BR CTF submission workbook

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Emission trends: summary [(1)]
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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	5,115,556.75	5,115,556.75	5,065,778.93	5,171,192.96	5,285,719.19	5,378,413.80	5,442,434.79	5,630,873.10	5,705,849.90
CO_2 emissions with net CO_2 from LULUCF	4,347,860.00	4,347,860.00	4,305,484.00	4,421,097.13	4,557,490.11	4,598,190.46	4,695,651.67	4,871,889.14	5,001,017.83
CH_4 emissions without CH_4 from LULUCF	742,961.83	742,961.83	746,757.40	750,132.28	741,771.56	752,216.39	746,704.05	740,741.22	729,501.24
CH_4 emissions with CH_4 from LULUCF	745,492.94	745,492.94	748,959.95	753,471.64	743,816.64	758,480.74	750,170.93	750,778.45	731,404.04
N_2O emissions without N_2O from LULUCF	326,786.96	326,786.96	351,954.51	341,734.82	363,298.59	346,575.22	367,179.27	385,125.69	373,204.85
N_2O emissions with N_2O from LULUCF	329,899.45	329,899.45	354,880.61	345,569.90	366,548.72	352,811.19	371,463.89	393,900.32	376,659.73
HFCs	46,582.02	46,582.02	42,185.31	48,002.08	49,055.29	55,945.40	77,079.24	88,625.81	100,710.55
PFCs	24,255.67	24,255.67	20,912.46	19,481.09	19,484.62	17,964.99	18,640.43	19,867.14	18,266.15
Unspecified mix of HFCs and PFCs	NA	NA	NA	NA	NA	NA	NA	NA	NA
SF_6	31,080.41	31,080.41	29,764.56	29,949.82	29,432.65	28,004.25	26,638.17	25,919.91	24,168.02
NF3	47.92	47.92	47.92	47.92	59.90	65.89	83.24	92.43	97.68
Total (without LULUCF)	6,287,271.56	6,287,271.56	6,257,401.10	6,360,540.97	6,488,821.80	6,579,185.94	6,678,759.18	6,891,245.30	6,951,798.39
Total (with LULUCF)	5,525,218.40	5,525,218.40	5,502,234.82	5,617,619.58	5,765,887.94	5,811,462.92	5,939,727.57	6,151,073.20	6,252,324.00
Total (without LULUCF, with indirect)	6,287,271.56	6,287,271.56	6,257,401.10	6,360,540.97	6,488,821.80	6,579,185.94	6,678,759.18	6,891,245.30	6,951,798.39
Total (with LULUCF, with indirect)	5,525,218.40	5,525,218.40	5,502,234.82	5,617,619.58	5,765,887.94	5,811,462.92	5,939,727.57	6,151,073.20	6,252,324.00

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Base year[a]	1990	1991	1992	1993	1994	1995	1996	1997
	kt CO_2 eq								
1. Energy	5,290,461.89	5,290,461.89	5,251,304.17	5,353,798.89	5,459,865.41	5,549,913.59	5,602,464.04	5,790,405.83	5,860,475.38
2. Industrial processes and product use	342,119.85	342,119.85	322,927.02	328,702.37	329,259.41	341,240.44	373,336.45	388,903.16	393,539.25
3. Agriculture	448,703.83	448,703.83	474,207.27	466,984.86	487,583.92	475,609.86	495,662.85	509,039.00	502,240.76
4. Land Use, Land-Use Change and Forestry[b]	-762,053.16	-762,053.16	-755,166.28	-742,921.39	-722,933.86	-767,723.03	-739,031.62	-740,172.09	-699,474.39
5. Waste	205,985.98	205,985.98	208,962.64	211,054.86	212,113.05	212,422.05	207,295.84	202,897.31	195,543.00
6. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total (including LULUCF)	5,525,218.40	5,525,218.40	5,502,234.82	5,617,619.58	5,765,887.94	5,811,462.92	5,939,727.57	6,151,073.20	6,252,324.00

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 USA_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	5,745,701.34	5,819,790.10	5,993,614.52	5,896,563.38	5,937,752.37	5,984,135.10	6,099,877.27	6,125,013.54	6,045,387.09	6,125,948.00
CO_2 emissions with net CO_2 from LULUCF	5,083,495.50	5,210,074.56	5,361,262.35	5,205,659.66	5,160,076.88	5,110,946.53	5,188,507.46	5,222,039.53	5,080,349.51	5,200,853.78
CH_4 emissions without CH_4 from LULUCF	718,231.53	706,444.81	703,480.49	699,264.91	692,895.41	700,540.05	694,584.23	699,548.48	701,674.28	709,269.00
CH_4 emissions with CH_4 from LULUCF	720,821.71	715,772.49	716,128.47	706,229.77	703,404.53	707,221.64	698,298.94	707,845.56	720,247.24	724,278.36
N_2O emissions without N_2O from LULUCF	354,444.77	344,850.32	324,286.08	345,686.77	337,091.93	326,861.61	350,257.67	347,619.64	338,737.48	364,222.84
N_2O emissions with N_2O from LULUCF	358,149.75	353,256.23	335,181.25	353,050.29	346,884.47	334,174.46	355,593.67	355,886.35	353,817.05	377,043.38
HFCs	121,130.12	119,062.45	124,914.56	120,661.98	127,557.10	120,205.25	130,236.95	131,378.14	134,209.60	143,780.71
PFCs	16,976.44	16,906.51	15,909.37	8,233.58	10,229.04	8,149.14	6,788.46	6,639.99	6,298.24	7,712.05
Unspecified mix of HFCs and PFCs	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SF_6	21,198.47	20,942.28	17,873.36	17,074.63	16,077.51	15,815.75	14,559.77	14,009.27	12,759.47	11,217.74
NF3	119.78	121.54	203.73	226.41	552.38	526.00	540.39	482.16	682.32	550.93
Total (without LULUCF)	6,977,802.45	7,028,118.01	7,180,282.11	7,087,711.66	7,122,155.74	7,156,232.89	7,296,844.76	7,324,691.21	7,239,748.49	7,362,701.27
Total (with LULUCF)	6,321,891.76	6,436,136.06	6,571,473.09	6,411,136.32	6,364,781.91	6,297,038.76	6,394,525.64	6,438,280.99	6,308,363.44	6,465,436.96
Total (without LULUCF, with indirect)	6,977,802.45	7,028,118.01	7,180,282.11	7,087,711.66	7,122,155.74	7,156,232.89	7,296,844.76	7,324,691.21	7,239,748.49	7,362,701.27
Total (with LULUCF, with indirect)	6,321,891.76	6,436,136.06	6,571,473.09	6,411,136.32	6,364,781.91	6,297,038.76	6,394,525.64	6,438,280.99	6,308,363.44	6,465,436.96

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*1998*	1999	2000	2001	2002	2003	2004	2005	2006	2007
1. Energy	5,897,308.02	5,964,098.42	6,141,937.80	6,060,891.73	6,092,035.81	6,141,794.00	6,248,657.39	6,273,573.13	6,186,786.14	6,259,012.03
2. Industrial processes and product use	401,975.47	397,249.86	397,226.17	360,756.66	370,143.30	354,941.85	368,736.16	367,405.50	374,351.10	389,840.67
3. Agriculture	490,386.05	482,947.14	459,578.03	487,749.93	480,210.28	472,779.01	494,688.57	494,478.43	489,113.94	523,583.27
4. Land Use, Land-Use Change and Forestry[b]	-655,910.69	-591,981.94	-608,809.02	-676,575.34	-757,373.83	-859,194.13	-902,319.11	-886,410.22	-931,385.05	-897,264.31
5. Waste	188,132.91	183,822.59	181,540.11	178,313.33	179,766.34	186,718.04	184,762.63	189,234.15	189,497.32	190,265.29
6. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total (including LULUCF)	6,321,891.76	6,436,136.06	6,571,473.09	6,411,136.32	6,364,781.91	6,297,038.76	6,394,525.64	6,438,280.99	6,308,363.44	6,465,436.96

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

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	5,927,349.32	5,492,354.29	5,694,946.80	5,559,994.62	5,347,462.83	5,494,472.63	0.07
CO_2 emissions with net CO_2 from LULUCF	5,042,425.22	4,629,723.71	4,832,921.69	4,687,891.87	4,477,882.52	4,623,446.72	0.06
CH_4 emissions without CH_4 from LULUCF	718,847.17	703,649.28	662,415.02	646,329.83	631,967.14	630,477.65	-0.15
CH_4 emissions with CH_4 from LULUCF	727,913.21	709,489.51	667,167.41	660,929.40	647,632.62	636,312.81	-0.15
N_2O emissions without N_2O from LULUCF	355,539.25	349,551.43	354,101.78	359,311.48	352,301.49	348,480.46	0.07
N_2O emissions with N_2O from LULUCF	364,308.92	356,100.34	360,062.41	371,876.49	365,608.21	355,193.85	0.08
HFCs	145,736.68	142,937.10	152,611.21	157,372.78	159,238.61	162,950.14	2.50
PFCs	6,048.40	3,858.82	4,427.12	6,879.86	5,983.86	5,821.05	-0.76
Unspecified mix of HFCs and PFCs	NA	NA	NA	NA	NA	NA	NA
SF_6	10,305.02	9,301.94	9,489.73	10,030.87	7,719.90	6,938.46	-0.78
NF3	564.92	446.56	521.89	666.94	638.63	560.71	10.70
Total (without LULUCF)	7,164,390.75	6,702,099.41	6,878,513.55	6,740,586.36	6,505,312.45	6,649,701.10	0.06
Total (with LULUCF)	6,297,302.36	5,851,857.98	6,027,201.45	5,895,648.20	5,664,704.35	5,791,223.73	0.05
Total (without LULUCF, with indirect)	7,164,390.75	6,702,099.41	6,878,513.55	6,740,586.36	6,505,312.45	6,649,701.10	0.06
Total (with LULUCF, with indirect)	6,297,302.36	5,851,857.98	6,027,201.45	5,895,648.20	5,664,704.35	5,791,223.73	0.05

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*2008*	2009	2010	2011	2012	2013	Change from base to latest reported year
							(%)
1. Energy	6,082,297.35	5,682,059.71	5,854,631.00	5,702,618.30	5,482,175.58	5,636,633.61	0.07
2. Industrial processes and product use	364,328.67	314,856.27	353,588.60	370,974.85	361,181.13	359,101.75	0.05
3. Agriculture	527,885.82	523,340.18	524,807.49	522,108.39	523,017.10	515,658.18	0.15
4. Land Use, Land-Use Change and Forestry[b]	-867,088.38	-850,241.43	-851,312.10	-844,938.16	-840,608.11	-858,477.36	0.13
5. Waste	189,878.90	181,843.25	145,486.45	144,884.82	138,938.65	138,307.55	-0.33
6. Other	NA	NA	NA	NA	NA	NA	NA
Total (including LULUCF)	6,297,302.36	5,851,857.98	6,027,201.45	5,895,648.20	5,664,704.35	5,791,223.73	0.05

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) USA_BR2_v1.0

Emission trends (CO_2)

(Sheet 1 of 3)

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	*Base year*[a]	1990	1991	1992	1993	1994	1995	1996	1997
	kt								
1. Energy	4,908,390.37	4,908,390.37	4,868,193.30	4,970,640.79	5,086,882.22	5,171,932.46	5,227,888.20	5,413,204.01	5,485,686.27
A. Fuel combustion (sectoral approach)	4,866,300.17	4,866,300.17	4,825,918.00	4,928,614.14	5,041,468.75	5,126,393.16	5,180,762.41	5,368,494.66	5,441,287.71
1. Energy industries	1,820,817.72	1,820,817.72	1,818,193.02	1,831,539.33	1,906,904.58	1,931,232.16	1,947,918.37	2,020,987.22	2,088,392.51
2. Manufacturing industries and construction	842,472.71	842,472.71	822,468.89	857,426.31	855,684.20	864,692.17	870,379.47	907,261.85	906,680.64
3. Transport	1,445,207.93	1,445,207.93	1,401,573.57	1,457,784.99	1,495,312.75	1,544,320.86	1,578,452.66	1,622,496.65	1,638,980.37
4. Other sectors	555,740.12	555,740.12	570,436.27	574,120.40	585,861.55	579,029.07	578,237.18	617,418.22	598,168.44
5. Other	202,061.70	202,061.70	213,246.26	207,743.11	197,705.67	207,118.89	205,774.73	200,330.72	209,065.75
B. Fugitive emissions from fuels	42,090.20	42,090.20	42,275.30	42,026.65	45,413.47	45,539.30	47,125.80	44,709.35	44,398.56
1. Solid fuels	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO
2. Oil and natural gas and other emissions from energy production	42,090.20	42,090.20	42,275.30	42,026.65	45,413.47	45,539.30	47,125.80	44,709.35	44,398.56
C. CO2 transport and storage	NA	NA	NA	NA	NA	NA	NA	NA	NA
2. Industrial processes	207,166.38	207,166.38	197,585.63	200,552.18	198,836.97	206,481.35	214,546.59	217,669.08	220,163.63
A. Mineral industry	52,801.30	52,801.30	51,178.46	51,866.95	53,752.82	56,185.36	59,750.71	63,231.10	62,195.04
B. Chemical industry	44,451.84	44,451.84	45,606.45	47,303.90	48,283.31	51,204.27	52,026.78	53,018.05	54,985.01
C. Metal industry	109,913.25	109,913.25	100,800.73	101,381.32	96,800.84	99,091.72	102,769.10	101,419.93	102,983.58
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	NA	NA	NA	NA	NA	NA	NA	NA	NA
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Agriculture	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE
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	IE	IE	IE	IE	IE	IE	IE	IE	IE
H. Urea application	IE	IE	IE	IE	IE	IE	IE	IE	IE
I. Other carbon-containing fertilizers	NA	NA	NA	NA	NA	NA	NA	NA	NA
J. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
4. Land Use, Land-Use Change and Forestry	-767,696.75	-767,696.75	-760,294.93	-750,095.83	-728,229.08	-780,223.34	-746,783.11	-758,983.96	-704,832.07
A. Forest land	-639,432.06	-639,432.06	-631,272.22	-624,482.17	-625,879.01	-653,321.38	-660,877.94	-640,378.45	-603,883.56
B. Cropland	-33,614.05	-33,614.05	-34,779.48	-29,548.65	-9,335.99	-20,805.84	-4,236.22	-12,858.30	-7,910.24
C. Grassland	-9,322.78	-9,322.78	-8,923.21	-9,768.74	-8,277.88	-22,278.68	340.55	-24,117.72	-10,631.76
D. Wetlands	1,054.85	1,054.85	974.80	932.33	995.89	942.53	1,053.46	897.91	1,072.11
E. Settlements	-60,407.62	-60,407.62	-61,854.37	-63,301.12	-64,747.88	-66,194.63	-67,641.38	-69,088.13	-70,534.88
F. Other land	NE	NE	NE	NE	NE	NE	NE	NE	NE
G. Harvested wood products	IE	IE	IE	IE	IE	IE	IE	IE	IE
H. Other	-25,975.10	-25,975.10	-24,440.45	-23,927.49	-20,984.21	-18,565.35	-15,421.58	-13,439.26	-12,943.75
5. Waste	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA
A. Solid waste disposal	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
B. Biological treatment of solid waste									
C. Incineration and open burning of waste	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA
D. Waste water treatment and discharge									
E. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
6. Other (as specified in the summary table in CRF)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Memo items:									
International bunkers	103,462.57	103,462.57	117,569.49	107,862.97	97,829.15	96,689.41	98,491.64	99,749.73	106,960.91
Aviation	38,033.60	38,033.60	46,339.14	46,769.35	46,889.85	48,342.47	49,903.00	51,029.10	54,485.17
Navigation	65,428.97	65,428.97	71,230.35	61,093.62	50,939.30	48,346.94	48,588.64	48,720.63	52,475.74
Multilateral operations	IE	IE	IE	IE	IE	IE	IE	IE	IE
CO2 emissions from biomass	219,412.56	219,412.56	220,165.21	230,609.45	225,796.79	232,298.11	236,907.13	241,331.89	235,579.30
CO2 captured	NA	NA	NA	NA	NA	NA	NA	NA	NA
Long-term storage of C in waste disposal sites	NA	NA	NA	NA	NA	NA	NA	NA	NA
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	5,115,556.75	5,115,556.75	5,065,778.93	5,171,192.96	5,285,719.19	5,378,413.80	5,442,434.79	5,630,873.10	5,705,849.90
Total CO2 equivalent emissions with land use, land-use change and forestry	4,347,860.00	4,347,860.00	4,305,484.00	4,421,097.13	4,557,490.11	4,598,190.46	4,695,651.67	4,871,889.14	5,001,017.83
Total CO2 equivalent emissions, including indirect CO2, without land use, land-use change and forestry	5,115,556.75	5,115,556.75	5,065,778.93	5,171,192.96	5,285,719.19	5,378,413.80	5,442,434.79	5,630,873.10	5,705,849.90
Total CO2 equivalent emissions, including indirect CO2, with land use, land-use change and forestry	4,347,860.00	4,347,860.00	4,305,484.00	4,421,097.13	4,557,490.11	4,598,190.46	4,695,651.67	4,871,889.14	5,001,017.83

