.88	0.97	19.28
G. Liming							
H. Urea application							
I. Other carbon-containing fertilizers							
J. Other	NA	NA	NA	NA	NA	NA	
4. Land use, land-use change and forestry	1.39	1.19	1.27	1.24	1.27	1.48	-16.20
A. Forest land	1.14	1.15	1.21	1.19	1.21	1.39	2.74
B. Cropland	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
C. Grassland	0.24	0.05	0.06	0.06	0.07	0.09	-78.06
D. Wetlands	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	
E. Settlements	NO	NO	NO	NO	NO	NO	
F. Other land	NO	NO	NO	NO	NO	NO	
G. Harvested wood products							
H. Other	NA	NA	NA	NA	NA	NA	
5. Waste	410.48	413.92	411.77	395.26	383.42	382.82	-29.26
A. Solid waste disposal	371.13	369.39	362.07	352.44	346.49	341.89	-16.60
B. Biological treatment of solid waste	1.95	2.73	3.13	1.94	4.26	5.49	4,189.35
C. Incineration and open burning of waste	0.00	0.00	0.00	0.00	0.00	0.00	
D. Waste water treatment and discharge	37.40	41.79	46.57	40.87	32.67	35.44	-72.97
E. Other	NO	NO	NO	NO	NO	NO	
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	
Total CH4 emissions without CH4 from LULUCF	1,782.03	1,720.69	1,740.61	1,690.94	1,709.06	1,683.89	-45.51
Total CH4 emissions with CH4 from LULUCF	1,783.41	1,721.88	1,741.87	1,692.18	1,710.34	1,685.36	-45.49
Memo items:							
International bunkers	0.09	0.08	0.07	0.06	0.05	0.05	-69.60
Aviation	0.01	0.01	0.01	0.01	0.01	0.01	46.79
Navigation	0.08	0.07	0.06	0.05	0.04	0.04	-74.64
Multilateral operations	NA	NA	NA	NA	NA	NA	
CO2 emissions from biomass							
CO2 captured							
Long-term storage of C in waste disposal sites							
Indirect N2O							
Indirect CO2 (3)							

Abbreviations: CRF = common reporting format, LULUCF = land use, land-use change and fore

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

Custom Footnotes

Table 1(c) POL_BR2_v1.0

Emission trends (N_2O)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*Base year* [a]	1990	1991	1992	1993	1994	1995	1996	1997
	kt								
1. Energy	8.08	6.95	6.97	7.11	7.92	7.96	8.12	8.68	8.92
A. Fuel combustion (sectoral approach)	8.08	6.95	6.96	7.11	7.92	7.96	8.12	8.68	8.92
1. Energy industries	3.71	3.43	3.39	3.26	3.06	3.02	2.78	2.88	2.80
2. Manufacturing industries and construction	0.59	0.60	0.57	0.54	0.69	0.71	0.96	1.02	0.94
3. Transport	0.78	0.65	0.67	0.70	0.68	0.70	0.74	0.88	0.95
4. Other sectors	3.00	2.27	2.33	2.62	3.49	3.53	3.63	3.89	4.22
5. Other	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE
B. Fugitive emissions from fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. Solid fuels	NA	NA	NA	NA	NA	NA	NA	NA	NA
2. Oil and natural gas and other emissions from energy production	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. CO2 transport and storage									
2. Industrial processes	16.51	12.27	10.97	10.80	12.25	12.23	13.49	13.49	12.72
A. Mineral industry									
B. Chemical industry	16.11	11.87	10.57	10.40	11.85	11.83	13.09	13.09	12.32
C. Metal industry	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Non-energy products from fuels and solvent use	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Electronic industry									
F. Product uses as ODS substitutes									
G. Other product manufacture and use	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
H. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
3. Agriculture	69.63	68.48	54.84	49.74	50.81	50.40	52.24	52.20	52.44
A. Enteric fermentation									
B. Manure management	10.74	10.61	10.32	9.89	9.00	9.02	8.91	8.51	8.64
C. Rice cultivation									
D. Agricultural soils	58.85	57.83	44.49	39.82	41.77	41.34	43.30	43.65	43.76
E. Prescribed burning of savannas	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Field burning of agricultural residues	0.04	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03
G. Liming									
H. Urea application									
I. Other carbon containing fertlizers									
J. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
4. Land use, land-use change and forestry	0.04	3.00	0.02	0.17	0.04	0.04	0.03	0.06	0.03
A. Forest land	0.03	0.03	0.01	0.16	0.03	0.03	0.02	0.05	0.03
B. Cropland	NA, NO	2.96	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C. Grassland	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00
D. Wetlands	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
E. Settlements	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Other land	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
G. Harvested wood products									
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Waste	2.57	2.47	2.50	2.51	2.49	2.41	2.46	2.47	2.43
A. Solid waste disposal									
B. Biological treatment of solid waste	0.01	0.01	0.02	0.02	0.03	0.03	0.06	0.07	0.07
C. Incineration and open burning of waste	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02
D. Waste water treatment and discharge	2.53	2.43	2.46	2.46	2.44	2.35	2.38	2.38	2.35
E. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total direct N2O emissions without N2O from LULUCF	96.78	90.16	75.29	70.16	73.47	72.99	76.30	76.84	76.51
Total direct N2O emissions with N2O from LULUCF	96.82	93.15	75.31	70.34	73.51	73.04	76.33	76.89	76.54
Memo items:									
International bunkers	0.08	0.05	0.03	0.04	0.03	0.03	0.04	0.04	0.04
Aviation	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03
Navigation	0.05	0.03	0.01	0.02	0.01	0.01	0.01	0.01	0.02
Multilateral operations	NA	NA	NA	NA	NA	NA	NA	NA	NA
CO2 emissions from biomass									
CO2 captured									
Long-term storage of C in waste disposal sites									
Indirect N2O	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indirect CO2 (3)									

Note: All footnotes for this table are given on sheet 3.

Table 1(c) POL_BR2_v1.0

Emission trends (N_2O)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*1998*	1999	2000	2001	2002	2003	2004	2005	2006	2007
1. Energy	8.28	8.24	8.23	8.03	7.88	8.09	8.27	8.44	7.97	7.90
A. Fuel combustion (sectoral approach)	8.27	8.24	8.23	8.02	7.87	8.08	8.27	8.44	7.97	7.90
1. Energy industries	2.69	2.61	2.55	2.58	2.48	2.60	2.57	2.60	2.68	2.65
2. Manufacturing industries and construction	0.75	0.65	0.65	0.58	0.55	0.53	0.54	0.49	0.50	0.52
3. Transport	1.03	1.12	0.98	0.96	0.91	0.99	1.13	1.22	1.37	1.56
4. Other sectors	3.80	3.86	4.04	3.90	3.93	3.96	4.03	4.13	3.42	3.16
5. Other	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE
B. Fugitive emissions from fuels	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1. Solid fuels	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2. Oil and natural gas and other emissions from energy production	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C. CO2 transport and storage										
2. Industrial processes	11.83	11.64	14.08	14.43	12.05	14.26	14.60	15.27	15.17	15.74
A. Mineral industry										
B. Chemical industry	11.43	11.24	13.68	14.03	11.65	13.86	14.20	14.87	14.77	15.34
C. Metal industry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Non-energy products from fuels and solvent use	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Electronic industry										
F. Product uses as ODS substitutes										
G. Other product manufacture and use	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
H. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
3. Agriculture	53.01	50.83	49.65	50.01	48.83	47.14	48.38	48.08	50.41	52.57
A. Enteric fermentation										
B. Manure management	8.73	8.47	7.93	7.93	7.93	7.76	7.35	7.55	7.95	7.95
C. Rice cultivation										
D. Agricultural soils	44.24	42.32	41.69	42.05	40.87	39.34	41.00	40.50	42.43	44.59
E. Prescribed burning of savannas	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Field burning of agricultural residues	0.04	0.03	0.03	0.04	0.03	0.03	0.04	0.03	0.03	0.03
G. Liming										
H. Urea application										
I. Other carbon containing fertlizers										
J. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4. Land use, land-use change and forestry	0.02	0.04	0.03	0.02	0.02	0.08	0.02	0.63	0.03	0.11
A. Forest land	0.02	0.03	0.03	0.02	0.02	0.07	0.02	0.02	0.02	0.02
B. Cropland	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	0.60	NA, NO	0.10
C. Grassland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
D. Wetlands	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA
E. Settlements	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
F. Other land	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
G. Harvested wood products										
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Waste	2.55	2.55	2.55	2.59	2.57	2.59	2.57	2.60	2.58	2.61
A. Solid waste disposal										
B. Biological treatment of solid waste	0.09	0.10	0.10	0.12	0.09	0.07	0.12	0.16	0.14	0.15
C. Incineration and open burning of waste	0.06	0.05	0.05	0.07	0.06	0.08	0.06	0.06	0.07	0.06
D. Waste water treatment and discharge	2.40	2.41	2.41	2.40	2.43	2.43	2.39	2.38	2.37	2.40
E. Other	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Total direct N2O emissions without N2O from LULUCF	75.67	73.26	74.52	75.06	71.33	72.07	73.82	74.39	76.13	78.82
Total direct N2O emissions with N2O from LULUCF	75.69	73.30	74.55	75.08	71.35	72.15	73.84	75.02	76.16	78.93
Memo items:										
International bunkers	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06
Aviation	0.03	0.02	0.03	0.02	0.02	0.03	0.03	0.03	0.04	0.04
Navigation	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02
Multilateral operations	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CO2 emissions from biomass										
CO2 captured										
Long-term storage of C in waste disposal sites										
Indirect N2O	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indirect CO2 (3)										

Note: All footnotes for this table are given on sheet 3.