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

Table 1 (a) USA_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	5,528,723.36	5,604,134.50	5,780,064.15	5,703,307.12	5,744,169.69	5,795,857.49	5,903,440.02	5,933,912.08	5,849,941.31	5,928,139.86
A. Fuel combustion (sectoral approach)	5,494,247.58	5,568,666.17	5,745,381.74	5,669,155.79	5,709,296.07	5,762,044.45	5,869,838.47	5,899,013.01	5,814,960.90	5,892,359.83
1. Energy industries	2,177,378.35	2,190,513.42	2,296,877.13	2,257,912.89	2,272,671.30	2,304,157.90	2,335,886.27	2,400,873.67	2,345,280.93	2,411,896.46
2. Manufacturing industries and construction	868,874.62	845,734.15	853,897.35	842,568.87	829,422.71	829,237.67	852,134.42	827,807.89	852,378.32	847,720.62
3. Transport	1,674,911.98	1,730,807.75	1,776,166.88	1,760,466.45	1,802,867.21	1,792,518.39	1,836,471.98	1,860,232.36	1,860,336.94	1,864,328.27
4. Other sectors	546,980.35	569,131.78	601,489.32	586,921.69	584,758.82	613,863.77	601,653.96	581,279.60	529,853.58	560,047.05
5. Other	226,102.28	232,479.06	216,951.05	221,285.89	219,576.02	222,266.73	243,691.83	228,819.51	227,111.13	208,367.42
B. Fugitive emissions from fuels	34,475.78	35,468.33	34,682.41	34,151.33	34,873.62	33,813.03	33,601.55	34,899.07	34,980.41	35,780.03
1. Solid fuels	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO
2. Oil and natural gas and other emissions from energy production	34,475.78	35,468.33	34,682.41	34,151.33	34,873.62	33,813.03	33,601.55	34,899.07	34,980.41	35,780.03
C. CO2 transport and storage	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2. Industrial processes	216,977.98	215,655.60	213,550.37	193,256.26	193,582.68	188,277.61	196,437.25	191,101.46	195,445.78	197,808.14
A. Mineral industry	63,629.06	64,651.02	63,157.15	62,489.03	64,289.18	63,657.10	68,750.21	70,025.19	72,406.75	70,103.81
B. Chemical industry	56,506.36	56,179.80	54,504.72	47,588.67	49,778.42	47,975.82	51,805.44	47,290.07	46,723.38	49,035.34
C. Metal industry	96,842.56	94,824.78	95,888.50	83,178.56	79,515.08	76,644.70	75,881.60	73,786.20	76,315.65	78,668.98
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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Agriculture	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE
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	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
H. Urea application	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
I. Other carbon-containing fertilizers	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
J. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4. Land Use, Land-Use Change and Forestry	-662,205.84	-609,715.53	-632,352.17	-690,903.72	-777,675.49	-873,188.57	-911,369.82	-902,974.01	-965,037.58	-925,094.22
A. Forest land	-562,988.29	-509,472.61	-489,364.56	-573,589.25	-673,690.11	-774,554.36	-815,329.71	-807,074.71	-841,792.36	-830,262.25
B. Cropland	-1,127.33	-7,531.15	-15,542.16	-7,659.76	7,375.00	9,820.58	9.77	-351.30	-3,889.49	-5,668.99
C. Grassland	-15,526.20	-8,351.64	-40,512.89	-21,467.36	-21,708.85	-19,438.79	-6,589.97	-4,765.70	-27,265.07	3,227.72
D. Wetlands	1,123.37	1,197.18	1,271.25	1,179.30	1,034.16	1,014.44	1,150.85	1,101.26	889.53	1,028.67
E. Settlements	-71,981.64	-73,428.39	-74,917.52	-76,038.69	-77,159.85	-78,281.02	-79,402.19	-80,523.36	-81,644.52	-82,765.69
F. Other land	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
G. Harvested wood products	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
H. Other	-11,705.75	-12,128.92	-13,286.29	-13,327.96	-13,525.83	-11,749.42	-11,208.57	-11,360.20	-11,335.68	-10,653.66
5. Waste	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA
A. Solid waste disposal	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE
B. Biological treatment of solid waste										
C. Incineration and open burning of waste	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA
D. Waste water treatment and discharge										
E. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6. Other (as specified in the summary table in CRF)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Memo items:										
International bunkers	110,490.71	102,733.04	101,726.18	93,731.32	94,442.98	98,309.91	108,391.00	113,139.25	114,115.98	115,345.34
Aviation	54,080.46	57,557.15	62,029.31	56,384.52	54,626.24	55,196.36	56,239.23	60,125.45	60,283.69	61,489.49
Navigation	56,410.25	45,175.90	39,696.86	37,346.80	39,816.74	43,113.55	52,151.77	53,013.80	53,832.30	53,855.85
Multilateral operations	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
CO2 emissions from biomass	218,235.65	221,492.50	227,434.90	203,330.57	204,549.27	209,807.98	225,166.23	229,843.78	233,840.11	241,241.39
CO2 captured	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Long-term storage of C in waste disposal sites	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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	5,745,701.34	5,819,790.10	5,993,614.52	5,896,563.38	5,937,752.37	5,984,135.10	6,099,877.27	6,125,013.54	6,045,387.09	6,125,948.00
Total CO2 equivalent emissions with land use, land-use change and forestry	5,083,495.50	5,210,074.56	5,361,262.35	5,205,659.66	5,160,076.88	5,110,946.53	5,188,507.46	5,222,039.53	5,080,349.51	5,200,853.78
Total CO2 equivalent emissions, including indirect CO2, without land use, land-use change and forestry	5,745,701.34	5,819,790.10	5,993,614.52	5,896,563.38	5,937,752.37	5,984,135.10	6,099,877.27	6,125,013.54	6,045,387.09	6,125,948.00
Total CO2 equivalent emissions, including indirect CO2, with land use, land-use change and forestry	5,083,495.50	5,210,074.56	5,361,262.35	5,205,659.66	5,160,076.88	5,110,946.53	5,188,507.46	5,222,039.53	5,080,349.51	5,200,853.78

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

Table 1(a) USA_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	5,744,646.71	5,351,228.23	5,529,210.03	5,390,268.08	5,181,104.03	5,331,493.21	0.09
A. Fuel combustion (sectoral approach)	5,707,239.18	5,314,371.00	5,492,723.47	5,350,249.75	5,141,279.91	5,287,684.00	0.09
1. Energy industries	2,360,081.44	2,145,658.09	2,258,398.80	2,157,687.79	2,022,181.30	2,039,750.45	0.12
2. Manufacturing industries and construction	802,534.85	727,724.09	775,673.58	774,101.28	784,226.67	817,252.40	-0.03
3. Transport	1,770,523.76	1,697,904.51	1,710,256.75	1,692,889.88	1,681,774.13	1,701,636.51	0.18
4. Other sectors	571,117.04	559,866.87	554,928.53	548,232.99	480,192.79	550,323.50	-0.01
5. Other	202,982.08	183,217.45	193,465.82	177,337.81	172,905.02	178,721.15	-0.12
B. Fugitive emissions from fuels	37,407.53	36,857.22	36,486.57	40,018.33	39,824.13	43,809.21	0.04
1. Solid fuels	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	IE, NE, NO	NA
2. Oil and natural gas and other emissions from energy production	37,407.53	36,857.22	36,486.57	40,018.33	39,824.13	43,809.21	0.04
C. CO2 transport and storage	NA	NA	NA	NA	NA	NA	NA
2. Industrial processes	182,702.60	141,126.07	165,736.77	169,726.54	166,358.80	162,979.42	-0.21
A. Mineral industry	64,293.08	50,562.12	56,819.17	57,723.26	59,126.40	56,903.57	0.08
B. Chemical industry	43,804.68	41,587.20	47,062.57	45,141.80	45,548.33	46,791.88	0.05
C. Metal industry	74,604.85	48,976.75	61,855.02	66,861.48	61,684.06	59,283.97	-0.46
D. Non-energy products from fuels and solvent use	NA	NA	NA	NA	NA	NA	NA
E. Electronic industry							
F. Product uses as ODS substitutes							
G. Other product manufacture and use	NA	NA	NA	NA	NA	NA	NA
H. Other	NA	NA	NA	NA	NA	NA	NA
3. Agriculture	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE	NA, IE	NA
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	IE	IE	IE	IE	IE	IE	NA
H. Urea application	IE	IE	IE	IE	IE	IE	NA
I. Other carbon-containing fertilizers	NA	NA	NA	NA	NA	NA	NA
J. Other	NA	NA	NA	NA	NA	NA	NA
4. Land Use, Land-Use Change and Forestry	-884,924.10	-862,630.58	-862,025.11	-872,102.74	-869,580.31	-871,025.91	0.13
A. Forest land	-790,901.58	-764,870.62	-765,410.02	-773,843.36	-773,110.02	-775,676.69	0.21
B. Cropland	-3,232.74	-4,055.22	-1,111.96	-1,588.06	1,105.83	2,628.99	-1.08
C. Grassland	2,765.37	2,787.27	2,800.45	2,808.95	2,749.06	3,325.71	-1.36
D. Wetlands	1,000.52	1,023.66	1,022.17	925.71	812.36	769.85	-0.27
E. Settlements	-83,886.86	-85,008.03	-86,129.19	-87,250.36	-88,371.53	-89,492.70	0.48
F. Other land	NE	NE	NE	NE	NE	NE	NA
G. Harvested wood products	IE	IE	IE	IE	IE	IE	NA
H. Other	-10,668.81	-12,507.63	-13,196.56	-13,155.63	-12,765.99	-12,581.07	-0.52
5. Waste	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	IE, NE, NA	NA
A. Solid waste disposal	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA, NE	NA
B. Biological treatment of solid waste							
C. Incineration and open burning of waste	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	IE, NA	NA
D. Waste water treatment and discharge							
E. Other	NA	NA	NA	NA	NA	NA	NA
6. Other (as specified in the summary table in CRF)	NA	NA	NA	NA	NA	NA	NA
Memo items:							
International bunkers	114,341.85	106,410.32	116,992.25	111,660.01	105,805.43	99,762.82	-0.04
Aviation	56,145.71	52,785.00	60,967.34	64,789.87	64,523.98	65,663.51	0.73
Navigation	58,196.14	53,625.32	56,024.90	46,870.13	41,281.45	34,099.31	-0.48
Multilateral operations	IE	IE	IE	IE	IE	IE	NA
CO2 emissions from biomass	254,671.71	250,491.37	265,109.74	268,063.82	267,730.05	283,337.09	0.29
CO2 captured	NA	NA	NA	NA	NA	NA	NA
Long-term storage of C in waste disposal sites	NA	NA	NA	NA	NA	NA	NA
Indirect N2O							
Indirect CO2 (3)	NA	NA	NA	NA	NA	NA	NA
Total CO2 equivalent emissions without land use, land-use change and forestry	5,927,349.32	5,492,354.29	5,694,946.80	5,559,994.62	5,347,462.83	5,494,472.63	0.07
Total CO2 equivalent emissions with land use, land-use change and forestry	5,042,425.22	4,629,723.71	4,832,921.69	4,687,891.87	4,477,882.52	4,623,446.72	0.06
Total CO2 equivalent emissions, including indirect CO2, without land use, land-use change and forestry	5,927,349.32	5,492,354.29	5,694,946.80	5,559,994.62	5,347,462.83	5,494,472.63	0.07
Total CO2 equivalent emissions, including indirect CO2, with land use, land-use change and forestry	5,042,425.22	4,629,723.71	4,832,921.69	4,687,891.87	4,477,882.52	4,623,446.72	0.06

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) USA_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	13,139.19	13,139.19	13,111.64	12,984.70	12,488.84	12,606.48	12,415.00	12,467.72	12,339.55
A. Fuel combustion (sectoral approach)	564.86	564.86	566.36	577.51	551.66	539.59	533.80	538.33	498.58
1. Energy industries	13.25	13.25	13.23	13.33	13.89	14.17	14.30	14.68	15.19
2. Manufacturing industries and construction	82.91	82.91	80.94	83.41	84.14	87.57	89.11	90.83	92.35
3. Transport	215.70	215.70	209.88	208.80	205.29	201.11	195.08	187.11	179.58
4. Other sectors	251.11	251.11	260.16	269.73	246.01	234.18	232.98	243.52	209.21
5. Other	1.89	1.89	2.14	2.24	2.32	2.55	2.33	2.19	2.25
B. Fugitive emissions from fuels	12,574.33	12,574.33	12,545.28	12,407.18	11,937.18	12,066.90	11,881.20	11,929.39	11,840.97
1. Solid fuels	4,147.46	4,147.46	4,020.16	3,942.81	3,418.44	3,491.12	3,448.17	3,441.85	3,377.06
2. Oil and natural gas and other emissions from energy production	8,426.87	8,426.87	8,525.12	8,464.37	8,518.75	8,575.78	8,433.03	8,487.54	8,463.91
C. CO2 transport and storage									
2. Industrial processes	56.38	56.38	51.26	53.68	56.87	58.40	59.90	59.21	60.36
A. Mineral industry	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical industry	10.14	10.14	10.21	9.64	12.07	12.51	12.62	13.27	14.27
C. Metal industry	46.24	46.24	41.04	44.05	44.79	45.90	47.28	45.93	46.09
D. Non-energy products from fuels and solvent use	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Electronic industry	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Product uses as ODS substitutes	NA	NA	NA	NA	NA	NA	NA	NA	NA
G. Other product manufacture and use	NA	NA	NA	NA	NA	NA	NA	NA	NA
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Agriculture	8,431.45	8,431.45	8,502.03	8,684.97	8,806.27	9,102.52	9,281.32	9,173.66	9,149.44
A. Enteric fermentation	6,566.15	6,566.15	6,575.92	6,767.08	6,864.27	6,988.55	7,146.17	7,099.62	6,965.27
B. Manure management	1,486.18	1,486.18	1,555.20	1,500.35	1,569.07	1,678.67	1,731.38	1,703.56	1,786.47
C. Rice cultivation	366.37	366.37	360.37	405.45	361.20	422.92	392.44	357.74	385.32
D. Agricultural soils	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Prescribed burning of savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Field burning of agricultural residues	12.74	12.74	10.55	12.10	11.74	12.39	11.33	12.74	12.38
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	101.24	101.24	88.10	133.57	81.80	250.57	138.68	401.49	76.11
A. Forest land	101.01	101.01	87.88	133.37	81.59	250.38	138.46	401.31	75.89
B. Cropland	NA	NA	NA	NA	NA	NA	NA	NA	NA
C. Grassland	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Wetlands	0.24	0.24	0.22	0.21	0.21	0.20	0.22	0.18	0.22
E. Settlements	NE	NE	NE	NE	NE	NE	NE	NE	NE
F. Other land	NE	NE	NE	NE	NE	NE	NE	NE	NE
G. Harvested wood products									
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Waste	8,091.46	8,091.46	8,205.37	8,281.94	8,318.88	8,321.25	8,111.95	7,929.06	7,630.70
A. Solid waste disposal	7,449.89	7,449.89	7,551.93	7,614.40	7,646.77	7,636.64	7,421.74	7,235.59	6,928.21
B. Biological treatment of solid waste	15.24	15.24	17.42	19.60	25.04	30.77	34.84	39.59	43.80
C. Incineration and open burning of waste	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE
D. Waste water treatment and discharge	626.33	626.33	636.02	647.95	647.07	653.83	655.37	653.88	658.69
E. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
6. Other (as specified in the summary table in CRF)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total CH4 emissions without CH4 from LULUCF	29,718.47	29,718.47	29,870.30	30,005.29	29,670.86	30,088.66	29,868.16	29,629.65	29,180.05
Total CH4 emissions with CH4 from LULUCF	29,819.72	29,819.72	29,958.40	30,138.87	29,752.67	30,339.23	30,006.84	30,031.14	29,256.16
Memo items:									
International bunkers	6.53	6.53	7.11	6.10	5.08	4.82	4.85	4.86	5.24
Aviation	NO	NO	NO	NO	NO	NO	NO	NO	NO
Navigation	6.53	6.53	7.11	6.10	5.08	4.82	4.85	4.86	5.24
Multilateral operations	IE	IE	IE	IE	IE	IE	IE	IE	IE
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) USA_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	12,083.23	11,749.66	11,817.40	11,725.89	11,397.24	11,392.24	11,385.66	11,236.94	11,235.03	11,185.33
A. Fuel combustion (sectoral approach)	463.04	457.55	463.15	441.56	422.63	422.72	422.31	416.27	388.97	393.10
1. Energy industries	16.18	16.31	17.19	17.09	17.26	17.35	17.76	18.50	18.24	19.03
2. Manufacturing industries and construction	87.47	86.80	87.39	83.03	80.55	80.17	84.73	83.55	85.28	82.70
3. Transport	171.35	159.46	150.91	149.46	130.54	120.66	113.98	106.14	99.04	89.34
4. Other sectors	185.80	192.66	205.27	188.78	191.45	201.36	202.51	204.90	183.24	199.21
5. Other	2.25	2.33	2.39	3.20	2.83	3.18	3.33	3.18	3.17	2.82
B. Fugitive emissions from fuels	11,620.19	11,292.11	11,354.25	11,284.33	10,974.61	10,969.52	10,963.35	10,820.67	10,846.06	10,792.24
1. Solid fuels	3,358.33	3,180.47	3,080.63	3,038.58	2,845.72	2,845.14	2,887.37	2,828.72	2,883.10	2,844.74
2. Oil and natural gas and other emissions from energy production	8,261.86	8,111.64	8,273.62	8,245.75	8,128.88	8,124.38	8,075.97	7,991.95	7,962.96	7,947.50
C. CO2 transport and storage										
2. Industrial processes	59.34	56.24	57.20	51.31	49.52	49.10	50.94	40.48	38.27	36.72
A. Mineral industry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical industry	14.54	13.20	12.81	12.33	12.30	11.54	11.93	6.02	3.23	3.09
C. Metal industry	44.80	43.04	44.39	38.98	37.22	37.56	39.01	34.46	35.03	33.63
D. Non-energy products from fuels and solvent use	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Electronic industry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Product uses as ODS substitutes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G. Other product manufacture and use	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Agriculture	9,260.20	9,309.02	9,221.45	9,278.99	9,301.25	9,344.20	9,197.61	9,374.89	9,460.05	9,790.34
A. Enteric fermentation	6,891.22	6,896.90	6,823.69	6,783.65	6,793.81	6,801.49	6,674.00	6,754.76	6,863.11	6,979.13
B. Manure management	1,948.90	1,971.59	2,000.51	2,088.41	2,141.46	2,174.86	2,122.18	2,253.50	2,278.08	2,480.42
C. Rice cultivation	407.62	428.54	384.91	395.54	355.23	356.23	390.89	357.86	307.80	319.53
D. Agricultural soils	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
E. Prescribed burning of savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Field burning of agricultural residues	12.46	11.99	12.34	11.38	10.74	11.62	10.54	8.77	11.06	11.26
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	103.61	373.11	505.92	278.59	420.36	267.26	148.59	331.88	742.92	600.37
A. Forest land	103.38	372.86	505.66	278.35	420.15	267.05	148.35	331.65	742.73	600.16
B. Cropland	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C. Grassland	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Wetlands	0.23	0.24	0.26	0.24	0.21	0.21	0.24	0.23	0.19	0.21
E. Settlements	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
F. Other land	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
G. Harvested wood products										
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Waste	7,326.49	7,142.87	7,043.17	6,914.41	6,967.81	7,236.06	7,149.16	7,329.63	7,333.62	7,358.36
A. Solid waste disposal	6,619.60	6,426.86	6,324.07	6,206.90	6,259.76	6,527.35	6,441.31	6,619.80	6,623.14	6,644.84
B. Biological treatment of solid waste	47.68	53.42	59.69	60.06	60.75	69.24	74.28	74.57	75.41	78.78
C. Incineration and open burning of waste	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE
D. Waste water treatment and discharge	659.21	662.60	659.41	647.46	647.30	639.47	633.57	635.26	635.07	634.73
E. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6. Other (as specified in the summary table in CRF)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total CH4 emissions without CH4 from LULUCF	28,729.26	28,257.79	28,139.22	27,970.60	27,715.82	28,021.60	27,783.37	27,981.94	28,066.97	28,370.76
Total CH4 emissions with CH4 from LULUCF	28,832.87	28,630.90	28,645.14	28,249.19	28,136.18	28,288.87	27,931.96	28,313.82	28,809.89	28,971.13
Memo items:										
International bunkers	5.63	4.51	3.96	3.73	3.98	4.31	5.21	5.29	5.38	5.38
Aviation	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Navigation	5.63	4.51	3.96	3.73	3.98	4.31	5.21	5.29	5.38	5.38
Multilateral operations	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
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) USA_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	11,600.55	11,419.32	11,167.87	10,729.34	10,366.35	10,540.93	-0.20
A. Fuel combustion (sectoral approach)	393.56	388.67	375.20	373.77	352.17	403.71	-0.29
1. Energy industries	18.59	17.37	18.35	17.30	16.93	17.05	0.29
2. Manufacturing industries and construction	78.15	69.98	74.74	75.12	75.64	75.20	-0.09
3. Transport	81.34	78.30	76.90	75.30	72.02	69.37	-0.68
4. Other sectors	212.97	220.29	202.29	203.57	185.24	240.20	-0.04
5. Other	2.52	2.73	2.91	2.47	2.33	1.87	-0.01
B. Fugitive emissions from fuels	11,206.99	11,030.65	10,792.67	10,355.58	10,014.18	10,137.22	-0.19
1. Solid fuels	3,278.80	3,448.73	3,556.56	3,106.05	2,906.69	2,832.99	-0.32
2. Oil and natural gas and other emissions from energy production	7,928.19	7,581.92	7,236.11	7,249.53	7,107.49	7,304.23	-0.13
C. CO2 transport and storage							
2. Industrial processes	33.72	20.17	27.41	30.28	32.75	31.86	-0.43
A. Mineral industry	NA	NA	NA	NA	NA	NA	NA
B. Chemical industry	2.45	2.39	2.42	2.19	2.96	3.70	-0.63
C. Metal industry	31.27	17.78	24.98	28.10	29.79	28.16	-0.39
D. Non-energy products from fuels and solvent use	NA	NA	NA	NA	NA	NA	NA
E. Electronic industry	NA	NA	NA	NA	NA	NA	NA
F. Product uses as ODS substitutes	NA	NA	NA	NA	NA	NA	NA
G. Other product manufacture and use	NA	NA	NA	NA	NA	NA	NA
H. Other	NA	NA	NA	NA	NA	NA	NA
3. Agriculture	9,779.67	9,685.16	9,736.20	9,557.72	9,585.40	9,381.04	0.11
A. Enteric fermentation	6,953.22	6,908.22	6,843.90	6,749.71	6,653.42	6,581.18	0.00
B. Manure management	2,443.25	2,387.51	2,436.85	2,456.88	2,548.35	2,455.57	0.65
C. Rice cultivation	370.34	377.68	443.98	338.99	371.60	331.82	-0.09
D. Agricultural soils	NA	NA	NA	NA	NA	NA	NA
E. Prescribed burning of savannas	NA	NA	NA	NA	NA	NA	NA
F. Field burning of agricultural residues	12.85	11.75	11.47	12.14	12.03	12.46	-0.02
G. Liming							
H. Urea application							
I. Other carbon-containing fertilizers							
J. Other	NA	NA	NA	NA	NA	NA	NA
4. Land use, land-use change and forestry	362.64	233.61	190.10	583.98	626.62	233.41	1.31
A. Forest land	362.43	233.39	189.88	583.79	626.45	233.25	1.31
B. Cropland	NA	NA	NA	NA	NA	NA	NA
C. Grassland	NA	NA	NA	NA	NA	NA	NA
D. Wetlands	0.21	0.21	0.21	0.19	0.17	0.16	-0.33
E. Settlements	NE	NE	NE	NE	NE	NE	NA
F. Other land	NE	NE	NE	NE	NE	NE	NA
G. Harvested wood products							
H. Other	NA	NA	NA	NA	NA	NA	NA
5. Waste	7,339.95	7,021.32	5,565.13	5,535.84	5,294.19	5,265.28	-0.35
A. Solid waste disposal	6,624.74	6,323.50	4,872.83	4,850.92	4,610.65	4,585.45	-0.38
B. Biological treatment of solid waste	80.20	75.30	73.19	74.64	77.40	78.53	4.15
C. Incineration and open burning of waste	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	IE, NE	NA
D. Waste water treatment and discharge	635.01	622.52	619.11	610.28	606.13	601.29	-0.04
E. Other	NA	NA	NA	NA	NA	NA	NA
6. Other (as specified in the summary table in CRF)	NA	NA	NA	NA	NA	NA	NA
Total CH4 emissions without CH4 from LULUCF	28,753.89	28,145.97	26,496.60	25,853.19	25,278.69	25,219.11	-0.15
Total CH4 emissions with CH4 from LULUCF	29,116.53	28,379.58	26,686.70	26,437.18	25,905.30	25,452.51	-0.15
Memo items:							
International bunkers	5.81	5.36	5.59	4.68	4.12	3.17	-0.51
Aviation	NO	NO	NO	NO	NO	NO	NA
Navigation	5.81	5.36	5.59	4.68	4.12	3.17	-0.51
Multilateral operations	IE	IE	IE	IE	IE	IE	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) USA_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	179.84	179.84	185.64	196.45	203.90	210.80	215.44	219.83	222.48
A. Fuel combustion (sectoral approach)	179.84	179.84	185.64	196.45	203.90	210.80	215.44	219.83	222.48
1. Energy industries	24.72	24.72	24.67	24.86	25.92	26.44	26.67	27.38	27.90
2. Manufacturing industries and construction	13.52	13.52	13.23	13.65	13.74	14.28	14.48	14.80	15.03
3. Transport	135.11	135.11	141.33	151.25	157.95	163.86	168.12	171.26	173.75
4. Other sectors	4.72	4.72	4.86	4.94	4.61	4.44	4.39	4.63	4.12
5. Other	1.77	1.77	1.54	1.74	1.68	1.78	1.78	1.76	1.67
B. Fugitive emissions from fuels	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE
1. Solid fuels	NA	NA	NA	NA	NA	NA	NA	NA	NA
2. Oil and natural gas and other emissions from energy production	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE
C. CO2 transport and storage									
2. Industrial processes	105.97	105.97	104.53	98.41	103.92	105.10	116.95	118.28	96.05
A. Mineral industry	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical industry	91.64	91.64	90.60	85.27	88.97	90.13	101.95	103.27	80.05
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	0.12	0.12	0.12	0.12	0.15	0.17	0.20	0.22	0.27
F. Product uses as ODS substitutes	NA	NA	NA	NA	NA	NA	NA	NA	NA
G. Other product manufacture and use	14.21	14.21	13.81	13.02	14.80	14.80	14.80	14.80	15.74
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Agriculture	798.38	798.38	878.04	838.46	897.41	832.37	884.66	938.58	917.80
A. Enteric fermentation									
B. Manure management	46.32	46.32	47.04	47.16	46.49	48.93	50.22	50.04	50.68
C. Rice cultivation									
D. Agricultural soils	751.73	751.73	830.72	790.98	850.61	783.11	834.15	888.21	866.79
E. Prescribed burning of savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Field burning of agricultural residues	0.33	0.33	0.28	0.32	0.30	0.33	0.30	0.34	0.33
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	10.44	10.44	9.82	12.87	10.91	20.93	14.38	29.45	11.59
A. Forest land	5.86	5.86	5.13	7.77	5.08	14.42	8.51	23.42	5.53
B. Cropland	NA	NA	NA	NA	NA	NA	NA	NA	NA
C. Grassland	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Settlements	4.58	4.58	4.69	5.10	5.83	6.50	5.86	6.02	6.06
F. Other land	NE	NE	NE	NE	NE	NE	NE	NE	NE
G. Harvested wood products									
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Waste	12.41	12.41	12.85	13.44	13.90	14.73	15.09	15.67	16.03
A. Solid waste disposal									
B. Biological treatment of solid waste	1.14	1.14	1.31	1.47	1.88	2.31	2.61	2.97	3.28
C. Incineration and open burning of waste	IE	IE	IE	IE	IE	IE	IE	IE	IE
D. Waste water treatment and discharge	11.27	11.27	11.54	11.97	12.02	12.43	12.48	12.70	12.74
E. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA
6. Other (as specified in the summary table in CRF)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total direct N2O emissions without N2O from LULUCF	1,096.88	1,096.88	1,181.33	1,147.15	1,219.69	1,163.58	1,233.00	1,293.59	1,253.70
Total direct N2O emissions with N2O from LULUCF	1,107.05	1,107.05	1,190.87	1,159.63	1,230.03	1,183.93	1,246.52	1,321.81	1,263.96
Memo items:									
International bunkers	2.88	2.88	3.29	3.04	2.79	2.77	2.83	2.87	3.04
Aviation	1.22	1.22	1.48	1.49	1.50	1.55	1.60	1.63	1.71
Navigation	1.66	1.66	1.81	1.55	1.29	1.22	1.23	1.23	1.33
Multilateral operations	IE	IE	IE	IE	IE	IE	IE	IE	IE
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) USA_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	223.17	222.22	222.95	216.23	211.19	205.14	203.28	197.11	187.82	171.94
A. Fuel combustion (sectoral approach)	223.17	222.22	222.95	216.23	211.19	205.14	203.28	197.11	187.82	171.94
1. Energy industries	29.13	29.75	32.29	34.11	40.25	44.33	49.47	53.68	54.41	56.07
2. Manufacturing industries and construction	14.33	14.27	14.39	14.10	13.78	13.83	14.56	14.46	14.81	14.41
3. Transport	174.47	172.85	170.58	162.45	151.67	141.17	133.38	123.17	113.24	95.96
4. Other sectors	3.67	3.84	4.09	3.89	3.84	4.08	4.12	4.07	3.63	3.87
5. Other	1.56	1.51	1.60	1.69	1.64	1.72	1.75	1.72	1.72	1.63
B. Fugitive emissions from fuels	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE
1. Solid fuels	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2. Oil and natural gas and other emissions from energy production	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE
C. CO2 transport and storage										
2. Industrial processes	80.84	77.70	78.34	67.18	70.16	69.60	63.42	76.45	80.53	93.47
A. Mineral industry	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B. Chemical industry	64.85	61.68	62.27	51.21	55.77	55.15	48.92	61.89	65.85	78.66
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	0.24	0.28	0.33	0.24	0.24	0.30	0.35	0.41	0.53	0.66
F. Product uses as ODS substitutes	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
G. Other product manufacture and use	15.74	15.74	15.74	15.74	14.15	14.15	14.15	14.15	14.15	14.15
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Agriculture	868.73	839.67	768.60	858.31	831.14	802.60	888.42	872.84	847.69	935.65
A. Enteric fermentation										
B. Manure management	51.44	53.44	54.85	54.50	55.71	56.16	54.10	55.08	57.60	57.96
C. Rice cultivation										
D. Agricultural soils	816.96	785.91	713.42	803.50	775.14	746.15	834.03	817.50	789.79	877.37
E. Prescribed burning of savannas	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
F. Field burning of agricultural residues	0.33	0.32	0.33	0.31	0.29	0.29	0.29	0.26	0.30	0.33
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	12.43	28.21	36.56	24.71	32.86	24.54	17.91	27.74	50.60	43.02
A. Forest land	7.19	22.64	29.71	17.14	25.12	16.54	9.74	19.88	42.62	34.73
B. Cropland	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C. Grassland	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
D. Wetlands	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E. Settlements	5.24	5.56	6.85	7.57	7.74	8.00	8.17	7.86	7.98	8.29
F. Other land	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
G. Harvested wood products										
H. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5. Waste	16.68	17.62	18.32	18.30	18.70	19.52	20.25	20.11	20.66	21.16
A. Solid waste disposal										
B. Biological treatment of solid waste	3.58	4.01	4.48	4.50	4.56	5.19	5.57	5.59	5.66	5.91
C. Incineration and open burning of waste	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
D. Waste water treatment and discharge	13.10	13.61	13.85	13.79	14.14	14.33	14.68	14.52	15.01	15.25
E. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
6. Other (as specified in the summary table in CRF)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total direct N2O emissions without N2O from LULUCF	1,190.88	1,159.24	1,089.95	1,161.76	1,133.06	1,098.62	1,176.90	1,168.04	1,138.24	1,223.76
Total direct N2O emissions with N2O from LULUCF	1,201.84	1,185.42	1,124.77	1,184.73	1,164.04	1,121.39	1,193.27	1,194.25	1,187.31	1,265.25
Memo items:										
International bunkers	3.13	2.95	3.01	2.76	2.77	2.87	3.13	3.28	3.31	3.35
Aviation	1.70	1.81	2.00	1.82	1.76	1.78	1.81	1.94	1.94	1.98
Navigation	1.43	1.14	1.01	0.95	1.01	1.09	1.32	1.34	1.37	1.37
Multilateral operations	IE	IE	IE	IE	IE	IE	IE	IE	IE	IE
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) USA_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	159.86	152.18	155.12	148.04	140.65	139.66	-0.22
A. Fuel combustion (sectoral approach)	159.86	152.18	155.12	148.04	140.65	139.66	-0.22
1. Energy industries	56.46	56.39	61.94	59.08	59.77	64.13	1.59
2. Manufacturing industries and construction	13.71	12.56	13.31	13.35	13.42	13.50	0.00
3. Transport	84.08	77.57	74.51	70.39	62.70	56.51	-0.58
4. Other sectors	4.07	4.14	3.87	3.85	3.40	4.21	-0.11
5. Other	1.54	1.51	1.49	1.38	1.37	1.31	-0.26
B. Fugitive emissions from fuels	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	NA
1. Solid fuels	NA	NA	NA	NA	NA	NA	NA
2. Oil and natural gas and other emissions from energy production	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	IE, NA, NE	NA
C. CO2 transport and storage							
2. Industrial processes	60.83	55.98	67.51	85.71	68.53	63.94	-0.40
A. Mineral industry	NA	NA	NA	NA	NA	NA	NA
B. Chemical industry	46.09	41.38	52.86	70.77	53.73	49.19	-0.46
C. Metal industry	NA	NA	NA	NA	NA	NA	NA
D. Non-energy products from fuels and solvent use	NA	NA	NA	NA	NA	NA	NA
E. Electronic industry	0.59	0.45	0.49	0.79	0.65	0.61	4.04
F. Product uses as ODS substitutes	NA	NA	NA	NA	NA	NA	NA
G. Other product manufacture and use	14.15	14.15	14.15	14.15	14.15	14.15	0.00
H. Other	NA	NA	NA	NA	NA	NA	NA
3. Agriculture	950.99	943.66	944.30	950.22	950.95	943.40	0.18
A. Enteric fermentation							
B. Manure management	57.29	57.09	57.22	57.96	58.15	58.10	0.25
C. Rice cultivation							
D. Agricultural soils	893.35	886.24	886.75	891.92	892.46	884.94	0.18
E. Prescribed burning of savannas	NA	NA	NA	NA	NA	NA	NA
F. Field burning of agricultural residues	0.35	0.34	0.33	0.33	0.33	0.35	0.07
G. Liming							
H. Urea application							
I. Other carbon containing fertlizers							
J. Other	NA	NA	NA	NA	NA	NA	NA
4. Land use, land-use change and forestry	29.43	21.98	20.00	42.16	44.65	22.53	1.16
A. Forest land	21.58	14.44	12.04	33.83	36.19	14.43	1.46
B. Cropland	NA	NA	NA	NA	NA	NA	NA
C. Grassland	NA	NA	NA	NA	NA	NA	NA
D. Wetlands	0.00	0.00	0.00	0.00	0.00	0.00	-0.30
E. Settlements	7.85	7.53	7.96	8.34	8.47	8.09	0.77
F. Other land	NE	NE	NE	NE	NE	NE	NA
G. Harvested wood products							
H. Other	NA	NA	NA	NA	NA	NA	NA
5. Waste	21.41	21.18	21.34	21.77	22.09	22.40	0.80
A. Solid waste disposal							
B. Biological treatment of solid waste	6.01	5.65	5.49	5.60	5.81	5.89	4.15
C. Incineration and open burning of waste	IE	IE	IE	IE	IE	IE	NA
D. Waste water treatment and discharge	15.40	15.53	15.85	16.18	16.29	16.51	0.46
E. Other	NA	NA	NA	NA	NA	NA	NA
6. Other (as specified in the summary table in CRF)	NA	NA	NA	NA	NA	NA	NA
Total direct N2O emissions without N2O from LULUCF	1,194.62	1,174.53	1,189.79	1,207.28	1,183.75	1,170.93	0.07
Total direct N2O emissions with N2O from LULUCF	1,222.51	1,194.97	1,208.26	1,247.91	1,226.87	1,191.93	0.08
Memo items:							
International bunkers	3.29	3.06	3.39	3.28	3.13	2.92	0.01
Aviation	1.81	1.70	1.97	2.09	2.08	2.12	0.73
Navigation	1.48	1.36	1.42	1.19	1.05	0.80	-0.51
Multilateral operations	IE	IE	IE	IE	IE	IE	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
Indirect CO2 (3)							