Table 1(c) POL_BR2_v1.0

Emission trends (N_2O)

(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*2008*	2009	2010	2011	2012	2013	Change from base to latest reported year
							%
1. Energy	7.98	7.95	8.42	8.50	8.48	8.29	2.57
A. Fuel combustion (sectoral approach)	7.97	7.95	8.41	8.49	8.48	8.29	2.56
1. Energy industries	2.60	2.57	2.68	2.74	2.75	2.70	-27.36
2. Manufacturing industries and construction	0.50	0.46	0.50	0.54	0.53	0.57	-3.03
3. Transport	1.68	1.75	1.89	1.96	1.91	1.80	131.22
4. Other sectors	3.20	3.17	3.35	3.26	3.29	3.22	7.36
5. Other	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	NO, IE	
B. Fugitive emissions from fuels	0.00	0.00	0.00	0.00	0.00	0.00	125.12
1. Solid fuels	NA	NA	NA	NA	NA	NA	
2. Oil and natural gas and other emissions from energy production	0.00	0.00	0.00	0.00	0.00	0.00	125.12
C. CO2 transport and storage							
2. Industrial processes	13.33	3.90	4.14	3.83	3.79	4.12	-75.02
A. Mineral industry							
B. Chemical industry	12.93	3.50	3.74	3.43	3.39	3.72	-76.88
C. Metal industry	NA	NA	NA	NA	NA	NA	
D. Non-energy products from fuels and solvent use	NA	NA	NA	NA	NA	NA	
E. Electronic industry							
F. Product uses as ODS substitutes							
G. Other product manufacture and use	0.40	0.40	0.40	0.40	0.40	0.40	0.00
H. Other	NO	NO	NO	NO	NO	NO	
3. Agriculture	53.14	51.99	50.23	51.66	51.33	52.45	-24.68
A. Enteric fermentation							
B. Manure management	7.61	7.28	7.40	7.31	6.94	6.69	-37.69
C. Rice cultivation							
D. Agricultural soils	45.50	44.67	42.80	44.32	44.36	45.72	-22.32
E. Prescribed burning of savannas	NO	NO	NO	NO	NO	NO	
F. Field burning of agricultural residues	0.04	0.04	0.03	0.03	0.04	0.04	1.26
G. Liming							
H. Urea application							
I. Other carbon containing fertlizers							
J. Other	NA	NA	NA	NA	NA	NA	
4. Land use, land-use change and forestry	3.44	0.02	0.01	0.02	0.03	0.01	-70.08
A. Forest land	0.01	0.02	0.01	0.01	0.03	0.01	-68.44
B. Cropland	3.42	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
C. Grassland	0.00	0.00	0.00	0.00	0.00	0.00	-78.06
D. Wetlands	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	NO, NA	
E. Settlements	NO	NO	NO	NO	NO	NO	
F. Other land	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
G. Harvested wood products							
H. Other	NA	NA	NA	NA	NA	NA	
5. Waste	2.57	2.70	2.79	2.73	2.93	3.04	18.36
A. Solid waste disposal							
B. Biological treatment of solid waste	0.15	0.21	0.23	0.15	0.32	0.41	4,189.35
C. Incineration and open burning of waste	0.07	0.08	0.09	0.11	0.13	0.15	360.65
D. Waste water treatment and discharge	2.34	2.41	2.46	2.48	2.48	2.48	-1.89
E. Other	NO	NO	NO	NO	NO	NO	
6. Other (as specified in the summary table in CRF)	NO	NO	NO	NO	NO	NO	
Total direct N2O emissions without N2O from LULUCF	77.01	66.53	65.58	66.72	66.53	67.90	-29.85
Total direct N2O emissions with N2O from LULUCF	80.45	66.55	65.59	66.74	66.56	67.91	-29.86
Memo items:							
International bunkers	0.07	0.07	0.06	0.06	0.06	0.06	-24.43
Aviation	0.05	0.04	0.05	0.05	0.05	0.05	46.79
Navigation	0.02	0.02	0.02	0.01	0.01	0.01	-74.64
Multilateral operations	NA	NA	NA	NA	NA	NA	
CO2 emissions from biomass							
CO2 captured							
Long-term storage of C in waste disposal sites							
Indirect N2O	NA	NA	NA	NA	NA	NA	
Indirect CO2 (3)							

Abbreviations: CRF = common reporting format, LULUCF = land use, land-use change and forestry.

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

Custom Footnotes

Table 1(d) POL_BR2_v1.0

Emission trends (HFCs, PFCs and SF_6)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*Base year* [a]	1990	1991	1992	1993	1994	1995	1996	1997
	kt								
Emissions of HFCs and PFCs - (kt CO2 equivalent)	147.26	141.87	141.31	134.63	144.86	152.78	269.31	389.48	547.29
Emissions of HFCs - (kt CO2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	97.34	228.41	373.93
HFC-23	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-32	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-41	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-43-10mee	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-125	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	0.02	0.02	0.02
HFC-134	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-134a	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	0.02	0.11	0.19
HFC-143	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-143a	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	0.01
HFC-152	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-152a	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-161	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-227ea	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	0.00	0.00
HFC-236cb	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-236ea	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-236fa	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-245ca	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-245fa	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-365mfc	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Unspecified mix of HFCs(4) - (kt CO_2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Emissions of PFCs - (kt CO2 equivalent)	147.26	141.87	141.31	134.63	144.86	152.78	171.97	161.07	173.36
CF_4	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
C_2F_6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C_3F_8	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C_4F_{10}	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	0.00	0.00
c-C_4F_8	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C_5F_{12}	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C_6F_{14}	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C10F18	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
c-C3F6	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Unspecified mix of PFCs(4) - (kt CO_2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Unspecified mix of HFCs and PFCs - (kt CO2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Emissions of SF6 - (kt CO2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	13.27	29.12	23.80	22.91
SF_6	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	0.00	0.00	0.00	0.00
Emissions of NF3 - (kt CO2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
NF3	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO

Note: All footnotes for this table are given on sheet 3.

Table 1(d) POL_BR2_v1.0

Emission trends (HFCs, PFCs and SF_6)

(Sheet 2 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*1998*	1999	2000	2001	2002	2003	2004	2005	2006	2007
Emissions of HFCs and PFCs - (kt CO2 equivalent)	637.09	842.09	1,915.87	2,520.37	3,344.34	4,260.87	4,540.18	5,505.12	6,268.27	7,177.83
Emissions of HFCs - (kt CO2 equivalent)	462.23	673.38	1,739.19	2,323.03	3,137.01	4,059.79	4,335.11	5,317.72	6,074.69	6,993.20
HFC-23	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-32	NA, NO	NA, NO	0.00	0.00	0.01	0.01	0.04	0.06	0.05	0.07
HFC-41	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-43-10mee	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	0.00
HFC-125	0.03	0.04	0.14	0.18	0.25	0.35	0.40	0.48	0.53	0.64
HFC-134	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-134a	0.22	0.28	0.42	0.60	0.76	0.83	0.77	1.05	1.24	1.29
HFC-143	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-143a	0.01	0.02	0.14	0.18	0.26	0.37	0.40	0.47	0.54	0.63
HFC-152	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-152a	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	0.01	0.00	0.00	0.03
HFC-161	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-227ea	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
HFC-236cb	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-236ea	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-236fa	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	0.00	0.00	0.00
HFC-245ca	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-245fa	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
HFC-365mfc	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	0.00	0.00	0.00
Unspecified mix of HFCs(4) - (kt CO_2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Emissions of PFCs - (kt CO2 equivalent)	174.86	168.71	176.68	197.34	207.33	201.08	205.07	187.41	193.58	184.63
CF_4	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
C_2F_6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C_3F_8	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C_4F_{10}	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
c-C_4F_8	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C_5F_{12}	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C_6F_{14}	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
C10F18	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
c-C3F6	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Unspecified mix of PFCs(4) - (kt CO_2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Unspecified mix of HFCs and PFCs - (kt CO2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
Emissions of SF6 - (kt CO2 equivalent)	23.94	23.50	23.07	22.86	23.29	20.72	22.36	26.80	33.20	31.16
SF_6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Emissions of NF3 - (kt CO2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO
NF3	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO

Note: All footnotes for this table are given on sheet 3.

Table 1(d) POL_BR2_v1.0

Emission trends (HFCs, PFCs and SF_6)

(Sheet 3 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*2008*	2009	2010	2011	2012	2013	Change from base to latest reported year
							%
Emissions of HFCs and PFCs - (kt CO2 equivalent)	7,578.31	8,384.68	8,321.10	9,008.91	9,249.41	9,621.41	6,433.72
Emissions of HFCs - (kt CO2 equivalent)	7,415.19	8,366.72	8,304.03	8,992.69	9,234.01	9,606.78	
HFC-23	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
HFC-32	0.11	0.13	0.14	0.16	0.18	0.20	
HFC-41	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
HFC-43-10mee	0.00	0.00	0.00	0.00	0.00	0.00	
HFC-125	0.66	0.72	0.78	0.85	0.87	0.91	
HFC-134	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
HFC-134a	1.25	1.55	1.07	1.13	1.14	1.13	
HFC-143	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
HFC-143a	0.72	0.78	0.86	0.93	0.96	1.00	
HFC-152	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
HFC-152a	0.03	0.20	0.42	0.48	0.49	0.78	
HFC-161	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
HFC-227ea	0.01	0.01	0.01	0.01	0.02	0.02	
HFC-236cb	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
HFC-236ea	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
HFC-236fa	0.00	0.00	0.00	0.00	0.00	0.00	
HFC-245ca	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
HFC-245fa	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
HFC-365mfc	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
Unspecified mix of HFCs(4) - (kt CO_2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
Emissions of PFCs - (kt CO2 equivalent)	163.12	17.97	17.07	16.22	15.41	14.64	-90.06
CF_4	0.02	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
C_2F_6	0.00	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
C_3F_8	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
C_4F_{10}	0.00	0.00	0.00	0.00	0.00	0.00	
c-C_4F_8	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
C_5F_{12}	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
C_6F_{14}	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
C10F18	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
c-C3F6	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
Unspecified mix of PFCs(4) - (kt CO_2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
Unspecified mix of HFCs and PFCs - (kt CO2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
Emissions of SF6 - (kt CO2 equivalent)	32.87	37.60	35.37	39.02	40.13	39.15	
SF_6	0.00	0.00	0.00	0.00	0.00	0.00	
Emissions of NF3 - (kt CO2 equivalent)	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	
NF3	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	NA, NO	

Abbreviations: CRF = common reporting format, LULUCF = land use, land-use change and forestry.