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

[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) USA_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)	70,837.69	70,837.69	63,097.77	67,483.16	68,539.91	73,910.39	95,719.66	108,492.96	118,976.69
Emissions of HFCs - (kt CO2 equivalent)	46,582.02	46,582.02	42,185.31	48,002.08	49,055.29	55,945.39	77,079.19	88,625.42	100,709.45
HFC-23	3.13	3.13	2.81	3.12	2.85	2.72	2.84	2.69	2.60
HFC-32	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	0.00	0.00
HFC-41	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-43-10mee	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO
HFC-125	0.00	0.00	0.00	0.00	0.18	0.36	0.73	1.13	1.56
HFC-134	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO
HFC-134a	0.00	0.00	0.00	0.83	3.71	9.06	20.26	27.36	34.55
HFC-143	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO
HFC-143a	0.00	0.00	0.00	0.00	0.08	0.17	0.30	0.46	0.65
HFC-152	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-152a	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-161	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-227ea	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO
HFC-236cb	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-236ea	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-236fa	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	0.01	0.02	0.04	0.04	0.05
HFC-245ca	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO
HFC-245fa	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-365mfc	NA	NA	NA	NA	NA	NA	NA	NA	NA
Unspecified mix of HFCs(4) - (kt CO_2 equivalent)	293.21	293.21	566.90	574.41	583.19	586.05	1,755.73	3,226.70	3,893.47
Emissions of PFCs - (kt CO2 equivalent)	24,255.67	24,255.67	20,912.46	19,481.09	19,484.62	17,965.00	18,640.47	19,867.54	18,267.24
CF_4	2.54	2.54	2.16	1.99	1.96	1.75	1.76	1.87	1.69
C_2F_6	0.45	0.45	0.40	0.39	0.41	0.41	0.46	0.50	0.47
C_3F_8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C_4F_{10}	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO
c-C_4F_8	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO
C_5F_{12}	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO
C_6F_{14}	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO
C10F18	NA	NA	NA	NA	NA	NA	NA	NA	NA
c-C3F6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Unspecified mix of PFCs(4) - (kt CO_2 equivalent)	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO
Unspecified mix of HFCs and PFCs - (kt CO2 equivalent)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Emissions of SF6 - (kt CO2 equivalent)	31,080.41	31,080.41	29,764.56	29,949.82	29,432.65	28,004.25	26,638.17	25,919.91	24,168.02
SF_6	1.36	1.36	1.31	1.31	1.29	1.23	1.17	1.14	1.06
Emissions of NF3 - (kt CO2 equivalent)	47.92	47.92	47.92	47.92	59.90	65.89	83.24	92.43	97.68
NF3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01

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

Table 1(d)

USA_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)	138,106.56	135,968.96	140,823.93	128,895.56	137,786.14	128,354.38	137,025.42	138,018.13	140,507.84	151,492.77
Emissions of HFCs - (kt CO2 equivalent)	121,127.96	119,058.83	124,909.08	120,654.58	127,547.73	120,193.84	130,223.45	131,362.48	134,191.73	143,760.58
HFC-23	3.41	2.64	2.47	1.70	1.82	1.07	1.49	1.37	1.20	1.47
HFC-32	0.00	0.00	0.03	0.07	0.13	0.22	0.34	0.51	0.97	1.49
HFC-41	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO
HFC-43-10mee	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO
HFC-125	1.83	2.12	2.36	2.50	2.63	2.79	2.95	3.15	3.68	4.39
HFC-134	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO
HFC-134a	38.74	43.70	48.41	52.30	54.49	55.57	56.79	57.29	58.50	59.48
HFC-143	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO
HFC-143a	0.84	1.07	1.27	1.49	1.72	1.96	2.17	2.40	2.62	2.83
HFC-152	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-152a	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-227ea	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO
HFC-236cb	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-236ea	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-236fa	0.06	0.08	0.09	0.09	0.10	0.11	0.12	0.12	0.13	0.14
HFC-245ca	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO
HFC-245fa	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HFC-365mfc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Unspecified mix of HFCs(4) - (kt CO_2 equivalent)	4,461.55	4,589.87	4,361.76	4,282.06	4,680.22	5,172.02	5,549.11	5,875.84	6,235.70	6,593.36
Emissions of PFCs - (kt CO2 equivalent)	16,978.60	16,910.13	15,914.84	8,240.98	10,238.41	8,160.54	6,801.96	6,655.66	6,316.11	7,732.18
CF_4	1.48	1.47	1.47	0.67	0.87	0.66	0.53	0.54	0.48	0.65
C_2F_6	0.49	0.50	0.40	0.26	0.30	0.25	0.22	0.20	0.21	0.23
C_3F_8	0.00	0.00	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.01
C_4F_{10}	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO
c-C_4F_8	C, IE, NA, NE, NO	C, IE, NA, NE, NO	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
C_5F_{12}	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO
C_6F_{14}	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO
C10F18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
c-C3F6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Unspecified mix of PFCs(4) - (kt CO_2 equivalent)	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO
Unspecified mix of HFCs and PFCs - (kt CO2 equivalent)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Emissions of SF6 - (kt CO2 equivalent)	21,198.47	20,942.28	17,873.36	17,074.63	16,077.51	15,815.75	14,559.77	14,009.27	12,759.47	11,217.74
SF_6	0.93	0.92	0.78	0.75	0.71	0.69	0.64	0.61	0.56	0.49
Emissions of NF3 - (kt CO2 equivalent)	119.78	121.54	203.73	226.41	552.38	526.00	540.39	482.16	682.32	550.93
NF3	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.03	0.04	0.03

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

Table 1(d)

USA_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)	151,785.08	146,795.92	157,038.32	164,252.64	165,222.47	168,771.19	1.38
Emissions of HFCs - (kt CO2 equivalent)	145,714.55	142,913.24	152,585.91	157,346.36	159,211.39	162,922.11	2.50
HFC-23	1.18	0.47	0.56	0.61	0.39	0.29	-0.91
HFC-32	2.03	2.61	3.85	4.92	6.31	7.73	NA
HFC-41	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	IE, NA, NO	NA
HFC-43-10mee	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	NA
HFC-125	5.24	6.29	8.04	9.62	11.42	13.24	752,024.74
HFC-134	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	NA
HFC-134a	60.56	61.47	60.51	56.94	53.49	49.89	31,183,260.41
HFC-143	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	NA
HFC-143a	3.05	3.46	4.00	4.55	5.09	5.65	271,694.50
HFC-152	NA	NA	NA	NA	NA	NA	NA
HFC-152a	NA	NA	NA	NA	NA	NA	NA
HFC-161	NA	NA	NA	NA	NA	NA	NA
HFC-227ea	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	NA
HFC-236cb	NA	NA	NA	NA	NA	NA	NA
HFC-236ea	NA	NA	NA	NA	NA	NA	NA
HFC-236fa	0.14	0.14	0.15	0.15	0.15	0.15	NA
HFC-245ca	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	C, IE, NA, NO	NA
HFC-245fa	NA	NA	NA	NA	NA	NA	NA
HFC-365mfc	NA	NA	NA	NA	NA	NA	NA
Unspecified mix of HFCs(4) - (kt CO_2 equivalent)	6,960.29	7,362.38	7,761.98	8,178.47	8,584.42	8,993.78	29.67
Emissions of PFCs - (kt CO2 equivalent)	6,070.53	3,882.68	4,452.41	6,906.28	6,011.08	5,849.08	-0.76
CF_4	0.49	0.31	0.33	0.55	0.48	0.48	-0.81
C_2F_6	0.19	0.12	0.15	0.21	0.19	0.18	-0.61
C_3F_8	0.02	0.01	0.01	0.02	0.01	0.01	29.69
C_4F_{10}	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	NA
c-C_4F_8	0.01	0.00	0.00	0.01	0.01	0.01	NA
C_5F_{12}	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	NA
C_6F_{14}	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	C, IE, NA, NE, NO	NA
C10F18	NA	NA	NA	NA	NA	NA	NA
c-C3F6	NA	NA	NA	NA	NA	NA	NA
Unspecified mix of PFCs(4) - (kt CO_2 equivalent)	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA, NE, NO	NA
Unspecified mix of HFCs and PFCs - (kt CO2 equivalent)	NA	NA	NA	NA	NA	NA	NA
Emissions of SF6 - (kt CO2 equivalent)	10,305.02	9,301.94	9,489.73	10,030.87	7,719.90	6,938.46	-0.78
SF_6	0.45	0.41	0.42	0.44	0.34	0.30	-0.78
Emissions of NF3 - (kt CO2 equivalent)	564.92	446.56	521.89	666.94	638.63	560.71	10.70
NF3	0.03	0.03	0.03	0.04	0.04	0.03	10.70

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) USA_BR2_v1.0

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

Party	*United States of America*	
Base year /base period	2005	
Emission reduction target	% of base year/base period 17.00	% of 1990 [b]
Period for reaching target	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] Optional.

Table 2(b) USA_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		2005
CH_4		2005
N_2O		2005
HFCs		2005
PFCs		2005
SF_6		2005
NF_3		2005
Other Gases (specify)		
Sectors covered[b]	Energy	Yes
	Transport[f]	Yes
	Industrial processes[g]	Yes
	Agriculture	Yes
	LULUCF	Yes
	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) USA_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) USA_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	Included
	Contribution of LULUCF is calculated using	Land-based approach

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 USA_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	
ERUs	
AAUs[i]	
Carry-over units[j]	
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 USA_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)*

[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]

[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

Contribution of LULUCF is calculated using comprehensive land-based accounting consistent with the 2006 IPCC Guidelines using a net-net approach.The United States does not currently intend to use international market-based mechanisms to meet its target.The United States is fully committed to reducing emissions in the range of 17 percent below 2005 levels in 2020. The set of actions the President outlined in the Climate Action Plan will put us on a path to achieve this ambitious goal. We have not ascribed a specific margin to the range on one side or the other. The range recognizes the important effect of external factors in determining emissions in a single year. The range is not a conditional commitment, and there are no underlying assumptions.

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)*	
National Program for Light-Duty Vehicle GHG Emissions and CAFE Standards*	Transport	CO_2, N_2O, CH_4, HFCs	Reduce GHG emissions from vehicles.	Regulatory	Implemented	Establishes corporate emissions fuel economy and GHG emission standards for new light-duty vehicles (LDVs) produced for sale in the U.S.	2010	DOT/EPA		236,000
Renewable Fuel Standard*	Transport	CO_2	Increase use of renewable fuels.	Regulatory	Implemented	Increases the share of renewable fuels used in transportation via implementation of the Renewable Fuel Standard Program.	2010	EPA		138,400
National Program for Heavy-Duty Vehicle GHG Emissions and Fuel Efficiency Standards*	Transport	CO_2, N_2O, CH_4, HFCs	Reduce GHG emissions from vehicles.	Regulatory	Implemented	Establishes fuel efficiency and GHG emission standards for work trucks, buses, and other heavy-duty vehicles (HDVs).	2011	DOT/EPA		37,700
SmartWay Transport Partnership	Transport	CO_2	Reduce GHG emissions from movement of goods.	Voluntary Agreement	Implemented	Promotes collaboration with businesses and other stakeholders to decrease climate-related and other emissions from movement of goods.	2004	EPA		43,000
Light-Duty Vehicle Fuel Economy and Environment Label	Transport	CO_2	Provide information to vehicle buyers.	Other (Information)	Implemented	Provides comparable information on new LDVs' fuel economy, energy use, fuel costs, and environmental impacts.	2011	EPA/DOT/DOE		n/a
National Clean Diesel Campaign	Transport	CO_2	Reduce diesel emissions.	Other (Other (Negotiated Agreements))	Implemented	Reduces diesel emissions through the implementation of proven emission control technologies and innovative strategies.	2008	EPA		n/a
Advanced Technology Vehicle Manufacturing Loan Program	Transport	CO_2	Provide loans to advanced vehicle technology manufacturers,	Economic	Implemented	Provides direct loans to qualifying U.S. advanced technology vehicles or component and engineering integration projects.	2008	DOE		2,500
Next Generation Air Transportation Systems	Transport	CO_2	Reduce GHG emissions from the aviation sector.	Other (Research)	Implemented	Achieves more efficient aircraft operations and reduced GHG emissions through airspace, operational, and infrastructure improvements. The Continuous Lower Energy, Emissions, and Noise Program is an element of NextGen.	2004	DOT		1,500
Other Aviation Low-Emission, Fuel Efficiency, and Renewable Fuels Measures	Transport	CO_2	Reduce GHG emissions from the aviation sector.	Economic|Voluntary Agreement|Research	Implemented	Implements strategies that reduce GHG emissions from the aviation sector.	2004– 2006	DOT		n/a
State and Alternative Fuel Provider Fleet Program*	Transport	CO_2	Require fleets to purchase alternative fuel vehicles (AFVs).	Regulatory	Implemented	Requires covered fleets either to acquire AFVs as a percentage of their annual LDV acquisitions or to employ other petroleumreduction methods.	1992	DOE		n/a
Federal Transit, Highway, and Railway Programs	Transport	CO_2	Reduce GHG emissions from the transit and railway sectors.	Fiscal|Voluntary Agreement|Research	Implemented	Helps public transportation providers, railways, and other key stakeholders to implement strategies that reduce GHGs.	1991– 2012	DOT		n/a