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

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

[d]In accordance with the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part I: UNFCCC reporting guidelines on annual inventories", HFC and PFC emissions should be reported for each relevant chemical. However, if it is not possible to report values for each chemical (i.e. mixtures, confidential data, lack of disaggregation), this row could be used for reporting aggregate figures for HFCs and PFCs, respectively. Note that the unit used for this row is kt of CO2 equivalent and that appropriate notation keys should be entered in the cells for the individual chemicals.)

Custom Footnotes

Documentation Box:

Table 2(a) POL_BR2_v1.0

Description of quantified economy-wide emission reduction target: base year[a]

Party	*Poland*	
Base year /base period	1988 year	
Emission reduction target	% of base year/base period	% of 1990 [b]
	35.00	20.00
Period for reaching target	BY-2020 year	

[a] Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

[b] Optional.

Table 2(b) POL_BR2_v1.0

Description of quantified economy-wide emission reduction target: gases and sectors covered[a]

Gases covered		*Base year for each gas (year):*
CO_2		1988/1990
CH_4		1988/1990
N_2O		1988/1990
HFCs		1995
PFCs		1995
SF_6		1995
NF_3		2000
Other Gases (specify)		
Sectors covered[b]	Energy	Yes
	Transport[f]	Yes
	Industrial processes[g]	Yes
	Agriculture	Yes
	LULUCF	No
	Waste	Yes
	Other Sectors (specify)	

Abbreviations: LULUCF = land use, land-use change and forestry.

[a] Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

[b] More than one selection will be allowed. If Parties use sectors other than those indicated above, the explanation of how these sectors relate to the sectors defined by the IPCC should be provided.

[f] Transport is reported as a subsector of the energy sector.

[g] Industrial processes refer to the industrial processes and solvent and other product use sectors.

Table 2(c) POL_BR2_v1.0

Description of quantified economy-wide emission reduction target: global warming potential values (GWP)[a]

Gases	*GWP values* [b]
CO_2	4th AR
CH_4	4th AR
N_2O	4th AR
HFCs	4th AR
PFCs	4th AR
SF_6	4th AR
NF_3	4th AR
Other Gases (specify)	

Abbreviations: GWP = global warming potential

[a] Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

[b] Please specify the reference for the GWP: Second Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) or the Fourth Assessment Report of the IPCC.

Table 2(d) POL_BR2_v1.0

Description of quantified economy-wide emission reduction target: approach to counting emissions and removals from the LULUCF sector[a]

Role of LULUCF	LULUCF in base year level and target	Excluded
	Contribution of LULUCF is calculated using	Other (NA)

Abbreviation : LULUCF = land use, land-use change and forestry.

[a] Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

Table 2(e)I POL_BR2_v1.0

Description of quantified economy-wide emission reduction target: market-based mechanisms under the Convention[a]

Market-based mechanisms under the Convention	*Possible scale of contributions (estimated kt CO_2 eq)*
CERs	NO
ERUs	NO
AAUs[i]	NO
Carry-over units[j]	NO
Other mechanism units under the Convention (specify)[d]	

Abbreviations : AAU = assigned amount unit, CER = certified emission reduction, ERU = emission reduction unit.

[a] Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

[d] As indicated in paragraph 5(e) of the guidelines contained in annex I of decision 2/CP.17 .

[i] AAUs issued to or purchased by a Party.

[j] Units carried over from the first to the second commitment periods of the Kyoto Protocol, as described in decision 13/CMP.1 and consistent with decision 1/CMP.8.

Table 2(e)II POL_BR2_v1.0

Description of quantified economy-wide emission reduction target: other market-based mechanisms[a]

Other market-based mechanisms	*Possible scale of contributions*
(Specify)	*(estimated kt CO_2 eq)*
NO	NO

[a] Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

Description of quantified economy-wide emission reduction target: any other information[a,b]

In the period from 2013 to 2020, as part of the joint commitments of the Member States of the European Union, Poland undertook to reduce its emissions by 21% in EU ETS and to increase its emissions by 14% in non-ETS. Specific values cannot be given in Table 2(e), since the first trading period is not closed yet and the second period has not started yet in the Registry, as it is not known how many and which units countries will transfer from the first period. Some of AAUs from the mechanism of the Kyoto Protocol have been used for further emission reductions in the period from 2013 to 2020.

[a] Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

[b] This information could include information on the domestic legal status of the target or the total assigned amount of emission units for the period for reaching a target. Some of this information is presented in the narrative part of the biennial report.

Custom Footnotes

Table 3 POL_BR2_v1.0

Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

Name of mitigation action [a]		*Sector(s) affected* [b]	*GHG(s) affected*	*Objective and/or activity affected*	*Type of instrument* [c]	*Status of implementation* [d]	*Brief description* [e]	*Start year of implementation*	*Implementing entity or entities*	*Estimate of mitigation impact (not cumulative, in kt CO_2 eq)*				
										2010	*2015*	2020	2025	2030
Greenhouse gas emission allowance trading scheme (EU ETS)*		Cross-cutting	CO_2, N_2O, PFCs	Emission reduction in the EU by 21% compared with 2005.	Other (Legal)	Implemented	Emission reductions in cost-effective and economically viable	2005	Minister responsible for the environment		11744	20344	29281	43793
Effort Sharing Decision*		Cross-cutting	CO_2, N_2O, CH_4, HFCs, PFCs, SF_6	Not exceeding specific emission limits in sectors not included in EU ETS (transport – excluding international aviation and maritime shipping, agriculture, construction and the municipal and domestic sector)	Other (Legal)	Implemented	Emission reductions in sectors not included in EU ETS.	2013	Minister responsible for the environment		7337	12111		
The National Green Investment Scheme (GIS)		Cross-cutting	CO_2	Creation and strengthening of an environment-friendly effect as a result of the sales of Assigned Amount Units (AAUs)	Other (Financial)	Implemented	Implementation of projects to avoid or reduce greenhouse gas emissions.	2009	Minister responsible for the environment, National Fund for Environmental Protection and Water Management		134	1273.566		
Enhanced use of renewable energy sources, including biofuels*		Other (Energy production and consumption)	CO_2, CH_4	A 15% share of RES in gross final energy and a 10% share of renewable energy in transport in 2020	Other (Other (Organisational))	Implemented	Enhanced supply of energy from renewable energy sources	2010-2020	Minister responsible for the economy		4,757 avoided CO_2 emissions	35,396 avoided CO2 emissions		
Polish nuclear energy programme*		Other (Energy production and consumption)	CO_2	A change in the electricity production structure, consisting in a gradual shift from sources with high CO2 emissions to zero- and low-emission sources	Other (Legal)|Other (Organisationa)|Other (Financial)	Implemented	Construction of two nuclear power plants of about 3,000 MW	2014-2030	Minister responsible for the economy				Start of the operation of the first unit of the nuclear power plant in 2024	Completion of the construction of the first nuclear power plant
Polish nuclear energy programme National Action Plan for Energy Efficiency for Poland 2014*		Other (Energy production and consumption)	CO_2	Reduction in final energy consumption by 8.27 Mtoe in 2020 due to improved energy efficiency	Other (Legal)|Other (Financial)|Other (Organisational)|Education	Implemented	Energy savings achieved by end users as a result of many measures already implemented and planned.	2012	Minister responsible for the economy, Minister responsible for. Infrastructure and development, Minister responsible for the environment, National Fund for Environmental Protection and Water Management, BGK, EBRD, Centre for EU Transport Projects	16026 avoided CO_2 emissions	24176 avoided CO_2 emissions	28200 avoided CO2 emissions		

Table 3 POL_BR2_v1.0

Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

Name of mitigation action [a]		*Sector(s) affected* [b]	*GHG(s) affected*	*Objective and/or activity affected*	*Type of instrument* [c]	*Status of implementation* [d]	*Brief description* [e]	*Start year of implementation*	*Implementing entity or entities*	*Estimate of mitigation impact (not cumulative, in kt CO_2 eq)*				
										2010	*2015*	2020	2025	2030
Support for the use of coalbed methane to produce electricity and heat*		Other (Energy production and consumption)	CH_4	Enhanced coalbed methane production	Other (Other (financial and research-related))	Implemented	Industrial use of methane from methane removal from coal mines		Minister responsible for the economy	405				
Reductions in methane emissions from fuel production and distribution processes		Other (Energy production and consumption)	CH_4	Savings in trade in liquid fuels (by 0.37% on average)		Implemented	Introduction of air-tight systems at fuel stations	2005	Minister responsible for the economy					
Fluorinated greenhouse gases		Industry/industrial processes	HFCs, PFCs, SF_6	Emission reductions in the refrigeration, fire protection and electricity sectors	Other (Legal)	Implemented	Introduction of a mechanism to control consumption of gases	2015						
The package for road transport		Transport	CO_2, N_2O	Slowdown of the growth rate of GHG emissions from road transport.	Other (Legal)|Other (Financial)|Other (Technical)|Education	Implemented	The package of instruments and measures includes the modernisation and construction of road infrastructure to make road traffic more fluid, energy efficiency improvements and the reduction of emission factors of road vehicles, the promotion of collective transport, optimum traffic management, the shaping of environmentally aware drivers' behaviour, the dissemination of alternative fuels and support for the development of non-motorised transport.		Minister responsible for transport, Minister responsible for the environment / Minister responsible for regional development/ Minister responsible for the economy/ National Road Traffic Safety Board/ National Fund for Environmental Protection and Water Management		2,241.39	3,246.50	4,982.59	
The package for rail transport		Transport	CO_2, N_2O	GHG emission reductions as a result of the implementation of transport using the higher fuel and emission efficiency of means of rail transport, in particular railway transport.	Other (Legal)|Other (Financial)|Other (Technical)|Education	Implemented	The improved competitiveness of this mode of transport will contribute to the shift of part of transport volumes from road and air transport. The package of instruments and measures includes: the modernisation of rail infrastructure and rolling stock for passenger and goods transport, the strengthening of the intermodal integration, the promotion of collective rail transport and the modernisation of the traffic management systems, as well as the use of research and development support.		Minister responsible for transport/ Minister responsible for regional development	369	370	370	370	
The package for inland navigation		Transport	CO_2, N_2O	GHG emission reductions as a result of the implementation of transport using the higher fuel and emission efficiency of inland navigation.	Other (Legal)|Other (Financial)|Other (Technical)	Implemented	The improved competitiveness of this mode of transport will contribute to the shift of part of transport volumes from road and air transport. The package of instruments and measures includes: the modernisation of waterways and inland navigation vessels, as well as the requirements for the emissions of pollutants.		Minister responsible for the maritime economy/ Minister responsible for the environment	12	9	9	9	
The package for domestic air transport		Transport	CO_2, N_2O	Slowdown of the growth rate of greenhouse gas emissions from domestic air transport.	Other (Other (Technical))	Implemented	The package of instruments and measures includes: improvements in operating efficiency, certificates for aircraft and the optimisation of the flights carried out.		Minister responsible for transport	88	89	89	89	

Table 3 POL_BR2_v1.0

Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

Name of mitigation action [a]		*Sector(s) affected* [b]	*GHG(s) affected*	*Objective and/or activity affected*	*Type of instrument* [c]	*Status of implementation* [d]	*Brief description* [e]	*Start year of implementation*	*Implementing entity or entities*	*Estimate of mitigation impact (not cumulative, in kt CO_2 eq)*				
										2010	*2015*	2020	2025	2030
The package for maritime shipping		Transport	CO_2, N_2O	The purpose of the measures is to reduce GHG emissions as a result of the implementation of transport using the higher fuel and emission efficiency of maritime shipping.	Other (Legal)|Other (Financial)|Other (Technical)	Implemented	The improved competitiveness of this mode of transport will contribute to the shift of part of transport volumes from road and air transport. The package of instruments and measures includes: the requirements for fuels, the design rate of energy efficiency, the development and modernisation of port infrastructure, including intermodal infrastructure, and ensuring more efficient access to ports from the land and sea.		Minister responsible for the maritime economy	546	680	680	680	
The package for international air transport		Transport	CO_2, N_2O	Slowdown of the growth rate of GHG emissions from international air transport.	Other (Legal)|Other (Financial)|Other (Technical)	Implemented	The package of instruments and measures includes: improvements in operating efficiency, certificates for aircraft, the optimisation of the flights carried out, the modernisation of the fleet and the inclusion of this part of air transport into EU ETS.		Minister responsible for transport/ Minister responsible for the environment - KOBiZE	1357	1425	1425	1425	
The rationalisation of the use of fertilisers, including nitrogen fertilisers		Agriculture	N_2O	The optimisation of fertilisation and the limitation of adverse impacts on the environment	Other (Other (Organisational))	Implemented	A system of measures to support the effective use of fertilisers.		Institutes/ chemical and agricultural stations/ farmers	NA	NA	NA	NA	NA
The afforestation of agricultural and non-agricultural land		Agriculture	CO_2	Enhanced CO2 removals by forest areas	Other (Legal)| Other (Organisational)| Other (Financial)	Implemented	The afforestation of agricultural and non-agricultural land within the framework of the Rural Development Programme (RDP).	2007	Agency for the Restructuring and Modernisation of Agriculture, farmers	NA	262	262	262	NA
Restoring forestry production potential damaged by disasters and introducing appropriate prevention instruments		Agriculture	CO_2	Enhanced CO2 removals by forest areas	Other (Financial)	Implemented	The recovery and care of tree-stands damaged by disasters and the prevention of disasters		Agency for the Restructuring and Modernisation of Agriculture, farmers		NA	NA	NA	NA
The rational management of farmland		Agriculture	CO_2	The enhanced effectiveness of the fertilisers applied and the limitation of the mineralisation of organic matter in soil.	Other (Legal)| Other (Organisational)| Other (Financial)| Other (Research-related)| Education	Implemented	Compliance with the practices of good agricultural culture to halt the mineralisation of organic soils.	2005	institutes/ farmers/ extension advisers/ industry of agricultural machinery					
Support for adaptation and mitigation measures at farm holdings		Agriculture		The harmonisation of the conditions of agricultural production with the requirements of the protection of the natural environment.	Other (Financial)	Implemented	Support for investments to reduce greenhouse gas emissions.	2007	Agency for the Restructuring and Modernisation of Agriculture, farmers					
Improvements in the systems of keeping monogastric livestock, reductions in the methane emissions from animal excreta		Agriculture	CH_4, N_2O	Changes in livestock feeding and waste management	Other (Research-related)	Implemented	Research and development work to develop new technological systems of buildings and new livestock keeping methods.		Institutes/ farmers		108.140			

Table 3 POL_BR2_v1.0

Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

Name of mitigation action [a]		*Sector(s) affected* [b]	*GHG(s) affected*	*Objective and/or activity affected*	*Type of instrument* [c]	*Status of implementation* [d]	*Brief description* [e]	*Start year of implementation*	*Implementing entity or entities*	*Estimate of mitigation impact (not cumulative, in kt CO_2 eq)*				
										2010	*2015*	2020	2025	2030
The elimination of gaseous pollutants emitted from poultry buildings by using phytomediation and solar ventilation		Agriculture	CH_4, N_2O	The elimination of the emissions from livestock buildings	Other (Research-related)	Implemented	Research and development work on the conversion of the energy of methane and nitrous oxide contained in the air vented from livestock buildings.		Institutes/ production enterprises					
Enhanced recycling of municipal waste		Waste management/waste	CH_4, CO_2, N_2O	The achievement of the 50% levels of recycling and preparing for reuse of paper, metals, plastics and glass by 2020	Other (Other (Organisational))	Implemented	The enhanced recycling of selected fractions of municipal waste.		Self-government administrations	[2)] avoided emissions in Gg CO_2 eq.: 663,5	CO_2 eq.:3000-3500	avoided emissions in Gg CO2 eq.: 4000-4500		

Table 3 POL_BR2_v1.0

Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

Name of mitigation action [a]		*Sector(s) affected* [b]	*GHG(s) affected*	*Objective and/or activity affected*	*Type of instrument* [c]	*Status of implementation* [d]	*Brief description* [e]	*Start year of implementation*	*Implementing entity or entities*	*Estimate of mitigation impact (not cumulative, in kt CO_2 eq)*				
										2010	*2015*	2020	2025	2030
Waste as a source of energy		Waste management/waste	CH_4, CO_2	Energy supply from waste	Other (Other (Organisational))	Implemented	Energy supply as a result of the application of waste incineration processes and the processing of landfill gas		Self-government administrations/Inspection services (environmental inspection)/ entrepreneurs	in Gg CO_2 eq.:271.0				
The reduction of the quantity of waste, including biodegradable waste, going to landfills of non-hazardous and inert (municipal) waste		Waste management/waste	CH_4, CO_2	The reduction of the quantity of landfilled waste	Other (Other (Organisationl))	Implemented	The reduction of the quantity of waste (including biodegradable waste) going to landfills of municipal waste.		National government administration, self-government administrations (Marshal's Offices), Inspection services (environmental inspection)		4) reductions by at least 5-10% compared with 2010 (by 383-766 Gg CO2 eq.)	4) reductions by at least 5-10% compared with 2015 (by 345-728 Gg CO2 eq.)		
The prevention of land-use change		Forestry	CO_2	Enhanced CO_2 removals	Other (Legal)	Implemented	The preservation of the existing forest areas.		The State Forests National Forest Holding	NA	NA	NA	NA	NA
The rationalisation of forest management, incentives and measures supporting the afforestation and protection of the ecological stability of		Forestry	CO_2	Enhanced CO_2 removals	Other (Legal)	Implemented	The afforestation of non-forest land, reforestation, the enhancement of standing timber resources and timber harvesting which cannot exceed 50–60% of the annual increment.		The State Forests National Forest Holding		3.66	3.66	3.66	NA

Note : The two final columns specify the year identified by the Party for estimating impacts (based on the status of the measure and whether an ex post or ex ante estimation is available).

Abbreviations : GHG = greenhouse gas; LULUCF = land use, land-use change and forestry.

[a] Parties should use an asterisk (*) to indicate that a mitigation action is included in the 'with measures' projection.

[b] To the extent possible, the following sectors should be used: energy, transport, industry/industrial processes, agriculture, forestry/LULUCF, waste management/waste, other sectors, cross-cutting, as appropriate.

[c] To the extent possible, the following types of instrument should be used: economic, fiscal, voluntary agreement, regulatory, information, education, research, other.

[d] To the extent possible, the following descriptive terms should be used to report on the status of implementation: implemented, adopted, planned.

[e] Additional information may be provided on the cost of the mitigation actions and the relevant timescale.

[f] Optional year or years deemed relevant by the Party.

Custom Footnotes

[1)] Anexpert assessment – estimates based on the statistical data from the CentralStatistical Office (GUS) on the quantities of the individual fractions ofmunicipal waste collected selectively in a given year (assuming its lineargrowth); the document "Waste and Climate Change: Global Trends and StrategyFramework", UNEP 2010.

The calculations are based on the data from GUS Yearbooks and the documents"Recykling dla ochrony klimatu. Ograniczenie emisji gazów cieplarnianych – dowódodpowiedzialności względem przyszłych pokoleń" ("Recycling for climate protection. Reducing greenhouse gas emissions – showing responsibility towardsfuture generations." – in Polish) ALBA Group and; "Wasteand Climate Change:Global Trends and Strategy Framework", UNEP 2010. .Thefollowing indicators were used to assess the impact of the recycling measures :WEEE - 1.016 (ALBA); Plastics - 0.500 (UNEP), 0.958 (ALBA); Aluminium - 10.000(UNEP): Steel - 2.000(UNEP); Paper 1.550 (UNEP),).402 (ALBA); Glass- 0.500 (UNEP),),295 (ALBA)

[3)] Thecalculations are based on:-the GUS data on the quantity of heat [GJ] and electricity [MWh] produced in agiven year;-the assumptions (the sources: "Methane Tracking and Mitigation Options -EPA-CMOP", www.epa.gov; „Optimising anaerobicdigestion", C.Banks, www.forestry.gov.uk):

[4)] Anexpert assessment – an estimate based on the calculations of the CO2eq. emissions in 2005-2011 from waste landfills. The following information wasused: the CO2 eq. emissions per kg of waste deposited at landfills –0.39 m3 (source: http://marekpilawski.com, accessed on 24;May2013 r.), CO2 density 1.96kg/m3 and the GUS data on the quantity of waste deposited in a givenyear.