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)*	
On-road GHG Assessment Tools	Transport	CO_2	Support state and local strategies to reduce GHG emissions from the transportation sector.	Information	Implemented	Supports and encourages state and local governments to estimate future GHG emissions from the on-road portion of the transportation sector and find strategies to mitigate these effects.	2011	DOT		n/a
Vehicle Technology Deployment (Clean Cities)	Transport	CO_2, CH_4, N_2O	Support the use of alternative fuel vehicles and other petroleum reducing vehicle technologies.	Economic	Implemented	Provides technical assistance, consumer information, industry coordination, tools, knowledge sharing, and cost-shared funding for local and regional projects that mitigate GHG emissions and reduce reliance on petroleum in the transportation sector.	1993	DOE		15,600
Commercial-Scale Integrated Biorefineries	Transport	CO_2	Support the development of commercialscale integrated biorefineries (IBRs).	Economic	Planned	Through industry partnerships, these deployment projects facilitate the development of integrated biorefineries at commercial scale. The six DOE-supported IBRs will have the capacity to produce approximately 160 million gallons of biofuel by 2020, including 60 million gallons of ethanol and 100 million gallons of hydrocarbon fuel.	2009	DOE		800
Energy Efficiency and Conservation Loan Program	Energy	CO_2	Fund energy efficiency.	Other (Economic)	Implemented	Provides loans to finance energy efficiency and conservation projects for commercial, industrial, and residential consumers.	2014	USDA		n/a
Clean Energy Supply Programs	Energy	CO_2	Reduce GHG emissions through green power purchases and combined heat and power (CHP).	Other (Other (Negotiated Agreement))	Implemented	The Green Power Partnership encourages U.S. organizations to voluntarily purchase green power, and the Combined Heat and Power Partnership reduces the environmental impact of power generation by encouraging the use of CHP.	2001	EPA		73,300
Hydroelectric Production Incentive Program	Energy	CO_2	Support the expansion of hydropower energy development at existing dams through an incentive payment procedure.	Economic	Implemented	Makes incentive payments to the owner or operator of a qualified hydroelectric facility based on the number of kilowatt-hours of hydroelectric energy generated by the facility during the incentive period. Only appropriated for one year with a limited budget. DOE only accepted applications for generation produced in calendar year 2013.	2013	DOE		n/a
Onshore Renewable Energy Development Programs	Energy	CO_2	Encourage renewable energy development.	Other (Voluntary Agreement)	Implemented	Provides opportunities for and encourages use of federal public lands for the development of wind, solar, and geothermal energy.	Around 1980	DOI/ BLM		41,500

Table 3 USA_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)*	
Rural Energy for America Program	Energy	CO_2, CH_4	Fund energy efficiency and renewable energy systems.	Other (Economic)	Implemented	Provides grants and loan guarantees to various rural residents, agricultural producers, and rural businesses for energy efficiency and renewable energy systems.	2008	USDA		17,500
CCS Demonstration and Large-Scale Geologic Storage Cooperative Agreements	Energy	CO_2	Fund expansion of biofuels.	Economic	Implemented	Supports expansion of biofuels by providing payments to biorefineries and biofuel producers, and providing loan guarantees for biorefineries. Programs include the Bioenergy Program for Advanced Biofuels, Biorefinery Assistance Program, and Repowering Assistance Program.	2009	USDA		17,250
Biofuel Regional Feedstock Partnerships	Energy	CO_2	Support supply of biomass feedstocks.	Economic	Implemented	Identifies and analyzes feedstock supply and regional logistics, and conducts crop field trials to address barriers to the development of a sustainable and predictable supply of biomass feedstocks.	2002	DOE		n/a
Offshore Renewable Energy Program—Bureau of Ocean Energy Management*	Energy	CO_2	Encourage renewable energy development.	Regulatory	Implemented	Advances a sustainable Outer Continental Shelf renewable energy future through site planning and environmentally responsible operations and energy generation.	2009	DOI/ BOEM		n/a
Enhanced Geothermal Systems Demonstration Projects	Energy	CO_2	Support the development and deployment of enhanced geothermal systems through demonstration project funding.	Other (Deployment)	Implemented	Shares implementation models among participants, including state and local governments, as a part of its broader efforts.	n/a	DOE		n/a
Clean Power Plan*	Energy	CO_2	Reduce carbon pollution from new and existing power plants.	Regulatory	Adopted	Sets GHG standards for existing and new fossil fuel-fired electric generating units (under section 111 of the Clean Air Act), and for existing plants also sets forth state-specific emission goals reflecting the emission standards, along with guidelines for the development, submittal, and implementation of state plans to achieve the CO2 emission standards.	2022	EPA, states, and tribal lands		n/a

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)*	
Offshore Wind Demonstration Projects	Energy	CO_2	Support the development and deployment of offshore wind energy systems through demonstration project funding.	Other (Deployment)	Implemented	Designed to reduce the cost of offshore wind energy through the development and deployment of innovative technologies, in order to develop offshore wind systems ready for commercial operation in U.S. waters. The demonstrations will help address key challenges associated with installing full-scale offshore wind turbines, connecting offshore turbines to the power grid, and navigating new permitting and approval processes.	2012	DOE		n/a
Regional Carbon Sequestration Partnerships (RCSPs)	Energy	CO_2	Support largescale field tests for validating basic science approaches to geologic carbon storage.	Economic	Implemented	RCSPs are tasked to determine the best geologic storage approaches and apply technologies to safely and permanently store CO2 for their specific regions. Geographical differences in fossil fuel use and storage opportunities across North America dictate regional approaches to storage of CO2 and other GHGs. The RCSPs are focusing on the carbon capture and storage opportunities within their specific regions, while collectively building an effective and robust nationwide initiative.	2008	DOE		n/a
Appliance, Equipment, and Lighting Energy Efficiency Standards*	Energy	CO_2	Establish minimum energy conservation requirements.	Regulatory	Implemented	Establishes minimum energy conservation standards for more than 60 categories of appliances and equipment.	1987	DOE		216,000
ENERGY STAR Labeled Products	Energy	CO_2	Reduce GHG emissions through energy efficient products.	Voluntary Agreement	Implemented	Labels distinguish energy-efficient products in the marketplace.	1992	EPA/ DOE		141,200
ENERGY STAR Commercial Buildings	Energy	CO_2	Reduce GHG emissions through energy efficient buildings.	Voluntary Agreement	Implemented	Promotes improvement in energy performance in commercial buildings.	1995	EPA		93,500
ENERGY STAR for Industry	Energy	CO_2	Reduce GHG emissions through energy efficient industrial plants.	Voluntary Agreement	Implemented	Promotes improvement in energy performance across industry.	1995	EPA		36,600

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)*	
ENERGY STAR Certified New Homes	Energy	CO_2	Reduce GHG emissions through energy efficient new homes.	Voluntary Agreement	Implemented	Promotes improvement in energy performance in residential buildings beyond the labeling of products.	1995	EPA		3,800
Home Performance with ENERGY STAR	Energy	CO_2	Encourage energy efficiency improvements in existing homes.	Economic	Implemented	Provides homeowners with resources to identify trusted contractors for high quality, comprehensive energy audits and residential retrofits.	2002	DOE		56,100
Combined Heat & Power Technical Assistance Partnerships and Industrial Assessment Centers	Energy	CO_2	Encourage energy efficiency in industrial plants.	Economic	Implemented	Provides technical assistance, including energy audits, to increase energy efficiency and reduce costs for CHP plants and industrial processes.	2007	DOE		n/a
National Energy Information Surveys and Analysis	Energy	CO_2	Provide information and analysis critical to understanding energy.	Information	Implemented	The Energy Information Administration collects and publishes national energy data and analysis. For example, end-use consumption data are the basis for benchmarking and measuring energy efficiency, providing policymakers with the tools to develop mitigation policies.	1977	DOE-EIA		n/a
Update Energy Efficient Building Codes and Standards	Energy	CO_2	Support energy efficient investments in federally assisted affordable housing.	Other (Economic)	Implemented	Provides incentives for investing public- and private-sector funds in energy-efficient upgrades in 1.1 million housing units, and meets statutory requirements to update building codes and provide incentives for ENERGY STAR and other above-code green building standards in new federally assisted housing.	2010	HUD/ USDA		n/a
Incentives for Energy Efficient Homeownership	Energy	CO_2	Enable homeowners to improve the efficiency of single family homes.	Economic	Implemented	Implements a suite of energy-efficient mortgage or finance products to assist homeowners to invest in energy efficiency.	1985	HUD		n/a
Renew300 Federal Renewable Energy Target	Energy	CO_2	Triple the adoption of renewable energy in federally assisted housing.	Voluntary Agreement|Economic| Information	Implemented	Sets a target of 300 MW for solar and renewable energy in federally assisted housing.	2014	HUD		n/a

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)*	
Better Buildings Challenge	Energy	CO_2	Establish minimum energy conservation requirements and encourage adoption of sustainable and energy efficient building practices and investments.	Voluntary Agreement|Economic| Information	Implemented	DOE is currently pursuing strategies within four interrelated key areas to catalyze change and investment in energy efficiency: developing innovative, replicable solutions with market leaders; making energy efficiency investment easier; developing a skilled clean energy workforce, including multifamily housing with HUD; and leading by example in the federal government.	2011	DOE/ HUD		n/a
Better Buildings/Better Plants	Energy	CO_2	Support energy efficiency in buildings and industrial facilities.	Economic	Implemented	Shares implementation models among participants, including state and local governments, as a part of its broader efforts.	2011	DOE		n/a
Superior Energy Performance/ISO 50001	Energy	CO_2	Support energy efficiency in the manufacturing sector by providing guidance, tools, and protocols.	Economic	Implemented	Provides guidance, tools, and protocols to facilitate energy efficiency savings and improved energy performance.	2007	DOE		n/a
H2USA	Energy	CO_2	Support the deployment of hydrogen fueled fuel cell electric vehicles, and establish hydrogen fueling infrastructure.	Economic	Implemented	This public–private partnership promotes the commercial introduction and widespread adoption of hydrogen-fueled fuel cell electric vehicles across America. H2USA's mission is to address hurdles to establishing hydrogen-fueling infrastructure, enabling the large-scale adoption of fuel cell electric vehicles.	DOE	DOE		n/a
Better Buildings Alliance	Energy	CO_2	Support energy efficiency in buildings and facilities.	Economic	Implemented	Shares implementation models among participants, including state and local governments, as a part of its broader efforts.	2008	DOE		n/a
Better Building Accelerators	Energy	CO_2	Replicate gains in energy efficiency across the broader marketplace. Convene leaders to rapidly address critical barriers in the market.	Economic	Implemented	DOE convenes a set of seven Better Buildings Accelerators designed to demonstrate specific innovative policies and approaches, which upon successful demonstration will accelerate investment in energy efficiency.	2013	DOE		n/a

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)*	
Significant New Alternatives Policy Program*	Industry/industrial processes	HFCs, PFCs, SF_6	Transition away from ozone depleting chemicals.	Other (Information)	Implemented	Facilitates smooth transition away from ozone-depleting chemicals in industrial and consumer sectors.	1990	EPA		316,868
Federal Air Standards for Oil and Natural Gas Sector*	Industry/industrial processes	CH_4	Reduce volatile organic compound emissions from oil and natural gas sectors.	Regulatory	Adopted	The new source performance standards control volatile organic compound emissions from various sources, substantially reducing methane emissions as a cobenefit.	2012	EPA		47,500
Natural Gas STAR Program	Industry/industrial processes	CH_4	Reduce GHG emissions from oil and natural gas companies.	Other (Information)	Implemented	Works with oil and natural gas companies to promote proven, cost-effective technologies and practices that improve operational efficiency and reduce methane (i.e., natural gas) emissions.	1993	EPA		31,800
Coalbed Methane Outreach Program	Industry/industrial processes	CH_4	Reduce GHG emissions from coal mining.	Other (Information)	Implemented	Voluntary program with the goal of reducing methane emissions from coal mining activities.	1994	EPA		10,530
SF6 Emission Reduction Partnership for Electric Power Systems	Industry/industrial processes	SF_6	Reduce GHG emissions from electric transmission and distribution.	Other (Information)	Implemented	Partners with electric power transmission and distribution companies to reduce emissions of SF6, which is used as a gaseous dielectric in high-voltage circuit breakers and gas-insulated substations.	1999	EPA		4,990
GreenChill Advanced Refrigeration Partnership	Industry/industrial processes	HFCs	Reduce ozone depleting and GHG emissions from supermarkets.	Voluntary Agreement|Other (Negotiated Agreement)|Information|Education	Implemented	Reduces ozone-depleting and GHG refrigerant emissions from supermarkets.	2007	EPA		15,274
Responsible Appliance Disposal Program	Industry/industrial processes	HFCs	Reduce emissions from end-of-life appliances.	Other (Other (Negotiated Agreement))	Implemented	Reduces emissions of refrigerant and foam-blowing agents from end-of-life appliances.	2006	EPA		774
Voluntary Aluminum Industry Partnership	Industry/industrial processes	PFCs	Reduce GHG emissions from the aluminum industry.	Other (Information)	Implemented	Partners with industry to reduce PFCs, tetrafluoromethane, and hexafluoroethane where cost-effective technologies and operational practices are technically feasible.	1995	EPA		400
Voluntary Code of Practice for the Reduction of Emissions of HFC and PFC Fire Protection Agents	Industry/industrial processes	HFCs, PFCs	Reduce GHG emissions from fire protection agents.	Other (Other (Negotiated Agreement))	Implemented	Minimizes nonfire emissions of HFCs and PFCs used as fire-suppression alternatives, and protects people and property from the threat of fire using proven, effective products and systems.	2002	EPA		n/a

Table 3 USA_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)*	
New Source Performance Standards for Petroleum Refineries*	Industry/industrial processes	CO_2	Reduce GHG emissions through flare gas recovery.	Regulatory	Adopted	The new source performance standards require refiners to develop flare management practices to reduce the amount of waste gases flared.	2012	EPA		2,262
Conservation Reserve Program	Agriculture	CO_2	Promote sustainable development.	Other (Information)	Implemented	Encourages farmers to convert highly erodible cropland or other environmentally sensitive acreage.	1985	USDA		39,800
Natural Resources Conservation Service	Agriculture	CO_2, N_2O, CH_4	Promote sustainable development.	Voluntary Agreement|Economic|Information	Implemented	Helps landowners to implement practices or measures that address natural resource concerns.	1935– 2014	USDA		27,600
AgSTAR	Agriculture	CH_4	Reduce GHG emissions using biogas recovery.	Other (Information)	Implemented	Encourages the use of methane recovery technologies at confined animal feeding operations that manage manure as liquids or slurries.	1994	EPA/ USDA		1,070
Woody Biomass Utilization Grants Program	Forestry/LULUCF	CO_2	Promote sustainable development.	Voluntary Agreement|Economic|Information	Implemented	Creates markets for small-diameter woody material and low-valued trees removed from forest restoration activities.	2005	USDA		n/a
Forest Ecosystem Restoration and Hazardous Fuels Reduction Programs	Forestry/LULUCF	CO_2	Promote sustainable development.	Voluntary Agreement	Implemented	Restores the health of the nation’s forests, woodlands, and rangelands.	2003	USDA/DOI		n/a
Biological Carbon Sequestration Assessment	Forestry/LULUCF	CO_2, CH_4, N_2O	Enhance landsector carbon management.	Information	Implemented	Provides decision support and technical assistance to Department of the Interior land management agencies, for example, by developing estimates of the biological carbon sequestration potential of specific environmental restoration projects.	2015	DOI/ USGS		n/a
Retention of Private Forests	Forestry/LULUCF	CO_2	Promote sustainable development.	Voluntary Agreement	Implemented	Maintains the extent and health of the nation’s private forests and woodlands.	1978–2008	USDA		n/a
Landfill Air Regulations*	Waste management/waste	CH_4	Reduce landfill gas emissions.	Regulatory	Implemented	Limits GHG emissions by limiting landfill gas emissions from landfills that are at least 2.5 million megagrams in size. Landfill gas is approximately 50% methane.	1996	EPA		261,885
Landfill Methane Outreach Program	Waste management/waste	CH_4	Reduce GHG emissions at landfills.	Other (Information)	Implemented	Reduces GHG emissions at landfills by supporting the recovery and use of landfill gas for energy.	1994	EPA		18,690
Sustainable Materials Management	Waste management/waste	CO_2	Encourage sustainable materials management.	Voluntary Agreement|Other (Negotiated Agreement)|Information|Education	Implemented	Provides a systemic approach to reduce the use of materials and their associated environmental impacts over their entire life cycle.	2011	EPA		30