In turn, the following assumptions were adoptedfor emissions from the landfill gas:Calorific value of CH4= 37 MJ/m3= 0.037 GJ/m31m3 CH4= 0.662 kg CH41 kg CH4 = 21 kg CO2 eq1m3 CH4= 10 kWh = 0.01 MWhSources:"Methane Tracking and Mitigation Options - EPA-CMOP", www.epa.gov;"Optimising anaerobic digestion", C. Banks, www.forestry.gov.uk)

Table 4 POL_BR2_v1.0

Reporting on progress[a, b]

	Total emissions excluding LULUCF	*Contribution from LULUCF* [d]	*Quantity of units from market based mechanisms under the Convention*		*Quantity of units from other market based mechanisms*	
Year [c]	*(kt CO_2 eq)*	*(kt CO_2 eq)*	*(number of units)*	*(kt CO_2 eq)*	*(number of units)*	*(kt CO_2 eq)*
(1988 year)	580,896.03	-14,441.86	NA	NA	NA	NA
2010	408,109.60	-28,185.50	NA	NA	NA	NA
2011	405,151.11	-35,039.02	NA	NA	NA	NA
2012	398,811.96	-34,505.29	NA	NA	NA	NA
2013	394,891.52	-37,586.99	NA	NA	NA	NA
2014						

Abbreviation : GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

[a] Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

[b] For the base year, information reported on the emission reduction target shall include the following: (a) total GHG emissions, excluding emissions and removals from the LULUCF sector; (b) emissions and/or removals from the LULUCF sector based on the accounting approach applied taking into consideration any relevant decisions of the Conference of the Parties and the activities and/or land that will be accounted for; (c) total GHG emissions, including emissions and removals from the LULUCF sector. For each reported year, information reported on progress made towards the emission reduction targets shall include, in addition to the information noted in paragraphs 9(a–-c) of the UNFCCC biennial reporting guidelines for developed country Parties, information on the use of units from market-based mechanisms.

[c] Parties may add additional rows for years other than those specified below.

[d] Information in this column should be consistent with the information reported in table 4(a)I or 4(a)II, as appropriate. The Parties for which all relevant information on the LULUCF contribution is reported in table 1 of this common tabular format can refer to table 1.

Custom Footnotes

*Baseyear - 1988 NA – Not applicable

Table 4(a)I POL_BR2_v1.0

Progress in achieving the quantified economy-wide emission reduction targets – further information on mitigation actions relevant to the contribution of the land use, land-use change and forestry sector in 2013 [a,b]

	Net GHG emissions/removals from LULUCF categories [c]	*Base year/period or reference level value* [d]	*Contribution from LULUCF for reported year*	*Cumulative contribution from LULUCF* [e]	*Accounting approach* [f]
	(kt CO_2 eq)				
Total LULUCF					Other (NA)
A. Forest land					Other (NA)
1. Forest land remaining forest land					Other (NA)
2. Land converted to forest land					Other (NA)
3. Other [g]					Other (NA)
B. Cropland					Other (NA)
1. Cropland remaining cropland					Other (NA)
2. Land converted to cropland					Other (NA)
3. Other [g]					Other (NA)
C. Grassland					Other (NA)
1. Grassland remaining grassland					Other (NA)
2. Land converted to grassland					Other (NA)
3. Other [g]					Other (NA)
D. Wetlands					Other (NA)
1. Wetland remaining wetland					Other (NA)
2. Land converted to wetland					Other (NA)
3. Other [g]					Other (NA)
E. Settlements					Other (NA)
1. Settlements remaining settlements					Other (NA)
2. Land converted to settlements					Other (NA)
3. Other [g]					Other (NA)
F. Other land					Other (NA)
1. Other land remaining other land					Other (NA)
2. Land converted to other land					Other (NA)
3. Other [g]					Other (NA)
Harvested wood products					Other (NA)

Abbreviations: GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

[a] Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

[b] Parties that use the LULUCF approach that is based on table 1 do not need to complete this table, but should indicate the approach in table 2. Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

[c] For each category, enter the net emissions or removals reported in the most recent inventory submission for the corresponding inventory year. If a category differs from that used for the reporting under the Convention or its Kyoto Protocol, explain in the biennial report how the value was derived.

[d] Enter one reference level or base year/period value for each category. Explain in the biennial report how these values have been calculated.

[e] If applicable to the accounting approach chosen. Explain in this biennial report to which years or period the cumulative contribution refers to.

[f] Label each accounting approach and indicate where additional information is provided within this biennial report explaining how it was implemented, including all relevant accounting parameters (i.e. natural disturbances, caps).

[g] Specify what was used for the category "other". Explain in this biennial report how each was defined and how it relates to the categories used for reporting under the Convention or its Kyoto Protocol.

Custom Footnotes

Table 4(a)I POL_BR2_v1.0

Progress in achieving the quantified economy-wide emission reduction targets – further information on mitigation actions relevant to the contribution of the land use, land-use change and forestry sector in 2014 [a, b]

	Net GHG emissions/removals from LULUCF categories [c]	*Base year/period or reference level value* [d]	*Contribution from LULUCF for reported year*	*Cumulative contribution from LULUCF* [e]	*Accounting approach* [f]
	(kt CO_2 eq)				
Total LULUCF					Other (NA)
A. Forest land					Other (NA)
1. Forest land remaining forest land					Other (NA)
2. Land converted to forest land					Other (NA)
3. Other [g]					Other (NA)
B. Cropland					Other (NA)
1. Cropland remaining cropland					Other (NA)
2. Land converted to cropland					Other (NA)
3. Other [g]					Other (NA)
C. Grassland					Other (NA)
1. Grassland remaining grassland					Other (NA)
2. Land converted to grassland					Other (NA)
3. Other [g]					Other (NA)
D. Wetlands					Other (NA)
1. Wetland remaining wetland					Other (NA)
2. Land converted to wetland					Other (NA)
3. Other [g]					Other (NA)
E. Settlements					Other (NA)
1. Settlements remaining settlements					Other (NA)
2. Land converted to settlements					Other (NA)
3. Other [g]					Other (NA)
F. Other land					Other (NA)
1. Other land remaining other land					Other (NA)
2. Land converted to other land					Other (NA)
3. Other [g]					Other (NA)
Harvested wood products					Other (NA)

Abbreviations: GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

[a] Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

[b] Parties that use the LULUCF approach that is based on table 1 do not need to complete this table, but should indicate the approach in table 2. Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

[c] For each category, enter the net emissions or removals reported in the most recent inventory submission for the corresponding inventory year. If a category differs from that used for the reporting under the Convention or its Kyoto Protocol, explain in the biennial report how the value was derived.

[d] Enter one reference level or base year/period value for each category. Explain in the biennial report how these values have been calculated.

[e] If applicable to the accounting approach chosen. Explain in this biennial report to which years or period the cumulative contribution refers to.

[f] Label each accounting approach and indicate where additional information is provided within this biennial report explaining how it was implemented, including all relevant accounting parameters (i.e. natural disturbances, caps).

[g] Specify what was used for the category "other". Explain in this biennial report how each was defined and how it relates to the categories used for reporting under the Convention or its Kyoto Protocol.

Custom Footnotes

Table 4(b) POL_BR2_v1.0

Reporting on progress[a, b, c]

Units of market based mechanisms			*Year*	
			2013	*2014*
Kyoto Protocol units [d]	*Kyoto Protocol units*	*(number of units)*		
		(kt CO_2 eq)		
	AAUs	*(number of units)*		
		(kt CO2 eq)		
	ERUs	*(number of units)*		
		(kt CO2 eq)		
	CERs	*(number of units)*		
		(kt CO2 eq)		
	tCERs	*(number of units)*		
		(kt CO2 eq)		
	lCERs	*(number of units)*		
		(kt CO2 eq)		
Other units [d,e]	*Units from market-based mechanisms under the Convention*	*(number of units)*		
		(kt CO_2 eq)		
	Units from other market-based mechanisms	*(number of units)*		
		(kt CO_2 eq)		
	NO	*(number of units)*		
		(kt CO2 eq)		
Total		*(number of units)*		
		(kt CO_2 eq)		

Abbreviations : AAUs = assigned amount units, CERs = certified emission reductions, ERUs = emission reduction units, lCERs = long-term certified emission reductions, tCERs = temporary certified emission reductions.
Note: 2011 is the latest reporting year.

[a] Reporting by a developed country Party on the information specified in the common tabular format does not prejudge the position of other Parties with regard to the treatment of units from market-based mechanisms under the Convention or other market-based mechanisms towards achievement of quantified economy-wide emission reduction targets.

[b] For each reported year, information reported on progress made towards the emission reduction target shall include, in addition to the information noted in paragraphs 9(a-c) of the reporting guidelines, on the use of units from market-based mechanisms.

[c] Parties may include this information, as appropriate and if relevant to their target.

[d] Units surrendered by that Party for that year that have not been previously surrendered by that or any other Party.

[e] Additional rows for each market-based mechanism should be added, if applicable.