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)*	
Wastewise	Waste management/waste	CO_2	Encourage sustainable materials management.	Voluntary Agreement|Other (Negotiated Agreement)|Information|Education	Implemented	Helps organizations and businesses apply sustainable material management practices to reduce municipal and select industrial wastes.	1994	EPA		n/a
Federal Energy Management Program*	Other (Federal Government)	CO_2	Promote energy efficiency and renewable energy in federal facilities.	Regulatory	Implemented	Promotes energy efficiency and renewable energy use in federal buildings, facilities, and operations.	2008	DOE		14,400
National Park Service Programs	Other (Federal Government)	CO_2	Promote climate mitigation and sustainable practices at national parks.	Economic|Voluntary Agreement|Education	Implemented	Supports efforts to mitigate the effects of climate change and integrate sustainable practices.	2003–2012	DOI/ NPS		200
State Energy Program	Cross-cutting	CO_2	Fund energy efficiency and renewable energy state programs.	Economic	Implemented	Provides funding to state energy offices to reduce market barriers to the costeffective adoption of renewable energy and energy efficiency technologies.	1977	DOE		16,200
Energy Efficiency and Conservation Block Grants	Cross-cutting	CO_2	Fund energy efficiency and renewable energy local programs.	Economic	Implemented	Assists eligible entities in implementing strategies that will improve energy efficiency in the transportation, building, and other sectors, and reduce fossil fuel emissions and total energy use.	2009	DOE		4,400
Section 1703/1705 Loan Guarantee Program	Cross-cutting	CO_2	Mitigate risks related to innovative advanced technology investments.	Economic	Implemented	Mitigates the financing risks associated with innovative and, in the case of the Section 1705 Program, some commercial energy projects.	2009	DOE		14,000
Weatherization Assistance Program	Cross-cutting	CO_2, CH_4, N_2O	Fund weatherization services for low-income households.	Economic	Implemented	Provides funding and technical support to states, U.S. territories, and tribes, which in turn work with a network of about 900 local agencies to provide trained crews to perform residential weatherization services for income-eligible households.	1977	DOE		2,200
Indian Energy Policy and Programs/Tribal Energy Program	Cross-cutting	CO_2	Fund energy efficiency and renewable energy produced by tribes.	Economic	Implemented	Provides financial and technical assistance that enables American Indian and Alaska Native tribes to deploy renewable energy resources, reduce their energy costs through efficiency and weatherization, and increase energy security for tribes and villages.	2002	DOE		400

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)*	
Climate Showcase Communities Program	Cross-cutting	CO_2, CH_4	Support local and tribal GHG emissionreduction projects.	Information	Implemented	EPA helps local and tribal governments take steps to reduce GHG emissions by leveraging lessons learned and best practices from the $20 million grants awarded in 2009 and 2010.	2009	EPA		400
Community Renewable Energy Deployment Grants	Cross-cutting	CO_2	Fund small renewable energy projects.	Economic	Implemented	Creates up to a 50% matching grant for the construction of small renewable energy projects that will have commercial electrical generation capacity of less than 15 MW. Types of renewable energy sources include solar, wind, geothermal, ocean, biomass, and landfill gas.	2009	DOE		n/a
Tax Provisions*	Cross-cutting	CO_2	Provide incentives for investments that may reduce GHG emissions.	Economic	Adopted	Provides incentives for AFVs and renewable/ alternative energy production. Encourages energy conservation, production of renewable energy and energy efficiency manufacturing projects, and carbon sequestration. These provisions include the Production Tax Credit and Investment Tax Credit, which provide support for deployment of renewable energy supply.	1992	Treasury		n/a
Interagency Partnership for Sustainable Communities	Cross-cutting	CO_2, CH_4, HFCs, N_2O, NF_3, PFCs, SF_6	Support energyefficient land use and sustainability through cross-agency coordination.	Voluntary Agreement|Economic| Information	Implemented	Helps communities create walkable, healthy, economically vibrant neighborhoods by aligning federal policies for housing, transportation, and the environment.	2009	EPA/DOT/ HUD		n/a
Center for Corporate Climate Leadership	Cross-cutting	CO_2, CH_4, HFCs, N_2O, NF_3, PFCs, SF_6	Support organization-wide GHG measurement and management.	Information	Implemented	Serves as a resource center for organizations interested in GHG measurement and management.	2012	EPA		n/a
Mandatory Greenhouse Gas Reporting Program	Cross-cutting	CO_2, CH_4, HFCs, N_2O, PFCs, SF_6	Collect accurate and timely GHG emissions data at the facility level.	Other (Information)	Implemented	The GHG Reporting Rule requires reporting of GHG emissions from 41 U.S. industry groups that, in general, emit 25,000 metric tons or more of CO2e per year. The reporting program covers 85–90% of total U.S. emissions from approximately 8,000 facilities.	2009	EPA		n/a

Table 3 USA_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)*	
Building Energy Codes*	Energy	CO_2	Support energyefficient building codes.	Regulatory	Implemented	Develops cost-effective building energy codes with adoption and compliance strategies.	1992	DOE		56,100

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

Table 4 USA_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)*
(2005)						
2010						
2011						
2012						
2013						
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

All relevant information on the LULUCF contribution for the United States is contained in Biennial Report Table 1.

Table 4(a)I USA_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					Land-based approach
A. Forest land					Land-based approach
1. Forest land remaining forest land					Land-based approach
2. Land converted to forest land					Land-based approach
3. Other [g]					Land-based approach
B. Cropland					Land-based approach
1. Cropland remaining cropland					Land-based approach
2. Land converted to cropland					Land-based approach
3. Other [g]					Land-based approach
C. Grassland					Land-based approach
1. Grassland remaining grassland					Land-based approach
2. Land converted to grassland					Land-based approach
3. Other [g]					Land-based approach
D. Wetlands					Land-based approach
1. Wetland remaining wetland					Land-based approach
2. Land converted to wetland					Land-based approach
3. Other [g]					Land-based approach
E. Settlements					Land-based approach
1. Settlements remaining settlements					Land-based approach
2. Land converted to settlements					Land-based approach
3. Other [g]					Land-based approach
F. Other land					Land-based approach
1. Other land remaining other land					Land-based approach
2. Land converted to other land					Land-based approach
3. Other [g]					Land-based approach
Harvested wood products					Land-based approach

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

All relevant information on the LULUCF contribution for the United States is contained in Biennial Report Table 1.

Table 4(a)I USA_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					Land-based approach
A. Forest land					Land-based approach
1. Forest land remaining forest land					Land-based approach
2. Land converted to forest land					Land-based approach
3. Other [g]					Land-based approach
B. Cropland					Land-based approach
1. Cropland remaining cropland					Land-based approach
2. Land converted to cropland					Land-based approach
3. Other [g]					Land-based approach
C. Grassland					Land-based approach
1. Grassland remaining grassland					Land-based approach
2. Land converted to grassland					Land-based approach
3. Other [g]					Land-based approach
D. Wetlands					Land-based approach
1. Wetland remaining wetland					Land-based approach
2. Land converted to wetland					Land-based approach
3. Other [g]					Land-based approach
E. Settlements					Land-based approach
1. Settlements remaining settlements					Land-based approach
2. Land converted to settlements					Land-based approach
3. Other [g]					Land-based approach
F. Other land					Land-based approach
1. Other land remaining other land					Land-based approach
2. Land converted to other land					Land-based approach
3. Other [g]					Land-based approach
Harvested wood products					Land-based approach

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

All relevant information on the LULUCF contribution for the United States is contained in Biennial Report Table 1.

Table 4(b) USA_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)		
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 USA_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	2013	2015	2020	2025	2030
Population	*Millions*	250.00	266.00	282.00	296.00	309.00	312.00	317.00	321.00	334.00	347.00	359.00
Real GDP	Billion 2009 dollars	8,955.00	10,175.00	12,560.00	14,234.00	14,784.00	15,021.00	15,710.00	16,553.00	18,801.00	21,295.00	23,894.00
Total primary energy consumption	Quadrillion Btu	84.50	91.00	98.80	100.20	97.50	96.80	97.10	97.90	100.50	100.80	100.30
Energy intensity	Btu per chain-weighted dollar of GDP	9.40	8.90	7.90	7.00	6.60	6.40	6.20	5.90	5.40	4.80	4.20
Natural gas consumption	Dry gas, quadrillion Btu	19.60	22.70	23.80	22.60	24.60	25.00	26.80	27.30	26.10	27.30	29.80
Petroleum consumption	Quadrillion Btu	33.60	34.40	38.30	40.30	35.50	35.90	34.60	36.10	37.00	36.70	36.10
Coal consumption	Quadrillion Btu	19.20	20.10	22.60	22.80	20.80	19.60	18.00	18.10	17.00	15.80	12.80
Vehicle miles travelled, all vehicles	*Billion miles*	2,144.00	2,423.00	2,747.00	2,989.00	2,967.00	2,863.00	2,979.00	3,086.00	3,305.00	3,506.00	3,721.00

[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) USA_BR2_v1.0

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

	GHG emissions and removals[b] *(kt CO_2 eq)*							GHG emission projections (kt CO_2 eq)	
	Base year (2005)	1990	1995	2000	2005	2010	2013	2020	2030
Sector[d,e]									
Energy	4,345,000.00	3,750,000.00	3,936,000.00	4,280,000.00	4,345,000.00	4,097,000.00	3,898,000.00	3,860,000.00	3,657,000.00
Transport	1,929,000.00	1,541,000.00	1,667,000.00	1,862,000.00	1,929,000.00	1,758,000.00	1,739,000.00	1,680,000.00	1,578,000.00
Industry/industrial processes	367,000.00	342,000.00	374,000.00	397,000.00	367,000.00	354,000.00	359,000.00	430,000.00	497,000.00
Agriculture	494,000.00	449,000.00	496,000.00	460,000.00	494,000.00	525,000.00	516,000.00	504,000.00	494,000.00
Forestry/LULUCF	-887,000.00	-762,000.00	-739,000.00	-609,000.00	-887,000.00	-851,000.00	-859,000.00	-1,163,000.00	-1,090,000.00
Waste management/waste	189,000.00	206,000.00	207,000.00	182,000.00	189,000.00	145,000.00	138,000.00	138,000.00	137,000.00
Other (specify)									
Gas									
CO_2 emissions including net CO_2 from LULUCF	5,222,000.00	4,348,000.00	4,696,000.00	5,361,000.00	5,222,000.00	4,833,000.00	4,624,000.00	4,218,000.00	3,976,000.00
CO_2 emissions excluding net CO_2 from LULUCF	6,125,000.00	5,116,000.00	5,442,000.00	5,994,000.00	6,125,000.00	5,695,000.00	5,495,000.00	5,399,000.00	5,084,000.00
CH_4 emissions including CH_4 from LULUCF	708,000.00	745,000.00	750,000.00	716,000.00	708,000.00	667,000.00	636,000.00	670,000.00	682,000.00
CH_4 emissions excluding CH_4 from LULUCF	700,000.00	743,000.00	747,000.00	704,000.00	700,000.00	662,000.00	630,000.00	661,000.00	673,000.00
N_2O emissions including N_2O from LULUCF	356,000.00	330,000.00	372,000.00	335,000.00	356,000.00	360,000.00	355,000.00	338,000.00	334,000.00
N_2O emissions excluding N_2O from LULUCF	348,000.00	327,000.00	367,000.00	324,000.00	348,000.00	354,000.00	349,000.00	329,000.00	325,000.00
HFCs	131,000.00	47,000.00	77,000.00	125,000.00	131,000.00	153,000.00	163,000.00	211,000.00	265,000.00
PFCs	7,000.00	24,000.00	19,000.00	16,000.00	7,000.00	5,000.00	6,000.00	5,000.00	7,000.00
SF_6	14,000.00	31,000.00	27,000.00	18,000.00	14,000.00	10,000.00	7,000.00	9,000.00	10,000.00
Other (specify)									
Total with LULUCF[f]	6,438,000.00	5,525,000.00	5,941,000.00	6,571,000.00	6,438,000.00	6,028,000.00	5,791,000.00	5,451,000.00	5,274,000.00
Total without LULUCF	7,325,000.00	6,288,000.00	6,679,000.00	7,181,000.00	7,325,000.00	6,879,000.00	6,650,000.00	6,614,000.00	6,364,000.00

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) USA_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 (2005)	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

Projections for CO2 sequestration from LULUCF through 2030 in the current measures scenario are presented in the Second U.S. Biennial Report as a range based on alternative high- and low-sequestration scenarios.
However, because the UNFCCC automated submission systemcannot accommodate a range, only the high-sequestration scenario has been included here. Please refer to the report for the full range of projectedU.S. GHG emissions and sinks under the current measures scenario.

Table 7 USA_BR2_v1.0

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

Allocation channels	*Year*									
	American dollar - USD					*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:	2,139,295,000.00	279,550,000.00	123,502,000.00	73,425,289.00	0.00	2,139,295,000.00	279,550,000.00	123,502,000.00	73,425,289.00	0.00
Multilateral climate change funds[g]	62,400,000.00	245,000,000.00	123,502,000.00	65,149,000.00	0.00	62,400,000.00	245,000,000.00	123,502,000.00	65,149,000.00	0.00
Other multilateral climate change funds[h]	0.00	245,000,000.00	86,500,000.00			0.00	245,000,000.00	86,500,000.00		
Multilateral financial institutions, including regional development banks	1,991,581,000.00				0.00	1,991,581,000.00				0.00
Specialized United Nations bodies	85,314,000.00	34,550,000.00		8,276,289.00		85,314,000.00	34,550,000.00		8,276,289.00	
Total contributions through bilateral, regional and other channels		1,948,224,664.25	271,774,355.00				1,948,224,664.25	271,774,355.00		
Total	2,139,295,000.00	2,227,774,664.25	395,276,355.00	73,425,289.00	0.00	2,139,295,000.00	2,227,774,664.25	395,276,355.00	73,425,289.00	0.00

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

International assistance for climate change continues to be a major priority for the United States. The Obama Administration seeks new funding from Congress on an annual basis. Since ratifying the UNFCCC in 1992, U.S. international climate finance increased from virtually zero to around $2.7 billion per year in FYs 2013 and 2014. During the Fast Start Finance period alone (2010–2012), average annual appropriated climate assistance increased four-fold compared with 2009 funding levels.

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 USA_BR2_v1.0

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

Allocation channels	*Year*									
	American dollar - USD					*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:	2,367,599,000.00	258,548,000.00	101,075,000.00	82,720,579.00	0.00	2,367,599,000.00	258,548,000.00	101,075,000.00	82,720,579.00	0.00
Multilateral climate change funds[g]	71,900,000.00	224,048,000.00	101,075,000.00	74,649,000.00	0.00	71,900,000.00	224,048,000.00	101,075,000.00	74,649,000.00	0.00
Other multilateral climate change funds[h]	0.00	224,048,000.00	74,900,000.00			0.00	224,048,000.00	74,900,000.00		
Multilateral financial institutions, including regional development banks	2,208,449,000.00				0.00	2,208,449,000.00				0.00
Specialized United Nations bodies	87,250,000.00	34,500,000.00		8,071,579.00		87,250,000.00	34,500,000.00		8,071,579.00	
Total contributions through bilateral, regional and other channels		2,002,873,694.00	325,721,261.00				2,002,873,694.00	325,721,261.00		
Total	2,367,599,000.00	2,261,421,694.00	426,796,261.00	82,720,579.00	0.00	2,367,599,000.00	2,261,421,694.00	426,796,261.00	82,720,579.00	0.00

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

International assistance for climate change continues to be a major priority for the United States. The Obama Administration seeks new funding from Congress on an annual basis. Since ratifying the UNFCCC in 1992, U.S. international climate finance increased from virtually zero to around $2.7 billion per year in FYs 2013 and 2014. During the Fast Start Finance period alone (2010–2012), average annual appropriated climate assistance increased four-fold compared with 2009 funding levels.

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) USA_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]						
	American dollar - USD	*USD*	*American dollar - USD*	*USD*					
Total contributions through multilateral channels	2,139,295,000.00	2,139,295,000.00	476,477,289.00	476,477,289.00					
Multilateral climate change funds[g]	62,400,000.00	62,400,000.00	433,651,000.00	433,651,000.00					
1. Global Environment Facility	62,400,000.00	62,400,000.00	62,400,000.00	62,400,000.00	Committed	ODA	Grant	Cross-cutting	Cross-cutting
2. Least Developed Countries Fund	0.00	0.00	27,002,000.00	27,002,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting
3. Special Climate Change Fund	0.00	0.00	10,000,000.00	10,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting
4. Adaptation Fund	0.00	0.00	0.00	0.00					
5. Green Climate Fund	0.00	0.00	0.00	0.00					
6. UNFCCC Trust Fund for Supplementary Activities	0.00	0.00	2,749,000.00	2,749,000.00	Committed	ODA	Grant	Cross-cutting	Cross-cutting
7. Other multilateral climate change funds	0.00	0.00	331,500,000.00	331,500,000.00					
Clean Technology Fund	0.00	0.00	196,200,000.00	196,200,000.00	Committed	ODA	Grant	Mitigation	Energy
Scaling-Up Renewable Energy Program in Low-Income Countries	0.00	0.00	11,900,000.00	11,900,000.00	Committed	ODA	Grant	Mitigation	Energy
Pilot Program for Climate Resilience	0.00	0.00	86,500,000.00	86,500,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting
Forest Investment Program	0.00	0.00	11,900,000.00	11,900,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture
Initiative for Sustainable Forest Landscapes	0.00	0.00	25,000,000.00	25,000,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture
Multilateral financial institutions, including regional development banks	1,991,581,000.00	1,991,581,000.00	0.00	0.00					
1. World Bank	1,351,018,000.00	1,351,018,000.00	0.00	0.00	Committed	ODA	Grant		
2. International Finance Corporation	0.00	0.00	0.00	0.00					
3. African Development Bank	194,166,000.00	194,166,000.00	0.00	0.00	Committed	ODA	Grant		
4. Asian Development Bank	196,127,000.00	196,127,000.00	0.00	0.00	Committed	ODA	Grant		
5. European Bank for Reconstruction and Development	0.00	0.00	0.00	0.00					
6. Inter-American Development Bank	107,110,000.00	107,110,000.00	0.00	0.00	Committed	ODA	Grant		
7. Other	143,160,000.00	143,160,000.00	0.00	0.00					
Enterprise for the Americas Multilateral Investment Fund	14,995,000.00	14,995,000.00	0.00	0.00	Committed	ODA	Grant		
Global Agriculture and Food Security Program	128,165,000.00	128,165,000.00			Committed	ODA	Grant		
Specialized United Nations bodies	85,314,000.00	85,314,000.00	42,826,289.00	42,826,289.00					
1. United Nations Development Programme	78,000,000.00	78,000,000.00							
United Nations Development Programme	78,000,000.00	78,000,000.00			Committed	ODA	Grant		
2. United Nations Environment Programme	7,314,000.00	7,314,000.00							
United Nations Environment Programme	7,314,000.00	7,314,000.00			Committed	ODA	Grant		
3. Other	0.00	0.00	42,826,289.00	42,826,289.00					
Intergovernmental Panel on Climate Change	0.00	0.00	4,475,289.00	4,475,289.00	Committed	ODA	Grant	Cross-cutting	Cross-cutting
Montreal Protocol Multilateral Fund	0.00	0.00	34,550,000.00	34,550,000.00	Committed	ODA	Grant	Mitigation	Energy
UNFCCC Core Budget			3,801,000.00	3,801,000.00	Committed	ODA	Grant	Cross-cutting	Cross-cutting

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

Table 7(a) USA_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]						
	American dollar - USD	*USD*	*American dollar - USD*	*USD*					
Total contributions through multilateral channels	2,367,599,000.00	2,367,599,000.00	442,343,579.00	442,343,579.00					
Multilateral climate change funds[g]	71,900,000.00	71,900,000.00	399,772,000.00	399,772,000.00					
1. Global Environment Facility	71,900,000.00	71,900,000.00	71,900,000.00	71,900,000.00	Committed	ODA	Grant	Cross-cutting	Cross-cutting
2. Least Developed Countries Fund	0.00	0.00	26,175,000.00	26,175,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting
3. Special Climate Change Fund	0.00	0.00	0.00	0.00					
4. Adaptation Fund	0.00	0.00	0.00	0.00					
5. Green Climate Fund	0.00	0.00	0.00	0.00					
6. UNFCCC Trust Fund for Supplementary Activities	0.00	0.00	2,749,000.00	2,749,000.00	Committed	ODA	Grant	Cross-cutting	Cross-cutting
7. Other multilateral climate change funds	0.00	0.00	298,948,000.00	298,948,000.00					
Clean Technology Fund	0.00	0.00	209,600,000.00	209,600,000.00	Committed	ODA	Grant	Mitigation	Energy
Pilot Program for Climate Resilience	0.00	0.00	74,900,000.00	74,900,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting
Initiative for Sustainable Landscapes	0.00	0.00	6,948,000.00	6,948,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture
Pilot Auction Facility for Methane and Climate Change Mitigation			7,500,000.00	7,500,000.00	Committed	ODA	Grant	Mitigation	Energy
Multilateral financial institutions, including regional development banks	2,208,449,000.00	2,208,449,000.00	0.00	0.00					
1. World Bank	1,541,957,000.00	1,541,957,000.00	0.00	0.00	Committed	ODA	Grant		
2. International Finance Corporation	0.00	0.00	0.00	0.00					
3. African Development Bank	208,754,000.00	208,754,000.00	0.00	0.00	Committed	ODA	Grant		
4. Asian Development Bank	216,440,000.00	216,440,000.00	0.00	0.00	Committed	ODA	Grant		
5. European Bank for Reconstruction and Development	0.00	0.00	0.00	0.00					
6. Inter-American Development Bank	102,000,000.00	102,000,000.00	0.00	0.00	Committed	ODA	Grant		
7. Other	139,298,000.00	139,298,000.00							
Enterprise for the Americas Multilateral Investment Fund	6,298,000.00	6,298,000.00							
Global Agriculture and Food Security Program	133,000,000.00	133,000,000.00			Committed	ODA	Grant		
Specialized United Nations bodies	87,250,000.00	87,250,000.00	42,571,579.00	42,571,579.00					
1. United Nations Development Programme	80,000,000.00	80,000,000.00							
United Nations Development Programme	80,000,000.00	80,000,000.00			Committed	ODA	Grant		
2. United Nations Environment Programme	7,250,000.00	7,250,000.00							
United Nations Environment Programme	7,250,000.00	7,250,000.00			Committed	ODA	Grant		
3. Other	0.00	0.00	42,571,579.00	42,571,579.00					
Intergovernmental Panel on Climate Change	0.00	0.00	3,920,579.00	3,920,579.00	Committed	ODA	Grant	Cross-cutting	Cross-cutting
Montreal Protocol Multilateral Fund	0.00	0.00	34,500,000.00	34,500,000.00	Committed	ODA	Grant	Mitigation	Energy
UNFCCC Core Budget			4,151,000.00	4,151,000.00	Committed	ODA	Grant	Cross-cutting	Cross-cutting

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.

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[f] Please specify.

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

Custom Footnotes

Table 7(b) USA_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]							
	American dollar - USD	*USD*						
Total contributions through bilateral, regional and other channels	2,219,999,019.25	2,219,999,019.25						
Dominican Republic /	3,479,299.00	3,479,299.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Ecuador /	1,449,880.00	1,449,880.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Ecuador /	1,321,852.00	1,321,852.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
El Salvador /	661,475.00	661,475.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
El Salvador /	30,000,000.00	30,000,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
Eastern Europe, Multiple Countries /	6,077,513.00	6,077,513.00	Committed	ODA	Grant	Mitigation	Energy	
Georgia /	2,993,307.00	2,993,307.00	Committed	ODA	Grant	Mitigation	Energy	
Georgia /	150,000.00	150,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Ghana /	327,400.00	327,400.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Ghana /	1,056,000.00	1,056,000.00	Committed	ODA	Grant	Mitigation	Energy	
Guatemala /	4,486,558.00	4,486,558.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Guatemala /	4,421,731.00	4,421,731.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Haiti /	2,100,000.00	2,100,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Honduras /	3,160,866.00	3,160,866.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Honduras /	305,000.00	305,000.00	Committed	ODA	Grant	Mitigation	Energy	
Honduras /	500,000.00	500,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	

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]							
	American dollar - USD	*USD*						
Honduras /	28,000,000.00	28,000,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
India /	1,910,866.00	1,910,866.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
India /	4,220,454.00	4,220,454.00	Committed	ODA	Grant	Mitigation	Energy	
India /	2,866,299.00	2,866,299.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
India /	32,000,000.00	32,000,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
India /	40,000,000.00	40,000,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
Indonesia /	3,238,288.00	3,238,288.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Indonesia /	4,113,065.00	4,113,065.00	Committed	ODA	Grant	Mitigation	Energy	
Indonesia /	7,872,767.00	7,872,767.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Afghanistan /	54,447,000.00	54,447,000.00	Committed	ODA	Grant	Mitigation	Energy	
Africa, Multiple Countries /	21,664,089.00	21,664,089.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Africa, Multiple Countries /	12,913,617.00	12,913,617.00	Committed	ODA	Grant	Mitigation	Energy	
Africa, Multiple Countries /	25,904,583.00	25,904,583.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Africa, Multiple Countries /	4,000,000.00	4,000,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
Armenia /	300,000.00	300,000.00	Committed	ODA	Grant	Mitigation	Energy	
Asia Pacific, Multiple Countries /	5,932,597.00	5,932,597.00	Committed	ODA	Grant	Adaptation	Cross-cutting	

Table 7(b) USA_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]							
	American dollar - USD	*USD*						
Asia Pacific, Multiple Countries /	4,306,569.00	4,306,569.00	Committed	ODA	Grant	Mitigation	Energy	
Asia Pacific, Multiple Countries /	10,509,761.00	10,509,761.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Bangladesh /	9,766,051.00	9,766,051.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Bangladesh /	4,777,164.00	4,777,164.00	Committed	ODA	Grant	Mitigation	Energy	
Bangladesh /	2,866,299.00	2,866,299.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Belize /	1,302,000.00	1,302,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Brazil /	279,305.00	279,305.00	Committed	ODA	Grant	Mitigation	Energy	
Brazil /	9,551,271.00	9,551,271.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Cambodia /	3,821,731.00	3,821,731.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Cambodia /	3,344,015.00	3,344,015.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Latin America and the Caribbean, Caribbean Islands /	5,254,881.00	5,254,881.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Chile /	2,422,657.00	2,422,657.00	Committed	ODA	Grant	Mitigation	Energy	
Chile /	615,400,000.00	615,400,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
China /	1,177,847.00	1,177,847.00	Committed	ODA	Grant	Mitigation	Energy	
Colombia /	2,893,307.00	2,893,307.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Colombia /	4,615,063.00	4,615,063.00	Committed	ODA	Grant	Mitigation	Energy	
Colombia /	6,128,410.00	6,128,410.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	

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]							
	American dollar - USD	*USD*						
Costa Rica /	59,000,000.00	59,000,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
Middle East and North Africa, Multiple Countries /	2,971,506.00	2,971,506.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Moldova /	881,834.25	881,834.25	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
Mongolia /	189,000.00	189,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Mozambique /	5,236,731.00	5,236,731.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Multiple Regions, Multiple Countries /	103,846,626.00	103,846,626.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Multiple Regions, Multiple Countries /	55,427,434.00	55,427,434.00	Committed	ODA	Grant	Mitigation	Energy	
Multiple Regions, Multiple Countries /	37,712,638.00	37,712,638.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Multiple Regions, Multiple Countries /	3,000,000.00	3,000,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
Multiple Regions, Multiple Countries /	12,660,000.00	12,660,000.00	Committed	Other ()	Other (Insurance)	Mitigation	Energy	
Nepal /	2,360,866.00	2,360,866.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Nepal /	1,910,866.00	1,910,866.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Nigeria /	11,225,455.00	11,225,455.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Nigeria /	728,902.00	728,902.00	Committed	ODA	Grant	Mitigation	Energy	
Asia Pacific, Pacific Islands /	9,076,612.00	9,076,612.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Jamaica /	3,446,198.00	3,446,198.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Jamaica /	1,910,866.00	1,910,866.00	Committed	ODA	Grant	Mitigation	Agriculture, Forestry	

Table 7(b) USA_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]							
	American dollar - USD	*USD*						
Kazakhstan /	3,025,704.00	3,025,704.00	Committed	ODA	Grant	Mitigation	Energy	
Kenya /	950,000.00	950,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Kenya /	3,921,731.00	3,921,731.00	Committed	ODA	Grant	Mitigation	Energy	
Kenya /	550,000.00	550,000.00	Committed	ODA	Grant	Mitigation	Agriculture, Forestry	
Latin America and the Caribbean, Multiple Countries /	4,903,753.00	4,903,753.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Latin America and the Caribbean, Multiple Countries /	4,308,451.00	4,308,451.00	Committed	ODA	Grant	Mitigation	Energy	
Latin America and the Caribbean, Multiple Countries /	10,529,174.00	10,529,174.00	Committed	ODA	Grant	Mitigation	Agriculture, Forestry	
Liberia /	805,000.00	805,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Liberia /	6,029,000.00	6,029,000.00	Committed	ODA	Grant	Mitigation	Energy	
Liberia /	2,623,000.00	2,623,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Macedonia /	150,000.00	150,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Macedonia /	349,161.00	349,161.00	Committed	ODA	Grant	Mitigation	Energy	
Malawi /	3,316,299.00	3,316,299.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Pakistan /	98,380,000.00	98,380,000.00	Committed	ODA	Grant	Mitigation	Energy	
Malawi /	2,866,299.00	2,866,299.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Pakistan /	196,500,000.00	196,500,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
Maldives /	1,910,866.00	1,910,866.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Mali /	100,000.00	100,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	

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]							
	American dollar - USD	*USD*						
Paraguay /	15,000.00	15,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Mauritius /	35,100.00	35,100.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Peru /	8,576,366.00	8,576,366.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Peru /	7,688,030.00	7,688,030.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Mexico /	5,908,008.00	5,908,008.00	Committed	ODA	Grant	Mitigation	Energy	
Peru /	192,800,000.00	192,800,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
Mexico /	7,165,746.00	7,165,746.00	Committed	ODA	Grant	Mitigation	Agriculture, Forestry	
Philippines /	2,568,116.00	2,568,116.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Mexico /	50,000,000.00	50,000,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
Philippines /	2,866,299.00	2,866,299.00	Committed	ODA	Grant	Mitigation	Energy	
Philippines /	2,866,299.00	2,866,299.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Mexico /	775,000.00	775,000.00	Committed	Other ()	Other (loan guarantee)	Mitigation	Energy	
Congo /	80,000.00	80,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Rwanda /	1,910,866.00	1,910,866.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Rwanda /	670,643.00	670,643.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Senegal /	1,910,866.00	1,910,866.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
South Africa /	4,362,299.00	4,362,299.00	Committed	ODA	Grant	Mitigation	Energy	

Table 7(b) USA_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]							
	American dollar - USD	*USD*						
South Africa /	23,000,000.00	23,000,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
United Republic of Tanzania /	2,866,299.00	2,866,299.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
United Republic of Tanzania /	23,090,000.00	23,090,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
United Republic of Tanzania /	7,200,000.00	7,200,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
Thailand /	450,000.00	450,000.00	Committed	ODA	Grant	Mitigation	Energy	
Timor-Leste /	1,910,866.00	1,910,866.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Trinidad and Tobago /	913,000.00	913,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Uganda /	2,866,299.00	2,866,299.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Ukraine /	3,822,178.00	3,822,178.00	Committed	ODA	Grant	Mitigation	Energy	
Ukraine /	4,989,000.00	4,989,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
Uruguay /	168,700,000.00	168,700,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
Viet Nam /	3,521,299.00	3,521,299.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Viet Nam /	3,548,807.00	3,548,807.00	Committed	ODA	Grant	Mitigation	Energy	
Viet Nam /	2,388,582.00	2,388,582.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Zambia /	2,480,000.00	2,480,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Zambia /	4,777,164.00	4,777,164.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	

Table 7(b) USA_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]							
	American dollar - USD	*USD*						
Ethiopia /	20,182,078.00	20,182,078.00	Committed	ODA	Grant	Adaptation	Cross-cutting	

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

Table 7(b) USA_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]							
	American dollar - USD	*USD*						
Total contributions through bilateral, regional and other channels	2,328,594,955.00	2,328,594,955.00						
Dominican Republic /	3,079,500.00	3,079,500.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Ethiopia /	43,438,493.00	43,438,493.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Ethiopia /	1,000,000.00	1,000,000.00	Committed	ODA	Grant	Mitigation	Energy	
Eastern Europe, Multiple Countries /	4,500,000.00	4,500,000.00	Committed	ODA	Grant	Mitigation	Energy	
Georgia /	889,100.00	889,100.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Georgia /	3,000,000.00	3,000,000.00	Committed	ODA	Grant	Mitigation	Energy	
Georgia /	630,000.00	630,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Ghana /	103,600,000.00	103,600,000.00	Committed	ODA	Grant	Mitigation	Energy	
Guatemala /	5,301,000.00	5,301,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Guatemala /	4,400,000.00	4,400,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Guyana /	318,000.00	318,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Haiti /	2,150,700.00	2,150,700.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Haiti /	1,536,000.00	1,536,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Honduras /	3,930,785.00	3,930,785.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Honduras /	400,000.00	400,000.00	Committed	ODA	Grant	Mitigation	Energy	
Honduras /	1,400,000.00	1,400,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	

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]							
	American dollar - USD	*USD*						
India /	4,850,000.00	4,850,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
India /	15,368,625.00	15,368,625.00	Committed	ODA	Grant	Mitigation	Energy	
India /	4,000,000.00	4,000,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
India /	23,000,000.00	23,000,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
Indonesia /	3,000,000.00	3,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Indonesia /	3,000,000.00	3,000,000.00	Committed	ODA	Grant	Mitigation	Energy	
Indonesia /	8,000,000.00	8,000,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Africa, Multiple Countries /	15,000,000.00	15,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Africa, Multiple Countries /	22,930,000.00	22,930,000.00	Committed	ODA	Grant	Mitigation	Energy	
Africa, Multiple Countries /	24,400,000.00	24,400,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Asia Pacific, Multiple Countries /	7,000,000.00	7,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Asia Pacific, Multiple Countries /	3,500,000.00	3,500,000.00	Committed	ODA	Grant	Mitigation	Energy	
Asia Pacific, Multiple Countries /	8,000,000.00	8,000,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Bangladesh /	4,195,000.00	4,195,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Bangladesh /	4,000,000.00	4,000,000.00	Committed	ODA	Grant	Mitigation	Energy	
Bangladesh /	4,000,000.00	4,000,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Belize /	1,755,000.00	1,755,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	