Custom Footnotes

Table 5 POL_BR2_v1.0

Summary of key variables and assumptions used in the projections analysis[a]

Key underlying assumptions		*Historical*[b]							Projected		
Assumption	*Unit*	*1990*	*1995*	2000	2005	2010	2011	2015	2020	2025	2030
Population	*thousands*							38,016,100.00	37,829,900.00	37,438,100.00	36,796,000.00
primary energy consumption	Mtoe							100.20	103.30	103.30	102.50
gross electricity production	TWh							158.70	177.90	187.50	206.80
GDP growth rate	%							2.80	4.00		2.90
primary energy consumption	MToe							100.20	103.20	103.30	102.50
cattle population	thousands							5,800.00	6,000.00	6,100.00	6,200.00
nitrogen fertilisers use	kt							1,110.00	1,175.00	1,250.00	1,300.00
municipal solid waste generation	kt							13,245.50	14,254.00	15,399.00	16,544.00
clinker cement production	kt							14,232.00	15,821.00	15,761.00	15,598.00
lime production	kt							1,640.00	1,580.00	1,522.00	1,466.00
ammonia production	kt							2,489.00	2,508.00	2,527.00	2,546.00
nitric acid production	kt							2,287.00	2,310.00	2,333.00	2,357.00
iron ore sinter production	kt							7,818.00	9,382.00	9,835.00	9,733.00
pig iron production	*kt*							4,618.00	5,542.00	5,809.00	5,749.00

[a] Parties should include key underlying assumptions as appropriate.

[b] Parties should include historical data used to develop the greenhouse gas projections reported.

Custom Footnotes

Table 6(a) POL_BR2_v1.0

Information on updated greenhouse gas projections under a 'with measures' scenario[a]

	GHG emissions and removals[b]							GHG emission projections	
	(kt CO_2 eq)							($kt CO_2$ eq)	
	Base year (1988 year)	1990	1995	2000	2005	2010	2013	2020	2030
Sector[d,e]									
Energy	459,223.63	365,942.36	348,924.16	295,008.99	293,441.72	290,567.35	279,480.36	257,752.21	223,025.44
Transport	24,243.18	20,594.32	23,521.35	27,693.26	35,081.68	47,995.08	43,990.35	50,848.09	55,793.01
Industry/industrial processes	34,248.55	25,372.91	25,019.47	25,788.57	27,947.50	28,038.05	30,290.96	34,335.00	35,527.90
Agriculture	48,438.01	47,608.57	34,720.57	31,347.23	29,860.99	29,962.73	30,100.41	33,292.97	34,828.12
Forestry/LULUCF	-14,441.86	-26,024.92	-15,397.54	-30,942.43	-44,354.18	-28,185.50	-37,586.99	-22,316.20	-12,963.63
Waste management/waste	14,742.65	14,390.95	13,154.63	12,961.06	11,936.60	11,546.40	11,029.45	10,179.39	9,674.45
Other (specify)									
Gas									
CO_2 emissions including net CO_2 from LULUCF	460,160.19	352,503.13	348,448.09	288,498.87	279,010.67	308,474.02	285,272.89	285,923.42	268,121.63
CO_2 emissions excluding net CO_2 from LULUCF	474,657.36	379,464.82	363,900.96	319,482.57	323,586.36	336,695.02	322,900.21	311,662.90	284,508.55
CH_4 emissions including CH_4 from LULUCF	77,294.20	67,479.63	58,448.56	49,204.39	47,015.34	43,546.82	42,134.12	47,164.12	45,366.79
CH_4 emissions excluding CH_4 from LULUCF	77,250.07	67,435.57	58,402.66	49,171.84	46,981.85	43,515.17	42,097.14	43,747.99	41,950.66
N_2O emissions including N_2O from LULUCF	28,852.52	27,759.56	22,747.56	22,214.48	22,356.38	19,546.80	20,236.95	20,431.43	20,886.48
N_2O emissions excluding N_2O from LULUCF	28,841.35	26,866.85	22,738.14	22,205.75	22,168.36	19,542.95	20,233.61	20,424.27	20,879.32
HFCs	NA, NO	NA, NO	97.34	1,739.19	5,317.72	8,304.03	9,606.78	10,512.43	11,448.18
PFCs	147.26	141.87	171.97	176.68	187.41	17.07	14.64	13.75	12.57
SF_6	NA, NO	NA, NO	29.12	22.86	26.80	35.37	39.15	46.32	49.65
Other (specify)									
Total with LULUCF[f]	566,454.17	447,884.19	429,942.64	361,856.47	353,914.32	379,924.11	357,304.53	364,091.47	345,885.30
Total without LULUCF	580,896.04	473,909.11	445,340.19	392,798.89	398,268.50	408,109.61	394,891.53	386,407.66	358,848.93

Abbreviations: GHG = greenhouse gas, LULUCF = land use, land-use change and forestry.

[a] In accordance with the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part II: UNFCCC reporting guidelines on national communications", at a minimum Parties shall report a 'with measures' scenario, and may report 'without measures' and 'with additional measures' scenarios. If a Party chooses to report 'without measures' and/or 'with additional measures' scenarios they are to use tables 6(b) and/or 6(c), respectively. If a Party does not choose to report 'without measures' or 'with additional measures' scenarios then it should not include tables 6(b) or 6(c) in the biennial report.

Table 6(a) POL_BR2_v1.0

Information on updated greenhouse gas projections under a 'with measures' scenario[a]

	GHG emissions and removals[b]							GHG emission projections	
	(kt CO_2 eq)							(kt CO_2 eq)	
	Base year (1988 year)	1990	1995	2000	2005	2010	2013	2020	2030

[b] Emissions and removals reported in these columns should be as reported in the latest GHG inventory and consistent with the emissions and removals reported in the table on GHG emissions and trends provided in this biennial report. Where the sectoral breakdown differs from that reported in the GHG inventory Parties should explain in their biennial report how the inventory sectors relate to the sectors reported in this table.

[c] 20XX is the reporting due-date year (i.e. 2014 for the first biennial report).

[d] In accordance with paragraph 34 of the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part II: UNFCCC reporting guidelines on national communications", projections shall be presented on a sectoral basis, to the extent possible, using the same sectoral categories used in the policies and measures section. This table should follow, to the extent possible, the same sectoral categories as those listed in paragraph 17 of those guidelines, namely, to the extent appropriate, the following sectors should be considered: energy, transport, industry, agriculture, forestry and waste management.

[e] To the extent possible, the following sectors should be used: energy, transport, industry/industrial processes, agriculture, forestry/LULUCF, waste management/waste, other sectors (i.e. cross-cutting), as appropriate.

[f] Parties may choose to report total emissions with or without LULUCF, as appropriate.

Custom Footnotes

Table 7 POL_BR2_v1.0

Provision of public financial support: summary information in 2013[a]

Allocation channels	*Year*									
	Polish zloty - PLN					*USD*[b]				
	Core/ general[c]	*Climate-specific*[d]				*Core/ general*[c]	*Climate-specific*[d]			
		Mitigation	*Adaptation*	*Cross-cutting*[e]	*Other*[f]		*Mitigation*	*Adaptation*	*Cross-cutting*[e]	*Other*[f]
Total contributions through multilateral channels:	9,434,796.50				15,719.02	2,986,073.07				4,975.00
Multilateral climate change funds[g]	5,206,349.40					1,647,787.50				
Other multilateral climate change funds[h]	5,206,349.40					1,647,787.50				
Multilateral financial institutions, including regional development banks										
Specialized United Nations bodies	4,228,447.10				15,719.02	1,338,285.57				4,975.00
Total contributions through bilateral, regional and other channels			158,149.35		925,154.33			50,053.59		292,807.41
Total	9,434,796.50		158,149.35		940,873.35	2,986,073.07		50,053.59		297,782.41

Abbreviation: USD = United States dollars.

[a] Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

[b] Parties should provide an explanation on methodology used for currency exchange for the information provided in table 7, 7(a) and 7(b) in the box below.

[c] This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

[d] Parties should explain in their biennial reports how they define funds as being climate-specific.

[e] This refers to funding for activities which are cross-cutting across mitigation and adaptation.

[f] Please specify.

[g] Multilateral climate change funds listed in paragraph 17(a) of the "UNFCCC biennial reporting guidelines for developed country Parties" in decision 2/CP.17.

[h] Other multilateral climate change funds as referred in paragraph 17(b) of the "UNFCCC biennial reporting guidelines for developed country Parties" in decision 2/CP.17.

Custom Footnotes

Each Party shall provide an indication of what new and additional financial resources they have provided, and clarify how they have determined that such resources are new and additional. Please provide this information in relation to table 7(a) and table 7(b).
Documentation Box:

Table 7 POL_BR2_v1.0

Provision of public financial support: summary information in 2014[a]

Allocation channels	*Year*									
	Polish zloty - PLN					*USD*[b]				
	Core/ general[c]	*Climate-specific*[d]				*Core/ general*[c]	*Climate-specific*[d]			
		Mitigation	*Adaptation*	*Cross-cutting*[e]	*Other*[f]		*Mitigation*	*Adaptation*	*Cross-cutting*[e]	*Other*[f]
Total contributions through multilateral channels:	9,342,872.61			9,139,127.84		2,961,948.01			2,897,355.31	
Multilateral climate change funds[g]				350,000.00					110,959.64	
Other multilateral climate change funds[h]										
Multilateral financial institutions, including regional development banks	9,342,872.61					2,961,948.01				
Specialized United Nations bodies				8,789,127.84					2,786,395.67	
Total contributions through bilateral, regional and other channels		1,124,361.28	639,376.68	4,477,528.49			356,453.51	202,700.02	1,419,499.89	
Total	9,342,872.61	1,124,361.28	639,376.68	13,616,656.33		2,961,948.01	356,453.51	202,700.02	4,316,855.20	

Abbreviation: USD = United States dollars.

[a] Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

[b] Parties should provide an explanation on methodology used for currency exchange for the information provided in table 7, 7(a) and 7(b) in the box below.

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[e] This refers to funding for activities which are cross-cutting across mitigation and adaptation.

[f] Please specify.

[g] Multilateral climate change funds listed in paragraph 17(a) of the "UNFCCC biennial reporting guidelines for developed country Parties" in decision 2/CP.17.

[h] Other multilateral climate change funds as referred in paragraph 17(b) of the "UNFCCC biennial reporting guidelines for developed country Parties" in decision 2/CP.17.