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]							
	American dollar - USD	*USD*						
Brazil /	100,000.00	100,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Brazil /	436,955.00	436,955.00	Committed	ODA	Grant	Mitigation	Energy	
Brazil /	5,250,000.00	5,250,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Cambodia /	4,000,000.00	4,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Cambodia /	3,500,000.00	3,500,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Latin America and the Caribbean, Caribbean Islands /	5,200,000.00	5,200,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Chile /	278,900,000.00	278,900,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
China /	27,800.00	27,800.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
China /	10,953,071.00	10,953,071.00	Committed	ODA	Grant	Mitigation	Energy	
China /	1,000,000.00	1,000,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Colombia /	3,000,000.00	3,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Colombia /	5,721,382.00	5,721,382.00	Committed	ODA	Grant	Mitigation	Energy	
Colombia /	7,000,000.00	7,000,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Colombia /	50,000,000.00	50,000,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
Costa Rica /	2,300,000.00	2,300,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
Mongolia /	169,000.00	169,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Morocco /	262,162.00	262,162.00	Committed	ODA	Grant	Mitigation	Energy	

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]							
	American dollar - USD	*USD*						
Mozambique /	4,000,000.00	4,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Multiple Regions, Multiple Countries /	138,127,941.00	138,127,941.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Multiple Regions, Multiple Countries /	55,904,218.00	55,904,218.00	Committed	ODA	Grant	Mitigation	Energy	
Multiple Regions, Multiple Countries /	33,076,268.00	33,076,268.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Multiple Regions, Multiple Countries /	18,005,000.00	18,005,000.00	Committed	Other ()	Other (Insurance)	Mitigation	Energy	
Multiple Regions, Multiple Countries /	25,000,000.00	25,000,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
Multiple Regions, Multiple Countries /	66,900,000.00	66,900,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Forestry, Agriculture	
Nepal /	3,594,000.00	3,594,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Nepal /	3,100,000.00	3,100,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Nigeria /	10,200,000.00	10,200,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Nigeria /	1,957,432.00	1,957,432.00	Committed	ODA	Grant	Mitigation	Energy	
Nigeria /	47,600,000.00	47,600,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
Asia Pacific, Pacific Islands /	11,500,000.00	11,500,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Israel /	250,000,000.00	250,000,000.00	Committed	Other ()	Other (loan guarantee)	Mitigation	Energy	
Jamaica /	3,000,000.00	3,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Jamaica /	2,000,000.00	2,000,000.00	Committed	ODA	Grant	Mitigation	Energy	

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]							
	American dollar - USD	*USD*						
Jamaica /	43,000,000.00	43,000,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
Jamaica /	585,072.00	585,072.00	Committed	Other ()	Other (insurance)	Mitigation	Energy	
Jamaica /	22,500,000.00	22,500,000.00	Committed	Other ()	Other (loan guarantee)	Mitigation	Energy	
Jordan /	25,000,000.00	25,000,000.00	Committed	Other ()	Other (loan guarantee)	Mitigation	Energy	
Kazakhstan /	2,594,800.00	2,594,800.00	Committed	ODA	Grant	Mitigation	Energy	
Kenya /	3,000,000.00	3,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Kenya /	2,000,000.00	2,000,000.00	Committed	ODA	Grant	Mitigation	Energy	
Kenya /	46,000,000.00	46,000,000.00	Committed	Other ()	Other (loan guarantee)	Mitigation	Energy	
Kosovo /	700,000.00	700,000.00	Committed	ODA	Grant	Mitigation	Energy	
Lao People's Democratic Republic /	200,000.00	200,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Latin America and the Caribbean, Multiple Countries /	5,300,000.00	5,300,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Latin America and the Caribbean, Multiple Countries /	6,168,170.00	6,168,170.00	Committed	ODA	Grant	Mitigation	Energy	
Latin America and the Caribbean, Multiple Countries /	11,447,000.00	11,447,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Lebanon /	900,000.00	900,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Liberia /	600,000.00	600,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Liberia /	1,600,000.00	1,600,000.00	Committed	ODA	Grant	Mitigation	Agriculture, Forestry	
Macedonia /	225,000.00	225,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	

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]							
	American dollar - USD	*USD*						
Malawi /	4,050,000.00	4,050,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Malawi /	331,683.00	331,683.00	Committed	ODA	Grant	Mitigation	Energy	
Pakistan /	228,942.00	228,942.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Pakistan /	72,470,000.00	72,470,000.00	Committed	ODA	Grant	Mitigation	Energy	
Malawi /	3,000,000.00	3,000,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Pakistan /	147,700,000.00	147,700,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
Maldives /	2,000,000.00	2,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Papua New Guinea /	200,000.00	200,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Mali /	4,625,000.00	4,625,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Peru /	6,316,000.00	6,316,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Peru /	7,000,000.00	7,000,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Mexico /	5,590,358.00	5,590,358.00	Committed	ODA	Grant	Mitigation	Energy	
Peru /	106,200,000.00	106,200,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
Mexico /	6,100,000.00	6,100,000.00	Committed	ODA	Grant	Mitigation	Agriculture, Forestry	
Philippines /	3,400,000.00	3,400,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Philippines /	5,042,826.00	5,042,826.00	Committed	ODA	Grant	Mitigation	Energy	
Philippines /	4,000,000.00	4,000,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	

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]							
	American dollar - USD	*USD*						
Mexico /	250,000,000.00	250,000,000.00	Committed	Other ()	Other (loan guarantee)	Mitigation	Energy	
Rwanda /	2,000,000.00	2,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Senegal /	2,550,000.00	2,550,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
South Africa /	3,000,000.00	3,000,000.00	Committed	ODA	Grant	Mitigation	Energy	
South Africa /	34,000,000.00	34,000,000.00	Committed	Other ()	Other (Insurance)	Mitigation	Energy	
Sri Lanka /	550,000.00	550,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
United Republic of Tanzania /	3,000,000.00	3,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
United Republic of Tanzania /	6,600,000.00	6,600,000.00	Committed	Other ()	Other (Loan Guarantee)	Mitigation	Energy	
Timor-Leste /	2,000,000.00	2,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Trinidad and Tobago /	750,000.00	750,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Uganda /	3,000,000.00	3,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Ukraine /	5,000,000.00	5,000,000.00	Committed	ODA	Grant	Mitigation	Energy	
Uruguay /	64,400,000.00	64,400,000.00	Committed	OOF	Non-Concessional Loan	Mitigation	Energy	
Viet Nam /	3,000,000.00	3,000,000.00	Committed	ODA	Grant	Adaptation	Cross-cutting	
Viet Nam /	3,512,672.00	3,512,672.00	Committed	ODA	Grant	Mitigation	Energy	
Viet Nam /	2,500,000.00	2,500,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	

Table 7(b) USA_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]							
	American dollar - USD	*USD*						
Zambia /	5,000,000.00	5,000,000.00	Committed	ODA	Grant	Mitigation	Forestry, Agriculture	
Latin America and the Caribbean, Caribbean Islands /	300,000.00	300,000.00	Committed	ODA	Grant	Mitigation	Energy	

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

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]
Initially piloted in 17 countries (including Armenia, Chile, Ethiopia, Honduras, India, Kenya, Liberia, Maldives, Mali, Mongolia, Nepal, Solomon Islands, and Tanzania), with plans to extend to global coverage in future years	Mitigation	Readiness for Investment in Sustainable Energy Index	Energy	Public	Public	Implemented	The index (1) provides information on country performance in terms of the market conditions, policies, institutions, laws, and regulations that contribute to an enabling environment for private investment; (2) builds on existing measures, such as the World Bank's "Doing Business Index," while identifying sector-specific barriers and incentives; and (3) guides donors and developing country governments toward concrete measures for improving the enabling environment for private-sector investments in clean technologies.
Sub-Saharan Africa	Mitigation	Power Africa	Energy	Private and Public	Public	Implemented	This initiative (1) provides early-stage transaction support, financing support, assistance with regulatory and policy design and reform, capacity building, legal assistance, and other informational resources to facilitate the deployment of clean energy technologies throughout sub-Saharan Africa; and (2) aims to double access to power in sub-Saharan Africa through advancing the transfer of assets from the public to the private sector.
Subregions of Latin America (the Andean region and Caribbean), Africa (East Africa and the Sahel), and Asia (South Asia and Southeast Asia), starting with Colombia, Ethiopia, and Bangladesh	Adaptation	Climate Services For Resilient Development	Other (Cross-Cutting)	Private and Public	Private and Public	Implemented	This program (1) enables developing countries to access and use climate information to enhance decision making; (2) provides needed climate services—including actionable science, data, information, tools, and training—to developing countries that are working to strengthen their national resilience to the impacts of climate change; (3) comprises an international group of founding partner institutions (e.g., American Red Cross, Asian Development Bank, Esri, Google, Inter-American Development Bank, Skoll Global Threats Fund, and United Kingdom) to pool resources and leverage one another's efforts; and (4) works with Peace Corps to provide support for on-the ground implementation of climate-resilience activities.

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]
Africa, Asia, Latin America	Adaptation	U.S. Forest Service-International Union of Forest Research Organizations Partnership	Other (Forestry)	Public	Public	Implemented	This partnership (1) strengthens national forest research systems and enhances the development and implementation of sound forest management policies and practices through the generation and dissemination of quality-research results on forests and trees in Africa, Asia, and Latin America, particularly through capacity development, assistance to scientists, and institution building; (2) mobilizes and disseminates forest-related information; (3) implements capacity-building activities through the International Union of Forest Research Organizations' Special Program for Development of Capacities; and (4) assists forest research institutions to effectively contribute to shaping national and local forest policies and sustainable forest management systems.
Global	Adaptation	Global Forest Information Service	Other (Forestry)	Public	Public	Implemented	This service (1) provides a framework and information services to scientists and policymakers to enable sharing of forest-related data and information through a single gateway; and (2) promotes the dissemination and sharing of forest information and knowledge by developing a common information platform, building capacity, and enhancing partnerships among forestry information providers and users.
Members: Australia, Brazil, Canada, China, Denmark, European Commission, Finland, France, Germany, India, Indonesia, Italy, Japan, Korea, Mexico, Norway, Russia, Saudi Arabia, South Africa, Spain, Sweden, United Arab Emirates, United Kingdom, and United States	Mitigation	Clean Energy Ministerial (CEM)	Energy	Public	Public	Implemented	This high-level global forum promotes policies and programs that advance clean energy technology, share lessons learned and best practices, and encourage the transition to a global clean energy economy. Initiatives (such as Global LEAP, 21st Century Power Partnership, SEAD, and ISGAN, described below) are based on areas of common interest among participating governments and other stakeholders.
Africa, India, and South Asia	Mitigation	Global Lighting and Energy Access Partnership	Energy	Public	Public	Implemented	Global LEAP (1) enhances the efficiency of the direct current (DC)-powered appliances designed for use in an off-grid context (e.g., using home-based electricity systems, often powered by a solar panel on the roof, or community-level DC power via minigrids); (2) catalyzes markets through support for quality assurance frameworks, which build consumer and investor confidence; (3) encourages market transformation toward the best, most efficient off-grid energy service technologies through its awards programs; and (4) facilitates collaboration among donors in the off-grid lighting and energy access space.

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]
India, Mexico, and South Africa	Mitigation	21st Century Power Partnership	Energy	Public	Public	Implemented	A global partnership that (1) provides in-depth technical assistance to support transformation of power systems and enable increased penetration of renewable energy, energy efficiency, storage, and smart grid technologies; (2) conducts thought leadership reports and web seminars on innovations in clean power system transformation to enable global education and support for strategies for increased use of clean energy technologies.
India, Mexico, South Africa, and Indonesia	Mitigation	Super-efficient Equipment and Appliance Deployment (SEAD)	Energy	Public	Public	Implemented	This global partnership (1) provides direct technical assistance to support the development of best-practice appliance energy efficiency policies and programs, and (2) supports voluntary collaboration among governments working to promote the manufacture, purchase, and use of energy-efficient appliances, lighting, and equipment worldwide.
Official participating countries: Australia, Austria, Belgium, Canada, France, Germany, India, Italy, Korea, Mexico, the Netherlands, Sweden, Switzerland, and United States	Mitigation	International Smart Grid Action Network (ISGAN)	Energy	Public	Public	Implemented	ISGAN (1) facilitates dynamic knowledge sharing, technical assistance, and project coordination on innovative policies, regulations, and projects and related best practices; (2) develops testing standards for smart grid components; (3) facilitates coordination of testing efforts across a consortium of international laboratories; (4) authors reports and other resources on emerging smart grid concepts, with a focus on reaching policymakers, regulators, and technology developers and implementers; (5) develops tools for assessing the costs and benefits of implementing smart grid projects; and (6) convenes a network of country representatives, regulators, policymakers, and energy service and technology providers to exchange best practices and lessons learned.

[a] To be reported to the extent possible.

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

[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

This table is purely illustrative and is not a comprehensive list of U.S. technology development and transfer activities.

Provision of capacity-building support[a]

Recipient country/region	*Targeted area*	*Programme or project title*	*Description of programme or project* [b,c]
Global	Mitigation	SilvaCarbon	SilvaCarbon enhances capacity worldwide for monitoring and managing forest and terrestrial carbon. The program draws on the expertise of the U.S. scientific and technical community, including experts from government, academia, nongovernmental organizations, and industry. Working in partnership with developing countries and others, SilvaCarbon enhances worldwide capacity by identifying, testing, and disseminating good practices and cost-effective, accurate technologies for monitoring and managing forest and terrestrial carbon.
Africa, Mekong region, Himalaya region	Adaptation	SERVIR	This joint venture between NASA, USAID, and leading regional technical institutes provides state-of-the-art, satellite-based Earth monitoring, imaging and mapping data, geospatial information, predictive models, and science applications to help improve capacity for environmental decision making among developing nations in eastern and southern Africa, the Hindu-Kush region of the Himalayas, and the lower Mekong River Basin in Southeast Asia.
Global	Adaptation	Public–Private Partnership: Climate Services for Resilient Development	USAID launched this new public–private partnership to strengthen the resilience of countries contending with climate change. Working with partners that include the United Kingdom, the American Red Cross, and Google, USAID aims to increase the capacity of partner countries by making existing climate data, scientific information, tools, and services more accessible to decision makers and vulnerable individuals around the world.
Global	Mitigation	Enhancing Capacity for Low Emission Development Strategies (EC-LEDS)	This program supports partner countries in developing and implementing low-emission development strategies and country-led national plans to promote sustainable development, while reducing GHG emissions. EC-LEDS provides countries with technical assistance to develop GHG inventories, conduct a range of economic analyses, leverage finance, and plan and implement LEDS across multiple economic sectors. Actions stemming from LEDS include putting policies, regulations, and infrastructure in place to dramatically increase clean energy use and energy efficiency and piloting payments for sustainable forest management, including REDD+ arrangements.
Peru, Himalaya Hindu- Kush region of South Asia, Pamir Mountain region of Central Asia	Adaptation	High Mountain Adaptation Partnership	With support from USAID and DOS, this partnership facilitates South–South learning to understand and manage climate-related challenges in high-mountain communities. The program has pioneered rapid assessment techniques for studying the risks of glacier lakes and has supported community-led consultation and planning to address these risks in a timely and effective fashion.
Global	Mitigation	Clean Energy Solutions Center	CESC helps governments design and adopt policies and programs that support the deployment of clean energy technologies. It offers no-cost expert policy assistance, webinars and training forums, clean energy policy reports, data, and tools provided in partnership with more than 35 leading international and regional clean energy organizations.
Global	Multiple Areas	Climate Economic Analysis for Development, Investment, and Resilience (CEADIR) Project	CEADIR aims to increase the capacity of governments, USAID missions, universities and research institutes, private companies, and civil society organizations to conduct and use economic analyses for global climate change mitigation and adaptation. The project also seeks to mobilize finance for climate-related investment. CEADIR provides clients access to global best practices and innovative tools for analysis of and investment in adaptation, clean energy, and sustainable landscapes, as well as supports low-emission development strategies.

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Provision of capacity-building support[a]

Recipient country/region	*Targeted area*	*Programme or project title*	*Description of programme or project* [b,c]
Global	Adaptation	GIZ Climate Finance Readiness	This comprehensive climate finance-readiness support program prioritizes the role of domestic budgets and private investment in climate financing and the facilitation of access to international funds, such as the Green Climate Fund. The goals of the USAID-GIZ partnership include (1) building the capacity of countries to develop ambitious and effective strategies for large-scale mitigation and adaptation linked to enhanced public- and private-sector financing, (2) removing barriers to increased private-sector involvement, (3) increasing the capacity of institutions to access and use climate finance, and (4) increasing the capacity of mission staff to understand and address climate finance issues.

[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

This table is purely illustrative and does not represent an exhaustive list of U.S. capacity-building activities.Capacity-building needs are addressed throughout all of U.S. support activities, not as separate line items or projects, and are provided as a means for taking action on a mutually shared goal.DOS = U.S. Department of State; GHG = greenhouse gas; GIZ = Deutsche Gesellschaft für Internationale Zusammenarbeit; NASA = National Aeronautics and Space Administration; REDD+ = reducing emissions from deforestation and forest degradation in developing countries; USAID = U.S. Agency for International Development.