Custom Footnotes

Each Party shall provide an indication of what new and additional financial resources they have provided, and clarify how they have determined that such resources are new and additional. Please provide this information in relation to table 7(a) and table 7(b).
Documentation Box:

Table 7(a) POL_BR2_v1.0

Provision of public financial support: contribution through multilateral channels in 2013[a]

Donor funding	*Total amount*				*Status* [b]	*Funding source* [f]	*Financial instrument* [f]	*Type of support* [f, g]	*Sector* [c]
	Core/general [d]		*Climate-specific* [e]						
	Polish zloty - PLN	*USD*	*Polish zloty - PLN*	*USD*					
Total contributions through multilateral channels	9,434,796.50	2,986,073.07	15,719.02	4,975.00					
Multilateral climate change funds [g]	5,206,349.40	1,647,787.50							
1. Global Environment Facility									
2. Least Developed Countries Fund									
3. Special Climate Change Fund									
4. Adaptation Fund									
5. Green Climate Fund									
6. UNFCCC Trust Fund for Supplementary Activities									
7. Other multilateral climate change funds	5,206,349.40	1,647,787.50							
Biodiversity International	46,143.92	14,604.35			Provided	ODA	Grant	Other ()	Not applicable
EPPO	565,304.96	178,916.62			Provided	ODA	Grant	Other ()	Not applicable
IUCN	1,510.25	477.99			Provided	ODA	Grant	Other ()	Not applicable
Multilateral Fund for the Implementation of the Montreal Protocol	4,449,887.56	1,408,370.54			Provided	ODA	Grant	Other ()	Not applicable
CITES	143,502.71	45,418.00			Provided	ODA	Grant	Other ()	Not applicable
Multilateral financial institutions, including regional development banks									
1. World Bank									
2. International Finance Corporation									
3. African Development Bank									
4. Asian Development Bank									
5. European Bank for Reconstruction and Development									
6. Inter-American Development Bank									
7. Other									
Specialized United Nations bodies	4,228,447.10	1,338,285.57	15,719.02	4,975.00					
1. United Nations Development Programme									
2. United Nations Environment Programme	473,940.00	150,000.00							
UNEP	473,940.00	150,000.00			Provided	ODA	Grant	Other ()	Not applicable
3. Other	3,754,507.10	1,188,285.57	15,719.02	4,975.00					
UNCCD	262,626.02	83,120.02			Provided	ODA	Grant	Other ()	Not applicable
UNECE	20,974.51	6,638.34			Provided	ODA	Grant	Other ()	Not applicable
UNFCCC	1,006,342.37	318,503.09			Provided	ODA	Grant	Other ()	Not applicable
WMO	72,962.62	23,092.36			Provided	ODA	Grant	Other ()	Not applicable
IAEA-TCF	2,391,601.58	756,931.76			Provided	ODA	Grant	Other ()	Not applicable
Other UN			15,719.02	4,975.00	Provided	ODA	Grant	Other ()	Not applicable

Abbreviations: ODA = official development assistance, OOF = other official flows.

[a] Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

[b] Parties should explain, in their biennial reports, the methodologies used to specify the funds as provided, committed and/or pledged. Parties will provide the information for as many status categories as appropriate in the following order of priority: provided, committed, pledged.

[c] Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

[d] This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

[e] Parties should explain in their biennial reports how they define funds as being climate-specific.

[f] Please specify.

[g] Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

Custom Footnotes

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Table 7(a) POL_BR2_v1.0

Provision of public financial support: contribution through multilateral channels in 2014[a]

Donor funding	*Total amount*				*Status*[b]	*Funding source*[f]	*Financial instrument*[f]	*Type of support*[f,g]	*Sector*[c]
	Core/general[d]		*Climate-specific*[e]						
	Polish zloty - PLN	*USD*	*Polish zloty - PLN*	*USD*					
Total contributions through multilateral channels	9,342,872.61	2,961,948.01	9,139,127.84	2,897,355.31					
Multilateral climate change funds [g]			350,000.00	110,959.64					
1. Global Environment Facility									
2. Least Developed Countries Fund									
3. Special Climate Change Fund									
4. Adaptation Fund									
5. Green Climate Fund			350,000.00	110,959.64	Provided	ODA	Grant	Cross-cutting	Other (Environment Protection)
6. UNFCCC Trust Fund for Supplementary Activities									
7. Other multilateral climate change funds									
Multilateral financial institutions, including regional development banks	9,342,872.61	2,961,948.01							
1. World Bank	9,208,118.00	2,919,227.09			Provided	ODA	Grant	Cross-cutting	Other (Contribution to the budget)
2. International Finance Corporation									
3. African Development Bank									
4. Asian Development Bank									
5. European Bank for Reconstruction and Development									
6. Inter-American Development Bank									
7. Other	134,754.61	42,720.92							
CEB - Council of Europe Development Bank	134,754.61	42,720.92			Provided	ODA		Cross-cutting	Other (Contribution to the budget)
Specialized United Nations bodies			8,789,127.84	2,786,395.67					
1. United Nations Development Programme									
2. United Nations Environment Programme			473,145.00	150,000.00					
UNEP			473,145.00	150,000.00	Provided	ODA	Grant	Cross-cutting	Other (Environment Protection)
3. Other			8,315,982.84	2,636,395.67					
UNCCD			218,873.72	69,389.00	Provided	ODA		Cross-cutting	Other (Environment Protection)
UNFCCC			426,812.81	135,311.42	Provided	ODA		Cross-cutting	Other (Environment Protection)
WMO			160,062.63	50,744.26	Provided	ODA		Cross-cutting	Other (Environment Protection)
IAEA-TCF			2,569,630.80	814,643.76	Provided	ODA		Cross-cutting	Other (Environment Protection)
EPPO			295,299.73	93,618.15	Provided	ODA		Cross-cutting	Other (Environment Protection)
Multilateral Fund for the Implementation of the Montreal Protocol			4,442,423.19	1,408,370.54	Provided	ODA		Cross-cutting	Other (Environment Protection)
CITES			202,879.96	64,318.54	Provided	ODA		Cross-cutting	Other (Environment Protection)

Abbreviations: ODA = official development assistance, OOF = other official flows.

[a] Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

[b] Parties should explain, in their biennial reports, the methodologies used to specify the funds as provided, committed and/or pledged. Parties will provide the information for as many status categories as appropriate in the following order of priority: provided, committed, pledged.

[c] Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

[d] This refers to support to multilateral institutions that Parties cannot specify as climate-specific.

[e] Parties should explain in their biennial reports how they define funds as being climate-specific.

[f] Please specify.

[g] Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

Custom Footnotes

Exchange rates in 2013: 1 USD = 3,1596 PLN; Exchange rate in 2014: 1 USD = 3,1543 PLN<!--[if gte mso 9]><xml> <w:WordDocument> <w:View>Normal</w:View> <w:Zoom>0</w:Zoom> <w:TrackMoves></w:TrackMoves> <w:TrackFormatting></w:TrackFormatting> <w:HyphenationZone>21</w:HyphenationZone> <w:PunctuationKerning></w:PunctuationKerning> <w:ValidateAgainstSchemas></w:ValidateAgainstSchemas> <w:SaveIfXMLInvalid>false</w:SaveIfXMLInvalid> <w:IgnoreMixedContent>false</w:IgnoreMixedContent> <w:AlwaysShowPlaceholderText>false</w:AlwaysShowPlaceholderText> <w:DoNotPromoteQF></w:DoNotPromoteQF> <w:LidThemeOther>PL</w:LidThemeOther> <w:LidThemeAsian>X-NONE</w:LidThemeAsian> <w:LidThemeComplexScript>X-NONE</w:LidThemeComplexScript> <w:Compatibility> <w:BreakWrappedTables></w:BreakWrappedTables> <w:SnapToGridInCell></w:SnapToGridInCell> <w:WrapTextWithPunct></w:WrapTextWithPunct> <w:UseAsianBreakRules></w:UseAsianBreakRules> <w:DontGrowAutofit></w:DontGrowAutofit> 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Table 7(b) POL_BR2_v1.0

Provision of public financial support: contribution through bilateral, regional and other channels in 2013[a]

Recipient country/ region/project/programme [b]	*Total amount*		*Status* [c]	*Funding source* [g]	*Financial instrument* [g]	*Type of support* [g, h]	*Sector* [d]	*Additional information* [e]
	Climate-specific [f]							
	Polish zloty - PLN	*USD*						
Total contributions through bilateral, regional and other channels	1,083,303.68	342,861.00						
Armenia / Armenia	275,511.00	87,198.06	Provided	ODA	Grant	Other ()	Other (Chemical Industry)	Expert and technical support; support the development of technical and institutional knowledge
Azerbaijan / Azerbaijan	268,650.36	85,026.70	Provided	ODA	Grant	Other ()	Agriculture	Expert and technical support; support the development of technical and institutional knowledge
Ethiopia / Ethiopia	66,287.21	20,979.62	Provided	ODA	Grant	Other ()	Other (Education)	Increasing knowledge about the environment
Guinea / Guinea	23,493.00	7,435.43	Provided	ODA	Grant	Adaptation	Other (Climate)	Equipped with Hydrometeorological measuring equipment
Ethiopia / Ethiopia	57,461.76	18,186.40	Provided	ODA	Grant	Other ()	Other (Water)	Environment Protection
Moldova / Moldova	204,994.00	64,879.73	Provided	ODA	Grant	Other ()	Other (Chemical Industry)	Expert and technical support; support the development of technical and institutional knowledge
Palestine / Palestine	134,656.35	42,618.16	Provided	ODA	Grant	Adaptation	Other (Water)	Water supply
Ukraine / Ukraine	52,250.00	16,536.90	Provided	ODA	Grant	Other ()	Other (Waste Management)	Expert and technical support; support the development of technical and institutional knowledge

Abbreviations: ODA = official development assistance, OOF = other official flows; USD = United States dollars.

[a] Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

[b] Parties should report, to the extent possible, on details contained in this table.

Table 7(b) POL_BR2_v1.0

Provision of public financial support: contribution through bilateral, regional and other channels in 2013[a]

Recipient country/ region/project/programme [b]	*Total amount*		*Status* [c]	*Funding source* [g]	*Financial instrument* [g]	*Type of support* [g, h]	*Sector* [d]	*Additional information* [e]
	Climate-specific [f]							
	Polish zloty - PLN	*USD*						

[c] Parties should explain, in their biennial reports, the methodologies used to specify the funds as provided, committed and/or pledged. Parties will provide the information for as many status categories as appropriate in the following order of priority: provided, committed, pledged.

[d] Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

[e] Parties should report, as appropriate, on project details and the implementing agency.

[f] Parties should explain in their biennial reports how they define funds as being climate-specific.

[g] Please specify.

[h] Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

Custom Footnotes

Exchange rates 1 USD = 3.1596 PLN; 1 USD = 0.7532EUR

Exchange rates in 2013: 1 USD = 3,1596 PLN; Exchange rate in 2014: 1 USD = 3,1543 PLN

Table 7(b) POL_BR2_v1.0

Provision of public financial support: contribution through bilateral, regional and other channels in 2014[a]

Recipient country/ region/project/programme [b]	*Total amount*		*Status* [c]	*Funding source* [g]	*Financial instrument* [g]	*Type of support* [g, h]	*Sector* [d]	*Additional information* [e]
	Climate-specific [f]							
	Polish zloty - PLN	*USD*						
Total contributions through bilateral, regional and other channels	6,241,266.45	1,978,653.42						
Armenia /	23,476.58	7,442.72	Provided	ODA	Grant	Cross-cutting	Other (Habitat conservation)	Dendrological research, Embassy of the Republic of Poland
Belarus / Belarus	1,273,304.00	403,672.45	Provided	ODA	Grant	Cross-cutting	Other (Large water and sewage systems)	Modernisation of water and sewage systems, Ministry of the Environment
Ethiopia / Ethiopia	615,851.00	195,241.73	Provided	ODA	Grant	Cross-cutting	Other (Environmental education and training)	Sustainable development and conservation of threatened ecosystems in Bishangari, NGO
Georgia / Georgia	639,376.68	202,700.02	Provided	ODA	Grant	Adaptation	Other (Disaster prevention)	Early flood warning system, NGO
Kenya / Kenya	37,665.78	11,941.09	Provided	ODA	Grant	Cross-cutting	Forestry	Prevention of deforestation, Embassy of the Republic of Poland
Moldova / Moldova	82,000.00	25,996.26	Provided	ODA	Grant	Cross-cutting	Other (Plant protection, incl. after harvest)	Strengthening of diagnostic capacity at the Plant Protection Inspectorate
Moldova / Moldova	189,236.96	59,993.33	Provided	ODA	Grant	Cross-cutting	Other (Waste management / landfilling)	Capacity building in the handling of chemical agents, Offices for Chemical Substances
Moldova / Moldova	418,522.13	132,683.05	Provided	ODA	Grant	Cross-cutting	Other (Solar energy production and supply)	Launch of a production line of solar panels and personnel training, UNIDO

Table 7(b) POL_BR2_v1.0

Provision of public financial support: contribution through bilateral, regional and other channels in 2014[a]

Recipient country/ region/project/programme [b]	*Total amount*		*Status* [c]	*Funding source* [g]	*Financial instrument* [g]	*Type of support* [g, h]	*Sector* [d]	*Additional information* [e]
	Climate-specific [f]							
	Polish zloty - PLN	*USD*						
Moldova / Moldova	414,323.60	131,352.00	Provided	ODA	Grant	Cross-cutting	Other (Environmental education and training)	Raising of the awareness in the field of waste management, Embassy of the Republic of Poland
Moldova / Moldova	746,280.00	236,591.32	Provided	ODA	Grant	Mitigation	Other (Energy production/ renewable sources)	Renewable energy sources and innovative technologies to improve energy efficiency, NGO
Moldova / Moldova	499,890.00	158,478.90	Provided	ODA	Grant	Cross-cutting	Other (Rural development)	Wastewater treatment plants in rural areas, NGO
Peru / Peru	32,311.39	10,243.60	Provided	ODA	Grant	Cross-cutting	Other (Environmental education)	Raising of the awareness in the field of environmental protection, Embassy of the Republic of Poland
Uganda / Uganda	61,572.00	19,520.02	Provided	ODA	Grant	Cross-cutting	Other (Environmental education)	Raising of the awareness in the field of environmental protection, Embassy of the Republic of Poland
Ukraine / Ukraine	221,663.88	70,273.56	Provided	ODA	Grant	Cross-cutting	Other (Energy production/ renewable sources)	Support for the RES Technology Centre, Embassy of the Republic of Poland
Ukraine / Ukraine	177,651.38	56,320.38	Provided	ODA	Grant	Cross-cutting	Other (Protection of water resources, including data collection)	Support for rationalisation of the regional water and sewage system, in accordance with the EU standards. Polish cities
Ukraine / Ukraine	218,710.00	69,337.10	Provided	ODA	Grant	Mitigation	Other (Energy policy and management)	A pilot programme to produce biomass pellets, Regional Development Agency

Table 7(b) POL_BR2_v1.0

Provision of public financial support: contribution through bilateral, regional and other channels in 2014[a]

Recipient country/ region/project/programme [b]	*Total amount*		*Status* [c]	*Funding source* [g]	*Financial instrument* [g]	*Type of support* [g, h]	*Sector* [d]	*Additional information* [e]
	Climate-specific [f]							
	Polish zloty - PLN	*USD*						
Ukraine / Ukraine	159,371.28	50,525.09	Provided	ODA	Grant	Mitigation	Other (Energy policy and management)	Eco-City – A plan for energy efficiency in public institutions, NGO
Ukraine / Ukraine	216,716.37	68,705.06	Provided	ODA	Grant	Cross-cutting	Other (Energy production/ renewable sources)	A pilot programme to use renewable energy in public education institutions, NGO
Ukraine / Ukraine	213,343.42	67,635.74	Provided	ODA	Grant	Cross-cutting	Other (Energy policy and management)	Efficient lighting systems in rural areas, Polish self-governments

Abbreviations: ODA = official development assistance, OOF = other official flows; USD = United States dollars.

[a] Parties should fill in a separate table for each year, namely 2011 and 2012, where 2014 is the reporting year.

[b] Parties should report, to the extent possible, on details contained in this table.

[c] Parties should explain, in their biennial reports, the methodologies used to specify the funds as provided, committed and/or pledged. Parties will provide the information for as many status categories as appropriate in the following order of priority: provided, committed, pledged.

[d] Parties may select several applicable sectors. Parties may report sectoral distribution, as applicable, under "Other".

[e] Parties should report, as appropriate, on project details and the implementing agency.

[f] Parties should explain in their biennial reports how they define funds as being climate-specific.

[g] Please specify.

[h] Cross-cutting type of support refers to funding for activities which are cross-cutting across mitigation and adaptation.

Custom Footnotes

Exchange rates 1 USD = 3.1596 PLN; 1 USD = 0.7532EUR

Exchange rates in 2013: 1 USD = 3,1596 PLN; Exchange rate in 2014: 1 USD = 3,1543 PLN

Table 7(b) POL_BR2_v1.0

Provision of public financial support: contribution through bilateral, regional and other channels in 2014[a]

Recipient country/ region/project/programme [b]	*Total amount*		*Status* [c]	*Funding source* [g]	*Financial instrument* [g]	*Type of support* [g, h]	*Sector* [d]	*Additional information* [e]
	Climate-specific [f]							
	Polish zloty - PLN	*USD*						

Table 8 POL_BR2_v1.0

Provision of technology development and transfer support[a,b]

Recipient country and/or region	*Targeted area*	*Measures and activities related to technology transfer*	*Sector* [c]	*Source of the funding for technology transfer*	*Activities undertaken by*	*Status*	*Additional information* [d]
Republic of Moldova, United Republic of Tanzania, Brazil, Viet Nam	Mitigation	BIOMASSER® mobile briquetting machines producing environment-friendly fuel from straw and hay	Energy	Private	Private and Public	Implemented	
Kazakhstan	Mitigation	SOLARIS DIESEL DUAL FUEL	Transport	Private	Private and Public	Planned	
Viet Nam	Mitigation	Renewable energy sources - The System for Measuring Windiness and Environmental Conditions MDL	Energy	Private	Private and Public	Planned	
India, Chile	Mitigation	INSTAL AIRECO	Energy	Private	Private and Public	Planned	
Georgia, Iran (Islamic Republic of), Saudi Arabia, Nigeria, Republic of South Africa, Chile	Mitigation	Energy efficiency - the Izodom construction technology	Other (Construction)	Private	Private and Public	Planned	
Mexico	Mitigation	Energy efficiency - INLENE industrial luminaire	Energy	Private	Private and Public	Implemented	
Papua New Guinea, Cuba, India	Mitigation	The energy-saving construction technology	Energy	Private	Private and Public	Planned	
Kazakhstan	Mitigation	Biomass boilers	Energy	Private	Private and Public	Implemented	
Chile	Mitigation	PellasX Sp. z o.o. Sp. k.	Energy	Private	Private and Public	Planned	
Republic of Moldova, India, Republic of South Africa, Chile	Mitigation	Pellet burner with rotary combustion chamber technology	Energy	Private	Private and Public	Implemented	

[a] To be reported to the extent possible.

[b] The tables should include measures and activities since the last national communication or biennial report.

[c] Parties may report sectoral disaggregation, as appropriate.

[d] Additional information may include, for example, funding for technology development and transfer provided, a short description of the measure or activity and co-financing arrangements.

Custom Footnotes

Table 9 POL_BR2_v1.0

Provision of capacity-building support[a]

Recipient country/region	*Targeted area*	*Programme or project title*	*Description of programme or project* [b,c]
	Mitigation	Examples of specific activities to support capacity building in developing countries through training are presented in CTF Table 7 b on financial support.	Examples of specific activities to support capacity building in developing countries through training are presented in CTF Table 7 b on financial support.

[a] To be reported to the extent possible.

[b] Each Party included in Annex II to the Convention shall provide information, to the extent possible, on how it has provided capacity-building support that responds to the existing and emerging capacity-building needs identified by Parties not included in Annex I to the Convention in the areas of mitigation, adaptation and technology development and transfer.

[c] Additional information may be provided on, for example, the measure or activity and co-financing arrangements.

Custom Footnotes